WE052 plant Neutraubling

EL013
electr.connect.diagram

KU046	customer name	Lagunitas Brewing Company
KU048	customer street	1843 S Washtenaw Ave
KU047	customer city	Chicago IL 60608
KU049	customer country	USA

AN149	line no.	C359360	SE121	Service Line Tel.:	++49 (0) 9401 708090
MA071	machine type	FU003 filler			
SE061	serial no.	K123989			
SC006	connection diagram no.	K123989-001			
MI039	applicable documents	K563D13-001			

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TE054 Installation site	PR161 Process area	PR162 Process section	PR138 process-unit
+ 90014465	= FH01	• LN01	• FU1.0001

TE003 technical data

date	22.07.2013	machine type filler		title page	equi. K123989		=FU1.0001
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	DA	sheet 01 1/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 00/01001			

HA005# AC main circuit AC	
AU143# L1 Outer conductor L1	SC100 black
AU143# L2 Outer conductor L2	SC100 black
AU143# L3 Outer conductor L3	SC100 black
NE017# N neutral conductor N	WE020 white
SC174# GND grounding conductor GND	GR014# /&GE003 green / green-yellow

TR047&SE034 transformer secondary	
AU143# La Outer conductor La	BR005 brown
RU099&UN056# Lb Return conductor Unearthed Lb	BR005 brown
RU099&GE225# Lb Retum conductor Earthed Lb	BR021 brown/white

HA005# DC main circuit DC	
AU143&PO006# L+ Outer conductor positive L+	SC100 black
AU143&NE038# L- Outer conductor negative L-	SC100 black
RU099&NE067# 0V(M) Return conductor Neutral 0V(M)	SW001 black/white

00116 Excepted circuit ahead of master switch	
AU143# La Outer conductor La	OR001 orange
RU099&GE225# Lb/N Return conductor Earthed Lb/N	OR011 Orange/white

EL001# DC electronic components DC	
> +24V -> +120V L+ :	SC038 black/red
+24V L+ :	DU008 dark-blue
+12V L+ :	GR014# /&RO001 green / red
+5V L+ :	BR005# /&RO001 brown / red
0V(M) :	DU009 dark-blue/white
-5V L- :	BR005# /&BL005 brown / blue
-12V L- :	GR014# /&BL005 green / blue
> -24V -> -120V L- :	SC068 black/blue

ST048# AC control circuit AC	
AU143# La Outer conductor La	RO001 red
RU099&UN056# Lb Return conductor Unearthed Lb	RO001 red
RU099&GE225# Lb Return conductor Earthed Lb	RO010 red/white

TR047&SE034 transformer secondary	
AU143# La Outer conductor La	RO001 red
RU099&UN056# Lb Return conductor Unearthed Lb	RO001 red
RU099&GE225# Lb Return conductor Earthed Lb	RO010 red/white

ST048# DC(24V) control circuit DC(24V)	
AU143&PO006# L+ Outer conductor positive L+	DU008 dark-blue
AU143&NE038# L- Outer conductor negative L-	DU008 dark-blue
RU099&NE067# 0V(M) Return conductor Neutral 0V(M)	DU009 dark-blue/white

FR044# AC/DC external voltage AC/DC	
SOND#La/L+ La/L+	OR001 orange
RU099&GE225# Lb/0V (M) Return conductor Earthed Lb/0V (M)	OR011 Orange/white

ME001 test cable	
SOND#AC/DC AC/DC	VI003 violet

FR062&BI033# 120V AC/DC separate feeder to 120V AC/DC	
AU143# La/L+ Outer conductor La/L+	OR001 orange
RU099&GE225# Lb/0V (M) Return conductor Earthed Lb/0V (M)	OR011 Orange/white

BU038&AS003 bus system ASi-bus	
AS001# + ASi +	BR005 brown
AS001# - ASi -	BL005 blue

BU038&PR043 bus system profibus	
SOND# RxD/TxD-N A RxD/TxD-N A	GR014 green
SOND# RxD/TxD-P B RxD/TxD-P B	RO001 red

BU038&DE046 bus system device-net	
DC001# + D.C. +	RO001 red
SOND#CAN H CAN H	WE020 white
SOND#CAN L CAN L	BL005 blue
DC001# - D.C. -	SC100 black

SOND#	
SOND#	SOND#
SOND#	SOND#
SOND#	SOND#

NAD

TE003
technical data

date	18.04.2013	machine type filler	KRONES	wire colours	equi. K123989		=FU1.0001
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	DA	sheet 02 2/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 00/01001			

	A	B	C	D	E	F
0					NA003 # / AB026 name / department	
1					DA013 # date	
2					AE004 # change description	
3					SOND#	
4					VE064 version AE003 # change index	
5					BL011 #/ BL012 sheet/ pages	
6					LN001 serial number	
7						
8						
9						

TE003
technical data

date	18.04.2013	machine type filler		change document	equi. K123989		=FU1.0001
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS	KRONES	client	K123989-001	DA	sheet 03
				Lagunitas Brewing Company			3/348
		version/ 02		SFT_FUG0_201301 00/01001			

	A	B	C	D	E	F
	BE003 description		NE002 neutral designation			
0	PL001 diagram type	FU049 functional module	AN008 line	GR002 group	OR002 loc.	BL018 page number	DA013 date
	1 DIA	technical data	=FU1	0001		01 - 03	22.07.2013
1	2 INH1	* *	=	0001		01 - 03	29.08.2013
	3 INH	* *	=	0001		01 - 11	29.08.2013
	4 LEG	technical data	=FU1	0001	+SK1	01 - 30	18.04.2013
	5 LEG1	* *	=	0001		01 - 01	29.08.2013
	6 LEG2	* *	=	0001		01 - 01	29.08.2013
2	7 SSL	control panel construction	=FU1	0002	+SK1	10 - 30	07.05.2013
	8 DIA	power supply adaptation	=FU1	0101		02 - 02	18.04.2013
	9 STR	power supply adaptation	=FU1	0101	+SK1	10 - 90	26.04.2013
	10 DIA	power supply adaptation	=FU1	0104		02 - 02	18.04.2013
3	11STR	power supply adaptation	=FU1	0104	+SK1	10 - 10	26.04.2013
	12STR	lighting system socket climate	=FU1	0201	+SK1	10 - 25	18.04.2013
	13LEG	control voltage 24V DC	=FU1	0301	+FKA1	10 - 10	18.04.2013
	14STR	control voltage 24V DC	=FU1	0301	+SK1	10 - 72	26.04.2013
	15STR	control voltage 24V DC	=FU1	0302	+SK1	10 - 50	26.04.2013
4	16BUS	PLC overview	=FU1	0501		90 - 90	26.04.2013
	17STR	PLC overview	=FU1	0501	+SK1	01 - 28	26.04.2013
	18STR	PLC overview	=FU1	0502	+SK1	01 - 62	31.05.2013
	19STR	PLC overview	=FU1	0503	+SK1	01 - 81	24.04.2013
	20STR	PLC overview	=FU1	0506	+KPV1	01 - 86	23.04.2013
5	21STR	PLC overview	=FU1	0507	+KKN1	01 - 81	23.04.2013
	22STR	PLC overview	=FU1	0520	+KR1	01 - 45	23.04.2013
	23STR	PLC overview	=FU1	0597	+SK1	01 - 81	19.07.2013
	24STR	LDS line networking	=FU1	0601	+SK1	10 - 14	24.04.2013
6	25 DIA	operation observe	=FU1	0901	+KK1	01 - 01	18.04.2013
	26STR	operation observe	=FU1	0901	+KK1	01 - 50	18.04.2013
	27 DIA	emergency stop maintenance enable	=FU1	1101		01 - 01	30.04.2013
	28STR	emergency stop maintenance enable	=FU1	1101	+SK1	10 - 30	29.04.2013
7	29 DIA	oper.safety guarding	=FU1	1201		01 - 01	27.08.2013
	30STR	oper.safety guarding	=FU1	1201	+SK1	11 - 20	18.04.2013
	31STR	oper.safety guarding	=FU1	1202	+SK1	11 - 11	29.04.2013
	32STR	basic design	=FU1	1501	+KPV1	10 - 21	19.04.2013
8	33STR	sequence control unit	=FU1	1701	+SK1	10 - 18	23.04.2013
	34STR	machine drive	=FU1	2001	+SK1	06 - 81	23.04.2013
	35STR	machine drive	=FU1	2005	+SK1	10 - 13	18.04.2013
	36STR	machine drive	=FU1	2010	+SK1	10 - 13	19.04.2013
9	37STR	machine drive	=FU1	2015	+SK1	10 - 13	19.04.2013
	38STR	machine drive	=FU1	2020	+SK1	10 - 13	19.04.2013
	39STR	machine drive	=FU1	2025	+SK1	10 - 17	29.04.2013

	A	B	C	D	E	F
	BE003 description		NE002 neutral designation			
0	PL001 diagram type	FU049 functional module	AN008 line	GR002 group	OR002 loc.	BL018 page number	DA013 date
	1 STR	machine drive	=FU1	2030	+SK1	10 - 13	19.04.2013
1	2 STR	machine drive	=FU1	2035	+SK1	10 - 13	19.04.2013
	3 STR	machine drive	=FU1	2040	+SK1	10 - 13	19.04.2013
	4 STR	height adjustment system machine head	=FU1	2101	+SK1	10 - 21	26.04.2013
	5 STR	height adjustment system machine head	=FU1	2102	+SK1	20 - 21	26.04.2013
2	6 STR	central lubricat.system	=FU1	2801	+SK1	30 - 30	19.04.2013
	7 STR	speed control system machine control	=FU1	4001	+SK1	10 - 15	18.04.2013
	8 STR	conveyors	=FU1	4101	+SK1	10 - 11	23.04.2013
	9 STR	crowner 1	=FU1	5205	+KKN1	10 - 11	19.04.2013
	10STR	crowner 1	=FU1	5215	+KKN1	05 - 90	19.04.2013
3	11STR	crowner 1	=FU1	5220	+KKN1	10 - 17	23.04.2013
	12STR	crowner 1	=FU1	5240	+SK1	10 - 20	23.04.2013
	13STR	control unit electronic components	=FU1	6301	+SK1	01 - 95	31.05.2013
	14STR	control unit electronic components	=FU1	6302	+KR1	20 - 50	23.04.2013
	15LEG	filling valve contr. electronic	=FU1	6401	+KR1	01 - 06	18.04.2013
4	16STR	filling valve contr. electronic	=FU1	6401	+KR1	40 - 41	18.04.2013
	17STR	general measurement	=FU1	7001	+KR1	10 - 10	18.04.2013
	18STR	control mechanisms	=FU1	7301	+SK1	01 - 90	22.04.2013
	19STR	fill level regul.syst.	=FU1	7501	+KPV1	10 - 15	22.04.2013
	20STR	press.regulat.system	=FU1	7601	+KR1	12 - 20	22.04.2013
5	21STR	valve control	=FU1	8001	+KPV1	01 - 90	18.04.2013
	22STR	valve control	=FU1	8020	+SK1	01 - 90	22.04.2013
	23STR	valve control	=FU1	8030	+KPV1	01 - 90	18.04.2013
	24STR	valve control	=FU1	8040	+KPV1	01 - 18	18.04.2013
6	25STR	valve control	=FU1	8043	+KPV1	01 - 90	22.04.2013
	26STR	valve control	=FU1	8045	+KPV1	01 - 90	22.04.2013
	27STR	valve control	=FU1	8060	+KR1	01 - 90	18.04.2013
	28STR	vacuum	=FU1	9201	+SK1	10 - 10	22.04.2013
7	29STR	vacuum	=FU1	9209	+KPV1	04 - 90	22.04.2013
	30STR	signal transmission	=FU1	9701	+SK1	02 - 50	22.04.2013
	31STR	signal transmission	=FU1	9702	+SK1	10 - 13	28.08.2013
	32STR	signal transmission	=FU1	9704	+SK1	20 - 20	22.04.2013
8	33STR	signal transmission	=FU1	9712	+SK1	10 - 17	27.08.2013
	34STR	signal transmission	=FU1	9714	+SK1	10 - 23	23.04.2013
	35STR	signal transmission	=FU1	9750	+SK1	10 - 11	27.08.2013
	36VBV	* *	KKN1		+KKN1	01 - 02	29.08.2013
9	37VBV	* *	KPV1		+KPV1	01 - 01	29.08.2013
	38VBV	* *	KR1		+KR1	01 - 02	29.08.2013
	39VBV	* *	SK1		+SK1	01 - 19	29.08.2013

date	29.08.2013	machine type filler	KRONES	table of contents	equi. K123989		=.0001
eng.	Krupka						
CAD	Skala	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	INH1	sheet 02 5/348
		version/ 02					

	A	B	C	D	E	F
	BE003 description		NE002 neutral designation			
0	PL001 diagram type	FU049 functional module	AN008 line	GR002 group	OR002 loc.	BL018 page number	DA013 date
	1 XKB	* *				01 - 22	29.08.2013
1	2 XKT	* *				01 - 10	29.08.2013
	3 *	* *	*	*	*	_ *	*
	4 *	* *	*	*	*	_ *	*
	5 *	* *	*	*	*	_ *	*
2	6 *	* *	*	*	*	_ *	*
	7 *	* *	*	*	*	_ *	*
	8 *	* *	*	*	*	_ *	*
	9 *	* *	*	*	*	_ *	*
	10 *	* *	*	*	*	_ *	*
3	11 *	* *	*	*	*	_ *	*
	12 *	* *	*	*	*	_ *	*
	13 *	* *	*	*	*	_ *	*
	14 *	* *	*	*	*	_ *	*
	15 *	* *	*	*	*	_ *	*
4	16 *	* *	*	*	*	_ *	*
	17 *	* *	*	*	*	_ *	*
	18 *	* *	*	*	*	_ *	*
	19 *	* *	*	*	*	_ *	*
	20 *	* *	*	*	*	_ *	*
5	21 *	* *	*	*	*	_ *	*
	22 *	* *	*	*	*	_ *	*
	23 *	* *	*	*	*	_ *	*
	24 *	* *	*	*	*	_ *	*
6	25 *	* *	*	*	*	_ *	*
	26 *	* *	*	*	*	_ *	*
	27 *	* *	*	*	*	_ *	*
	28 *	* *	*	*	*	_ *	*
	29 *	* *	*	*	*	_ *	*
7	30 *	* *	*	*	*	_ *	*
	31 *	* *	*	*	*	_ *	*
	32 *	* *	*	*	*	_ *	*
	33 *	* *	*	*	*	_ *	*
8	34 *	* *	*	*	*	_ *	*
	35 *	* *	*	*	*	_ *	*
	36 *	* *	*	*	*	_ *	*
	37 *	* *	*	*	*	_ *	*
9	38 *	* *	*	*	*	_ *	*
	39 *	* *	*	*	*	_ *	*

date	29.08.2013	machine type	filler		table of contents	equi. K123989		=.0001
eng.	Krupka			KRONES				
CAD	Skala	machine model	MODULFILL HRS		client	K123989-001	INH1	sheet 03 6/348
					Lagunitas Brewing Company			
		version/	02					

	A	B	C	D	E	F
	BE003 description		NE002 neutral designation			
0	PL001 diagram type	BL028 page designation	AN008 line	GR002 group	OR002 loc.	BL018 page number	AE001 change	DA013 date
	1 DA	title page	=FU1	0001		01		22.07.2013
1	2 DA	wire colours	=FU1	0001		02		18.04.2013
	3 DA	change document	=FU1	0001		03		18.04.2013
	4 INH1	table of contents	=	0001		01		29.08.2013
	5 INH1	table of contents	=	0001		02		29.08.2013
2	6 INH1	table of contents	=	0001		03		29.08.2013
	7 INH	table of contents	=	0001		01		29.08.2013
	8 INH	table of contents	=	0001		02		29.08.2013
	9 INH	table of contents	=	0001		03		29.08.2013
	10 INH	table of contents	=	0001		04		29.08.2013
3	11 INH	table of contents	=	0001		05		29.08.2013
	12 INH	table of contents	=	0001		06		29.08.2013
	13 INH	table of contents	=	0001		07		29.08.2013
	14 INH	table of contents	=	0001		08		29.08.2013
	15 INH	table of contents	=	0001		09		29.08.2013
4	16 INH	table of contents	=	0001		10		29.08.2013
	17 INH	table of contents	=	0001		11		29.08.2013
	18 LEG	legend	=FU1	0001	+SK1	01		18.04.2013
	19 LEG	diagram type	=FU1	0001		03		18.04.2013
	20 LEG	colour code	=FU1	0001		04		18.04.2013
5	21 LEG	table IR/IRM	=FU1	0001		18		18.04.2013
	22 LEG	table IR/IRM	=FU1	0001		19		18.04.2013
	23 LEG	table IR/IRM	=FU1	0001		20		18.04.2013
	24 LEG	table IR/IRM	=FU1	0001		21		18.04.2013
6	25 LEG	Motor rating - Motor current	=FU1	0001		22		18.04.2013
	26 LEG	switch - coding	=FU1	0001		25		18.04.2013
	27 LEG	adjusting devices	=FU1	0001		30		18.04.2013
	28 LEG1	process-unit	=	0001		01		29.08.2013
7	29 LEG2	mounting location	=	0001		01		29.08.2013
	30 SSL	main control panel 1	=FU1	0002	+SK1	10		07.05.2013
	31 SSL	main control panel 1	=FU1	0002	+SK1	11		19.07.2013
	32 SSL	terminal strip layout	=FU1	0002	+SK1	12		19.07.2013
8	33 SSL	terminal strip layout	=FU1	0002	+SK1	13		07.05.2013
	34 SSL	main control panel 1 of 1	=FU1	0002	+KKN1	21		07.05.2013
	35 SSL	control cabinet 1 of 1	=FU1	0002	+KPV1	25		07.05.2013
	36 SSL	main control panel 1 of 1	=FU1	0002	+KR1	30		07.05.2013
9	37 DA	technical data	=FU1	0101		02		18.04.2013
	38 STR	power supply	=FU1	0101	+SK1	10		26.04.2013
	39 STR	general 115V	=FU1	0101	+SK1	15		26.04.2013

date	29.08.2013	machine type filler	KRONES	table of contents	equi. K123989		=.0001
eng.	Krupka						
CAD	Skala	machine model MODULFILL HRS		client	K123989-001	INH	sheet 01 7/348
				Lagunitas Brewing Company			
		version/ 02					

	A	B	C	D	E	F
	BE003 description		NE002 neutral designation			
0	PL001 diagram type	BL028 page designation	AN008 line	GR002 group	OR002 loc.	BL018 page number	AE001 change	DA013 date
	1 STR	high-press.inject.syst. 230V	=FU1	0101	+SK1	17		24.05.2013
1	2 STR	closer	=FU1	0101	+SK1	18		26.04.2013
	3 STR	lock	=FU1	0101	+SK1	22		26.04.2013
	4 STR	safety conductor system	=FU1	0101	+SK1	90		07.05.2013
	5 DA	technical data	=FU1	0104		02		18.04.2013
2	6 STR	separate feeder 115V	=FU1	0104	+SK1	10		26.04.2013
	7 STR	lighting system	=FU1	0201	+SK1	10		18.04.2013
	8 STR	cooling unit	=FU1	0201	+SK1	15		29.04.2013
	9 STR	socket	=FU1	0201	+SK1	25		18.04.2013
	10LEG	slip-ring transmitter	=FU1	0301	+FKA1	10		18.04.2013
3	11STR	power supply unit 24V DC	=FU1	0301	+SK1	10		26.04.2013
	12STR	power supply unit 24V DC	=FU1	0301	+SK1	11		18.04.2013
	13STR	control voltage MUX	=FU1	0301	+SK1	20		26.04.2013
	14STR	control voltage MUX	=FU1	0301	+SK1	21		26.04.2013
	15STR	control voltage MUX	=FU1	0301	+SK1	22		26.04.2013
4	16STR	control voltage MUX	=FU1	0301	+SK1	23		26.04.2013
	17STR	control voltage MUX	=FU1	0301	+SK1	24		26.04.2013
	18STR	control voltage MUX	=FU1	0301	+SK1	25		26.04.2013
	19STR	control voltage MUX	=FU1	0301	+SK1	27		26.04.2013
	20STR	control voltage MUX	=FU1	0301	+SK1	30		26.04.2013
5	21STR	control voltage MUX	=FU1	0301	+SK1	39		26.04.2013
	22STR	control voltage MUX	=FU1	0301	+SK1	45		26.04.2013
	23STR	fuse	=FU1	0301	+SK1	50		26.04.2013
	24STR	control voltage MUX	=FU1	0301	+SK1	60		26.04.2013
6	25STR	control voltage MUX	=FU1	0301	+SK1	61		26.04.2013
	26STR	connecting cable +KPV1	=FU1	0301	+SK1	67		26.04.2013
	27STR	slip-ring transmitter	=FU1	0301	+SK1	70		18.04.2013
	28STR	connecting cable +KKN1	=FU1	0301	+SK1	72		26.04.2013
7	29STR	power supply unit	=FU1	0302	+SK1	10		26.04.2013
	30STR	control voltage MUX	=FU1	0302	+SK1	20		26.04.2013
	31STR	control voltage MUX	=FU1	0302	+SK1	21		27.08.2013
	32STR	control voltage MUX	=FU1	0302	+SK1	22		18.04.2013
8	33STR	fuse	=FU1	0302	+SK1	50		26.04.2013
	34BUS	profibus	=FU1	0501		90		26.04.2013
	35STR	rack structure	=FU1	0501	+SK1	01		26.04.2013
	36STR	inp./outp.board assign.	=FU1	0501	+SK1	03		26.04.2013
9	37STR	CPU	=FU1	0501	+SK1	20		26.04.2013
	38STR	connection	=FU1	0501	+SK1	23		26.04.2013
	39STR	Data line network	=FU1	0501	+SK1	24		24.04.2013

date	29.08.2013	machine type filler	KRONES	table of contents	equi. K123989		=.0001
eng.	Krupka						
CAD	Skala	machine model MODULFILL HRS		client	K123989-001	INH	sheet 02
				Lagunitas Brewing Company			8/348
		version/ 02					

	A	B	C	D	E	F
	BE003 description		NE002 neutral designation			
0	PL001 diagram type	BL028 page designation	AN008 line	GR002 group	OR002 loc.	BL018 page number	AE001 change	DA013 date
	1 STR	Fieldbus Network	=FU1	0501	+SK1	25		26.04.2013
1	2 STR	profibus board	=FU1	0501	+SK1	27		24.04.2013
	3 STR	connection optical fibre	=FU1	0501	+SK1	28		18.04.2013
	4 STR	data communicat.board	=FU1	0502	+SK1	01		31.05.2013
	5 STR	Feeder module	=FU1	0502	+SK1	11		24.04.2013
2	6 STR	Feeder module	=FU1	0502	+SK1	15		24.04.2013
	7 STR	inp./outp.board assign.	=FU1	0502	+SK1	21		24.04.2013
	8 STR	inp./outp.board assign.	=FU1	0502	+SK1	22		24.04.2013
	9 STR	inp./outp.board assign.	=FU1	0502	+SK1	41		26.04.2013
	10STR	inp./outp.board assign.	=FU1	0502	+SK1	42		24.04.2013
3	11STR	inp./outp.board assign.	=FU1	0502	+SK1	43		24.04.2013
	12STR	inp./outp.board assign.	=FU1	0502	+SK1	44		24.04.2013
	13STR	inp./outp.board assign.	=FU1	0502	+SK1	61		24.04.2013
	14STR	inp./outp.board assign.	=FU1	0502	+SK1	62		24.04.2013
	15STR	data communicat.board	=FU1	0503	+SK1	01		24.04.2013
4	16STR	data communicat.board	=FU1	0503	+SK1	05		26.04.2013
	17STR	Feeder module	=FU1	0503	+SK1	11		24.04.2013
	18STR	Feeder module	=FU1	0503	+SK1	13		24.04.2013
	19STR	inp./outp.board assign.	=FU1	0503	+SK1	21		24.04.2013
	20STR	inp./outp.board assign.	=FU1	0503	+SK1	22		24.04.2013
5	21STR	inp./outp.board assign.	=FU1	0503	+SK1	23		24.04.2013
	22STR	inp./outp.board assign.	=FU1	0503	+SK1	41		24.04.2013
	23STR	inp./outp.board assign.	=FU1	0503	+SK1	42		24.04.2013
	24STR	inp./outp.board assign.	=FU1	0503	+SK1	43		24.04.2013
6	25STR	inp./outp.board assign.	=FU1	0503	+SK1	44		24.04.2013
	26STR	inp./outp.board assign.	=FU1	0503	+SK1	61		24.04.2013
	27STR	inp./outp.board assign.	=FU1	0503	+SK1	63		24.04.2013
	28STR	inp./outp.board assign.	=FU1	0503	+SK1	64		24.04.2013
7	29STR	inp./outp.board assign.	=FU1	0503	+SK1	65		24.04.2013
	30STR	inp./outp.board assign.	=FU1	0503	+SK1	66		24.04.2013
	31STR	inp./outp.board assign.	=FU1	0503	+SK1	81		24.04.2013
	32STR	data communicat.board	=FU1	0506	+KPV1	01		23.04.2013
8	33STR	data communicat.board	=FU1	0506	+KPV1	02		23.04.2013
	34STR	Ethernet connection	=FU1	0506	+KPV1	03		31.05.2013
	35STR	Feeder module	=FU1	0506	+KPV1	11		23.04.2013
	36STR	Feeder module	=FU1	0506	+KPV1	15		24.04.2013
9	37STR	inp./outp.board assign.	=FU1	0506	+KPV1	41		23.04.2013
	38STR	inp./outp.board assign.	=FU1	0506	+KPV1	42		23.04.2013
	39STR	inp./outp.board assign.	=FU1	0506	+KPV1	43		23.04.2013

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	BE003 description		NE002 neutral designation			
0	PL001 diagram type	BL028 page designation	AN008 line	GR002 group	OR002 loc.	BL018 page number	AE001 change	DA013 date
	1 STR	inp./outp.board assign.	=FU1	0506	+KPV1	44		23.04.2013
1	2 STR	inp./outp.board assign.	=FU1	0506	+KPV1	45		18.04.2013
	3 STR	inp./outp.board assign.	=FU1	0506	+KPV1	46		23.04.2013
	4 STR	inp./outp.board assign.	=FU1	0506	+KPV1	47		23.04.2013
	5 STR	inp./outp.board assign.	=FU1	0506	+KPV1	61		23.04.2013
2	6 STR	inp./outp.board assign.	=FU1	0506	+KPV1	62		23.04.2013
	7 STR	inp./outp.board assign.	=FU1	0506	+KPV1	63		23.04.2013
	8 STR	inp./outp.board assign.	=FU1	0506	+KPV1	64		23.04.2013
	9 STR	inp./outp.board assign.	=FU1	0506	+KPV1	65		23.04.2013
	10STR	inp./outp.board assign.	=FU1	0506	+KPV1	81		23.04.2013
3	11STR	inp./outp.board assign.	=FU1	0506	+KPV1	82		23.04.2013
	12STR	inp./outp.board assign.	=FU1	0506	+KPV1	86		23.04.2013
	13STR	data communicat.board	=FU1	0507	+KKN1	01		23.04.2013
	14STR	Ethernet connection	=FU1	0507	+KKN1	03		31.05.2013
	15STR	Feeder module	=FU1	0507	+KKN1	15		18.04.2013
4	16STR	inp./outp.board assign.	=FU1	0507	+KKN1	41		23.04.2013
	17STR	inp./outp.board assign.	=FU1	0507	+KKN1	42		23.04.2013
	18STR	inp./outp.board assign.	=FU1	0507	+KKN1	61		23.04.2013
	19STR	inp./outp.board assign.	=FU1	0507	+KKN1	62		23.04.2013
5	20STR	inp./outp.board assign.	=FU1	0507	+KKN1	63		23.04.2013
	21STR	inp./outp.board assign.	=FU1	0507	+KKN1	81		23.04.2013
	22STR	rack structure X20	=FU1	0520	+KR1	01		23.04.2013
	23STR	bus Controller	=FU1	0520	+KR1	30		23.04.2013
	24STR	input module	=FU1	0520	+KR1	35		23.04.2013
6	25STR	output module	=FU1	0520	+KR1	40		23.04.2013
	26STR	analog module	=FU1	0520	+KR1	45		23.04.2013
	27STR	data communicat.board	=FU1	0597	+SK1	01		19.07.2013
	28STR	Feeder module	=FU1	0597	+SK1	15		18.04.2013
7	29STR	inp./outp.board assign.	=FU1	0597	+SK1	41		28.08.2013
	30STR	inp./outp.board assign.	=FU1	0597	+SK1	44		27.08.2013
	31STR	inp./outp.board assign.	=FU1	0597	+SK1	48		23.04.2013
	32STR	inp./outp.board assign.	=FU1	0597	+SK1	50		19.07.2013
8	33STR	inp./outp.board assign.	=FU1	0597	+SK1	61		18.04.2013
	34STR	inp./outp.board assign.	=FU1	0597	+SK1	64		27.08.2013
	35STR	inp./outp.board assign.	=FU1	0597	+SK1	68		26.04.2013
	36STR	inp./outp.board assign.	=FU1	0597	+SK1	70		19.07.2013
9	37STR	inp./outp.board assign.	=FU1	0597	+SK1	81		23.04.2013
	38STR	line networking	=FU1	0601	+SK1	10		24.04.2013
	39STR	connection optical fibre	=FU1	0601	+SK1	14		18.04.2013

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	BE003 description		NE002 neutral designation			
0	PL001 diagram type	BL028 page designation	AN008 line	GR002 group	OR002 loc.	BL018 page number	AE001 change	DA013 date
	1 DtA	operator control panel	=FU1	0901	+KK1	01		18.04.2013
1	2 STR	input/output module	=FU1	0901	+KK1	01		18.04.2013
	3 STR	touchscreen	=FU1	0901	+SK1	10		18.04.2013
	4 STR	operator controls	=FU1	0901	+SK1	20		18.04.2013
	5 STR	signal beacon post	=FU1	0901	+SK1	40		18.04.2013
	6 STR	operator controls	=FU1	0901	+SK1	50		18.04.2013
2	7 DtA	overall view	=FU1	1101		01		30.04.2013
	8 STR	machine table	=FU1	1101	+SK1	10		29.04.2013
	9 STR	EMERGENCY STOP switch	=FU1	1101	+SK1	15		18.04.2013
	10STR	emergency stop	=FU1	1101	+SK1	20		26.04.2013
3	11STR	emergency stop	=FU1	1101	+SK1	21		26.04.2013
	12STR	foreign machine	=FU1	1101	+SK1	30		23.04.2013
	13 DtA	overall view	=FU1	1201		01		27.08.2013
	14STR	guard door 1	=FU1	1201	+SK1	11		18.04.2013
4	15STR	guard door 2	=FU1	1201	+SK1	12		18.04.2013
	16STR	guard door 3	=FU1	1201	+SK1	13		18.04.2013
	17STR	protective relay	=FU1	1201	+SK1	20		26.04.2013
	18STR	guard door 1	=FU1	1202	+SK1	11		29.04.2013
5	19STR	pressure switch	=FU1	1501	+KPV1	10		19.04.2013
	20STR	monitoring	=FU1	1501	+SK1	14		19.04.2013
	21STR	monitoring	=FU1	1501	+SK1	20		19.04.2013
	22STR	monitoring	=FU1	1501	+SK1	21		19.04.2013
6	23STR	clock pulse generation	=FU1	1701	+SK1	10		23.04.2013
	24STR	clock pulse generation	=FU1	1701	+SK1	11		23.04.2013
	25STR	signals	=FU1	1701	+SK1	17		23.04.2013
	26STR	revolution clock pulseSV/KK	=FU1	1701	+SK1	18		23.04.2013
7	27STR	rack structure X20	=FU1	2001	+SK1	06		23.04.2013
	28STR	input/output module	=FU1	2001	+SK1	07		18.04.2013
	29STR	Feeder module	=FU1	2001	+SK1	08		18.04.2013
	30STR	input/output module	=FU1	2001	+SK1	09		23.04.2013
	31STR	Feeder module	=FU1	2001	+SK1	10		18.04.2013
8	32STR	input/output module	=FU1	2001	+SK1	11		23.04.2013
	33STR	operator control panel	=FU1	2001	+SK1	12		18.04.2013
	34STR	CPU X20	=FU1	2001	+SK1	20		22.04.2013
	35STR	interface module	=FU1	2001	+SK1	23		18.04.2013
9	36STR	Powerlink	=FU1	2001	+SK1	24		18.04.2013
	37STR	Speed monitoring	=FU1	2001	+SK1	25		23.04.2013
	38STR	rack structure ACOPOS	=FU1	2001	+SK1	30		23.04.2013
	39STR	power supply unit	=FU1	2001	+SK1	31		26.04.2013

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	BE003 description		NE002 neutral designation			
0	PL001 diagram type	BL028 page designation	AN008 line	GR002 group	OR002 loc.	BL018 page number	AE001 change	DA013 date
	1 STR	power module	=FU1	2001	+SK1	32		18.04.2013
1	2 STR	Auxiliary power supply module	=FU1	2001	+SK1	33		19.04.2013
	3 STR	digital inputs	=FU1	2001	+SK1	60		18.04.2013
	4 STR	release	=FU1	2001	+SK1	61		23.04.2013
	5 STR	signals	=FU1	2001	+SK1	66		18.04.2013
	6 STR	plug-in slot assignm.	=FU1	2001	+SK1	80		23.04.2013
2	7 STR	Safety-limited speed	=FU1	2001	+SK1	81		18.04.2013
	8 STR	Emergency power supply unit	=FU1	2005	+SK1	10		18.04.2013
	9 STR	Emergency power supply unit	=FU1	2005	+SK1	11		18.04.2013
	10STR	Emergency power supply unit	=FU1	2005	+SK1	12		18.04.2013
3	11STR	Emergency power supply unit	=FU1	2005	+SK1	13		18.04.2013
	12STR	discharge starwheel RKA	=FU1	2010	+SK1	10		19.04.2013
	13STR	discharge starwheel RKA	=FU1	2010	+SK1	11		19.04.2013
	14STR	discharge starwheel RKA	=FU1	2010	+SK1	12		18.04.2013
4	15STR	discharge starwheel RKA	=FU1	2010	+SK1	13		19.04.2013
	16STR	Transfer starwheel	=FU1	2015	+SK1	10		19.04.2013
	17STR	Transfer starwheel	=FU1	2015	+SK1	11		19.04.2013
	18STR	Transfer starwheel	=FU1	2015	+SK1	12		18.04.2013
5	19STR	discharge starwheel RKA	=FU1	2015	+SK1	13		27.08.2013
	20STR	infeed starwheel FKA	=FU1	2020	+SK1	10		19.04.2013
	21STR	infeed starwheel FKA	=FU1	2020	+SK1	11		19.04.2013
	22STR	infeed starwheel FKA	=FU1	2020	+SK1	12		18.04.2013
	23STR	infeed starwheel FKA	=FU1	2020	+SK1	13		19.04.2013
6	24STR	carrousel	=FU1	2025	+SK1	10		29.04.2013
	25STR	carrousel	=FU1	2025	+SK1	11		19.04.2013
	26STR	carrousel	=FU1	2025	+SK1	12		18.04.2013
	27STR	carrousel	=FU1	2025	+SK1	13		19.04.2013
7	28STR	motor brake	=FU1	2025	+SK1	17		19.04.2013
	29STR	discharge starwheel FKA	=FU1	2030	+SK1	10		19.04.2013
	30STR	discharge starwheel FKA	=FU1	2030	+SK1	11		19.04.2013
	31STR	discharge starwheel FKA	=FU1	2030	+SK1	12		18.04.2013
8	32STR	discharge starwheel FKA	=FU1	2030	+SK1	13		19.04.2013
	33STR	closer1	=FU1	2035	+SK1	10		19.04.2013
	34STR	closer1	=FU1	2035	+SK1	11		19.04.2013
	35STR	closer1	=FU1	2035	+SK1	12		18.04.2013
9	36STR	closer1	=FU1	2035	+SK1	13		18.04.2013
	37STR	discharge starwheel	=FU1	2040	+SK1	10		19.04.2013
	38STR	discharge starwheel	=FU1	2040	+SK1	11		19.04.2013
	39STR	discharge starwheel	=FU1	2040	+SK1	12		18.04.2013

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	BE003 description		NE002 neutral designation			
0	PL001 diagram type	BL028 page designation	AN008 line	GR002 group	OR002 loc.	BL018 page number	AE001 change	DA013 date
	1 STR	discharge starwheel	=FU1	2040	+SK1	13		19.04.2013
1	2 STR	height adjustment system	=FU1	2101	+SK1	10		26.04.2013
	3 STR	probe	=FU1	2101	+KR1	11		18.04.2013
	4 STR	centr.bell lift.cam	=FU1	2101	+SK1	20		19.04.2013
	5 STR	centr.bell lift.cam	=FU1	2101	+SK1	21		19.04.2013
2	6 STR	Pressurisation zone guards	=FU1	2102	+SK1	20		26.04.2013
	7 STR	Pressurisation zone guards	=FU1	2102	+SK1	21		26.04.2013
	8 STR	filtration	=FU1	2801	+SK1	30		19.04.2013
	9 STR	control elements	=FU1	4001	+SK1	10		18.04.2013
	10STR	back-up-switch	=FU1	4001	+SK1	15		19.04.2013
3	11STR	discharge conveyor	=FU1	4101	+SK1	10		23.04.2013
	12STR	discharge conveyor	=FU1	4101	+SK1	11		31.05.2013
	13STR	height adjustment system	=FU1	5205	+KKN1	10		19.04.2013
	14STR	probe	=FU1	5205	+KKN1	11		19.04.2013
	15STR	valve block	=FU1	5215	+KKN1	05		19.04.2013
4	16STR	valve 270	=FU1	5215	+KKN1	27		18.04.2013
	17STR	valve 288	=FU1	5215	+KKN1	28		19.04.2013
	18STR	valve 290	=FU1	5215	+KKN1	29		18.04.2013
	19STR	reserve	=FU1	5215	+KKN1	90		19.04.2013
	20STR	high-press.inject.syst.	=FU1	5220	+KKN1	10		23.04.2013
5	21STR	high-press.inject.syst.	=FU1	5220	+KPV1	15		19.04.2013
	22STR	controlHDE	=FU1	5220	+KPV1	17		27.08.2013
	23STR	sorter	=FU1	5240	+SK1	10		23.04.2013
	24STR	sorter	=FU1	5240	+SK1	11		31.05.2013
6	25STR	vibrator	=FU1	5240	+KKN1	12		19.04.2013
	26STR	sensors	=FU1	5240	+KKN1	16		18.04.2013
	27STR	valves	=FU1	5240	+KKN1	20		18.04.2013
	28STR	rack structure X20	=FU1	6301	+SK1	01		31.05.2013
7	29STR	input modules	=FU1	6301	+SK1	04		18.04.2013
	30STR	extension	=FU1	6301	+SK1	05		18.04.2013
	31STR	output module	=FU1	6301	+SK1	07		18.04.2013
	32STR	CPU	=FU1	6301	+SK1	20		31.05.2013
8	33STR	bus Controller	=FU1	6301	+SK1	23		18.04.2013
	34STR	slip ring	=FU1	6301	+FKA1	40		22.04.2013
	35STR	digital inputs	=FU1	6301	+SK1	60		22.04.2013
	36STR	digital inputs	=FU1	6301	+SK1	61		22.04.2013
	37STR	digital outputs	=FU1	6301	+SK1	66		22.04.2013
9	38STR	control elements	=FU1	6301	+KPV1	95		18.04.2013
	39STR	control voltage MUX	=FU1	6302	+KR1	20		23.04.2013

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	BE003 description		NE002 neutral designation			
0	PL001 diagram type	BL028 page designation	AN008 line	GR002 group	OR002 loc.	BL018 page number	AE001 change	DA013 date
	1 STR	control voltage MUX	=FU1	6302	+KR1	21		23.04.2013
1	2 STR	control voltage MUX	=FU1	6302	+KR1	32		22.04.2013
	3 STR	distributor	=FU1	6302	+KR1	41		22.04.2013
	4 STR	control voltage MUX	=FU1	6302	+KR1	50		23.04.2013
	5 LEG	plug-in slot assignm.	=FU1	6401	+KR1	01		18.04.2013
2	6 LEG	plug-in slot assignm.	=FU1	6401	+KR1	02		18.04.2013
	7 LEG	plug-in slot assignm.	=FU1	6401	+KR1	03		18.04.2013
	8 LEG	plug-in slot assignm.	=FU1	6401	+KR1	04		18.04.2013
	9 LEG	plug-in slot assignm.	=FU1	6401	+KR1	05		18.04.2013
	10LEG	plug-in slot assignm.	=FU1	6401	+KR1	06		18.04.2013
3	11STR	valve block	=FU1	6401	+KR1	40		18.04.2013
	12STR	valve block	=FU1	6401	+KR1	41		23.04.2013
	13STR	temperature sensor TT101	=FU1	7001	+KR1	10		18.04.2013
	14STR	valve block	=FU1	7301	+SK1	01		22.04.2013
	15STR	control mechanism 47	=FU1	7301	+SK1	04		18.04.2013
4	16STR	reserve	=FU1	7301	+SK1	90		22.04.2013
	17STR	valve 100	=FU1	7501	+KPV1	10		22.04.2013
	18STR	level probeLS110	=FU1	7501	+KPV1	11		18.04.2013
	19STR	control elements	=FU1	7501	+KPV1	13		18.04.2013
5	20STR	control	=FU1	7501	+KR1	15		18.04.2013
	21STR	pressure transmitter PT120	=FU1	7601	+KR1	12		22.04.2013
	22STR	pressure transmitter PT130	=FU1	7601	+KPV1	13		18.04.2013
	23STR	valve 200,201	=FU1	7601	+KPV1	20		22.04.2013
	24STR	valve block	=FU1	8001	+KPV1	01		18.04.2013
6	25STR	valve 102-105	=FU1	8001	+KPV1	10		18.04.2013
	26STR	reserve	=FU1	8001	+KPV1	90		22.04.2013
	27STR	valve block	=FU1	8020	+SK1	01		22.04.2013
	28STR	valve 250	=FU1	8020	+SK1	25		18.04.2013
7	29STR	valve 260-261	=FU1	8020	+SK1	26		22.04.2013
	30STR	reserve	=FU1	8020	+SK1	90		22.04.2013
	31STR	valve block	=FU1	8030	+KPV1	01		18.04.2013
	32STR	valve 120-122	=FU1	8030	+KPV1	12		18.04.2013
8	33STR	reserve	=FU1	8030	+KPV1	90		22.04.2013
	34STR	valve block	=FU1	8040	+KPV1	01		18.04.2013
	35STR	valve block	=FU1	8040	+KPV1	02		18.04.2013
	36STR	valve 161-164	=FU1	8040	+KPV1	16		18.04.2013
9	37STR	valve 171	=FU1	8040	+KPV1	17		18.04.2013
	38STR	valve 182-184	=FU1	8040	+KPV1	18		18.04.2013
	39STR	valve block	=FU1	8043	+KPV1	01		22.04.2013

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	BE003 description		NE002 neutral designation			
0	PL001 diagram type	BL028 page designation	AN008 line	GR002 group	OR002 loc.	BL018 page number	AE001 change	DA013 date
	1 STR	valve 169	=FU1	8043	+KPV1	16		22.04.2013
1	2 STR	valve 179	=FU1	8043	+KPV1	17		22.04.2013
	3 STR	valve 208	=FU1	8043	+KPV1	20		18.04.2013
	4 STR	reserve	=FU1	8043	+KPV1	90		22.04.2013
	5 STR	valve block	=FU1	8045	+KPV1	01		22.04.2013
	6 STR	reserve	=FU1	8045	+KPV1	90		22.04.2013
2	7 STR	valve block	=FU1	8060	+KR1	01		18.04.2013
	8 STR	valve 220	=FU1	8060	+KR1	22		18.04.2013
	9 STR	reserve	=FU1	8060	+KR1	90		22.04.2013
	10STR	vacuum pumpG141	=FU1	9201	+SK1	10		22.04.2013
3	11STR	valve block	=FU1	9209	+KPV1	04		22.04.2013
	12STR	level probeLS119	=FU1	9209	+KPV1	11		22.04.2013
	13STR	valve 140-144	=FU1	9209	+KPV1	14		18.04.2013
	14STR	temperature control TIS156	=FU1	9209	+KPV1	15		27.08.2013
	15STR	reserve	=FU1	9209	+KPV1	90		22.04.2013
4	16STR	customer	=FU1	9701	+SK1	02		22.04.2013
	17STR	container conveyor	=FU1	9701	+SS	04		22.04.2013
	18STR	Checkmat	=FU1	9701	+SK1	12		26.04.2013
	19STR	rinser	=FU1	9701	+SK1	14		23.04.2013
5	20STR	closure supply1	=FU1	9701	+SS	50		23.04.2013
	21STR	customer	=FU1	9702	+SK1	10		28.08.2013
	22STR	customer	=FU1	9702	+SK1	11		23.04.2013
	23STR	customer	=FU1	9702	+SK1	12		19.07.2013
6	24STR	customer	=FU1	9702	+SK1	13		19.07.2013
	25STR	container conveyor	=FU1	9704	+SK1	20		22.04.2013
	26STR	Checkmat	=FU1	9712	+SK1	10		27.08.2013
	27STR	Checkmat	=FU1	9712	+SK1	11		27.08.2013
	28STR	Checkmat	=FU1	9712	+SK1	14		23.04.2013
7	29STR	Checkmat	=FU1	9712	+SK1	15		23.04.2013
	30STR	Checkmat	=FU1	9712	+SK1	17		23.04.2013
	31STR	rinser	=FU1	9714	+SK1	10		23.04.2013
	32STR	rinser	=FU1	9714	+SK1	11		23.04.2013
8	33STR	rinser	=FU1	9714	+SK1	15		23.04.2013
	34STR	connection	=FU1	9714	+SK1	23		23.04.2013
	35STR	closure supply	=FU1	9750	+SK1	10		27.08.2013
	36STR	closure supply	=FU1	9750	+SK1	11		30.04.2013
	37VBV	terminal strip +KKN1	KKN1		+KKN1	01		29.08.2013
9	38VBV	terminal strip +KKN1	KKN1		+KKN1	02		29.08.2013
	39VBV	terminal strip +KPV1	KPV1		+KPV1	01		29.08.2013

date	29.08.2013	machine type	filler	table of contents	equi. K123989		=.0001
eng.	Krupka						
CAD	Skala	machine model	MODULFILL HRS	client	K123989-001	INH	sheet 09 15/348
		version/	02	Lagunitas Brewing Company			

KRONES

	A	B	C	D	E	F
	BE003 description		NE002 neutral designation			
0	PL001 diagram type	BL028 page designation	AN008 line	GR002 group	OR002 loc.	BL018 page number	AE001 change	DA013 date
	1 VBV	terminal strip +KR1	KR1		+KR1	01		29.08.2013
1	2 VBV	terminal strip +KR1	KR1		+KR1	02		29.08.2013
	3 VBV	terminal strip +SK1	SK1		+SK1	01		29.08.2013
	4 VBV	terminal strip +SK1	SK1		+SK1	02		29.08.2013
	5 VBV	terminal strip +SK1	SK1		+SK1	03		29.08.2013
2	6 VBV	terminal strip +SK1	SK1		+SK1	04		29.08.2013
	7 VBV	terminal strip +SK1	SK1		+SK1	05		29.08.2013
	8 VBV	terminal strip +SK1	SK1		+SK1	06		29.08.2013
	9 VBV	terminal strip +SK1	SK1		+SK1	07		29.08.2013
	10VBV	terminal strip +SK1	SK1		+SK1	08		29.08.2013
3	11VBV	terminal strip +SK1	SK1		+SK1	09		29.08.2013
	12VBV	terminal strip +SK1	SK1		+SK1	10		29.08.2013
	13VBV	terminal strip +SK1	SK1		+SK1	11		29.08.2013
	14VBV	terminal strip +SK1	SK1		+SK1	12		29.08.2013
	15VBV	terminal strip +SK1	SK1		+SK1	13		29.08.2013
4	16VBV	terminal strip +SK1	SK1		+SK1	14		29.08.2013
	17VBV	terminal strip +SK1	SK1		+SK1	15		29.08.2013
	18VBV	terminal strip +SK1	SK1		+SK1	16		29.08.2013
	19VBV	terminal strip +SK1	SK1		+SK1	17		29.08.2013
5	20VBV	terminal strip +SK1	SK1		+SK1	18		29.08.2013
	21VBV	terminal strip +SK1	SK1		+SK1	19		29.08.2013
	22XKB	cable assignment list				01		29.08.2013
	23XKB	cable assignment list				02		29.08.2013
6	24XKB	cable assignment list				03		29.08.2013
	25XKB	cable assignment list				04		29.08.2013
	26XKB	cable assignment list				05		29.08.2013
	27XKB	cable assignment list				06		29.08.2013
	28XKB	cable assignment list				07		29.08.2013
7	29XKB	cable assignment list				08		29.08.2013
	30XKB	cable assignment list				09		29.08.2013
	31XKB	cable assignment list				10		29.08.2013
	32XKB	cable assignment list				11		29.08.2013
8	33XKB	cable assignment list				12		29.08.2013
	34XKB	cable assignment list				13		29.08.2013
	35XKB	cable assignment list				14		29.08.2013
	36XKB	cable assignment list				15		29.08.2013
9	37XKB	cable assignment list				16		29.08.2013
	38XKB	cable assignment list				17		29.08.2013
	39XKB	cable assignment list				18		29.08.2013

	A	B	C	D	E	F
		BE003 description		NE002 neutral designation		
0	PL001 diagram type	BL028 page designation	AN008 line	GR002 group	OR002 loc.	BL018 page number	AE001 change	DA013 date
	1 XKB	cable assignment list				19		29.08.2013
1	2 XKB	cable assignment list				20		29.08.2013
	3 XKB	cable assignment list				21		29.08.2013
	4 XKB	cable assignment list				22		29.08.2013
	5 XKT	cable list				01		29.08.2013
	6 XKT	cable list				02		29.08.2013
2	7 XKT	cable list				03		29.08.2013
	8 XKT	cable list				04		29.08.2013
	9 XKT	cable list				05		29.08.2013
	10 XKT	cable list				06		29.08.2013
3	11 XKT	cable list				07		29.08.2013
	12 XKT	cable list				08		29.08.2013
	13 XKT	cable list				09		29.08.2013
	14 XKT	cable list				10		29.08.2013
4	15 *	* *	*	*	*		*	*
	16 *	* *	*	*	*		*	*
	17 *	* *	*	*	*		*	*
	18 *	* *	*	*	*		*	*
5	19 *	* *	*	*	*		*	*
	20 *	* *	*	*	*		*	*
	21 *	* *	*	*	*		*	*
	22 *	* *	*	*	*		*	*
	23 *	* *	*	*	*		*	*
6	24 *	* *	*	*	*		*	*
	25 *	* *	*	*	*		*	*
	26 *	* *	*	*	*		*	*
	27 *	* *	*	*	*		*	*
7	28 *	* *	*	*	*		*	*
	29 *	* *	*	*	*		*	*
	30 *	* *	*	*	*		*	*
	31 *	* *	*	*	*		*	*
8	32 *	* *	*	*	*		*	*
	33 *	* *	*	*	*		*	*
	34 *	* *	*	*	*		*	*
	35 *	* *	*	*	*		*	*
9	36 *	* *	*	*	*		*	*
	37 *	* *	*	*	*		*	*
	38 *	* *	*	*	*		*	*
	39 *	* *	*	*	*		*	*

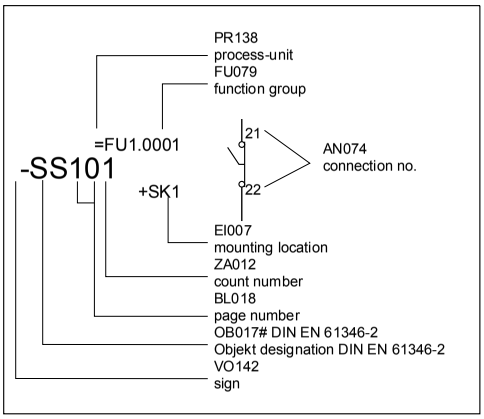
date	29.08.2013	machine type	filler		table of contents	equi. K123989	=.0001
eng.	Krupka			KRONES			
CAD	Skala	machine model	MODULFILL HRS		client	K123989-001	INH sheet 11 17/348
		version/	02		Lagunitas Brewing Company		

OB017 Objekt designation | NA002 to | DI019#EN 61346-2 DIN EN 61346-2 | OD001 or | JI002# IEEE 315 (NFPA Nr.79 Part 18.7) JIC IEEE 315 (NFPA Nr.79 Part 18.7)

KE019# 1 identification block 1 : = . PR138# .&FU079 process-unit . function group

KE019# 2 identification block 2 : + EI007 mounting location

KE019# 3 identification block 3 : - OB017 Objekt designation



BE058
example

SC097 switch type : -SS DR056 rotary switch

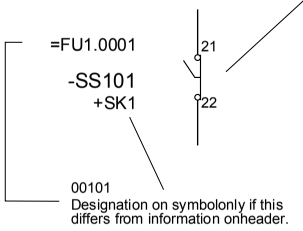
AN074 connection no. : 21,22

BL018 page number : 10

ZA012 count number : 1

PR138# .&FU079 process-unit . function group : =FU1.0001

EI007 mounting location : +SK1



SO019 sorting sequence in the electrical component list

1. PR138 process-unit
2. FU079 function group
3. OB016 oiler
4. EI007 mounting location

AL013 alphanumeric : -A101 | VO018 in front of -A103

EL006
ELECTRICAL COMPONENT LIST

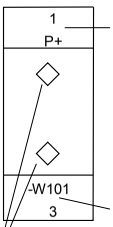
KRONES AG
NEUTRAUBLING

SC006# :
connection diagram no. : K123989-001
KU001# :
customer : Lagunitas Brewing Company
BE070# :
person in charge : Krupka

AN008# .&GR002 line . group		OR002 loc.	GE063 compon.	ME026 Qty	SA018 partnumber	BE071 designation	AK003 AKZ
=.0101	+SS	-SS101		1	WWWWWWWWWW.....	SC040 switch	4
=.0201	+SS	-SS101		1	VVVVVVVVVV	KL036# UK5 terminals UK5	2
=.0501	+SK	-TB51		10	YYYYYYYYYY	KL036# UK5 terminals UK5	2
=.0901	+PM	-TB51		10	ZZZZZZZZZZ	KL036# UK5 terminals UK5	2
=.1101	+SK	-TB51		10	ZZZZZZZZZZ	KL036# UK5 terminals UK5	2

SO004 sorter
NA002 to +SK
GR001 group

KL099
terminal designation



1.P+
DI059# P+
direct potential P+
GL024
grouping mark
ZA012
count number

-W101.3
AD002# 3
single-core number 3
GL024
grouping mark
00100
Object designation "W"With number of line

KL098
terminal actuation

EQ002 Equipment | EI007 mounting location | PR138# .&FU079 process-unit . function group

EQ001 equi.		
K123989	+SK1	=FU1.0001
K123989-001	LEG	BL011 sheet 01 / 18/348

BL011 #...&VO004#... sheet... of...

PR107 project number

00062 page no.per group and diagram type

PL001 diagram type : LEG = LE006 legend

KU065 customer fields

FU049 functional module

BL028 page designation

TE003 technical data

date	18.04.2013	machine type	filler	legend	equi. K123989	+SK1	=FU1.0001
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	LEG	sheet 01 / 18/348
				Lagunitas Brewing Company			
		version/	02	SFT_FUG0_201301 00/01001			

LE006
legend

PL001
diagram type

BUS	=	BU026 bus overview	SSL	=	SC226 control cabinet overview
DA	=	TE003 technical data	STR	=	ST069 schematic diagram
DIA	=	DI007 overall view	VBV	=	KL031 terminal strip
INH	=	IN014 table of contents	XKB	=	KA018 cable assignment list
LEG	=	LE006 legend	XKT	=	KA019 cable list

TE003
technical data

date	18.04.2013	machine type filler	KRONES	diagram type	equi. K123989		=FU1.0001
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	LEG	sheet 03 19/348
		version/ 02		SFT_FUG0_201301 00/01001			

FA029	colour code as per	DIN VDE 0293	DIN IEC 60757
SC100	black	sw	BK
BR005	brown	br	BN
RO001	red	rt	RD
OR001	orange	or	OG
GE011	yellow	ge	YE
GR014	green	gn	GN
BL005	blue	bl	BU
HE002	light-blue	hbl	LTBU
VI003	violet	vi	VT
GR009	grey	gr	GY
WE020	white	ws	WH
RO011	pink	rs	PK
GO001	gold	-	GD
TU013	turquoise	tk	TQ
SI063	silver	-	SR
BE080	beige	be	-
TR017	transparent	tr	-
GE003	green-yellow	gnge	GNYE

VA011# A = 00086
variant A = The cables are supplied by KRONES and are already attached at one end. The other cable end is already provided with a wire end ferrule. This cable has to be laid and attached at one end.

VA011# X = 00087
variant X = The cables and the necessary small accessories (wire end ferrules,cable ties, cable identification marks etc.) are to be supplied.

VA011# B = 00088
variant B = The cables are supplied by KRONES. The necessary small accessories (wire end ferrules, cable ties, cable identification marks, etc.) are to be supplied. This cable must be laid and attached at both ends.

VA011# S = 00089
variant S = The cables are supplied by KRONES and are already attached at one end. The other cable end is already provided with a plug. This cable has to be laid and provided with a plug.

date	18.04.2013	machine type filler	KRONES	colour code	equi. K123989		=FU1.0001
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	LEG	sheet 04 20/348
		version/ 02		SFT_FUG0_201301 00/01001			

~~SC204~~ Switchgear	~~EI119#~~ set-point value IR(A)	~~MI056~~ Minimum tripping current IRM / Ii (A)	~~SC204~~ Switchgear	~~EI119#~~ set-point value IR(A)	~~MI056~~ Minimum tripping current IRM / Ii (A)
SIEMENS	Hauptschalter	3-polig	EATON-MOELLER	Hauptschalter	3-polig
3VL1703-1DD33	25-32	300	NZMB1-A32	25-32	350
3VL1704-1DD33	32-40	600	NZMB1-M40	32-40	320-560
3VL2705-1DC33	40-50	300-600	NZMB1-M50	40-50	400-700
3VL2706-1DC33	50-63	300-600	NZMB1-M63	50-63	504-882
3VL2708-1DC33	63-80	400-800	NZMB1-M80	63-80	640-1120
3VL2710-1DC33	80-100	500-1000	NZMB1-M100	80-100	800-1250
3VL2712-1DC33	100-125	625-1250	NZMB2-M125	100-125	1000-1750
3VL2716-1DC36	125-160	800-1600	NZMB2-M160	125-160	1280-2240
3VL3720-1DC36	160-200	1000-2000	NZMB2-M200	160-200	1600-2500
3VL3725-1SB36	100-250	1,25-11 x (In = IRmax)	NZMN3-AE250	125-250	500-2750
3VL4740-1SB36	250-400	1,25-11 x (In = IRmax)	NZMN3-AE400	200-400	800-4400
SIEMENS	Hauptschalter	4-polig	EATON-MOELLER	Hauptschalter	4-polig
3VL1725-1EH43	25	300	NZMB1-4-A32	25-32	350
3VL1703-1EH43	32	600	NZMB1-4-A40	32-40	320-400
3VL2705-1EJ43	40-50	300-600	NZMB1-4-A50	40-50	300-500
3VL2706-1EJ43	50-63	300-600	NZMB1-4-A63	50-63	380-630
3VL2708-1EJ43	63-80	400-800	NZMB1-4-A80	63-80	480-800
3VL2710-1EJ43	80-100	500-1000	NZMB1-4-A100	80-100	600-1000
3VL2712-1EJ43	100-125	625-1250	NZMB1-4-A125	100-125	750-1250
3VL2716-1EJ46	125-160	800-1600	NZMB1-4-A160	125-160	1280
3VL3720-1EJ46	160-200	1000-2000	NZMB2-4-A200	160-200	1200-2000
3VL3725-1EJ46	200-250	1250-2500	NZMB2-4-A250	200-250	1500-2500
3VL4740-1BB46	160-400	1,25-11 x (In = IRmax)	NZMN3-4-AE400	200-400	800-4400

TE003
technical data

date	18.04.2013	machine type filler	KRONES	table IR/IRM	equi. K123989		=FU1.0001
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	LEG	sheet 18 21/348
		version/ 02		SFT_FUG0_201301 00/01001			

~~SC204~~ Switchgear	~~EI119#~~ set-point value IR(A)	~~MI056~~ Minimum tripping current IRM / Ii (A)	~~SC204~~ Switchgear	~~EI119#~~ set-point value IR(A)	~~MI056~~ Minimum tripping current IRM / Ii (A)
SIEMENS	Trafoschutzschalter		EATON-MOELLER	Trafoschutzschalter	
3RV2411-0FA10	0,35-0,50	10	PKZM0-12-T	8,00-12,00	224
3RV2411-0GA10	0,45-0,63	13	PKZM0-16-T	10,00-16,00	358
3RV2411-0HA10	0,55-0,80	16	PKZM0-20-T	16,00-20,00	380
3RV2411-0JA10	0,70-1,00	21	PKZM0-25-T	20,00-25,00	420
3RV2411-0KA10	0,90-1,25	26			
3RV2411-1AA10	1,10-1,60	33	Allen Bradley	Trafoschutzschalter	
3RV2411-1BA10	1,40-2,00	42	140M-C2T-A63	0,40-0,63	13
3RV2411-1CA10	1,80-2,50	52	140M-C2T-B10	0,63-1,00	21
3RV2411-1DA10	2,20-3,20	65	140M-C2T-B16	1,00-1,60	32
3RV2411-1EA10	2,80-4,00	82	140M-C2T-B25	1,60-2,50	52
3RV2411-1FA10	3,50-5,00	104	140M-C2T-B40	2,50-4,00	82
3RV2411-1GA10	4,50-6,30	130	140M-C2T-B63	4,00-6,30	130
3RV2411-1HA10	5,50-8,00	163	140M-C2T-C10	6,30-10,00	208
3RV2411-1JA10	7,00-10,00	208	140M-C2T-C16	10,00-16,00	260
3RV2411-1KA10	9,00-12,50	260	140M-D8T-C20	14,50-20,00	325
3RV2421-4AA10	11,00-16,00	286			
3RV2421-4BA10	14,00-20,00	325	Telemecanique-Schneider	Trafoschutzschalter	
			GV2-RT03	0,25-0,40	8
EATON-MOELLER	Trafoschutzschalter		GV2-RT04	0,40-0,63	13
PKZM0-0,16-T	0,10-0,16	2,4	GV2-RT05	0,63-1,00	22
PKZM0-0,25-T	0,16-0,25	4,25	GV2-RT06	1,00-1,60	33
PKZM0-0,4-T	0,25-0,40	6,8	GV2-RT07	1,60-2,50	51
PKZM0-0,63-T	0,40-0,63	12	GV2-RT08	2,50-4,00	78
PKZM0-1-T	0,63-1,00	20	GV2-RT10	4,00-6,30	138
PKZM0-1,6-T	1,00-1,60	32	GV2-RT12	6,00-10,00	200
PKZM0-2,5-T	1,60-2,50	50	GV2-RT16	9,00-14,00	280
PKZM0-4-T	2,50-4,00	84	GV2-RT20	13,00-18,00	400
PKZM0-6,3-T	4,00-6,30	141			
PKZM0-10-T	6,30-10,00	224			

SC204 Switchgear	EI119# set-point value IR(A)	MI056 Minimum tripping current IRM / Ii (A)	SC204 Switchgear	EI119# set-point value IR(A)	MI056 Minimum tripping current IRM / Ii (A)
SIEMENS	Motorschutzschalter		SIEMENS	Motorschutzschalter	
3RV2011-0AA15	0,11-0,16	2,1	3RV1041-4LA10	70,00-90,00	1170
3RV2011-0BA15	0,14-0,20	2,6	3RV1041-4MA10	80,00-100,00	1235
3RV2011-0CA15	0,18-0,25	3,3			
3RV2011-0DA15	0,22-0,32	4,2			
3RV2011-0EA15	0,28-0,40	5,2			
3RV2011-0FA15	0,35-0,50	6,5	Eaton-Möller	Motorschutzschalter	
3RV2011-0GA15	0,45-0,63	8,2	PKZM0-0,16	0,10-0,16	2,2
3RV2011-0HA15	0,55-0,80	10	PKZM0-0,25	0,16-0,25	3,5
3RV2011-0JA15	0,70-1,00	13	PKZM0-0,4	0,25-0,40	5,6
3RV2011-0KA15	0,90-1,25	16	PKZM0-0,63	0,40-0,63	8,8
3RV2011-1AA15	1,10-1,60	21	PKZM0-1	0,63-1,00	14
3RV2011-1BA15	1,40-2,00	26	PKZM0-1,6	1,00-1,60	22
3RV2011-1CA15	1,80-2,50	33	PKZM0-2,5	1,60-2,50	35
3RV2011-1DA15	2,20-3,20	42	PKZM0-4	2,50-4,00	56
3RV2011-1EA15	2,80-4,00	52	PKZM0-6,3	4,00-6,30	88
3RV2011-1FA15	3,50-5,00	65	PKZM0-10	6,30-10,00	140
3RV2011-1GA15	4,50-6,30	82	PKZM0-16	10,00-16,00	224
3RV2011-1HA15	5,50-8,00	104	PKZM0-20	16,00-20,00	280
3RV2011-1JA15	7,00-10,00	130	PKZM0-25	20,00-25,00	350
3RV2011-1KA15	9,00-12,50	163	ZM-4-PKZ2	2,40-4,00	35-55
3RV2021-4AA15	11,00-16,00	208	ZM-6-PKZ2	4,00-6,00	50-80
3RV2021-4BA15	14,00-20,00	260	ZM-10-PKZ2	6,00-10,00	80-140
3RV2021-4DA15	20,00-25,00	325	ZM-16-PKZ2	10,00-16,00	130-220
3RV2021-4NA15	23,00-28,00	364	ZM-25-PKZ2	16,00-25,00	200-350
3RV2021-4EA15	27,00-32,00	400	ZM-32-PKZ2	25,00-32,00	275-425
3RV1031-4FA10	28,00-40,00	520	ZM-40-PKZ2	32,00-40,00	350-500
3RV1031-4GA10	36,00-45,00	585	PKZM 4-50	40,00-50,00	700
3RV1041-4JA10	45,00-63,00	819	PKZM 4-63	50,00-65,00	882
3RV1041-4KA10	57,00-75,00	975	NZMB1-M80	65,00-80,00	640-1120

SC204 Switchgear	EI119# set-point value IR(A)	MI056 Minimum tripping current IRM / Ii (A)	SC204 Switchgear	EI119# set-point value IR(A)	MI056 Minimum tripping current IRM / Ii (A)
Eaton-Möller	Motorschutzschalter		Telemecanique-Schneider	Motorschutzschalter	
NZMB1-M100	80,00-100,00	800-1250	GV2-P01	0,10-0,16	1,5
NZMB2-M125	100,00-125,00	1000-1750	GV2-P02	0,16-0,25	2,4
NZMB2-M160	125,00-160,00	1280-2240	GV2-P03	0,25-0,40	5
			GV2-P04	0,40-0,63	8
			GV2-P05	0,63-1,00	13
			GV2-P06	1,00-1,60	22,5
Allen Bradley	Motorschutzschalter		GV2-P07	1,60-2,50	33,5
140M-C2E-A16	0,10-0,16	2,1	GV2-P08	2,50-4,00	51
140M-C2E-A25	0,16-0,25	3,3	GV2-P10	4,00-6,30	78
140M-C2E-A40	0,25-0,40	5,2	GV2-P14	6,00-10,00	138
140M-C2E-A63	0,40-0,63	8,2	GV2-P16	9,00-14,00	170
140M-C2E-B10	0,63-1,00	13	GV2-P20	13,00-18,00	223
140M-C2E-B16	1,00-1,60	21	GV2-P21	17,00-23,00	327
140M-C2E-B25	1,60-2,50	33	GV2-P22	20,00-25,00	327
140M-C2E-B40	2,50-4,00	52	GV3-P32	23,00-32,00	448
140M-C2E-B63	4,00-6,30	82	GV3-P40	30,00-40,00	560
140M-C2E-C10	6,30-10,00	130	GV3-P50	37,00-50,00	700
140M-D8E-C16	10,00-16,00	208	GV3-P65	48,00-65,00	910
140M-D8E-C20	14,50-20,00	260			
140M-D8E-C25	18,00-25,00	325			
140M-F8E-C20	14,50-20,00	260			
140M-F8E-C25	18,00-25,00	325			
140M-F8E-C32	23,00-32,00	416			
140M-F8E-C45	32,00-45,00	585			
140-CMN-6300	45,00-63,00	882			
140-CMN-9000	63,00-90,00	1260			

TE003
technical data

date	18.04.2013	machine type filler	KRONES	table IR/IRM	equi. K123989		=FU1.0001
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	LEG	sheet 21 24/348
		version/ 02		SFT_FUG0_201301 00/01001			

MO063 Motor rating IN069# Horse Power in Horse Power (hp)	MO063 Motor rating IN069&KI031 in Kilowatt (kW)	DR094 460V three-phase motor I_n (A)	DR094 400V three-phase motor I_n (A)
1/2	0,37	1,1	1,3
3/4	0,56	1,6	1,8
1	0,75	2,1	2,3
1 1/2	1,1	3,0	3,3
2	1,5	3,4	4,3
3	2,2	4,8	6,1
5	3,7	7,6	9,7
7 1/2	5,6	11	14
10	7,4	14	18
15	11	21	27
20	15	27	34
25	18,5	34	44
30	22	40	51
40	30	52	66
50	37	65	83
60	45	77	103
75	56	96	128

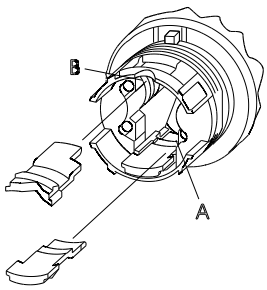
DR146# UL508A, Tab.50.1 / NEC, Tab.430.150
3-phase motor values acc. to UL508A, Tab.50.1 / NEC, Tab.430.150

MO063 Motor rating IN069# Horse Power in Horse Power (hp)	MO063 Motor rating IN069&KI031 in Kilowatt (kW)	WE079 115V AC motor I_n (A)	WE079 230V AC motor I_n (A)
1/10	0,075	3,0	1,5
1/8	0,093	3,8	1,9
1/6	0,12	4,4	2,2
1/4	0,19	5,8	2,9
1/3	0,25	7,2	3,6
1/2	0,37	9,8	4,9
3/4	0,56	13,8	6,9
1	0,75	16	8,0
1 1/2	1,1	20	10

EI235# UL508A, Tab.50.1
Single-phase AC motor values according to UL508A, Tab.50.1

00090
Maintained-contact/monentary-contact functions changed
and key removable with key and selector switches

M22-XC-...



KO131
Coding parts

M22-XC-Y

M22-XC-R

M22-XC-G

00091
Removeable
in switch position

CO029 code / FU030 function		
A1		0
A2		I 0
A3		0 II
A4		I 0
A5		0
A6		0 II
A7		0

SC324
Key can be removed

= ✓

SC325
Key can not be removed

= ×

FU030
function

RA005# =
maintained-contact =

TA052# =
momentary-contact =

WA081#2
Selectors with 2 positions

CO029 code / FU030 function	0 I	0	I B
A2	6O"	✓	– ✓
A1	5O"	✓	X
A5	4O"	✓	X

WA081#3
Selectors with 3 positions

CO029 code / FU030 function	I 0 II	I A	0	II B
B1	6O" 6O"	– ✓	✓	– ✓
A1	5O" 5O"	X	✓	X
A2	6O" 5O"	– ✓	✓	X
A3	5O" 6O"	X	✓	– ✓
B2	4O" 4O"	X	✓	X
A4	6O" 4O"	– ✓	✓	X
A5	5O" 4O"	X	✓	X
A6	4O" 6O"	X	✓	– ✓
A7	4O" 5O"	X	✓	X

TE003
technical data

date	18.04.2013	machine type	filler	switch - coding	equi. K123989		=FU1.0001
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	LEG	sheet 25 26/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 00/01001			

UL006# SIEMENS ultrasonic sensor SIEMENS			
~~BR040~~ diameter measurement	~~AN003#~~ 2 connection 2	~~OF001~~ open	
		<150cm	<80cm	<40cm
			L-	L+

TE003
technical data

date	18.04.2013	machine type filler		adjusting devices	equi. K123989		=FU1.0001
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS	KRONES	client Lagunitas Brewing Company	K123989-001	LEG	sheet 30 27/348
		version/ 02		SFT_FUG0_201301 00/01001			

LE006
legend

	PR138 process-unit	BE071 designation
1	=FM	foreign machine
2	=FU	filler
3	=RI	rinser
4	*	*
5	*	*
6	*	*
7	*	*
8	*	*
9	*	*
10	*	*
11	*	*
12	*	*
13	*	*
14	*	*
15	*	*
16	*	*
17	*	*
18	*	*
19	*	*
20	*	*
21	*	*
22	*	*
23	*	*
24	*	*
25	*	*
26	*	*
27	*	*
28	*	*
29	*	*
30	*	*
31	*	*
32	*	*
33	*	*
34	*	*
35	*	*
36	*	*
37	*	*
38	*	*
39	*	*

date	29.08.2013	machine type filler	KRONES	process-unit	equi. K123989		=.0001
eng.	Krupka						
CAD	Skala	machine model MODULFILL HRS		client	K123989-001	LEG1	sheet 01
				Lagunitas Brewing Company			28/348
		version/ 02					

LE006
legend

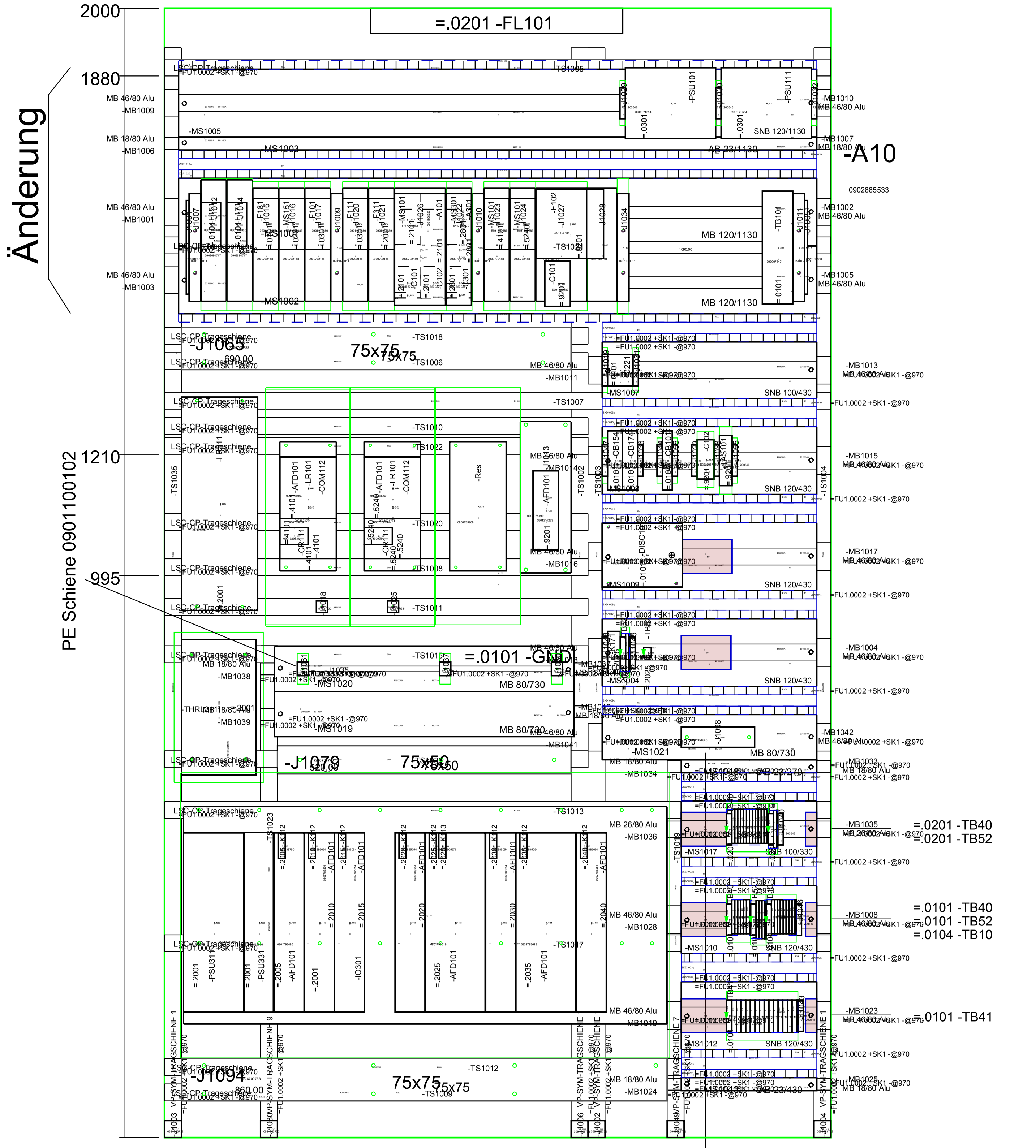
	A EI007 mounting location	B BE071 designation
1	+ALM	Discharge module
2	+ELM	Infeed module
3	+FKA	filler carrousel
4	+KK	operator control panel
5	+KKN	terminal box crowner
6	+KN	crowner
7	+KPV	terminal box grouped valves
8	+KR	terminal box ring bowl
9	+PV	grouped valves
10	+SK	main control panel
11	+SS	control cabinet
12	+SU	guards
13	+TBB	container conveyor
14	+VP	vacuum pump vacuum blower
15	*	* *
16	*	* *
17	*	* *
18	*	* *
19	*	* *
20	*	* *
21	*	* *
22	*	* *
23	*	* *
24	*	* *
25	*	* *
26	*	* *
27	*	* *
28	*	* *
29	*	* *
30	*	* *
31	*	* *
32	*	* *
33	*	* *
34	*	* *
35	*	* *
36	*	* *
37	*	* *
38	*	* *
39	*	* *

date	29.08.2013	machine type	filler	KRONES	mounting location	equi. K123989	=.0001
eng.	Krupka						
CAD	Skala	machine model	MODULFILL HRS		client	K123989-001	LEG2 sheet 01
					Lagunitas Brewing Company		29/348
		version/	02				

=.0201-A03 IN-151
Installed in the left door

=.0101-PL221, SS122 & =.0201-A251
Installed in the right door

Standardlützerahmen
bei Änderungen Teile
kennzeichen (Layer83)



VE045
valve block
IM016
Installed in the control cabinet base

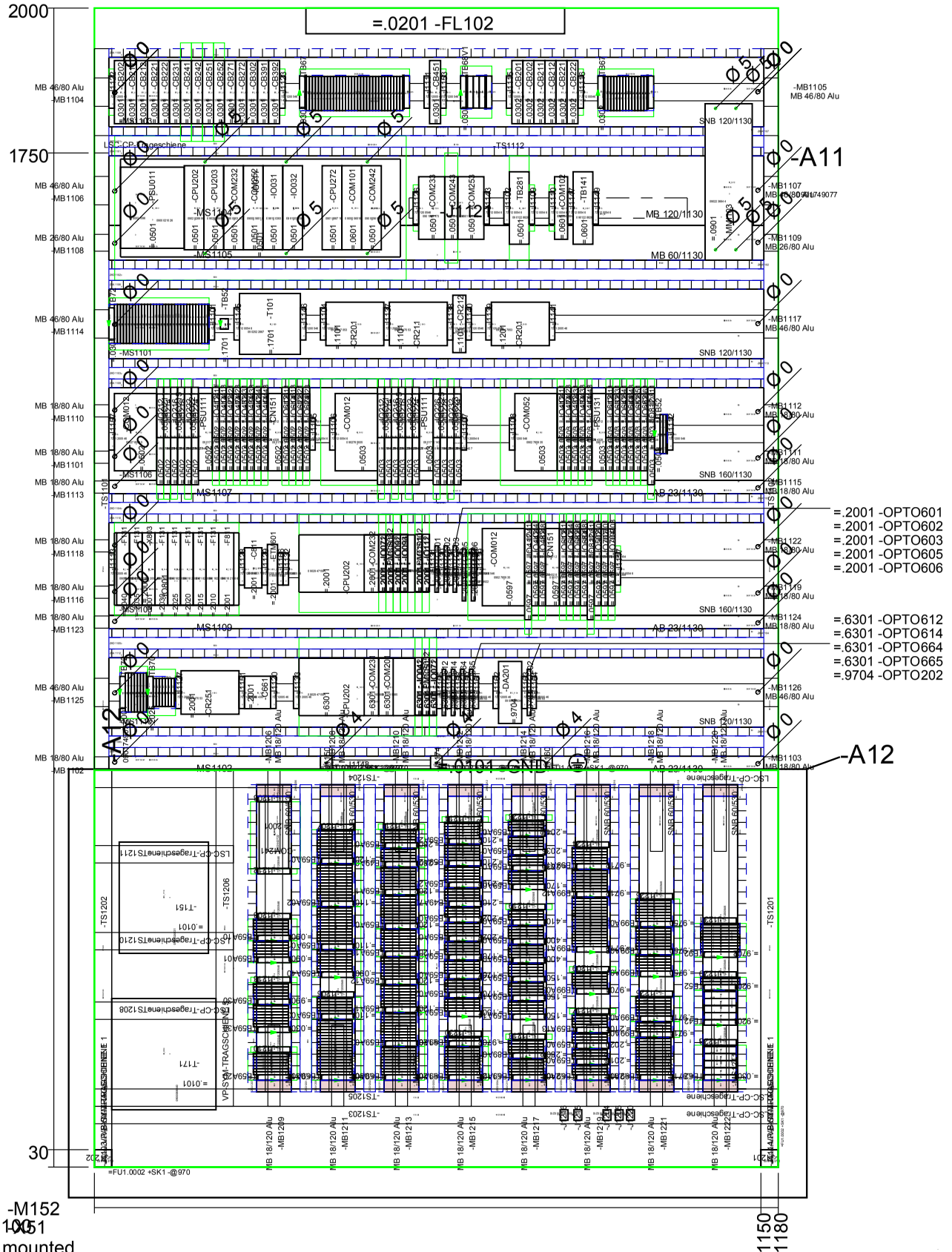
ZU201
power line contr.panel

scale 1:10

SC319
control panel construction

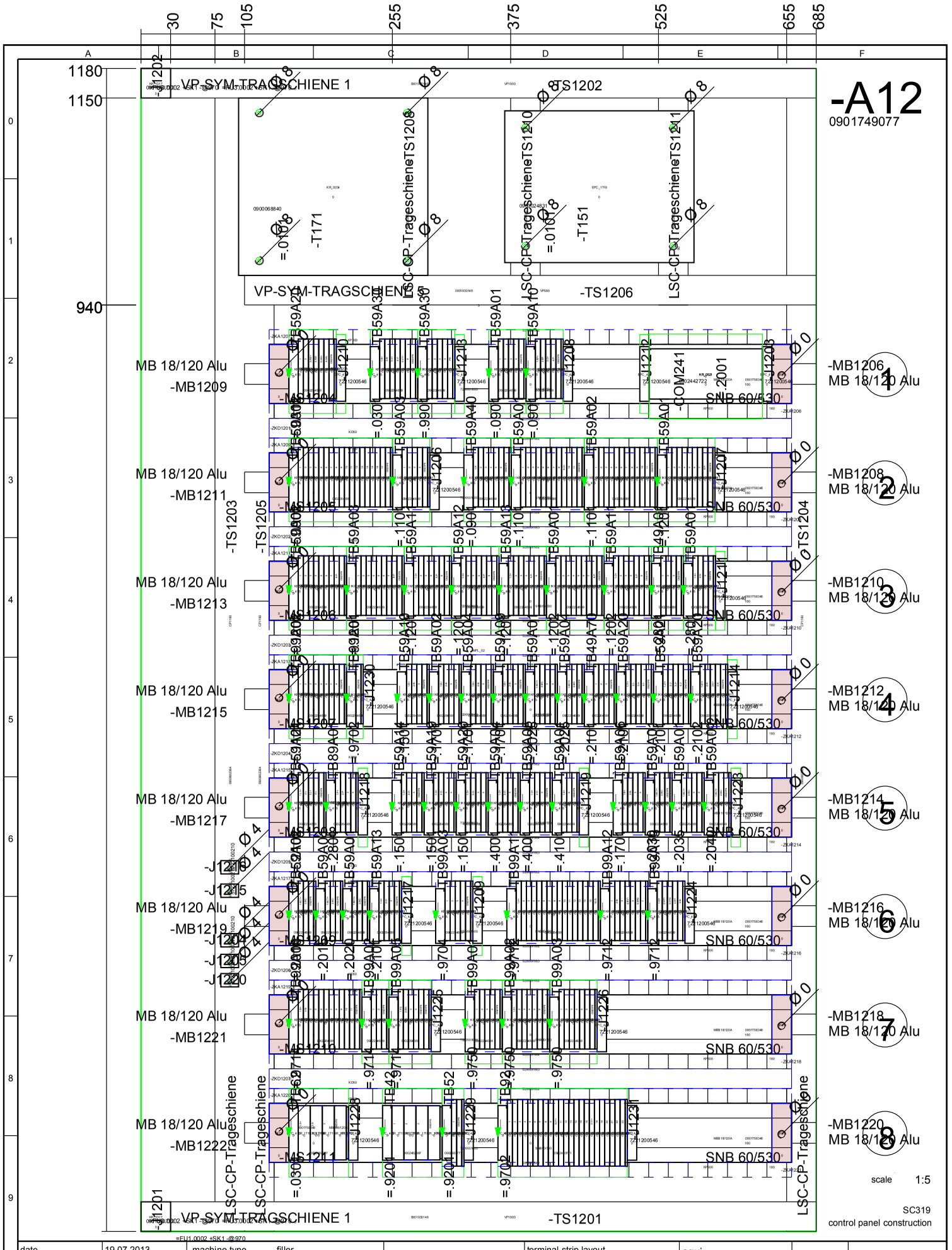
date	07.05.2013	machine type	filler	main control panel 1	equi. K123989	+SK1	=FU1.0002
eng.	Krupka						
CAD	Stanek	machine model	MODULFILL HRS	client	K123989-001	SSL	sheet 10
		version/	02	Lagunitas Brewing Company			30/348
				SFT_FUG0_201207 00/50010			

KRONES



date	19.07.2013	machine type	filler	main control panel 1	equi. K123989	+SK1	=FU1.0002
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	SSL	sheet 11 31/348
				Lagunitas Brewing Company			
		version/	02	SFT_FUG0_201207 00/50010			

KRONES



date	19.07.2013	machine type	filler	terminal strip layout	equi. K123989	+SK1	=FU1.0002
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	SSL	sheet 12
				Lagunitas Brewing Company			32/348
		version/	02	SFT_FUG0_201207 00/50010			

KRONES

A	B	C	D	E	F

1	2	3	4	5
=.0301 -TB59A20	=.0901 -TB59A12	=.1201 -TB59A02	=.1101 -TB99A02	=.2102 -TB59A21
=.0301 -TB59A30	=.1101 -TB59A03	=.1201 -TB59A03	=.9702 -TB99A01	=.2801 -TB89A01
=.9901 -TB59A30	=.0901 -TB59A40	=.1201 -TB59A11	=.1501 -TB59A10	=.1501 -TB59A14
=.0901 -TB59A01	=.1101 -TB59A01	=.1201 -TB59A12	=.1701 -TB59A02	=.1501 -TB59A19
=.0901 -TB59A10	=.1101 -TB59A02	=.1201 -TB59A13	=.1701 -TB59A04	=.1501 -TB59A20
	=.1201 -TB59A01	=.1202 -TB59A01	=.1701 -TB59A09	=.4001 -TB59A04
		=.1202 -TB59A11	=.2025 -TB59A01	=.4001 -TB59A05
		=.2801 -TB49A01	=.2025 -TB59A04	=.4101 -TB59A01
		=.2801 -TB59A01	=.2101 -TB49A70	=.1701 -TB59A06
			=.2101 -TB59A20	=.2030 -TB59A01
			=.2101 -TB59A21	=.2035 -TB59A01
			=.2102 -TB59A20	=.2040 -TB59A01

6	7	8
=.2010 -TB59A01	=.9714 -TB99A01	=.0301 -TB62
=.2015 -TB59A01	=.9714 -TB99A02	=.9201 -TB42
=.2020 -TB59A01	=.9714 -TB99A05	=.9201 -TB52
=.2101 -TB59A13	=.9750 -TB99A01	=.9702 -TB92
=.9704 -TB99A03	=.9750 -TB99A02	
=.9712 -TB99A11	=.9750 -TB99A03	
=.9712 -TB99A12		
=.9712 -TB99A13		

scale 1:10

SC319
control panel construction

date	07.05.2013	machine type	filler	terminal strip layout	equi. K123989	+SK1	=FU1.0002
eng.	Krupka						
CAD	Stanek	machine model	MODULFILL HRS	client	K123989-001	SSL	sheet 13 33/348
				Lagunitas Brewing Company			
		version/	02	SFT_SSL0_201301 00/50210			

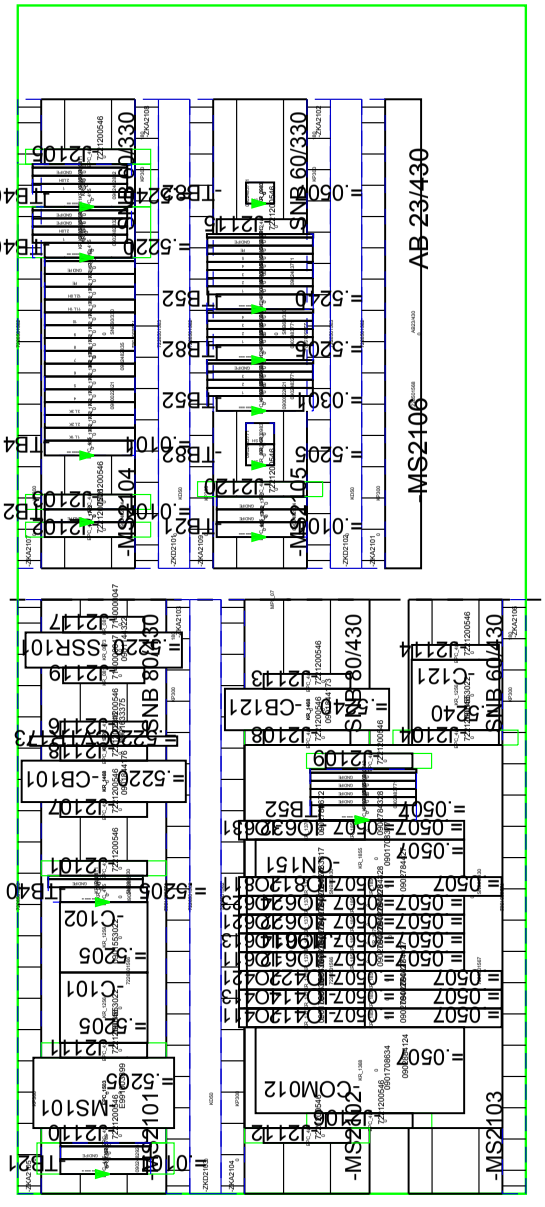
KRONES

Standardlützerahmen
dieser Rahmen kann
nicht verändert werden

-A21

RU008
rear side

VO043
front side

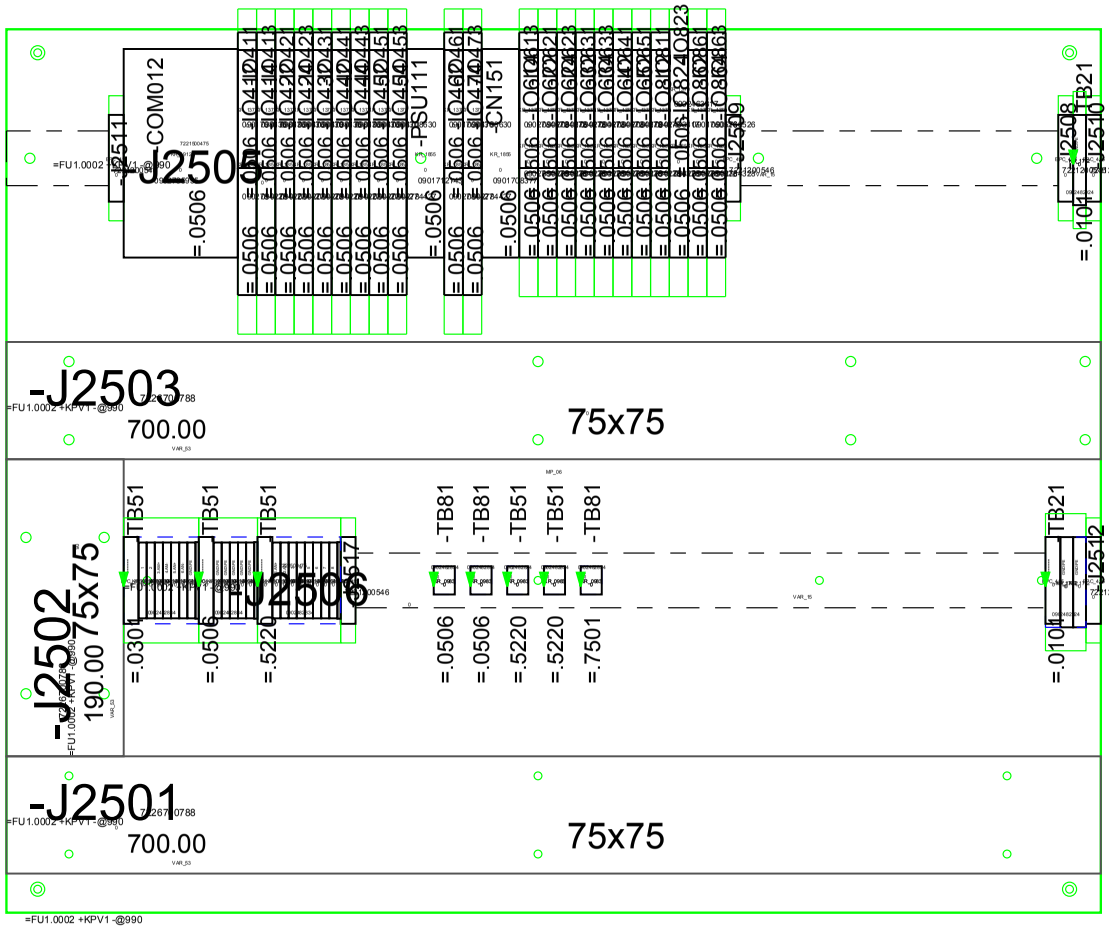


scale 1:5

SC319
control panel construction

date	07.05.2013	machine type filler	KRONES	main control panel 1 of 1	equi. K123989	+KKN1	=FU1.0002
eng.	Krupka						
CAD	Stanek	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	SSL	sheet 21 34/348
		version/ 02		SFT_FUG0_201301 00/01021			

Standardmontageplatte
bei Änderungen Teile
kennzeichen (Layer83)



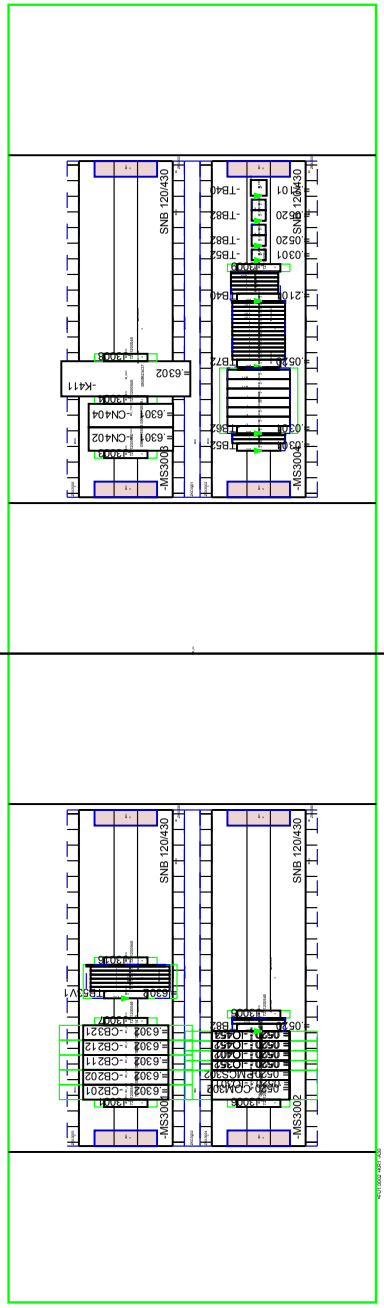
scale 1:5

SC214
control cabinet construction

date	07.05.2013	machine type filler	KRONES	control cabinet 1 of 1	equi. K123989	+KPV1	=FU1.0002
eng.	Krupka						
CAD	Stanek	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	SSL	sheet 25 35/348
		version/ 02		SFT_FUG0_201301 00/01010			

Die Montagestege dürfen nicht verschoben,oder ver-kürzt werden

-A30



RU008
rear side

VO043
front side

0901179007 BxHxT 830x470x690

scale 1:10

SC319
control panel construction

date	07.05.2013	machine type	filler	main control panel 1 of 1	equi. K123989	+KR1	=FU1.0002
eng.	Krupka						
CAD	Stanek	machine model	MODULFILL HRS	client	K123989-001	SSL	sheet 30 36/348
				Lagunitas Brewing Company			
		version/	02	SFT_FUG0_201301 00/00042			

KRONES

TE003 **technical data**

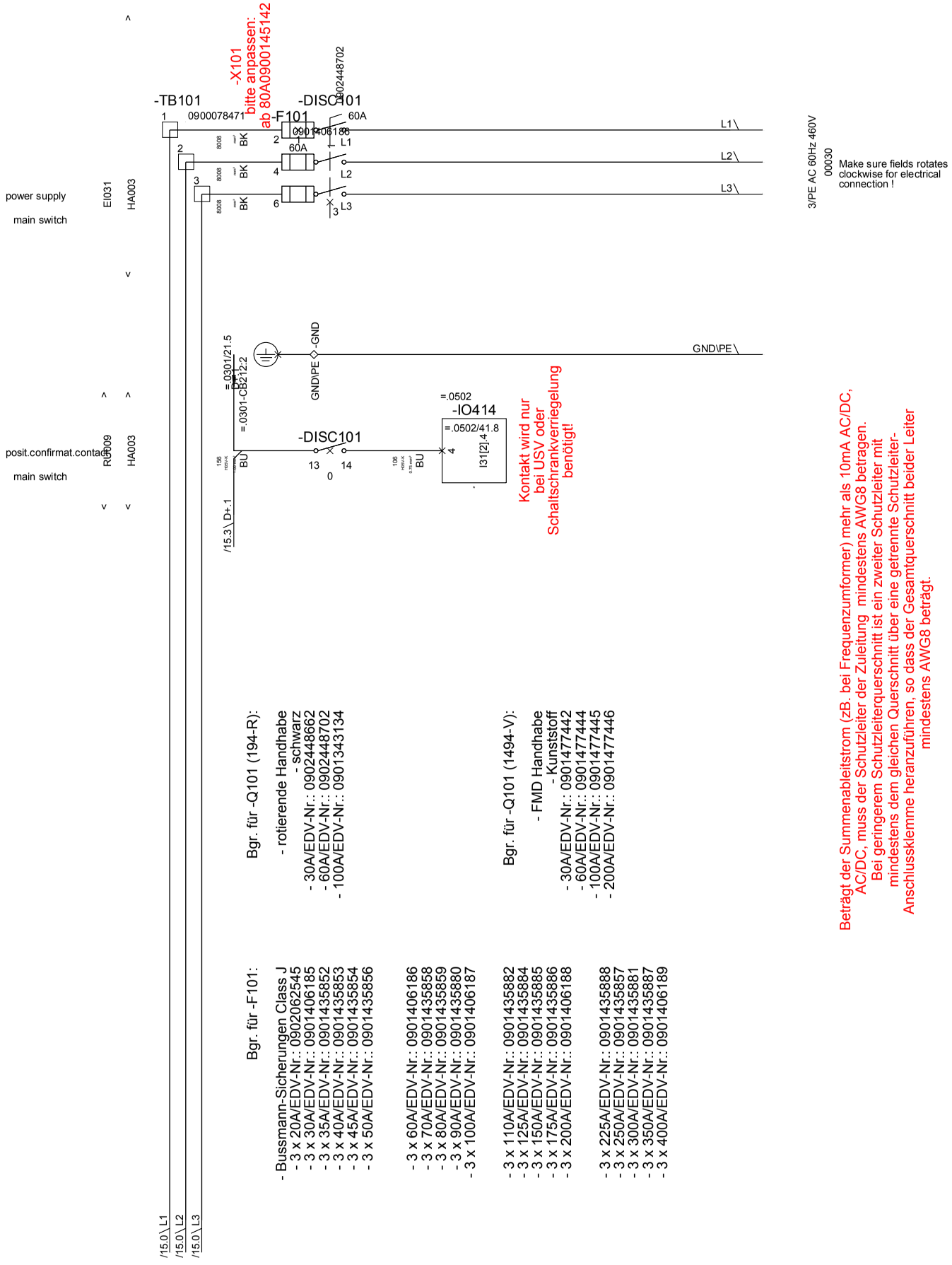
NE066	Rated voltage	460 / 266	V	NE025	rated connected load	35	kVA
ST341	Type of current and system	3PH/GND		NE025	rated connected load	31	kW
NE065	System frequency	60	Hz	LE100# cos phi	power factor cos phi	0,9	
VO155# Ib max	Full-load current Ib max	44	A	NE032	rated control voltage	24	V DC
GR100	largest motor/unit FLA	29,9	A				
NE064	Supply disconnecting device	Icu 100	kA				
MA150# SCCR	Maximum short-circuit current SCCR	6	kA				
GE224	Enclosure protection class	NEMA 12					

NAD

Herst./Spanng.	Typ	Icw (kA/1s)	Icu (kA)
Möl.LTS - 690V	P3-63	1,26	
AB SLT - 600V	194-R		100
AB SLT - 600V	1494-V		200
Möl.LS - 480V	NZMN3*NA		42
Möl.LS - 600V	NZMN3*NA		35
Möl.LS - 480V	NZMN4*NA		42
Möl.LS - 600V	NZMN4*NA		35
USV LTS - 600V	32A	0,43	
USV LTS - 600V	63A	0,58	

EI031&AN135
power supply adaptation

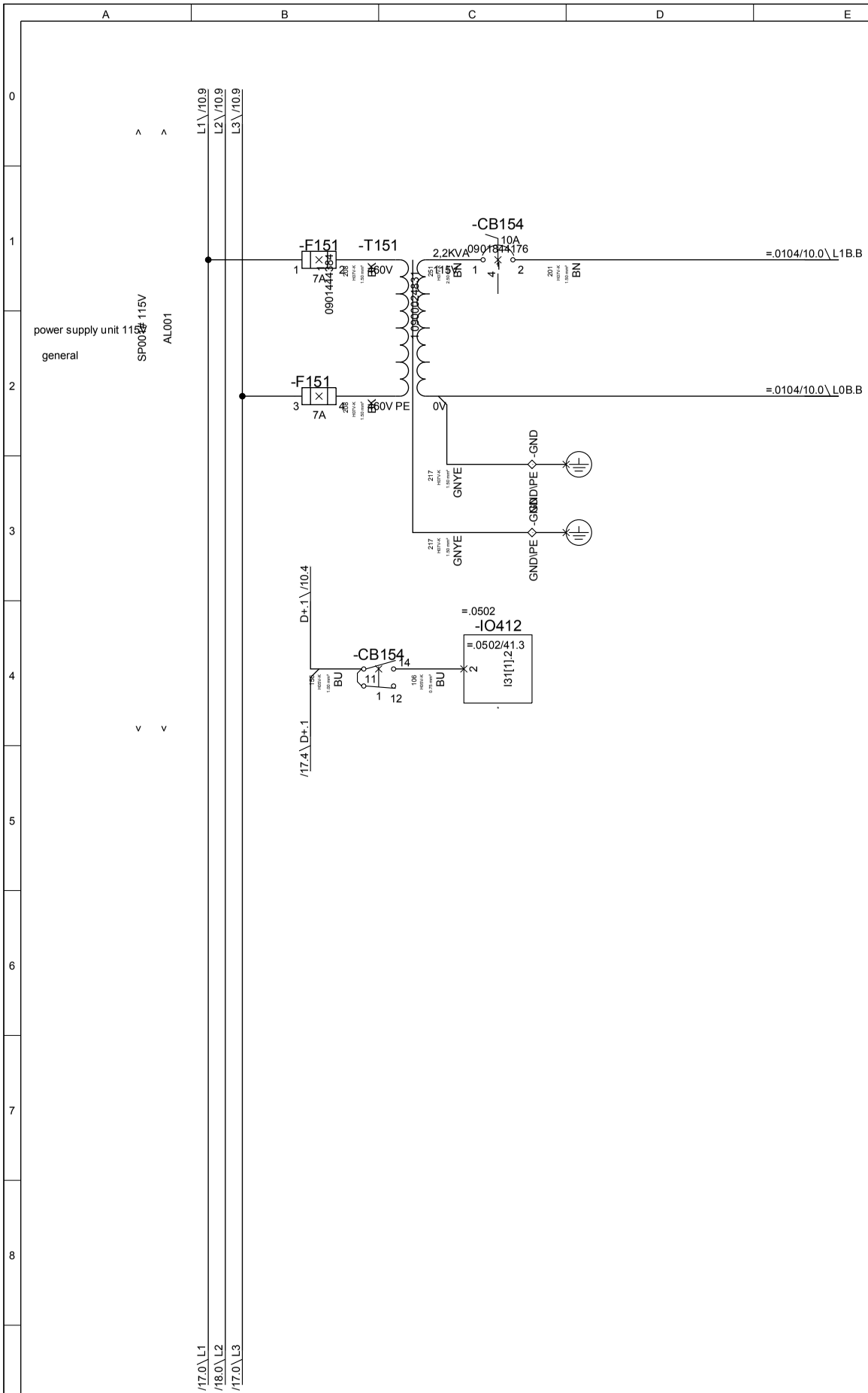
date	18.04.2013	machine type filler	KRONES	technical data	equi. K123989		=FU1.0101
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	DA	sheet 02 37/348
		version/ 02		SFT_FUG0_201301 01/01021			



EI031&AN135
power supply adaptation

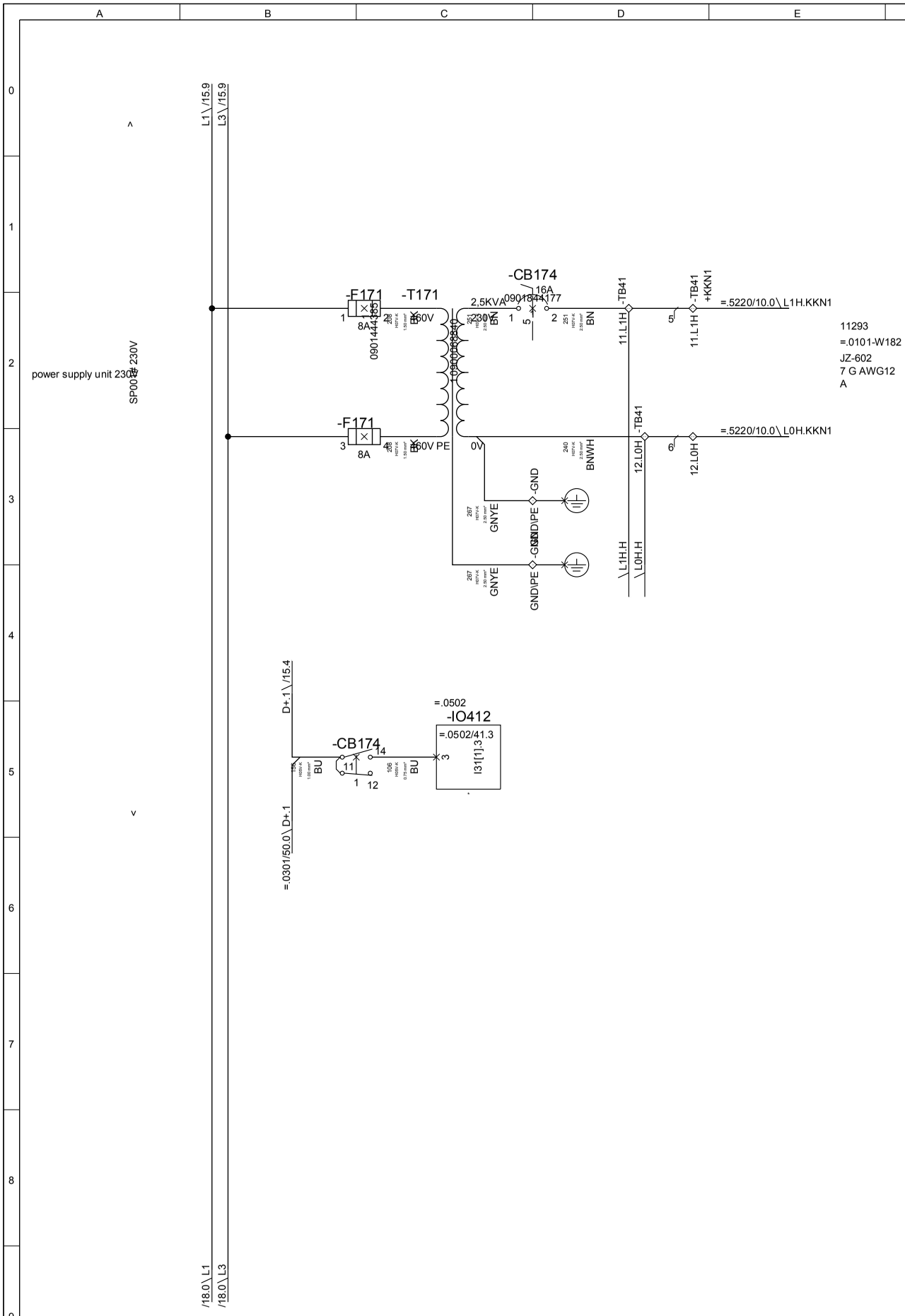
date	26.04.2013	machine type	filler	power supply	equi. K123989	+SK1	=FU1.0101
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 10
				Lagunitas Brewing Company			38/348
		version/	02	SFT_FUG0_201301 01/01021			

KRONES



EI031&AN135
power supply adaptation

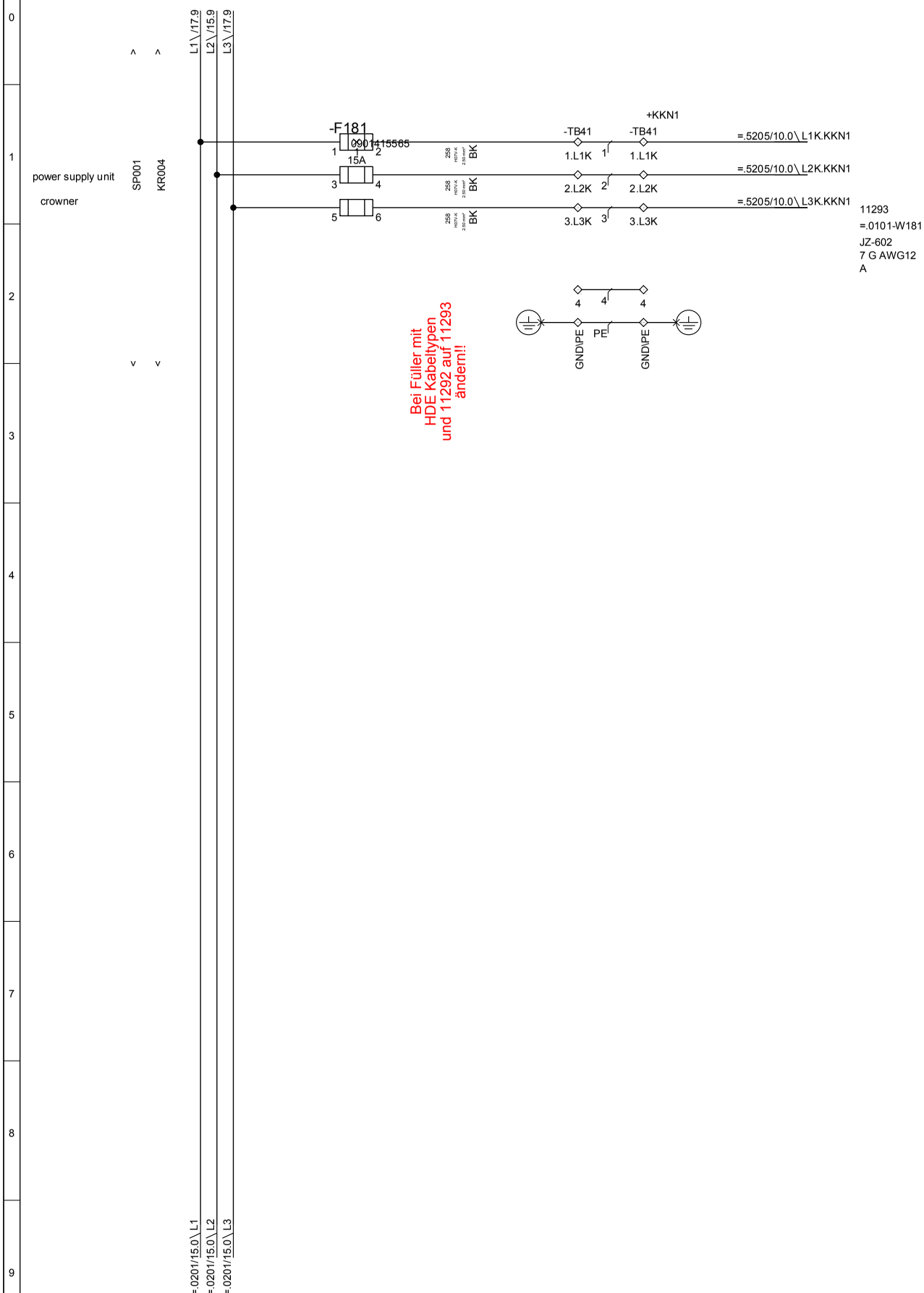
date	26.04.2013	machine type filler	KRONES	general 115V	equi. K123989	+SK1	=FU1.0101
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 15 39/348
		version/ 02		SFT_FUG0_201301 01/01021			



EI031&AN135
power supply adaptation

date	24.05.2013	machine type	filler	high-press.inject.syst. 230V	equi. K123989	+SK1	=FU1.0101
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 17 40/348
				Lagunitas Brewing Company			
		version/	02	SFT_FUG0_201301 01/01021			

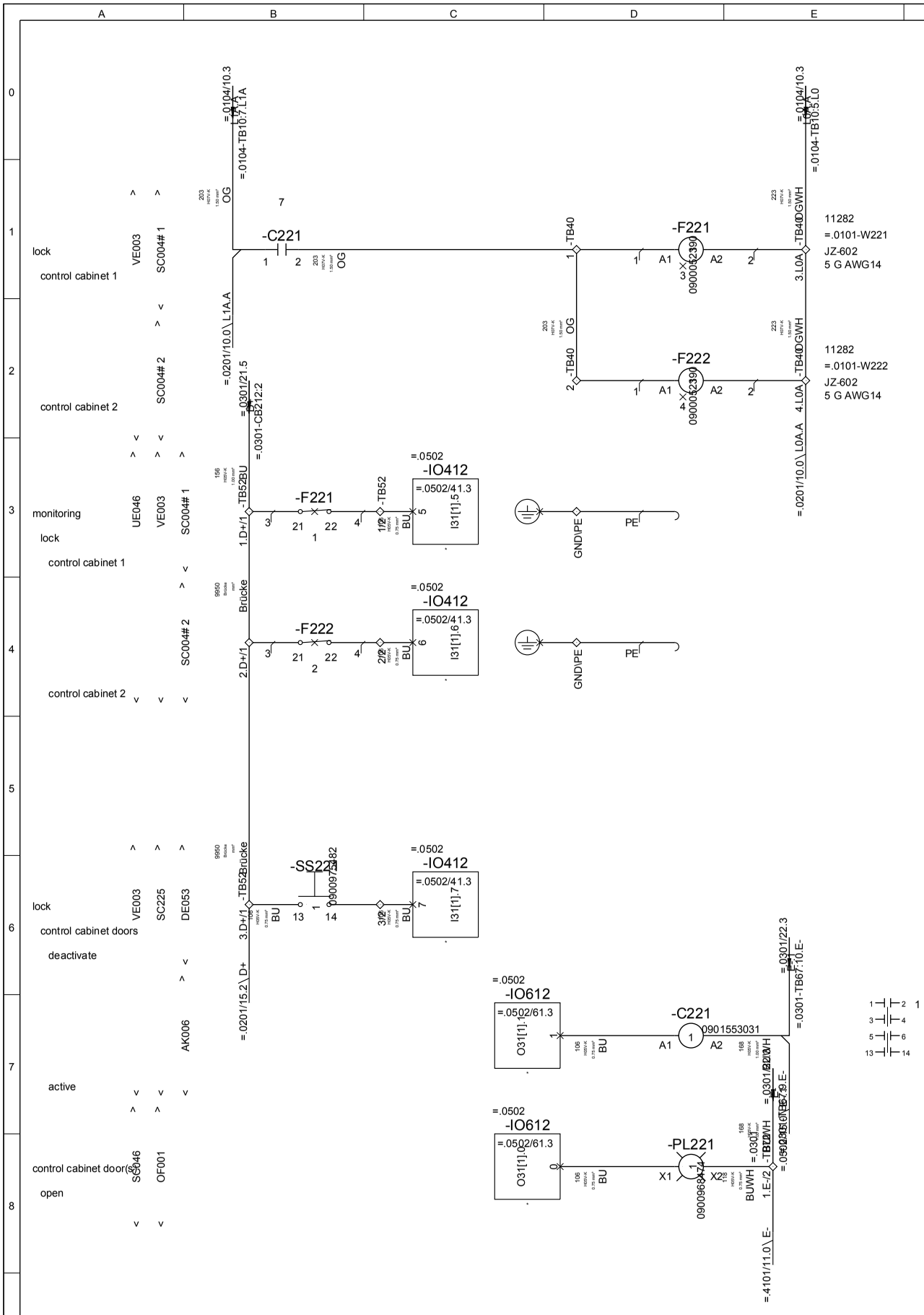
KRONES



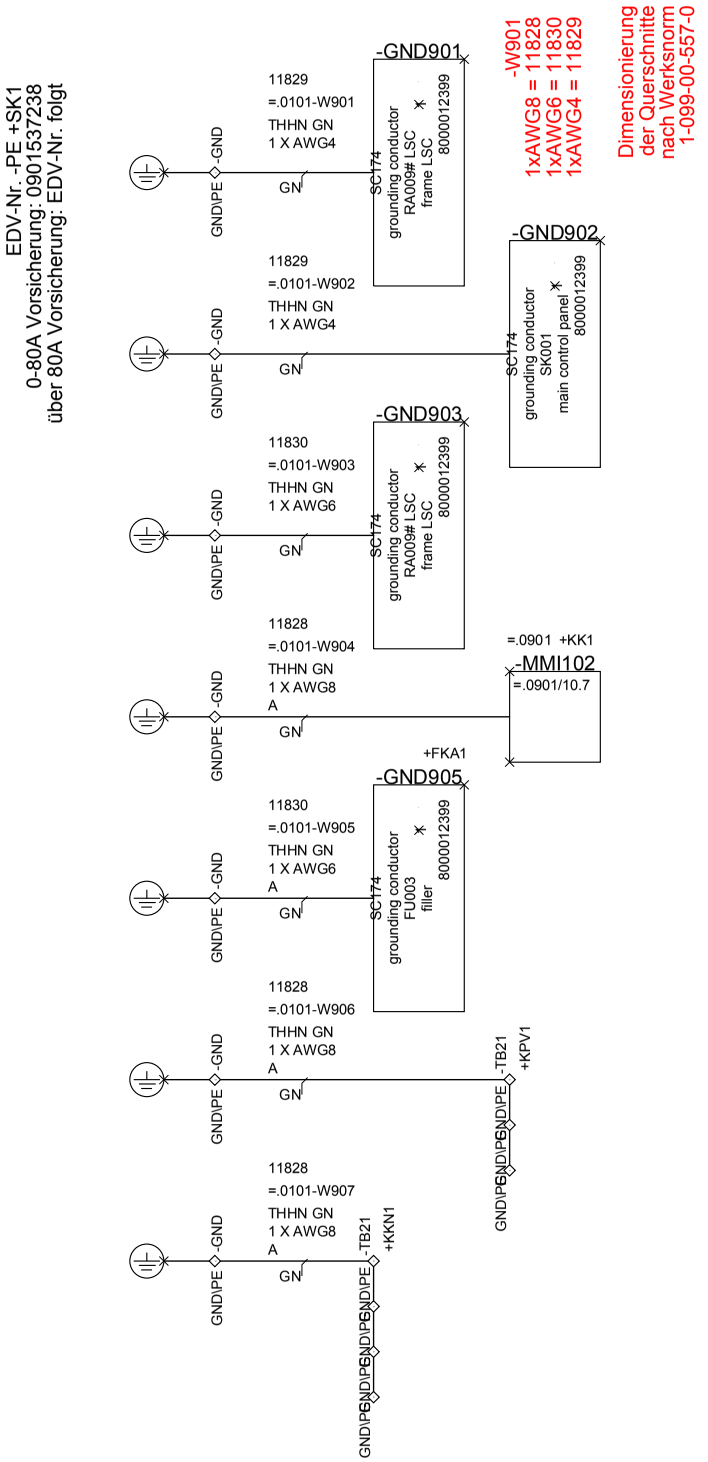
EI031&AN135
power supply adaptation

date	26.04.2013	machine type	filler	closer	equi. K123989	+SK1	=FU1.0101
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 18 / 41/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 01/01021			

KRONES



date	26.04.2013	machine type	filler	lock	equi. K123989	+SK1	=FU1.0101
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 22 42/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 01/01021			



EI031&AN135
power supply adaptation

date	07.05.2013	machine type filler	KRONES	safety conductor system	equi. K123989	+SK1	=FU1.0101
eng.	Krupka						
CAD	Stanek	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 90 43/348
		version/ 02		SFT_FUG0_201301 01/01021			

TE003 technical data

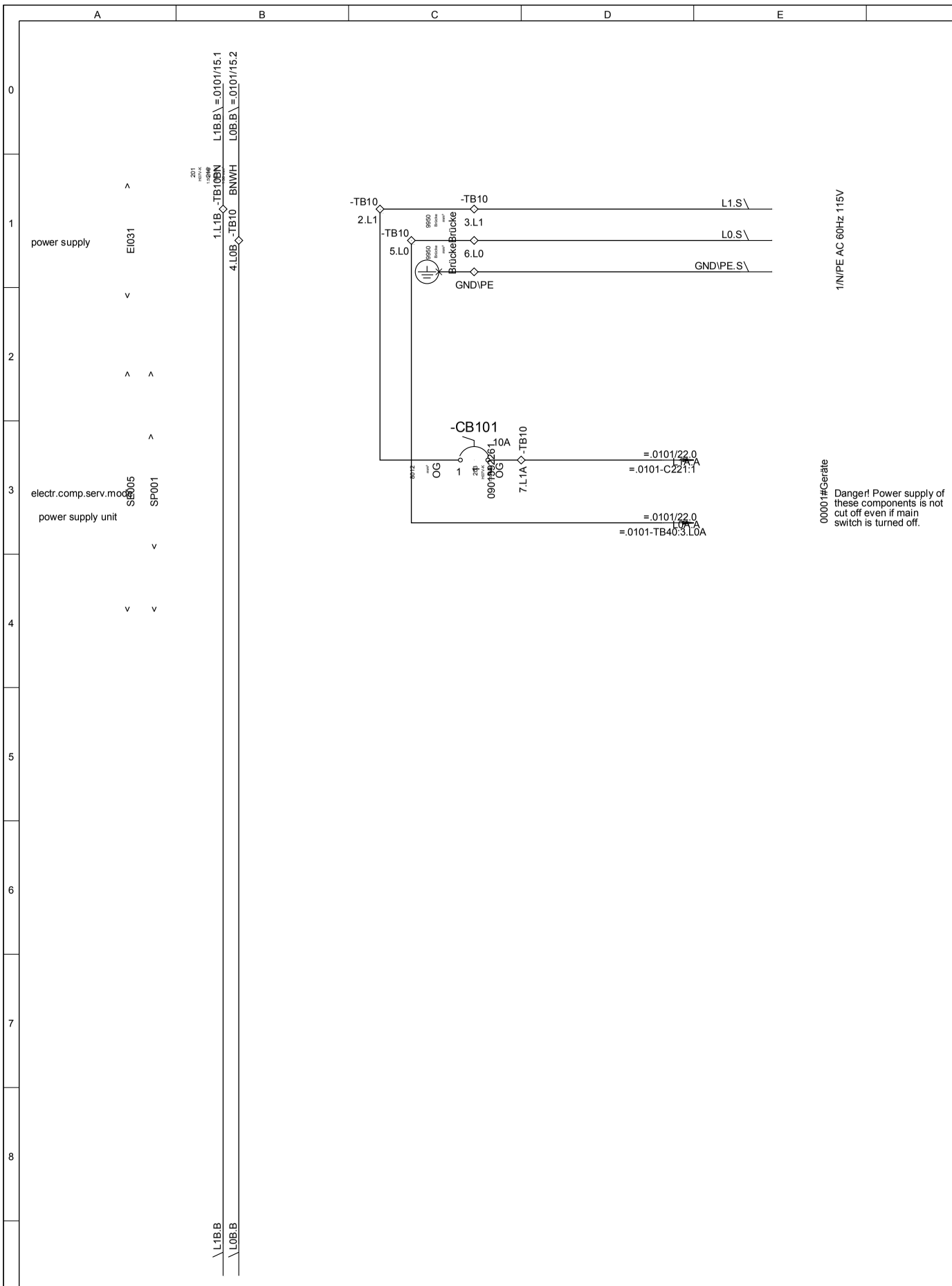
AR021	Type of supply		NE025	rated connected load	1	kVA
VE191	application		NE025	rated connected load	1	kW
NE066	Rated voltage	115 V	LE100# cos phi	power factor cos phi	1	
ST341	Type of current and system	1PH/N/GND	IN109	Internal feeder fuse	10	A
NE065	System frequency	60 Hz	NE032	rated control voltage	24	V DC
VO155# Ib max	Full-load current Ib max	10 A				
NE064	Supply disconnecting device	Icu 10 kA				
MA150# SCCR	Maximum short-circuit current SCCR	10 kA				

NAD+USV

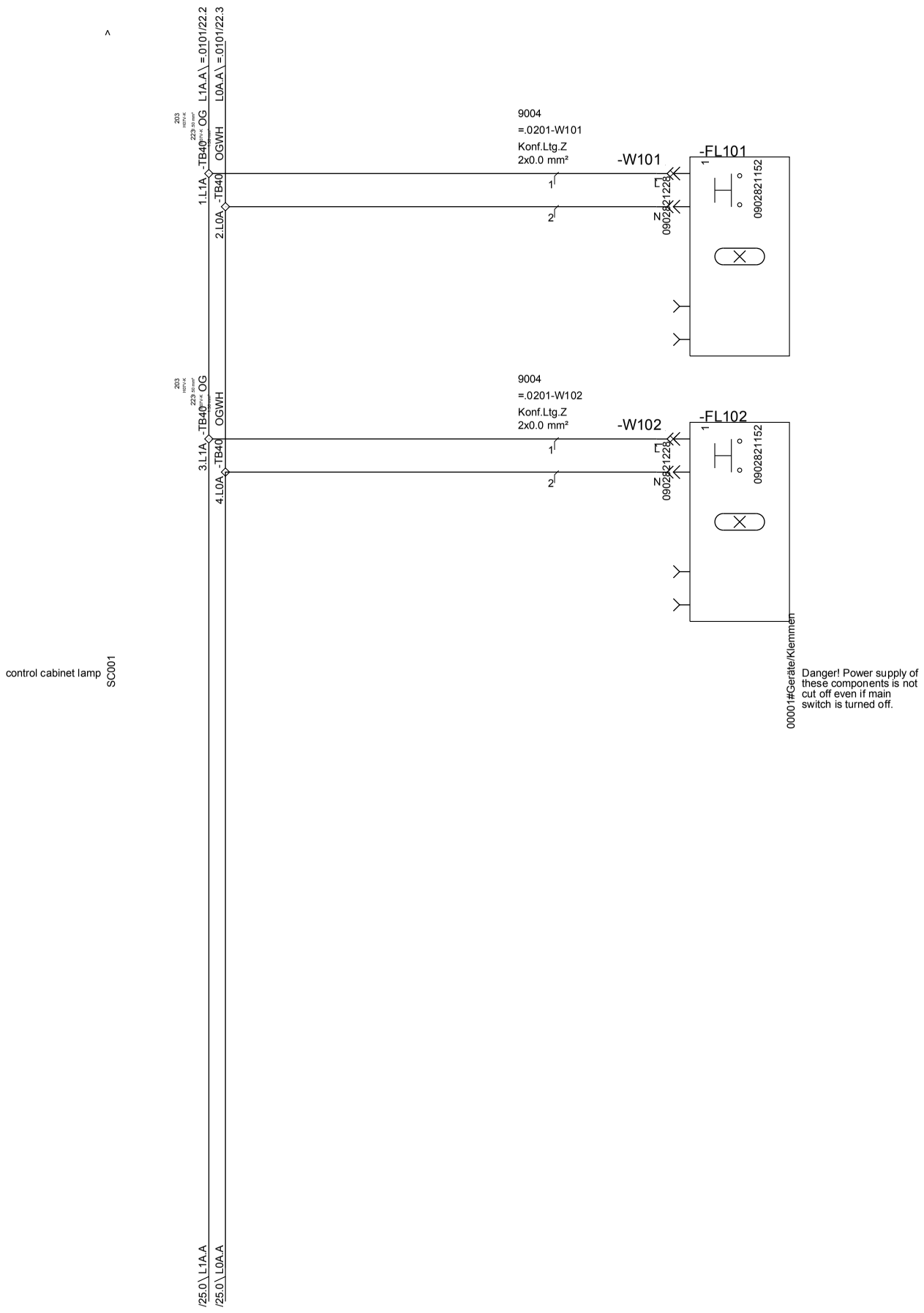
Herst./Spanng.	Typ	Icw (kA/1s)	Icu (kA)
Möl.LTS - 690V	P3-63	1,26	
AB SLT - 600V	194-R		100
AB SLT - 600V	1494-V		200
Möl.LS - 480V	NZMN3*NA		42
Möl.LS - 600V	NZMN3*NA		35
Möl.LS - 480V	NZMN4*NA		42
Möl.LS - 600V	NZMN4*NA		35
USV LTS - 600V	32A	0,43	
USV LTS - 600V	63A	0,58	

EI031&AN135
power supply adaptation

date	18.04.2013	machine type filler	KRONES	technical data	equi. K123989		=FU1.0104
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	DA	sheet 02 44/348
		version/ 02		SFT_FUG0_201301 01/01091			

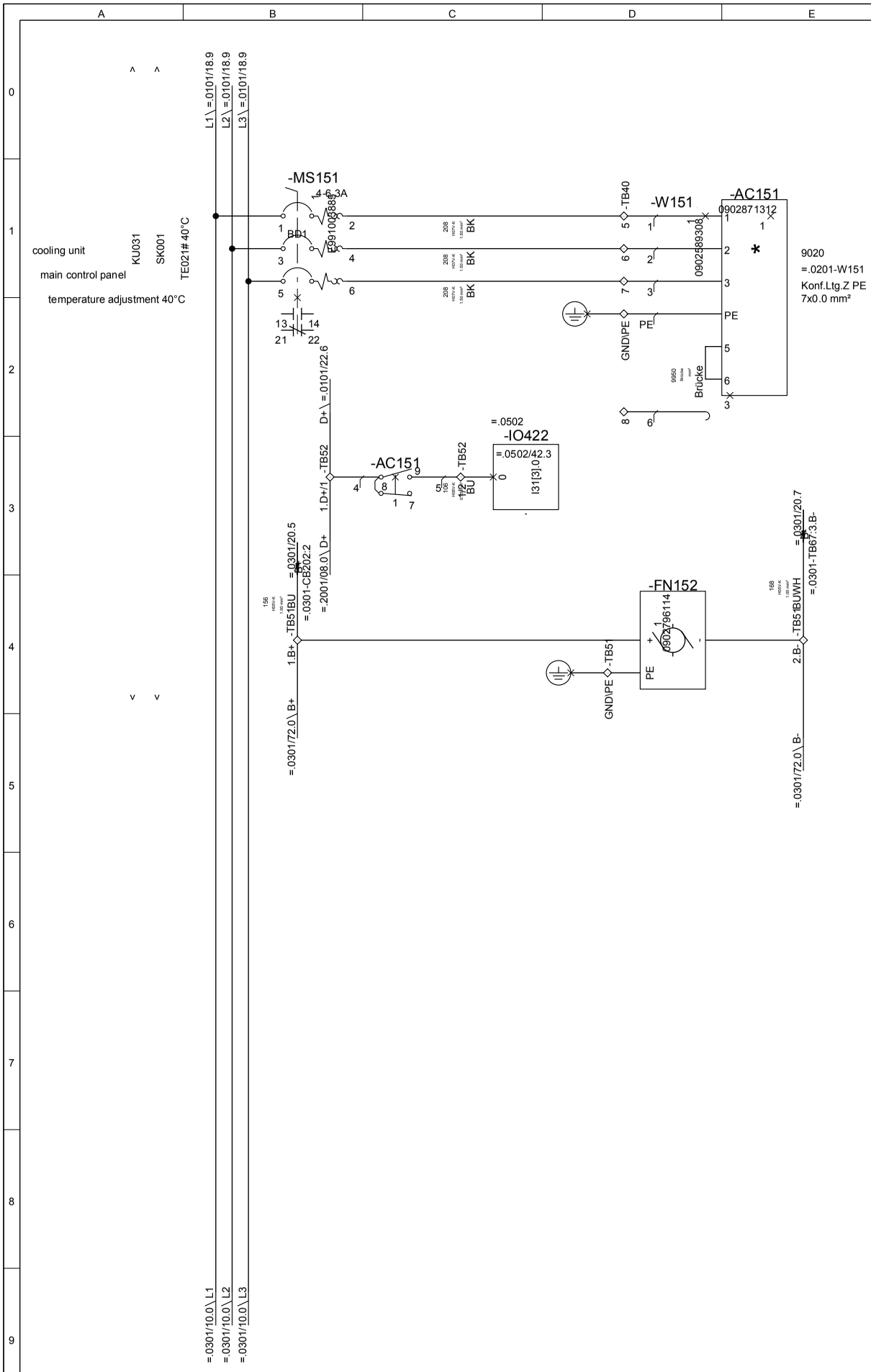


date	26.04.2013	machine type filler	KRONES	separate feeder 115V	equi. K123989	+SK1	=FU1.0104
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 10 45/348
		version/ 02		SFT_FUG0_201301 01/01091			



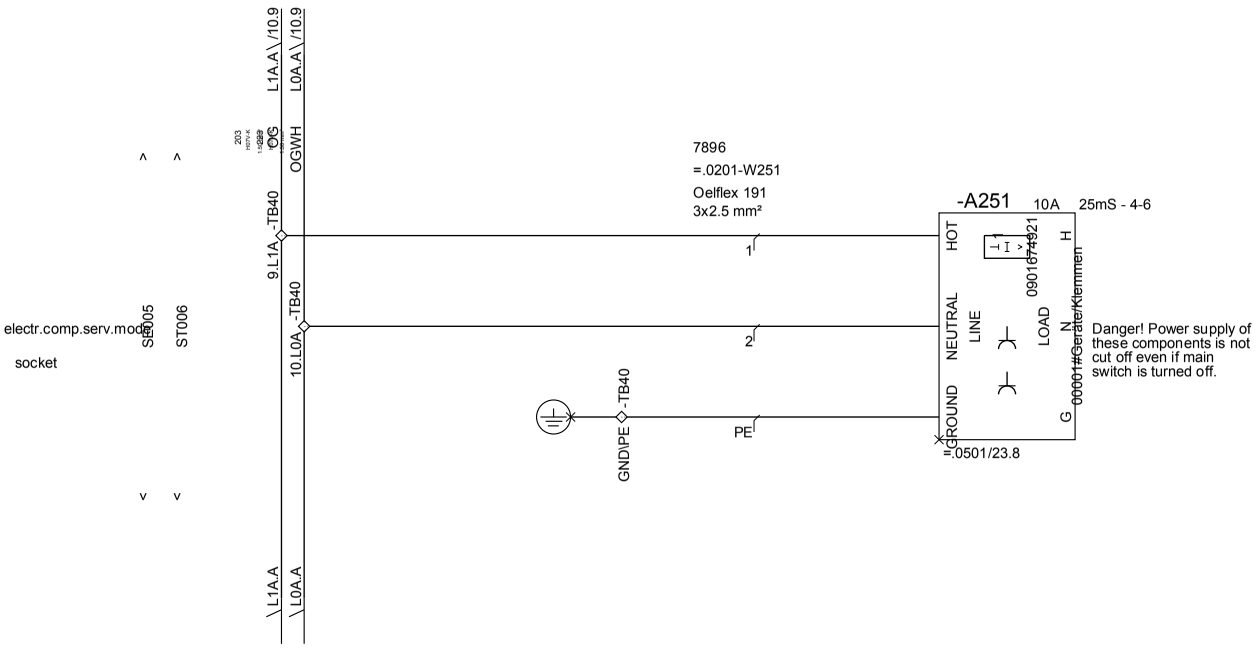
BE021&ST006&KL028
lighting system socket climate

date	18.04.2013	machine type filler	KRONES	lighting system	equi. K123989	+SK1	=FU1.0201
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 10 46/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 02/01021			



BE021&ST006&KL028
lighting system socket climate

date	29.04.2013	machine type	filler	cooling unit	equi. K123989	+SK1	=FU1.0201
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 15 47/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 02/01021			



BE021&ST006&KL028
lighting system socket climate

date	18.04.2013	machine type filler	KRONES	socket	equi. K123989	+SK1	=FU1.0201
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 25 48/348
		version/ 02		SFT_FUG0_201301 02/01021			

Schleifringübertrager
EDV- Nr.:
0901345965 = 35A
0902666055 = 38,4A

SC011
slip-ring transmitter

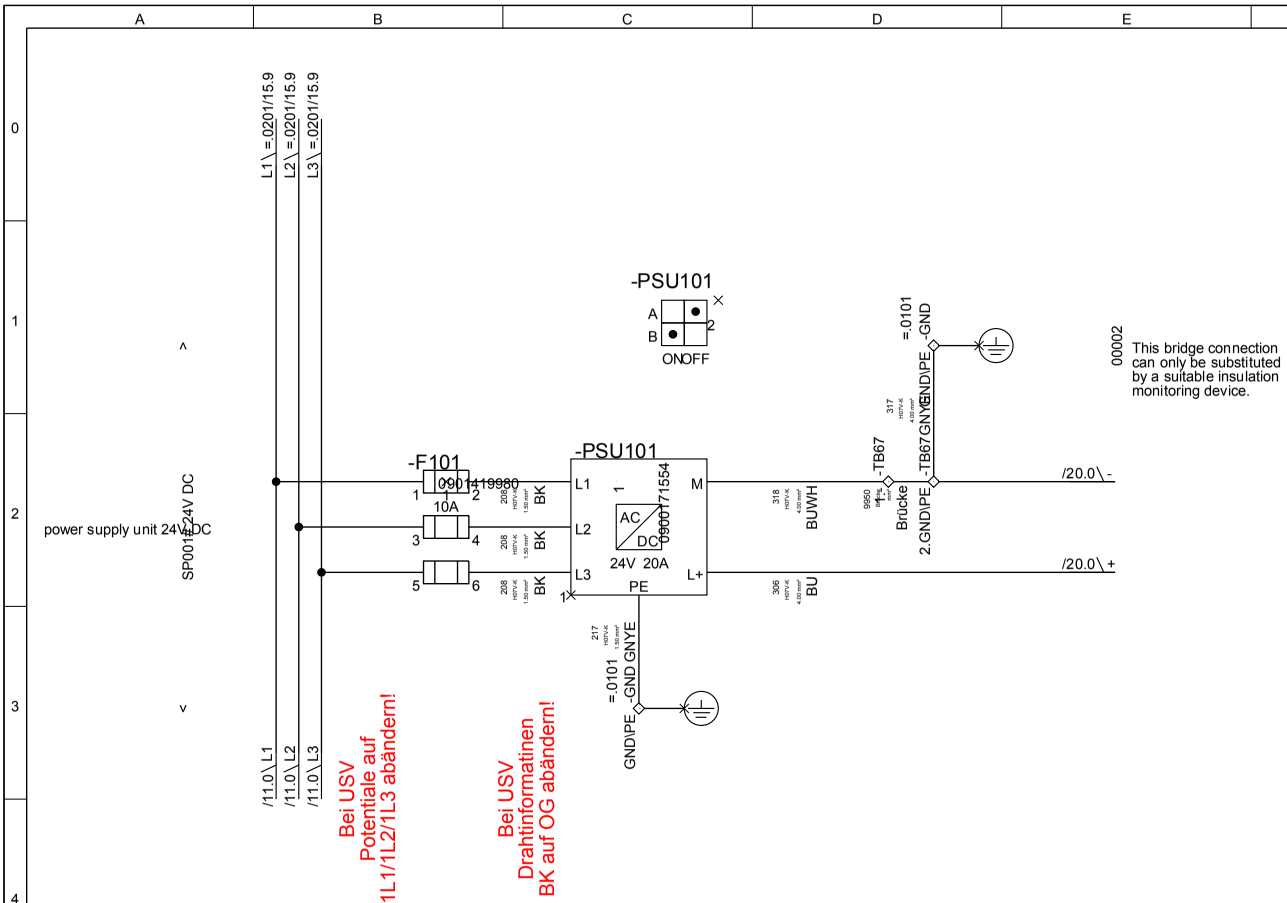
-W701

SP001# 24V power supply unit 24V	max 35A	+	1	=.0301-W701a
		-	2	Konf.Ltg.Z PE
SOND#		PE	GNYE	3x0.0 mm²
SP001# 48V power supply unit 48V	max 35A	+	1	=.0301-W701b
		-	2	Konf.Ltg.Z PE
SOND#		PE	GNYE	3x0.0 mm²
SP001# 400V power supply unit 400V		U	1	
		V	2	=.0301-W701c
SOND#	max 8A	W	3	Konf.Ltg.Z PE SH
		PE	GNYE	5x0.0 mm²
SOND#		N	4	
SOND#			SH	
		RJ45.6	BU	
KO034 communication		RJ45.3	WH	=.0301-W701d
			SH	Konf.Ltg.F16 SH
SOND#		RJ45.2	OG	4x0.0 mm²
		RJ45.1	YE	
SOND#			SH	
		RJ45.6	BU	
KO034 communication		RJ45.3	WH	=.0301-W701e
			SH	Konf.Ltg.F16 SH
SOND#		RJ45.2	OG	4x0.0 mm²
		RJ45.1	YE	
SOND#			SH	
RE001 reserve		23	WH	=.0301-W701f
		24	BN	Konf.Ltg.F12 SH
SOND#		25	SH	2x0.0 mm²
AS003 ASi-bus		26	BN	=.0301-W701g
		27	BU	Konf.Ltg.F3
SOND#				2x0.0 mm²

Schleifringübertrager
EDV- Nr.:
0901345965 = 2m Kabellänge
0902666055 = 10m Kabellänge

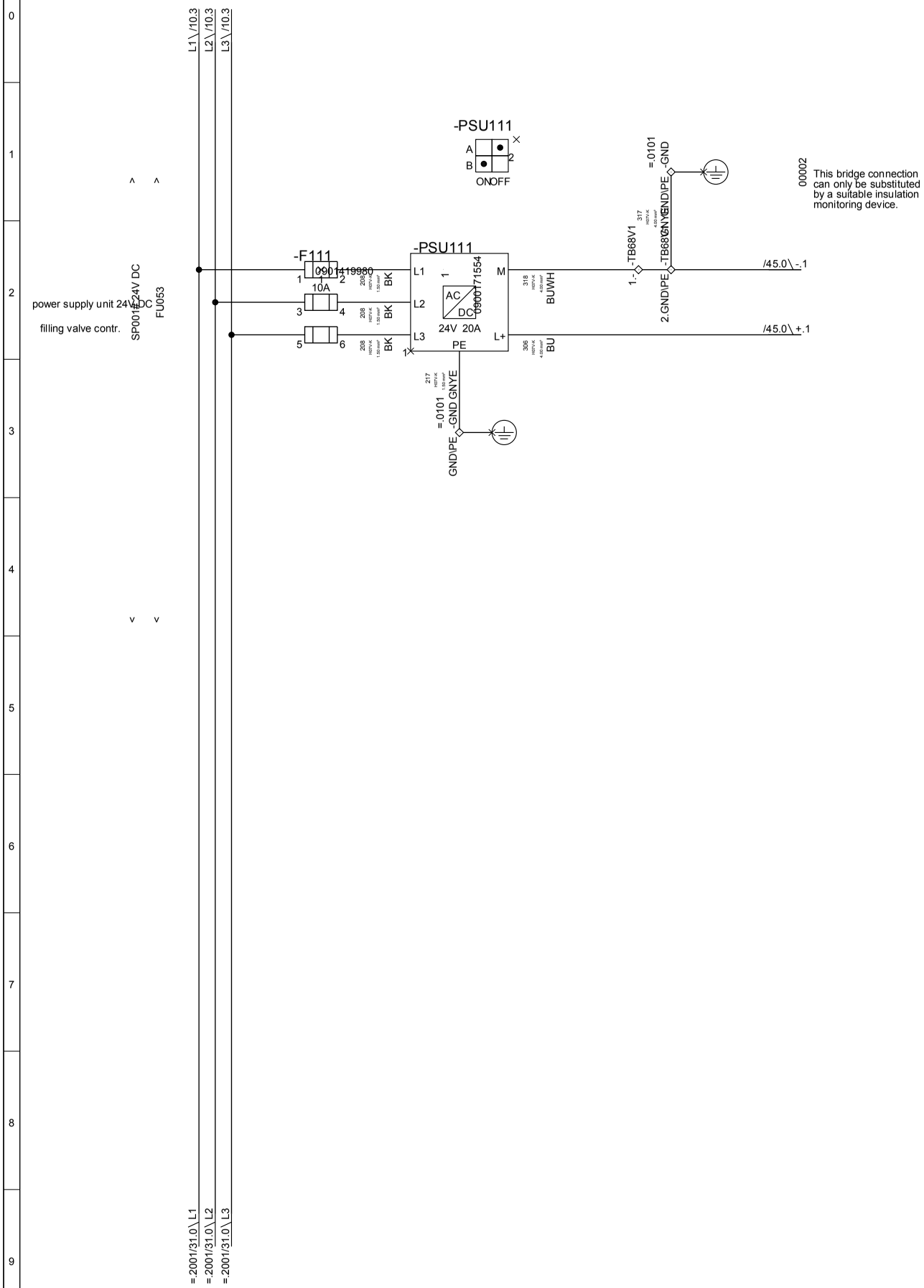
ST014# 24V DC
control voltage 24V DC

date	18.04.2013	machine type filler	KRONES	slip-ring transmitter	equi. K123989	+FKA1	=FU1.0301
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	LEG	sheet 10 49/348
		version/ 02		SFT_FUG0_201301 03/01023			



ST014# 24V DC
control voltage 24V DC

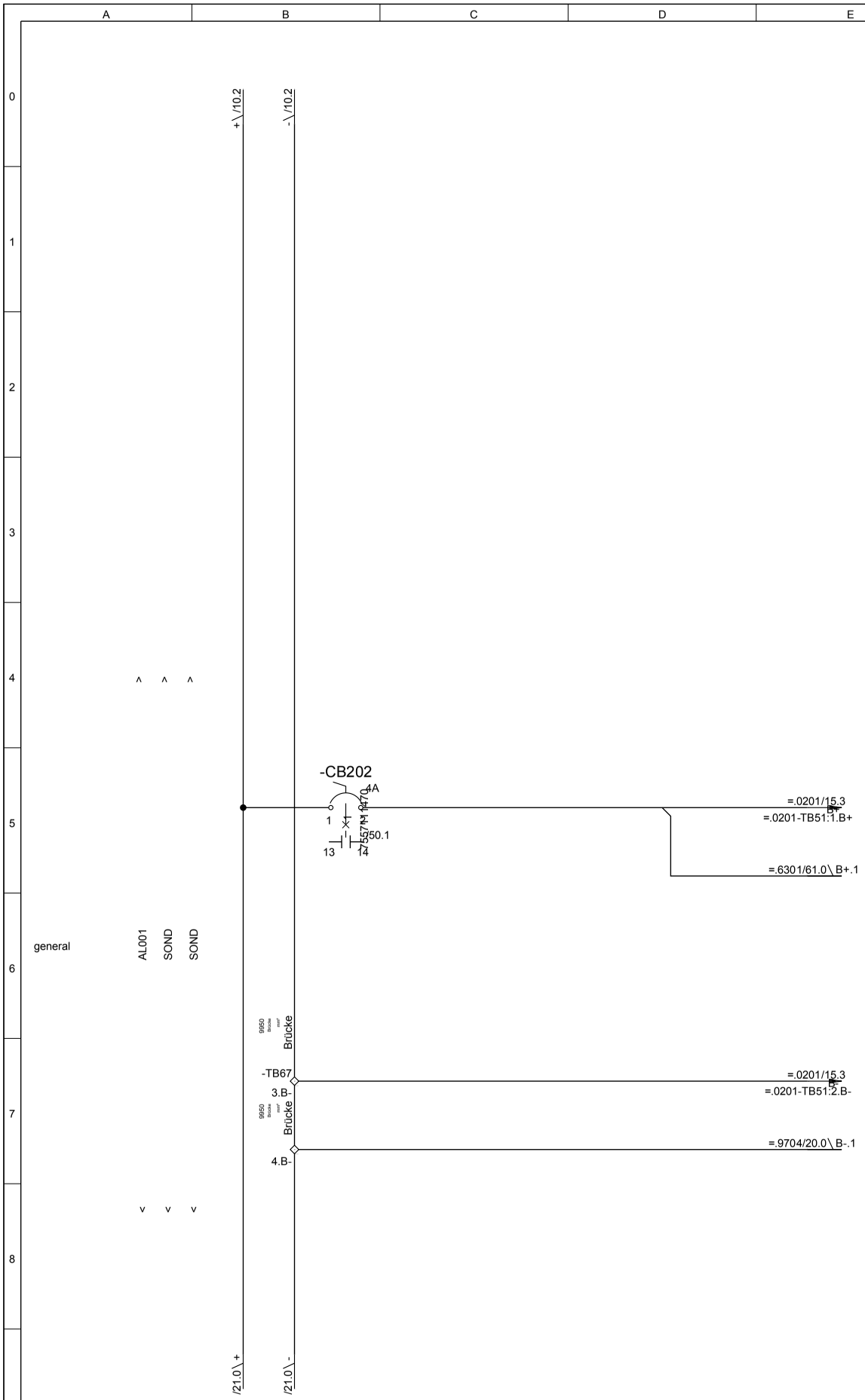
date	26.04.2013	machine type filler	KRONES	power supply unit 24V DC	equi. K123989	+SK1	=FU1.0301
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 10 50/348
		version/ 02		SFT_FUG0_201301 03/01023			



ST014# 24V DC
control voltage 24V DC

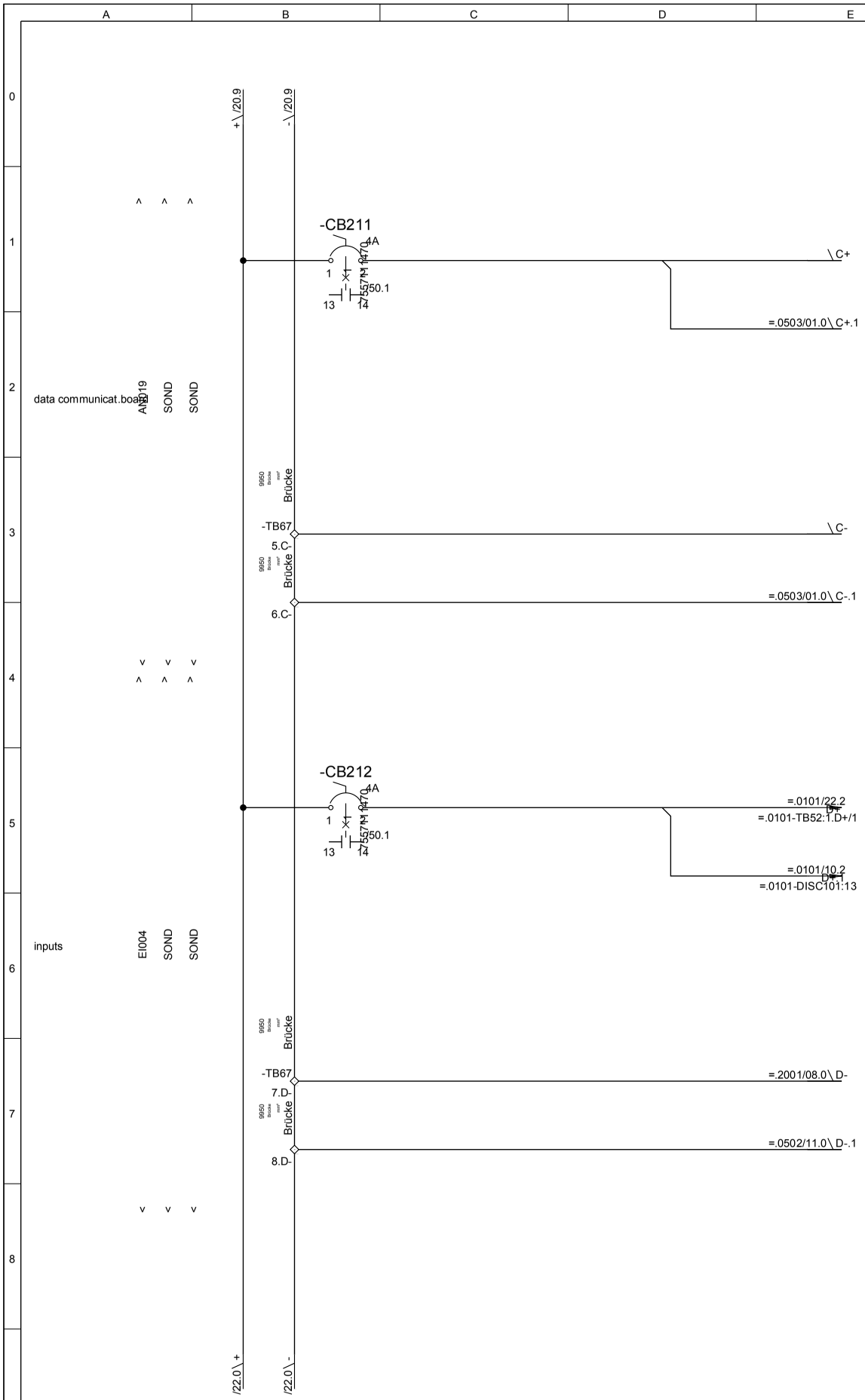
date	18.04.2013	machine type	filler	power supply unit 24V DC	equi. K123989	+SK1	=FU1.0301
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 11 51/348
				Lagunitas Brewing Company			
		version/	02	SFT_FUG0_201301 03/01023			

KRONES



ST014# 24V DC
control voltage 24V DC

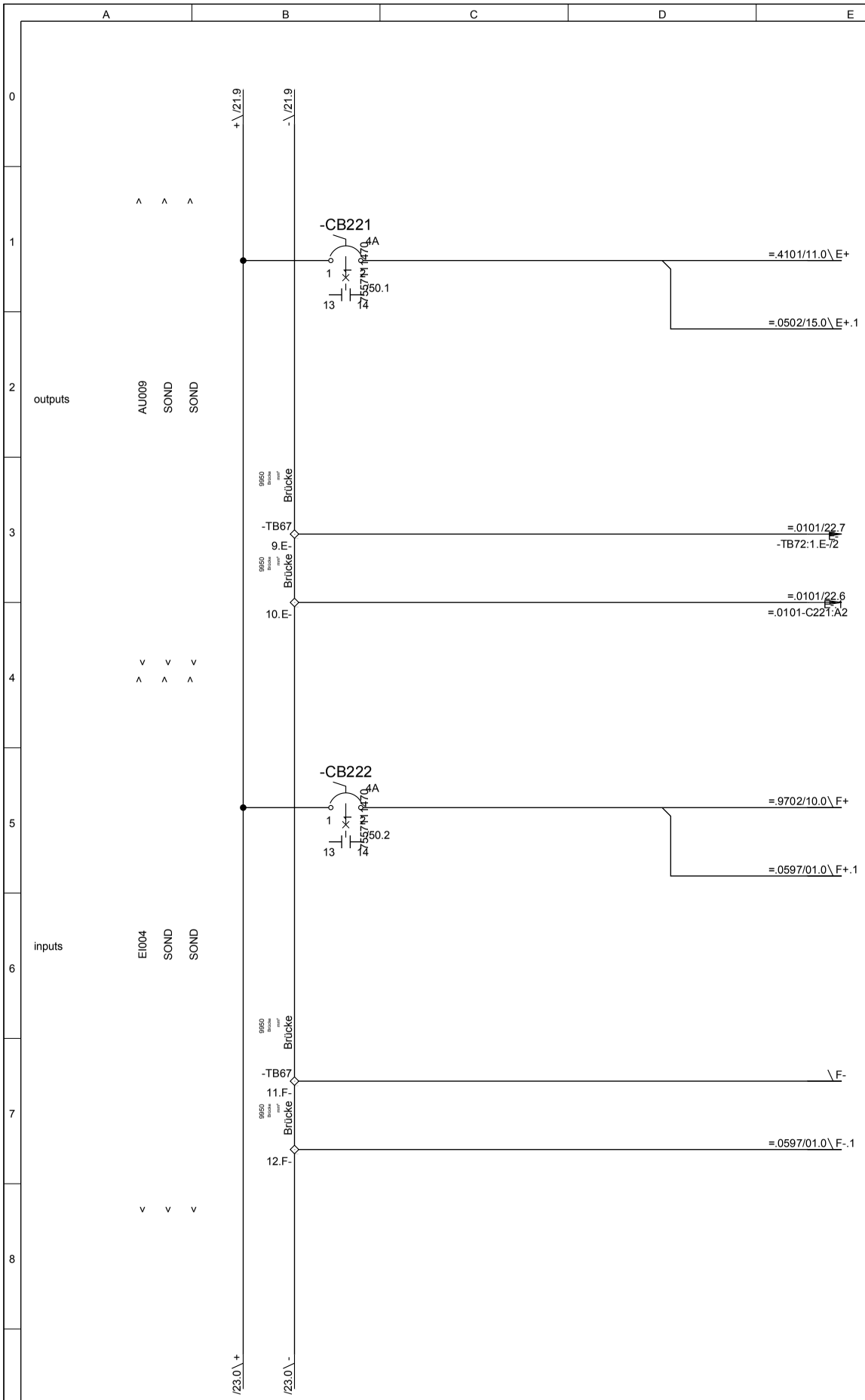
date	26.04.2013	machine type filler		control voltage MUX	equi. K123989	+SK1	=FU1.0301
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS	KRONES	client	K123989-001	STR	sheet 20 52/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 03/01023			



ST014# 24V DC
control voltage 24V DC

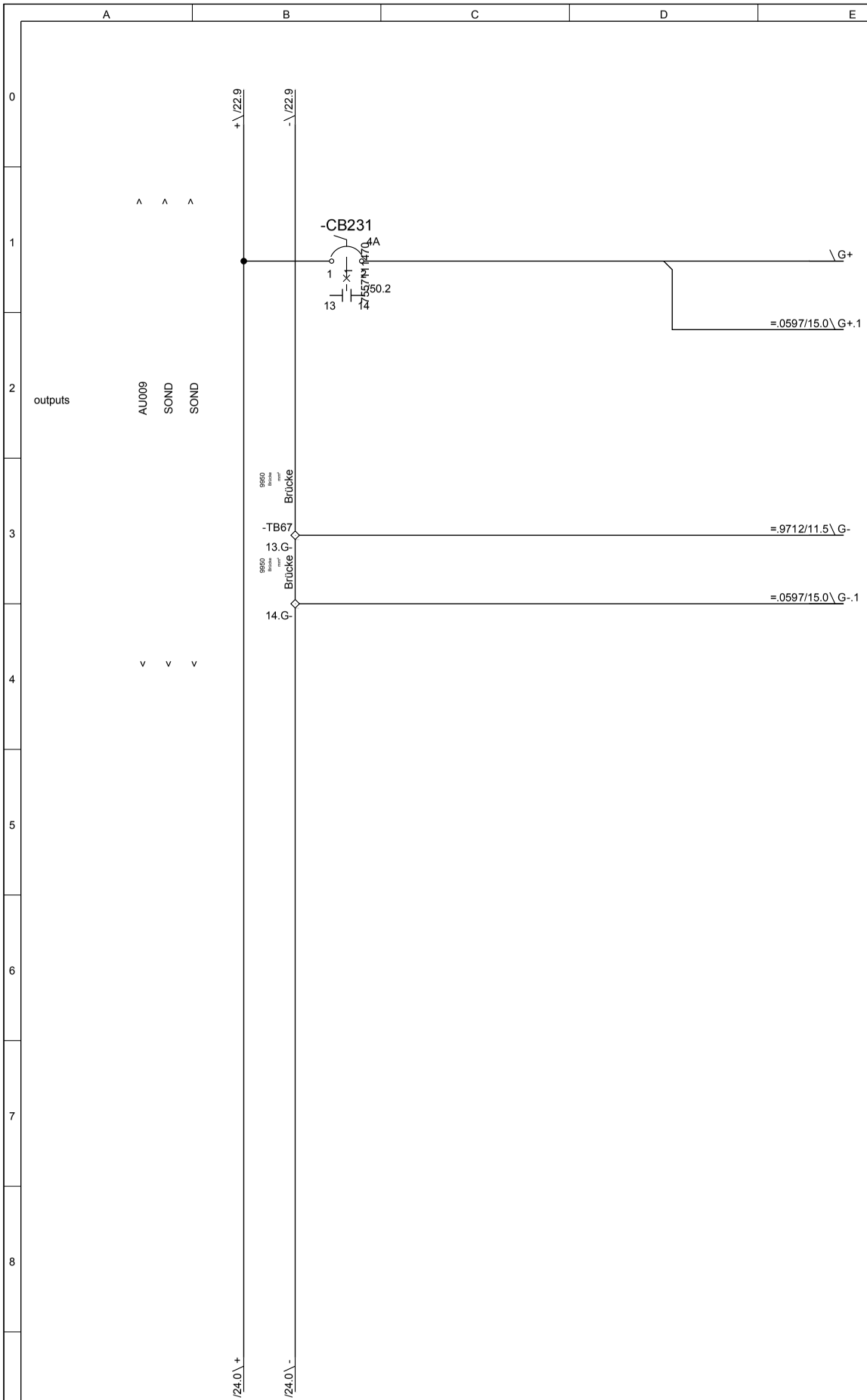
date	26.04.2013	machine type	filler	control voltage MUX	equi. K123989	+SK1	=FU1.0301
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 21 53/348
				Lagunitas Brewing Company			
		version/	02	SFT_FUG0_201301 03/01023			

KRONES



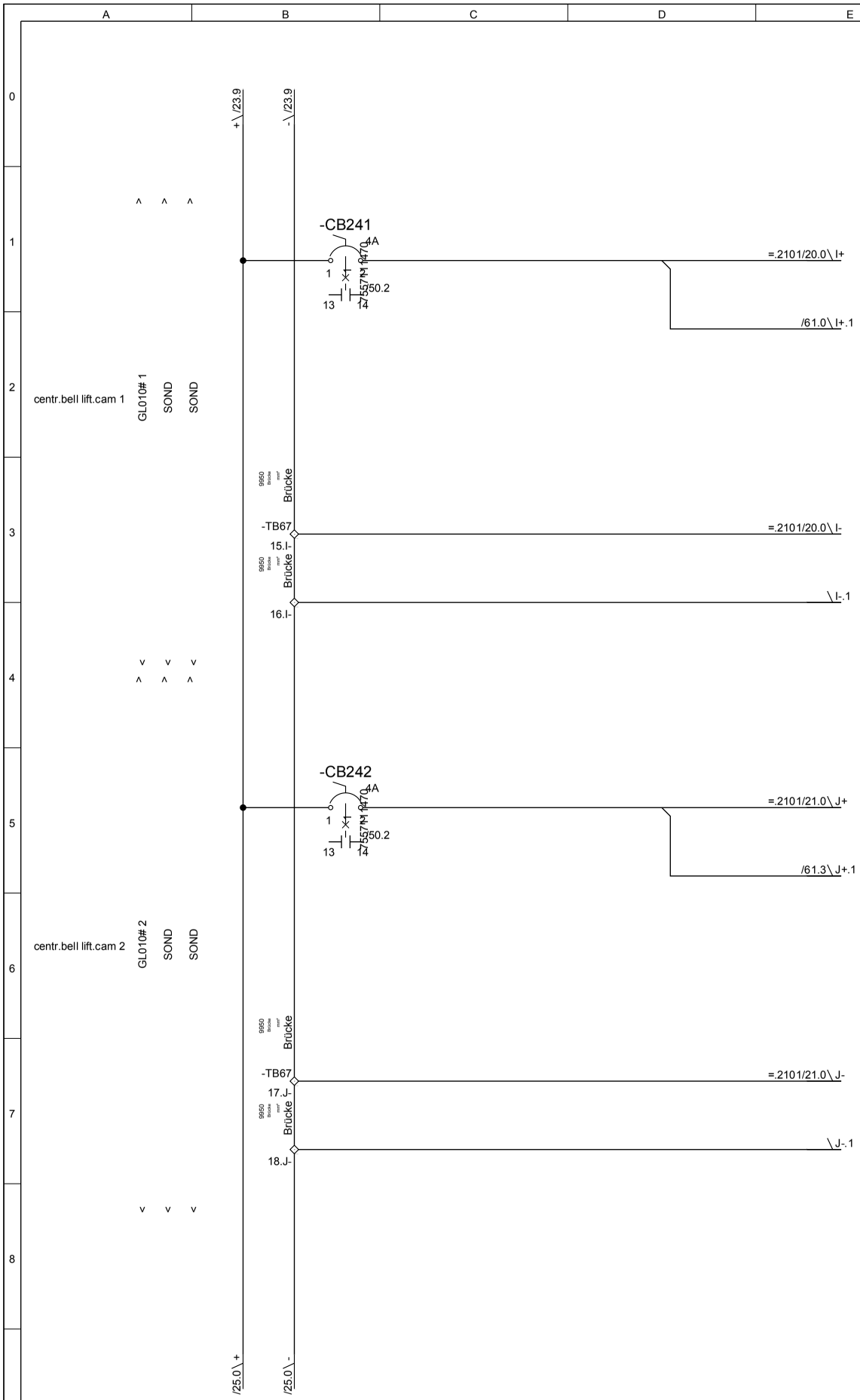
ST014# 24V DC
control voltage 24V DC

date	26.04.2013	machine type filler	KRONES	control voltage MUX	equi. K123989	+SK1	=FU1.0301
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 22 54/348
		version/ 02		SFT_FUG0_201301 03/01023			



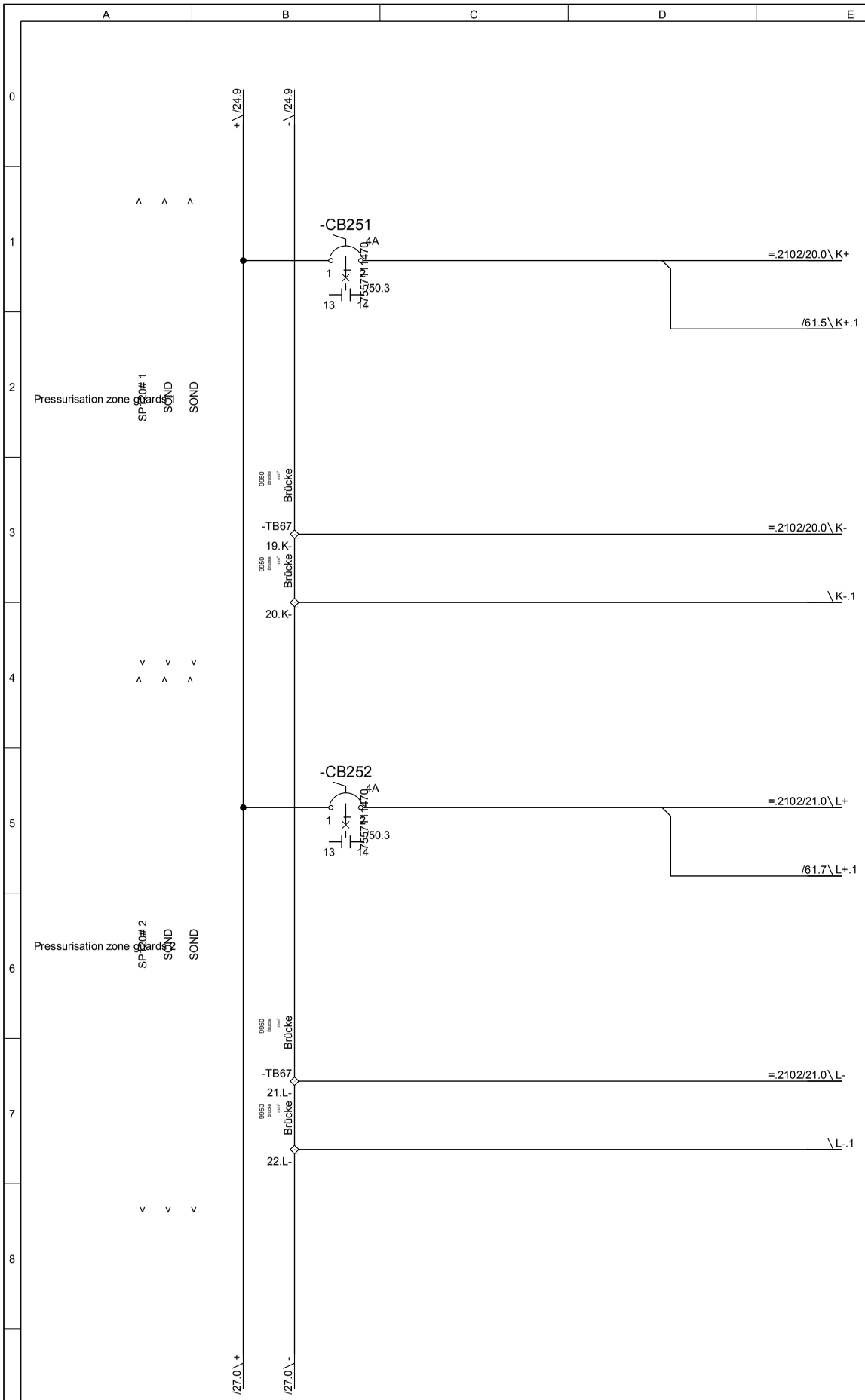
ST014# 24V DC
control voltage 24V DC

date	26.04.2013	machine type filler	KRONES	control voltage MUX	equi. K123989	+SK1	=FU1.0301
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 23 55/348
		version/ 02		SFT_FUG0_201301 03/01023			



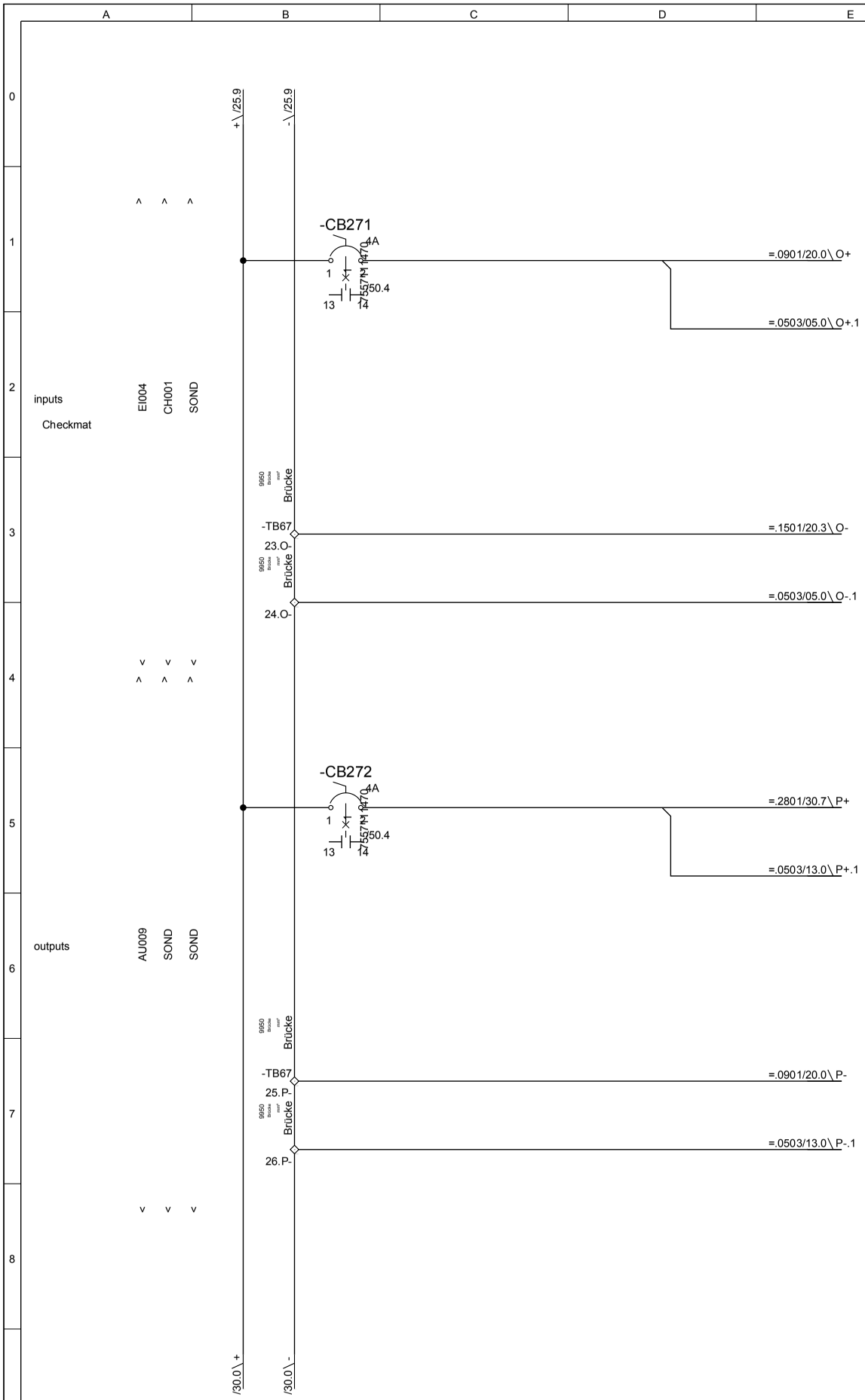
ST014# 24V DC
control voltage 24V DC

date	26.04.2013	machine type filler	KRONES	control voltage MUX	equi. K123989	+SK1	=FU1.0301
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 24 56/348
		version/ 02		SFT_FUG0_201301 03/01023			



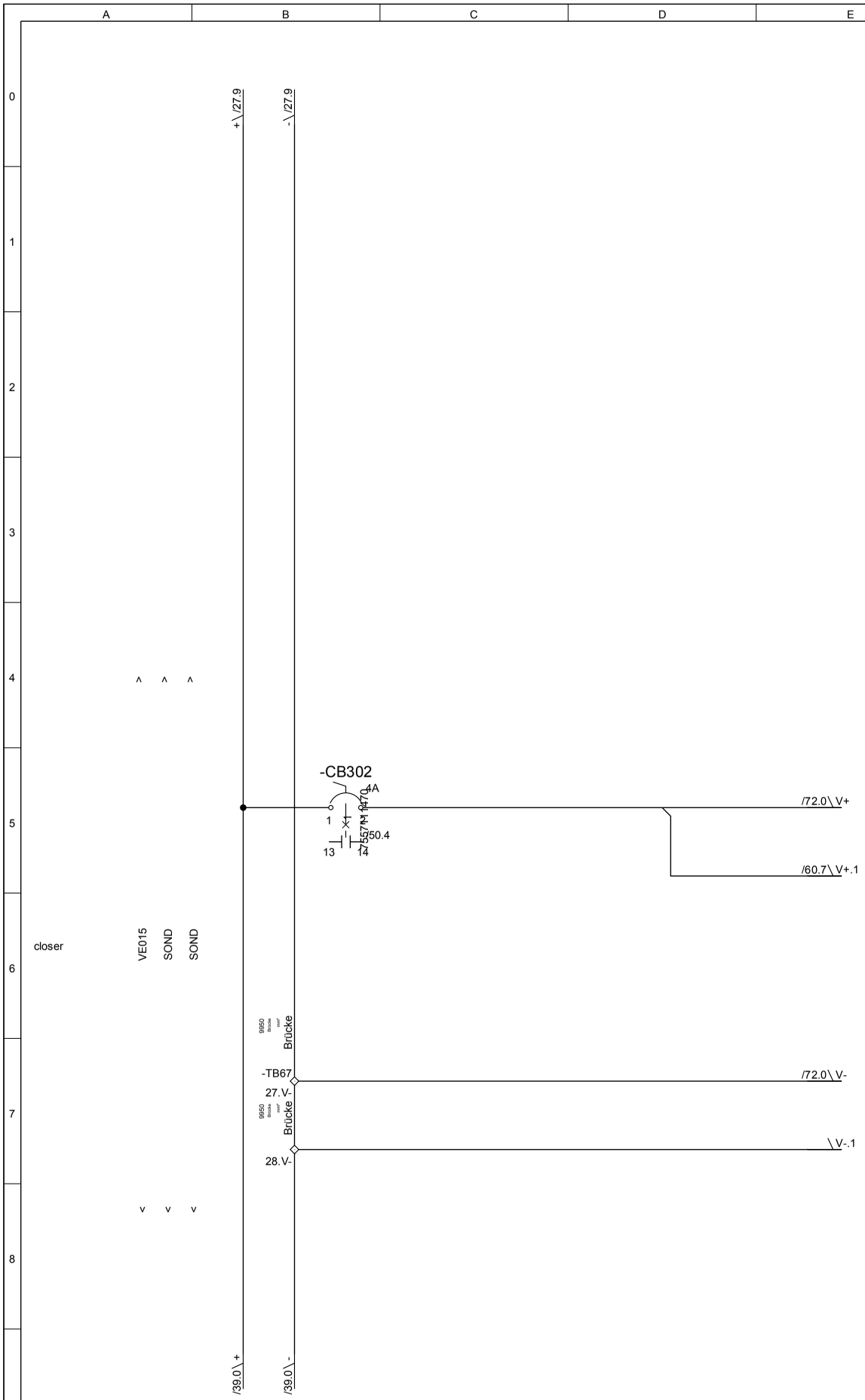
ST014# 24V DC
control voltage 24V DC

date	26.04.2013	machine type filler	KRONES	control voltage MUX	equi. K123989	+SK1	=FU1.0301
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 25 57/348
		version/ 02		SFT_FUG0_201301 03/01023			



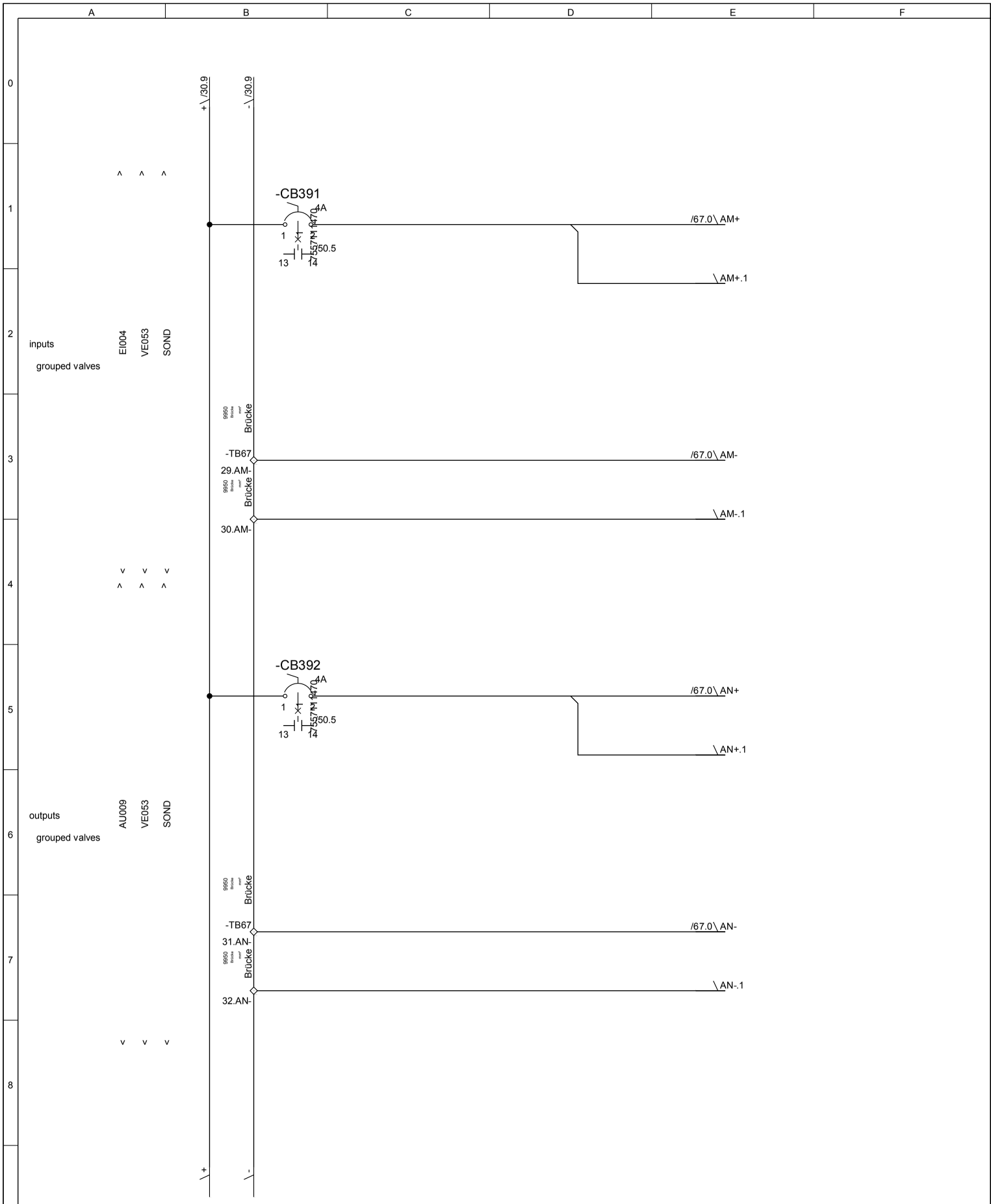
ST014# 24V DC
control voltage 24V DC

date	26.04.2013	machine type filler	KRONES	control voltage MUX	equi. K123989	+SK1	=FU1.0301
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 27 58/348
		version/ 02		SFT_FUG0_201301 03/01023			



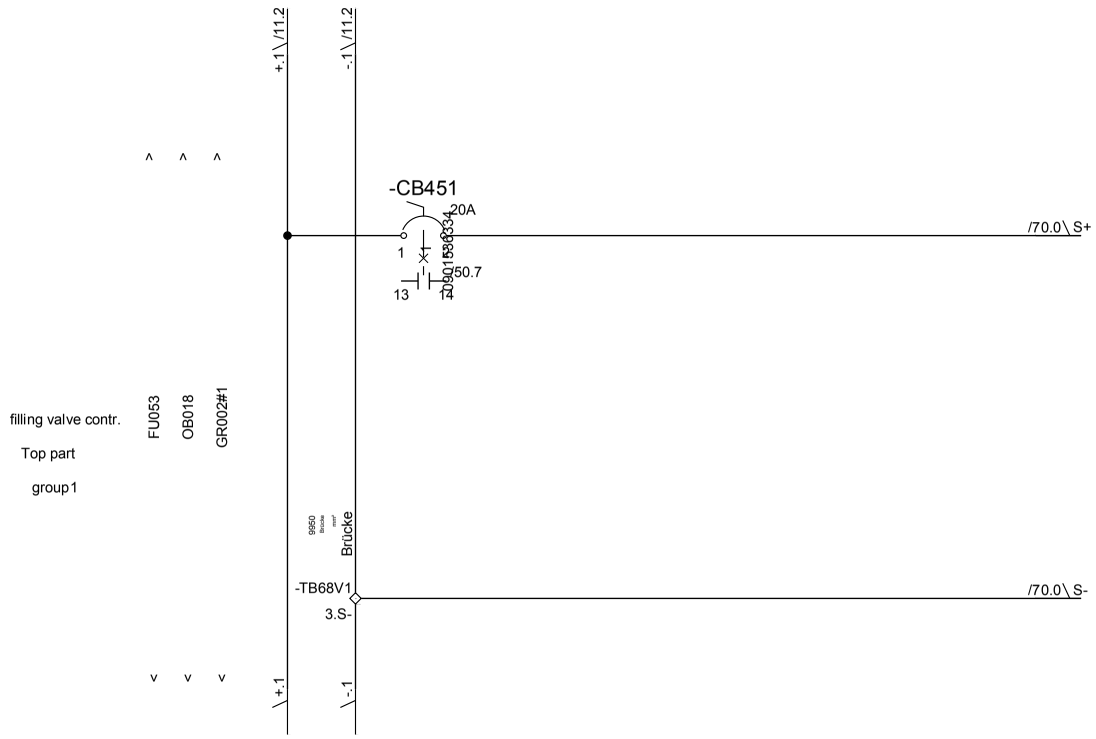
ST014# 24V DC
control voltage 24V DC

date	26.04.2013	machine type filler	KRONES	control voltage MUX	equi. K123989	+SK1	=FU1.0301
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 30 59/348
		version/ 02		SFT_FUG0_201301 03/01023			



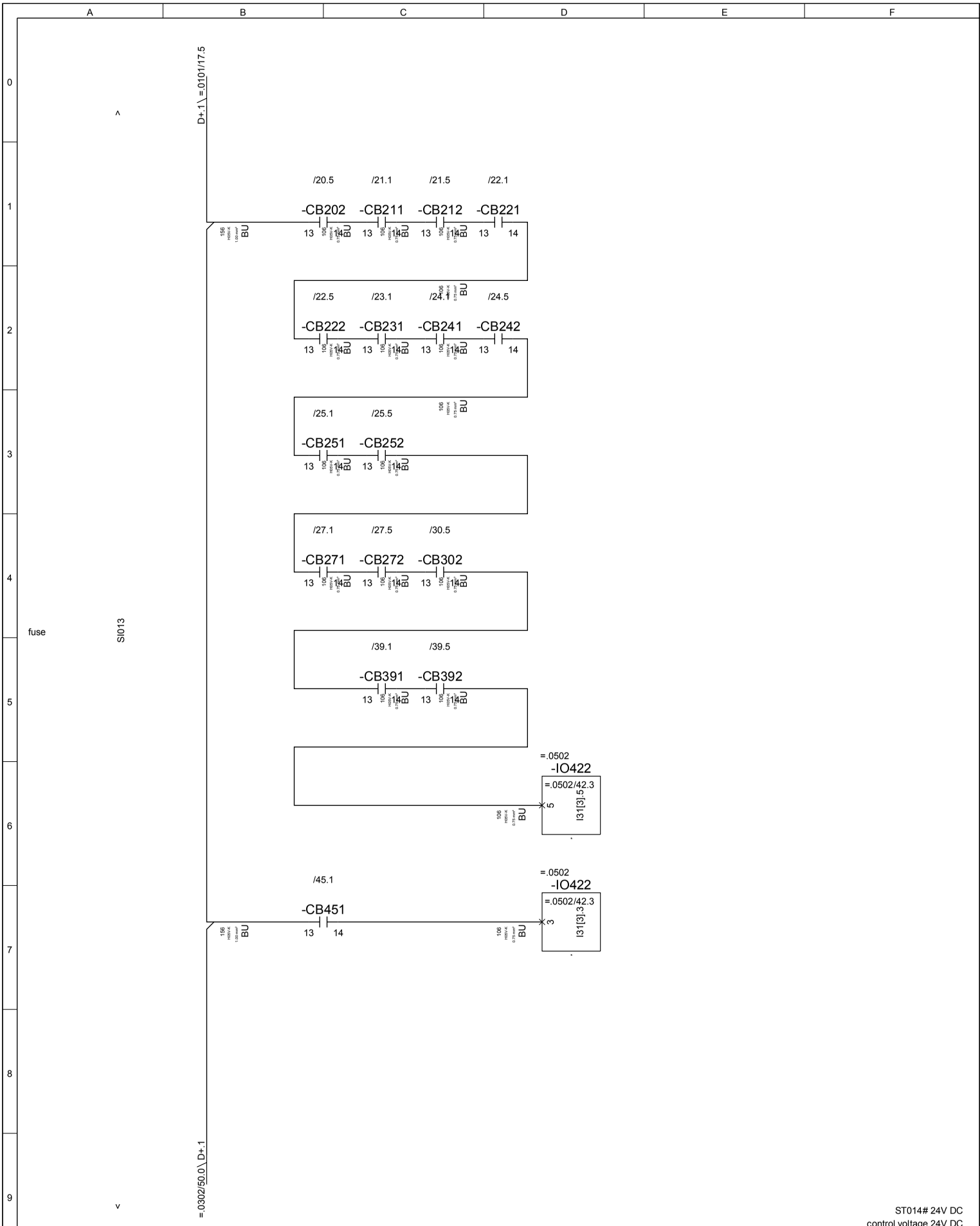
ST014# 24V DC
control voltage 24V DC

date	26.04.2013	machine type filler	KRONES	control voltage MUX	equi. K123989	+SK1	=FU1.0301
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 39 60/348
		version/ 02		SFT_FUG0_201301 03/01023			



ST014# 24V DC
control voltage 24V DC

date	26.04.2013	machine type filler	KRONES	control voltage MUX	equi. K123989	+SK1	=FU1.0301
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 45 61/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 03/01023			



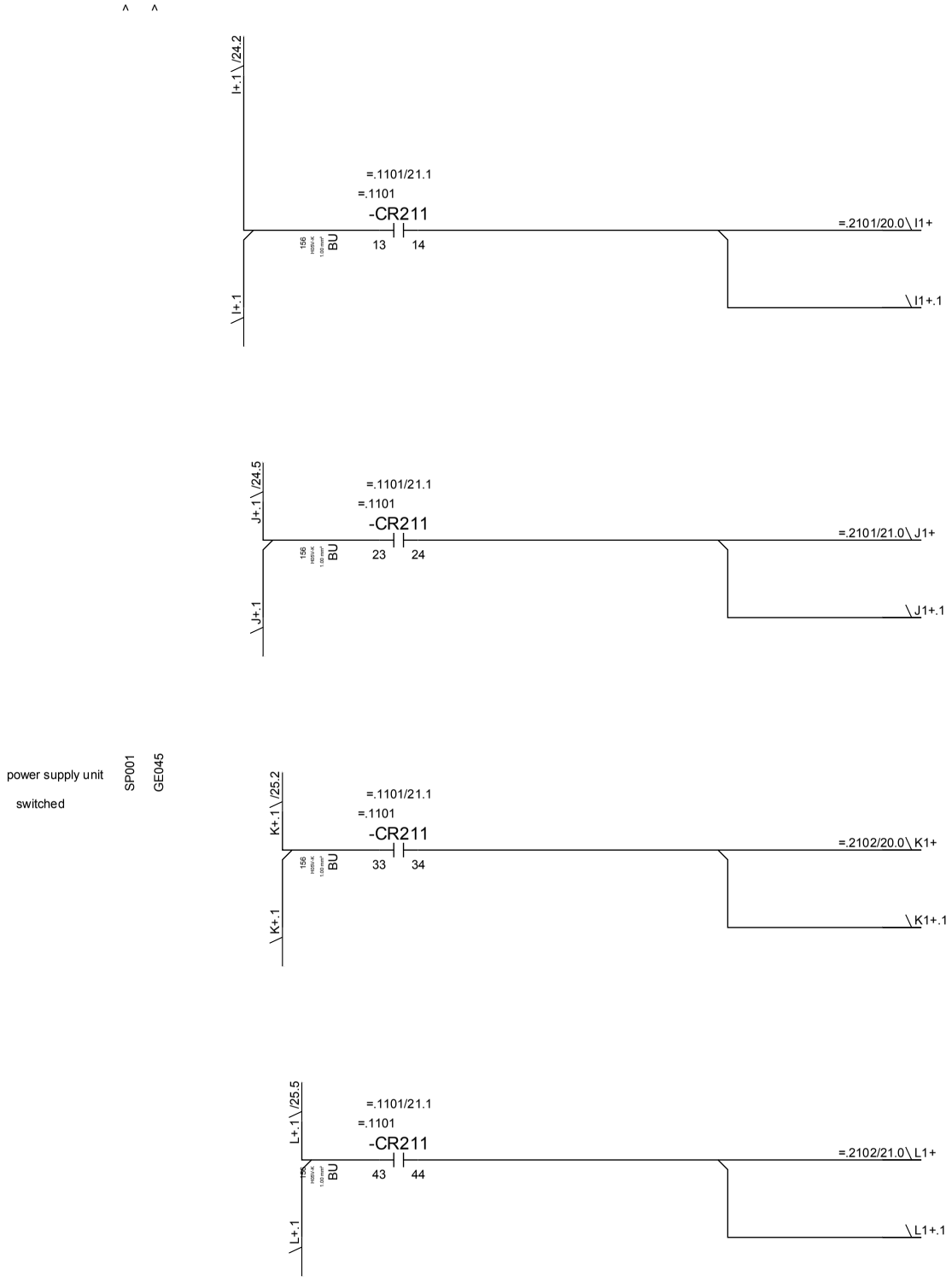
date	26.04.2013	machine type filler	KRONES	fuse	equi. K123989	+SK1	=FU1.0301
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 50 62/348
		version/ 02		SFT_FUG0_201301 03/01023			

power supply unit SP001 GE045

switched

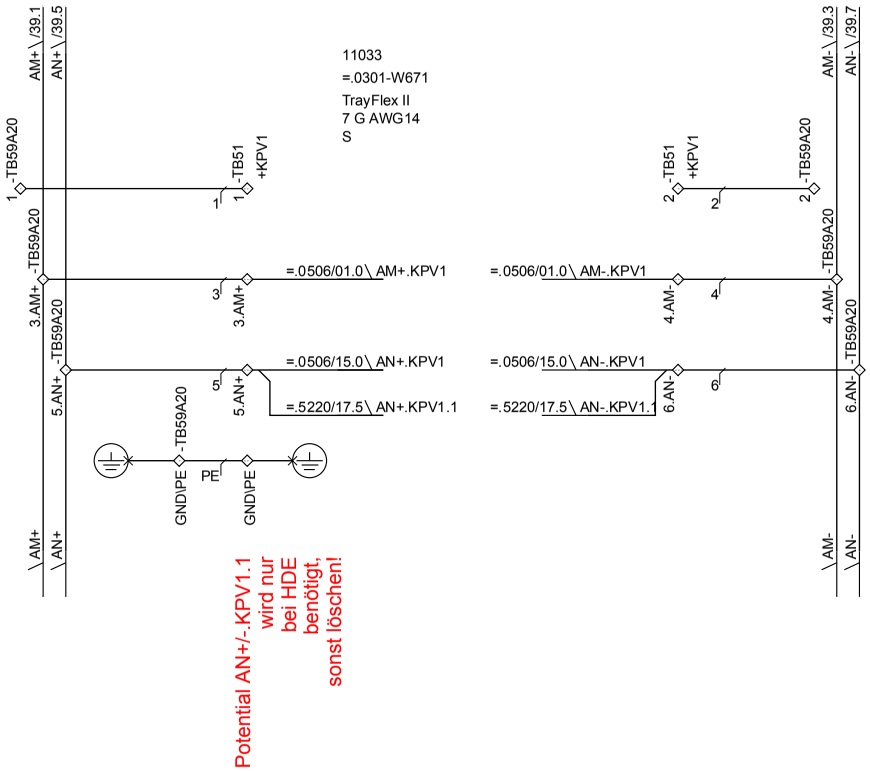
ST014# 24V DC
control voltage 24V DC

date	26.04.2013	machine type filler	KRONES	control voltage MUX	equi. K123989	+SK1	=FU1.0301
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 60 63/348
		version/ 02		SFT_FUG0_201301 03/01023			



ST014# 24V DC
control voltage 24V DC

date	26.04.2013	machine type filler	KRONES	control voltage MUX	equi. K123989	+SK1	=FU1.0301
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 61 64/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 03/01023			



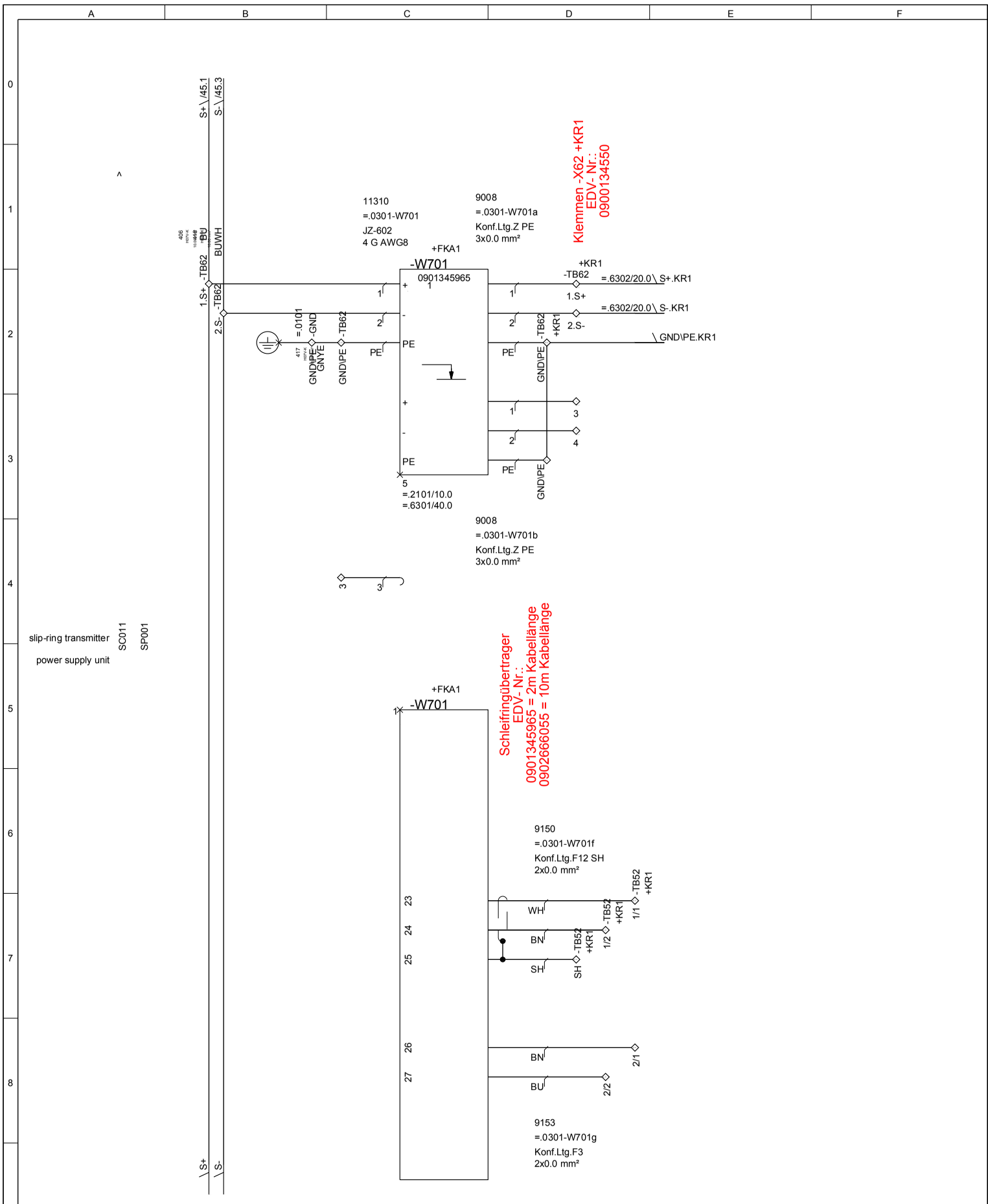
Potential AN+/-.KPV1.1
wird nur
bei HDE
benötigt,
sonst löschen!

control voltage 24V DC

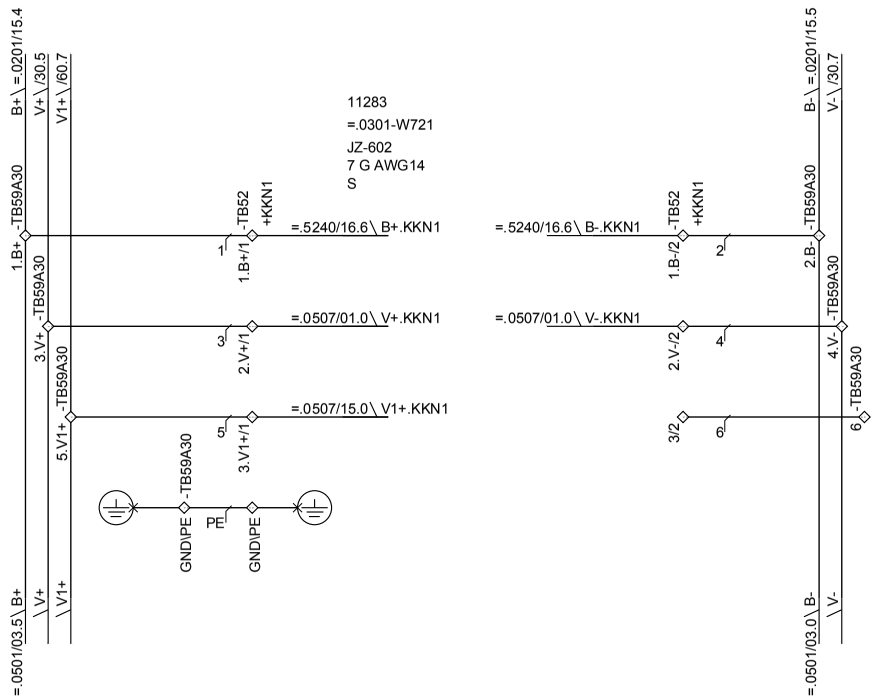
ST014# 24V DC

ST014# 24V DC
control voltage 24V DC

date	26.04.2013	machine type filler	KRONES	connecting cable +KPV1	equi. K123989	+SK1	=FU1.0301
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 67 65/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 03/01023			



date	18.04.2013	machine type filler	KRONES	slip-ring transmitter	equi. K123989	+SK1	=FU1.0301
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 70 66/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 03/01023			

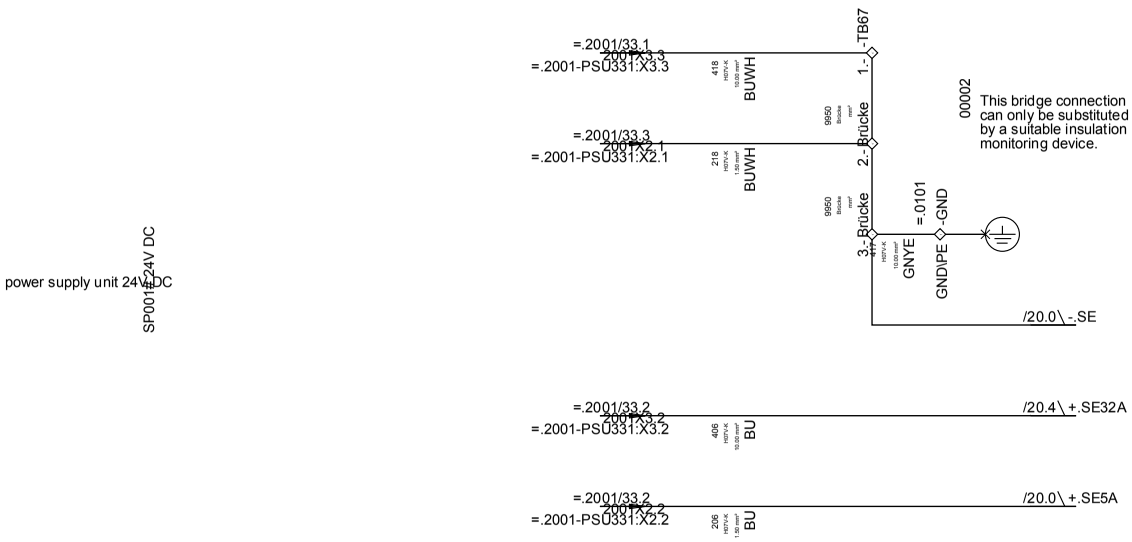


control voltage 24V DC

ST014# 24V DC

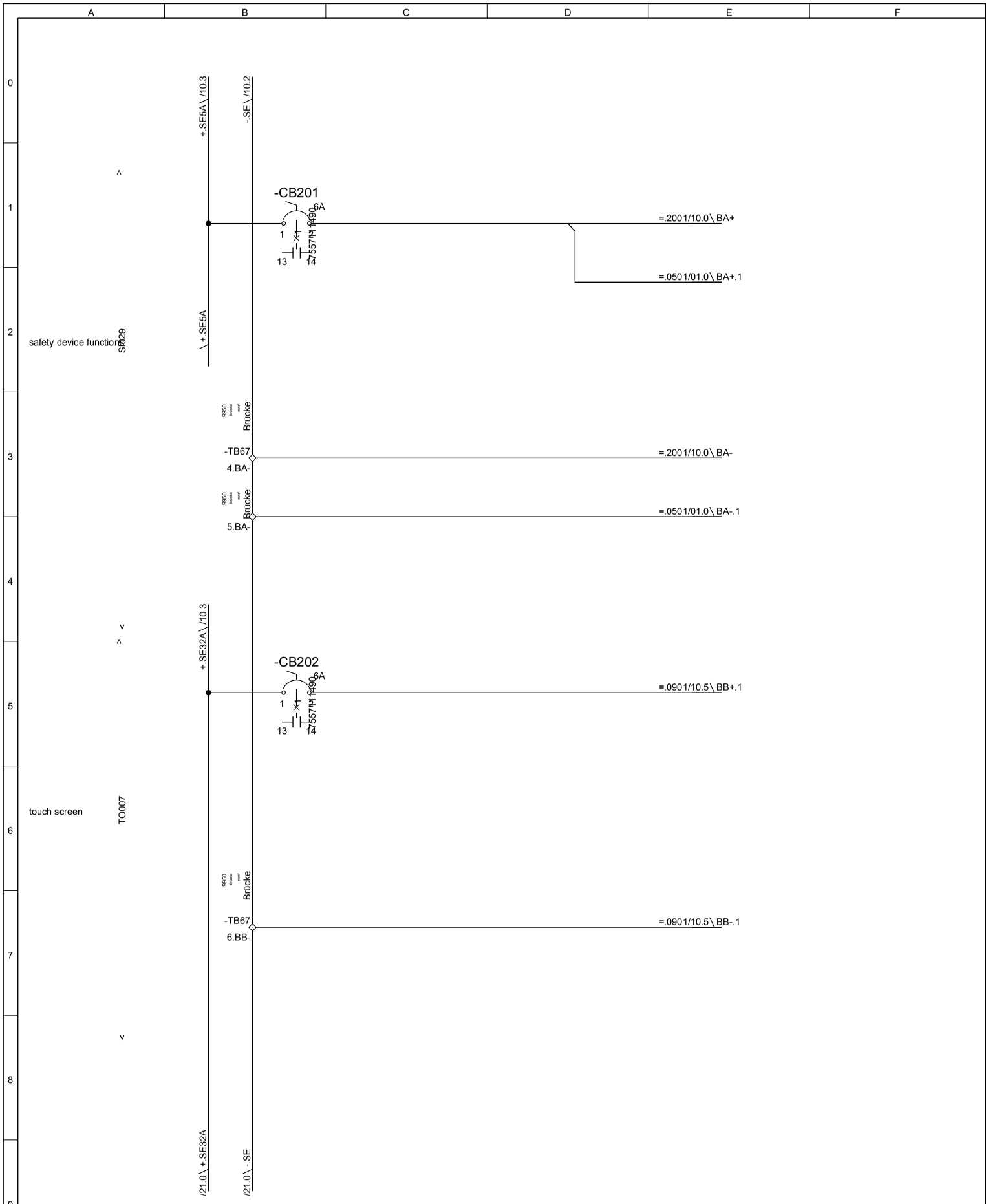
ST014# 24V DC
control voltage 24V DC

date	26.04.2013	machine type filler	KRONES	connecting cable +KKN1	equi. K123989	+SK1	=FU1.0301
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 72 67/348
		version/ 02		SFT_FUG0_201301 03/01023			



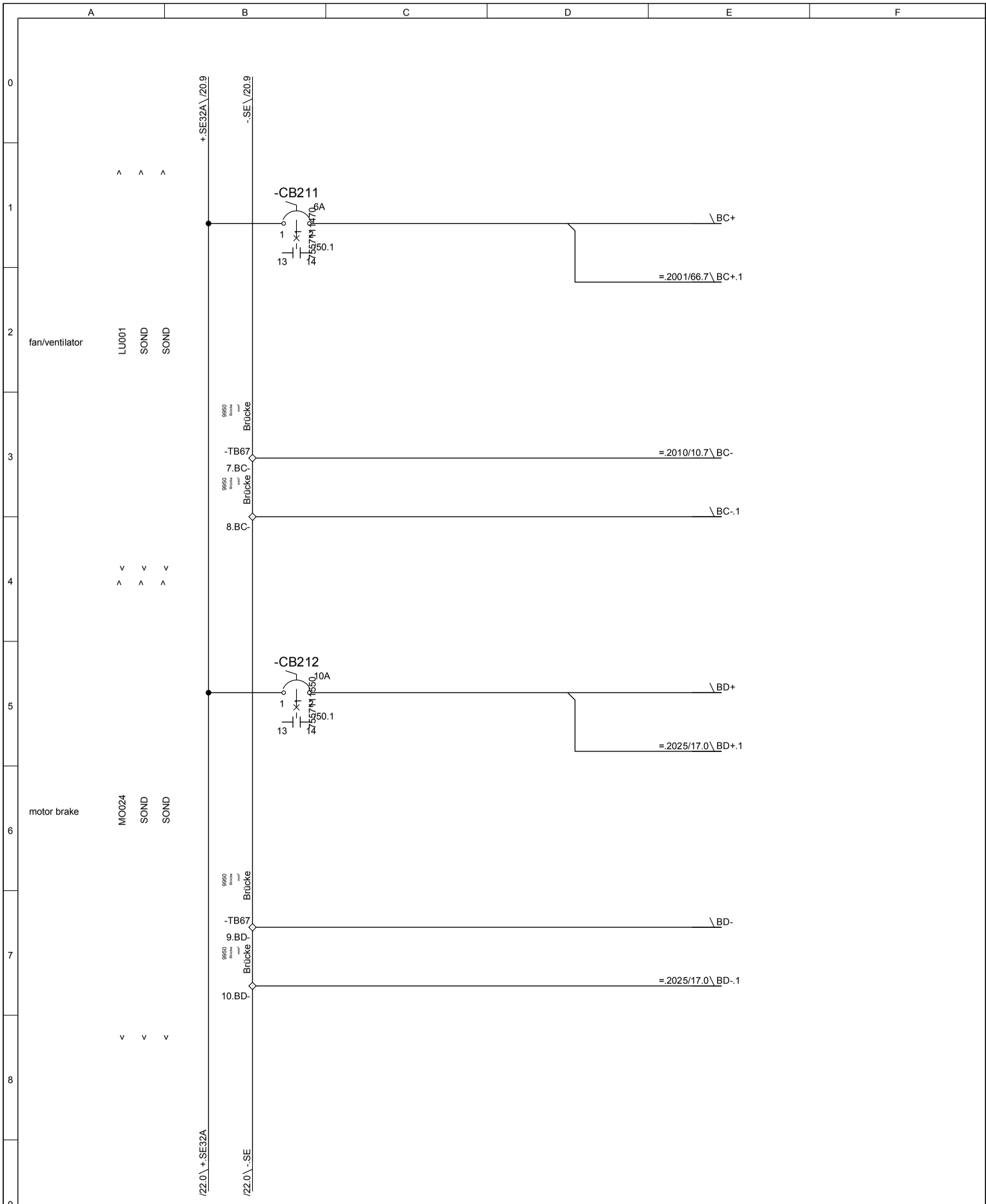
ST014# 24V DC
control voltage 24V DC

date	26.04.2013	machine type filler	KRONES	power supply unit	equi. K123989	+SK1	=FU1.0302
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 10 68/348
		version/ 02		SFT_FUG0_201301 03/01028			



date	26.04.2013	machine type	filler	control voltage MUX	equi. K123989	+SK1	=FU1.0302
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 20 69/348
				Lagunitas Brewing Company			
		version/	02	SFT_FUG0_201301 03/01028			

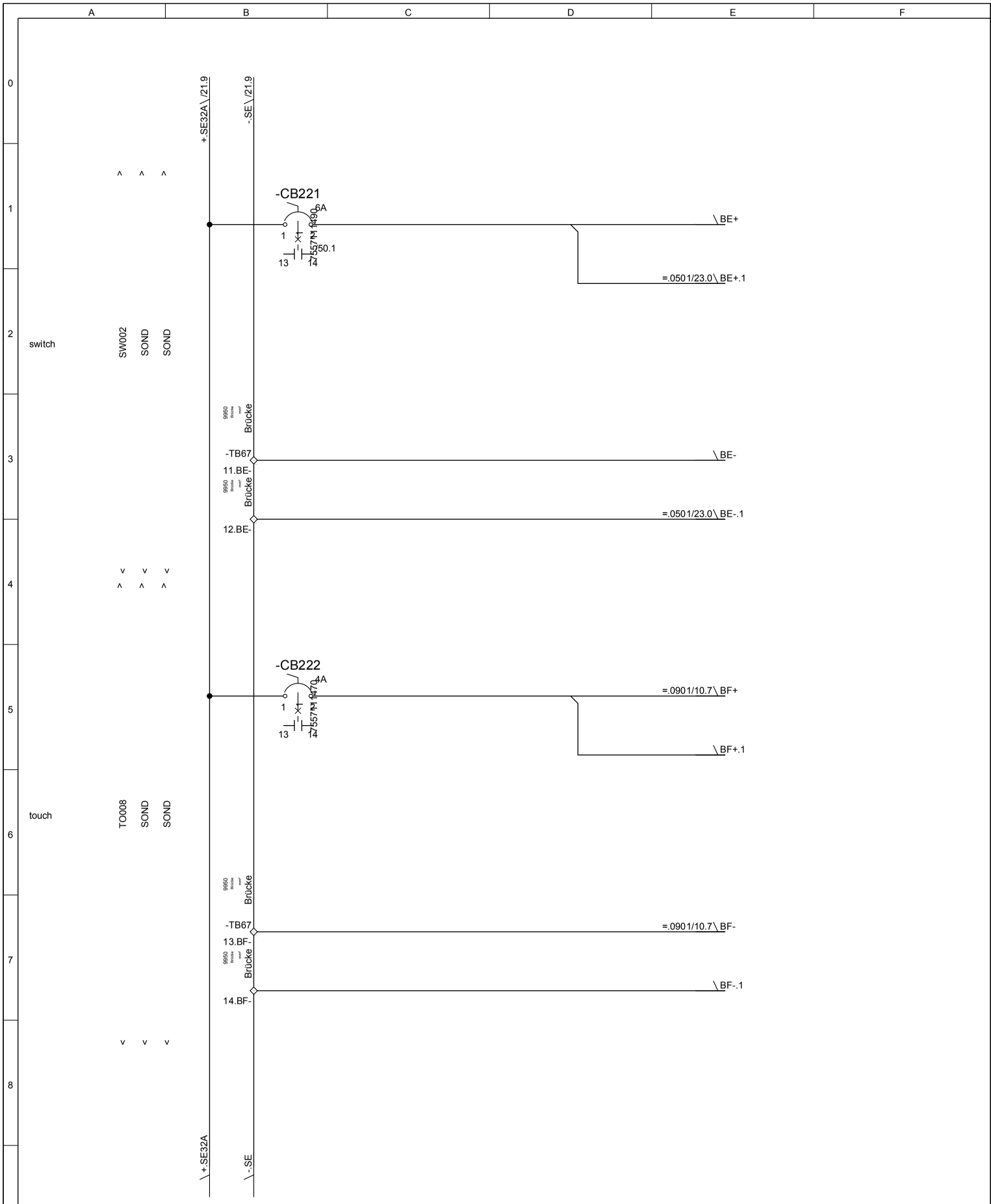
KRONES



ST014# 24V DC
control voltage 24V DC

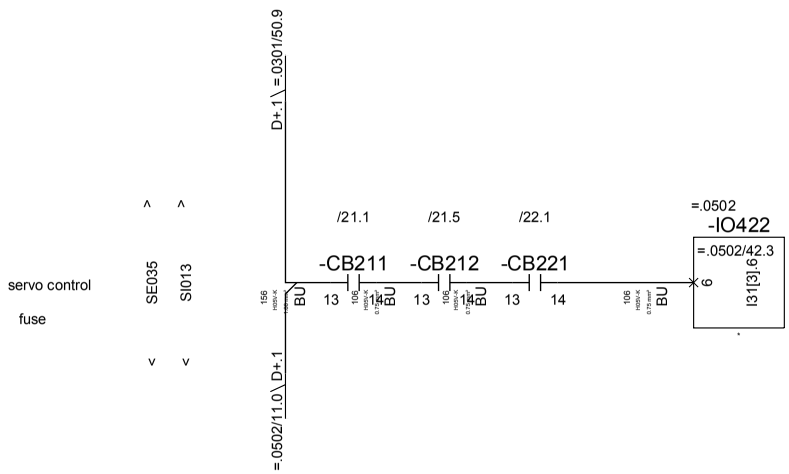
date	27.08.2013	machine type	filler	control voltage MUX	equi. K123989	+SK1	=FU1.0302
eng.	Krupka						
CAD	Skala	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 21 70/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 03/01028			

KRONES



ST014# 24V DC
control voltage 24V DC

date	18.04.2013	machine type filler	KRONES	control voltage MUX	equi. K123989	+SK1	=FU1.0302
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 22 71/348
		version/ 02		SFT_FUG0_201301 03/01028			



ST014# 24V DC
control voltage 24V DC

date	26.04.2013	machine type filler		fuse	equi. K123989	+SK1	=FU1.0302
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS	KRONES	client Lagunitas Brewing Company	K123989-001	STR	sheet 50 72/348
		version/ 02		SFT_FUG0_201301 03/01028			

PB1

PR090
profibus board

/27.2
-CPU272
+SK1
/27.1
-CN272
+SK1

HO001#1&GL010
height adjustment system1
centr.bell lift.cam

=.2101/20.1
=.2101
-MTR201
+FKA1
Adr.70
=.2101/20.4

6811
=.0501-W9001
Profibus Fastcon
2x0.25 mm²
=.2101
-CN202
+FKA1
=.2101
-CN203
+FKA1

HO001#2&GL010
height adjustment system2
centr.bell lift.cam

=.2101/21.1
=.2101
-MTR211
+FKA1
Adr.71
=.2101/21.4

6811
=.0501-W9002
Profibus Fastcon
2x0.25 mm²
=.2101
-CN212
+FKA1
=.2101
-CN213
+FKA1

HO001#1&SP120
height adjustment system1
Pressurisation zone guards

=.2102/20.1
=.2102
-MTR201
+FKA1
Adr.72
=.2102/20.4

6811
=.0501-W9003
Profibus Fastcon
2x0.25 mm²
=.2102
-CN202
+FKA1
=.2102
-CN203
+FKA1

A

HO001#2&SP120
height adjustment system2
Pressurisation zone guards

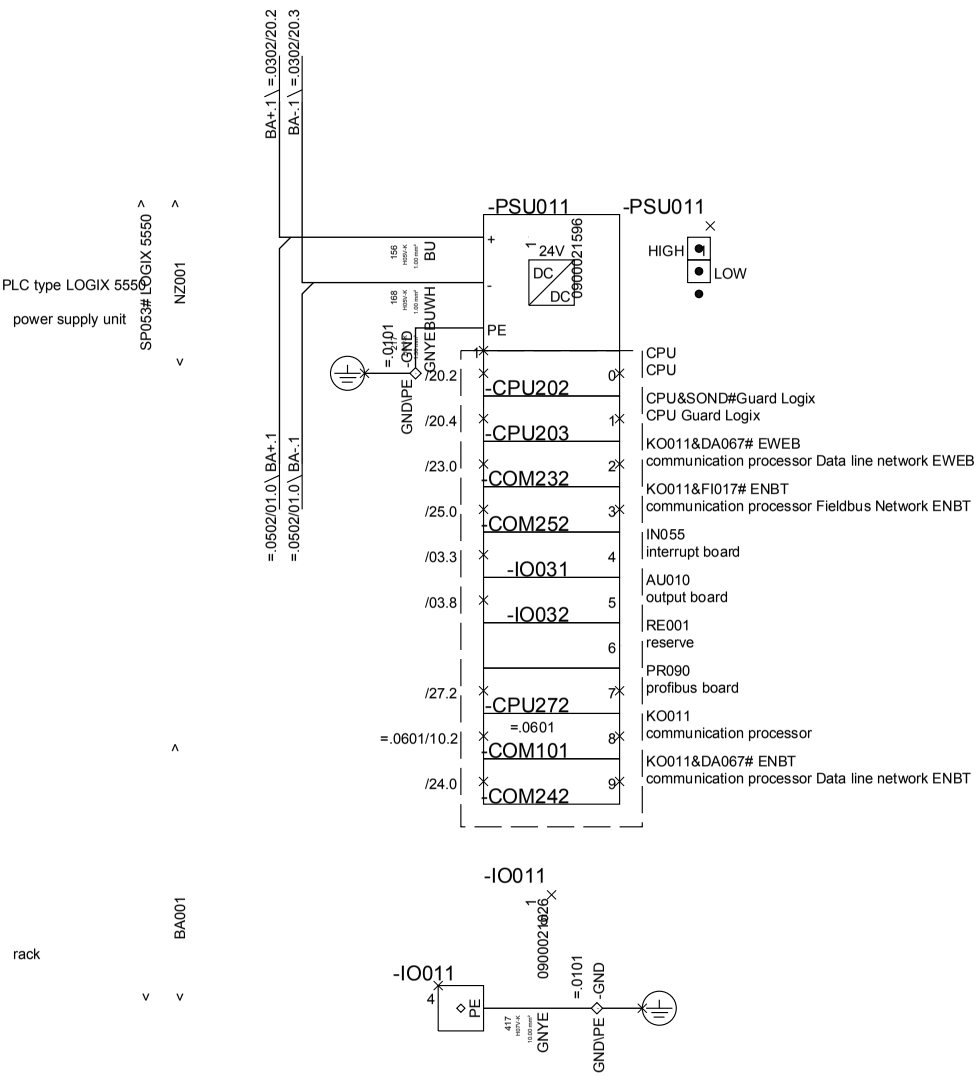
=.2102/21.1
=.2102
-MTR211
+FKA1
Adr.73
=.2102/21.4

6811
=.0501-W9004
Profibus Fastcon
2x0.25 mm²
=.2102
-CN212
+FKA1
=.2102
-CN213
+FKA1

00036

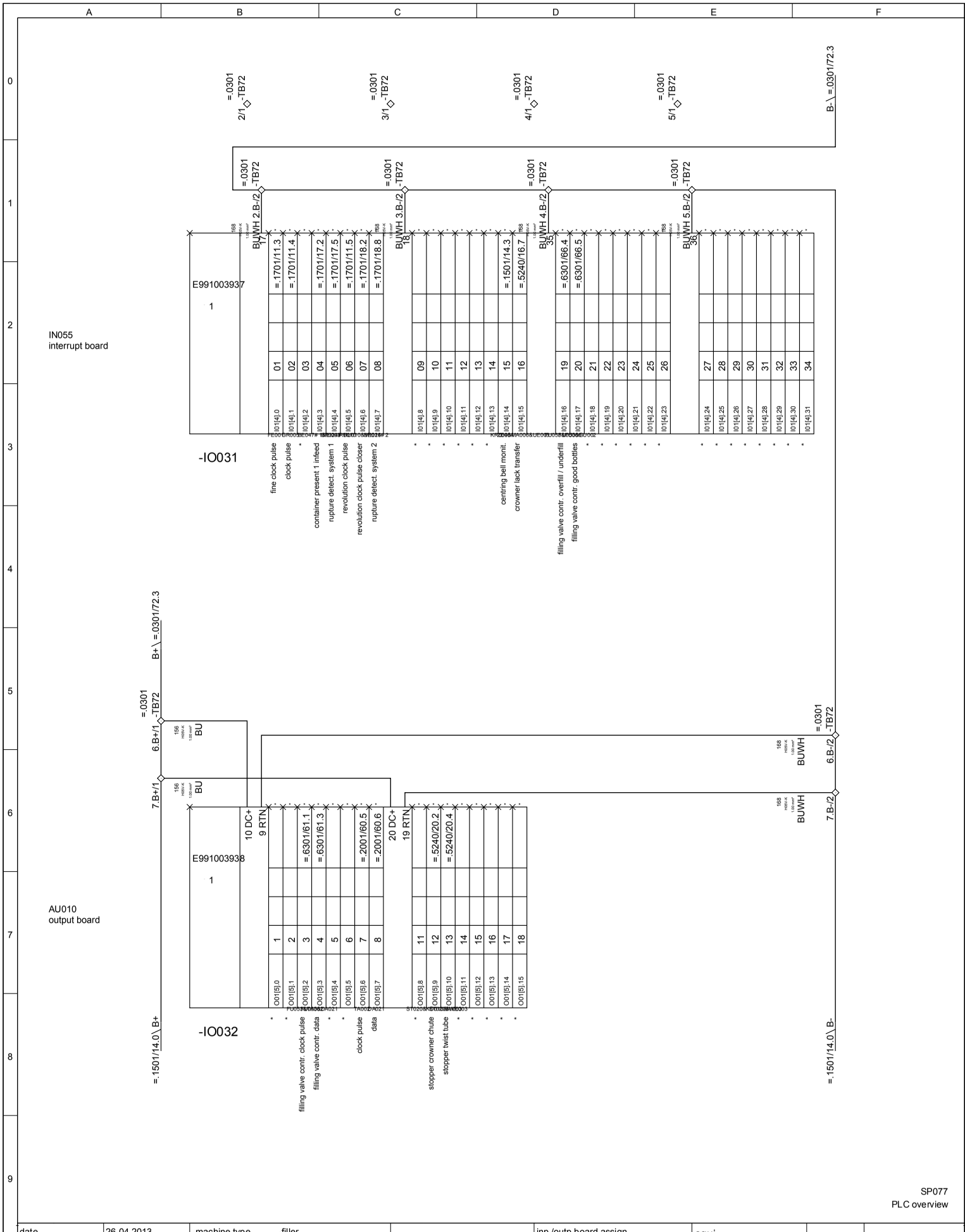
connection refer to legend sheet
PLC overview
SP077

date	26.04.2013	machine type	filler
eng.	Krupka	machine model	MODULFILL HRS
CAD	Krupka	version/	02
profibus			
client	Lagunitas Brewing Company		
SFT_FUG0_201301 0501210			
equi.	K123989		
	K123989-001		
	BUS		
sheet	90		
	73/348		=FU1.0501



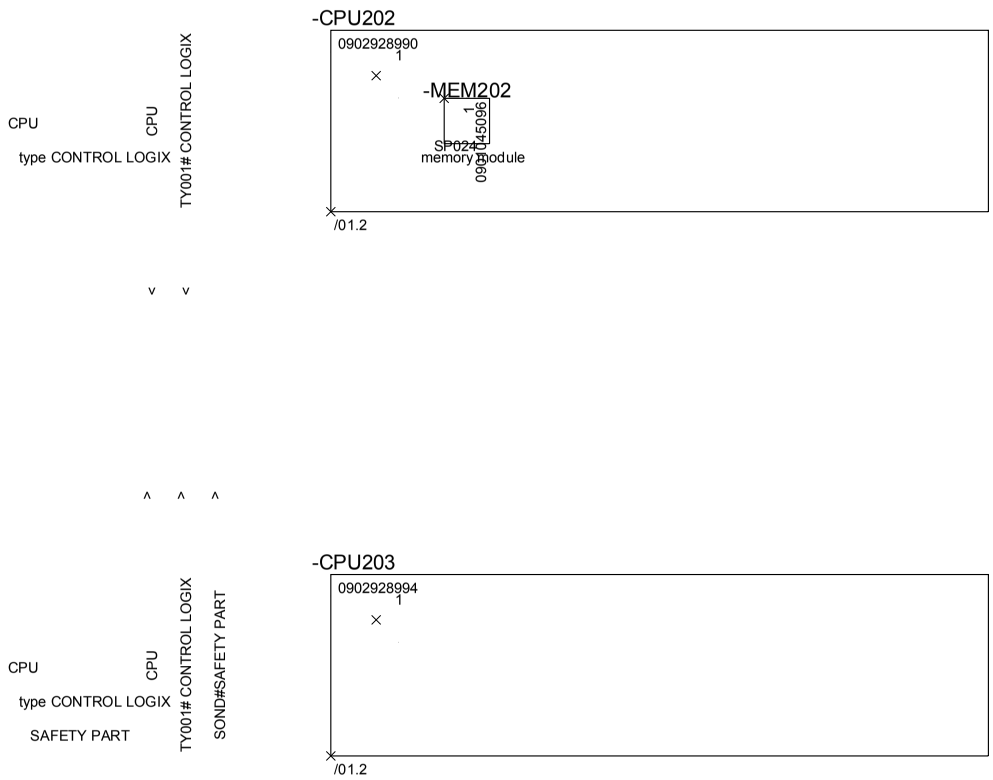
SP077
PLC overview

date	26.04.2013	machine type filler	KRONES	rack structure	equi. K123989	+SK1	=FU1.0501
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 01 74/348
		version/ 02		Lagunitas Brewing Company			
				SFT_FUG0_201301 05/01210			



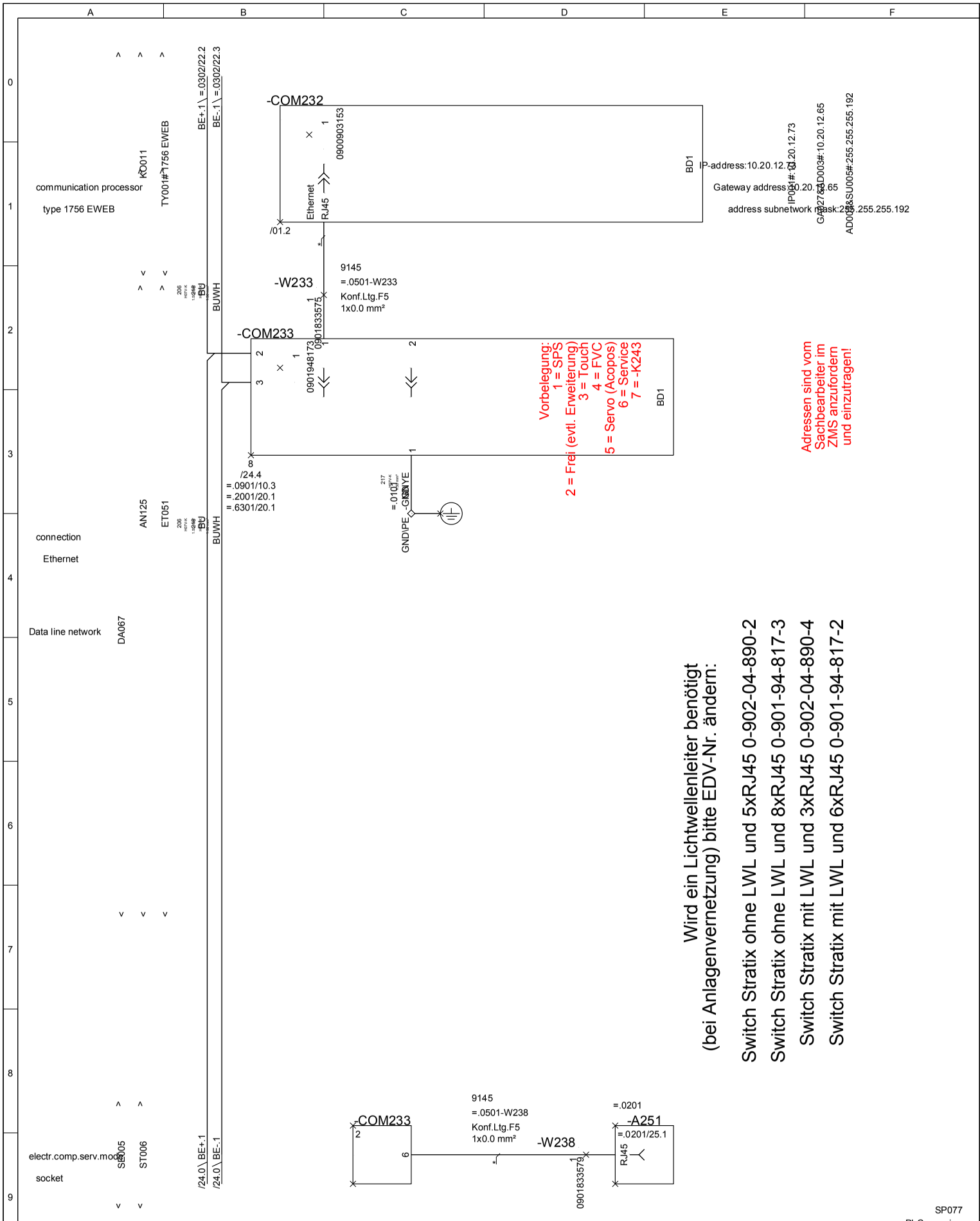
SP077
PLC overview

date	26.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+SK1	=FU1.0501
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 03 75/348
		version/ 02		SFT_FUG0_201301 05/01210			

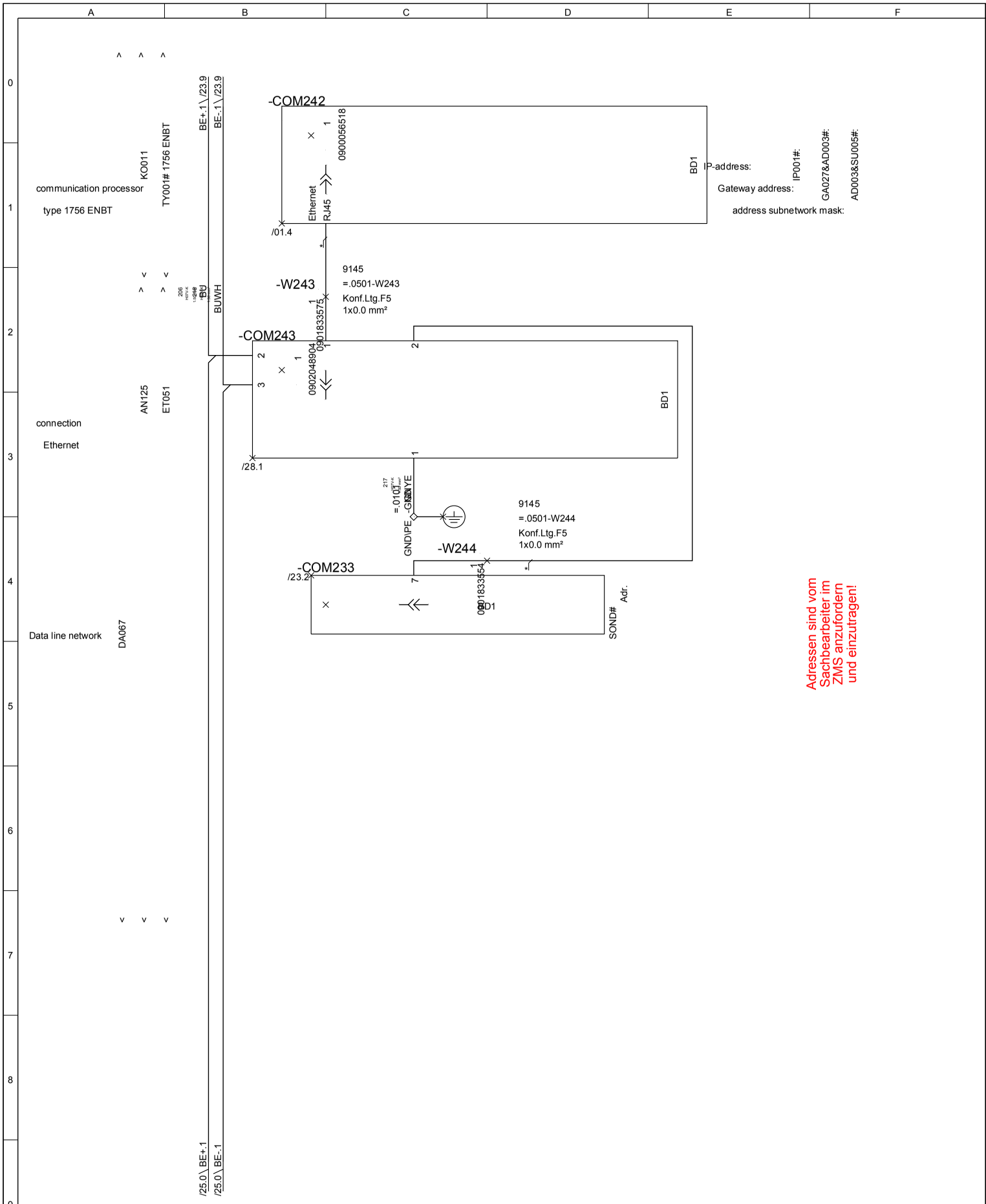


SP077
PLC overview

date	26.04.2013	machine type filler	KRONES	CPU	equi. K123989	+SK1	=FU1.0501
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 20 76/348
		version/ 02		SFT_FUG0_201301 05/01210			

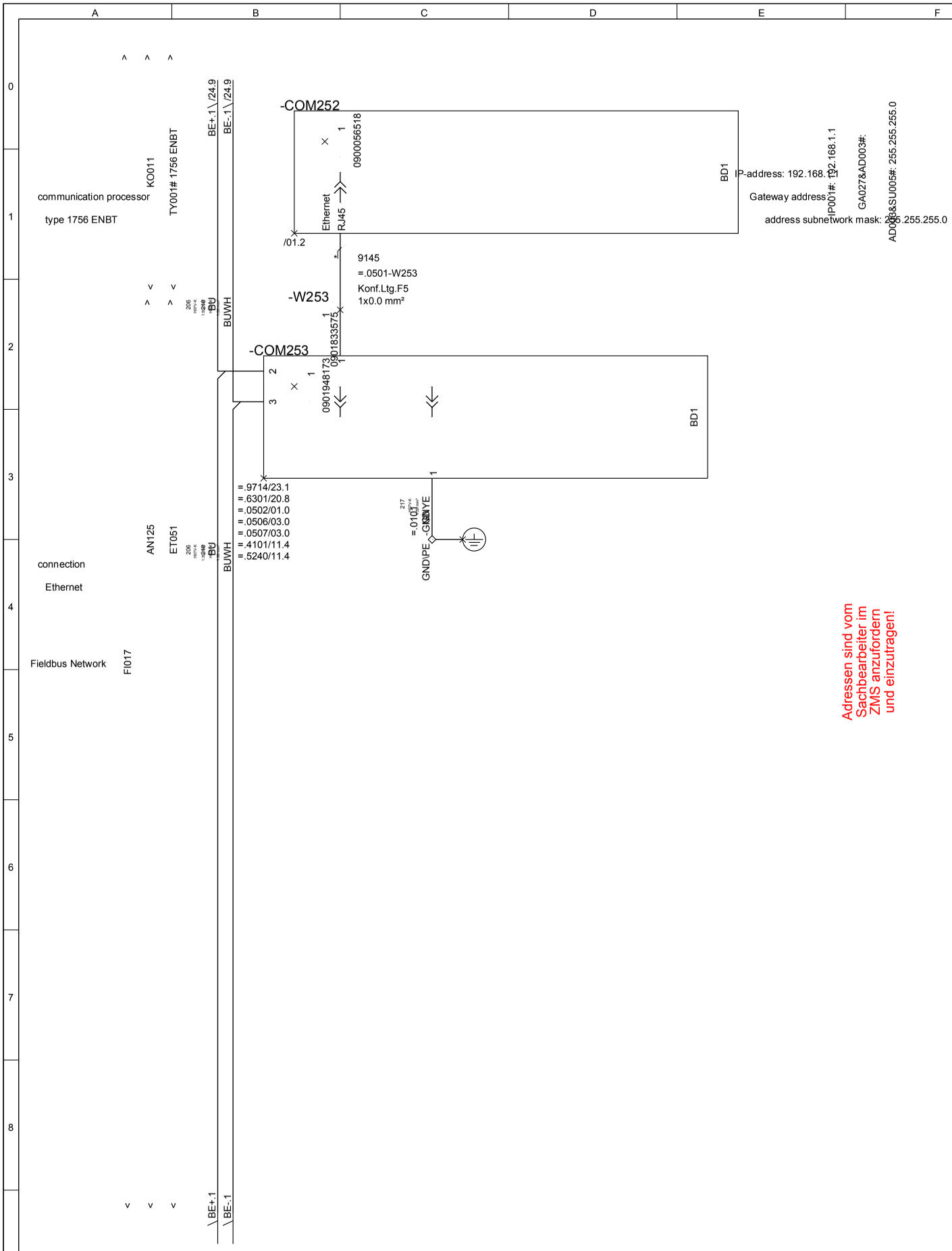


date	26.04.2013	machine type	filler	connection	equi. K123989	+SK1	=FU1.0501
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 23 77/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 05/01210			



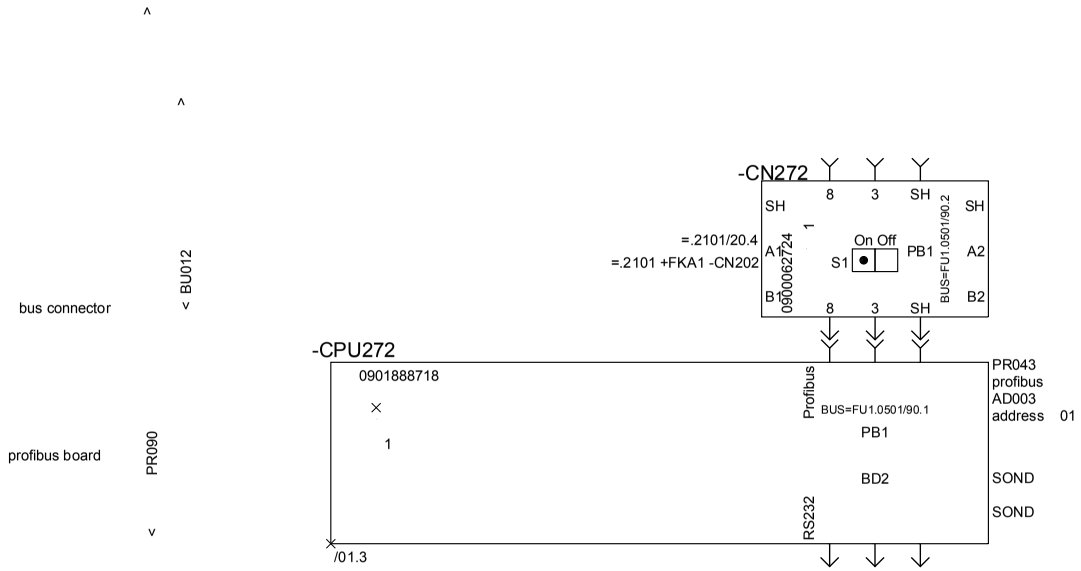
SP077
PLC overview

date	24.04.2013	machine type	filler	Data line network	equi. K123989	+SK1	=FU1.0501
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 24 78/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 05/01210			



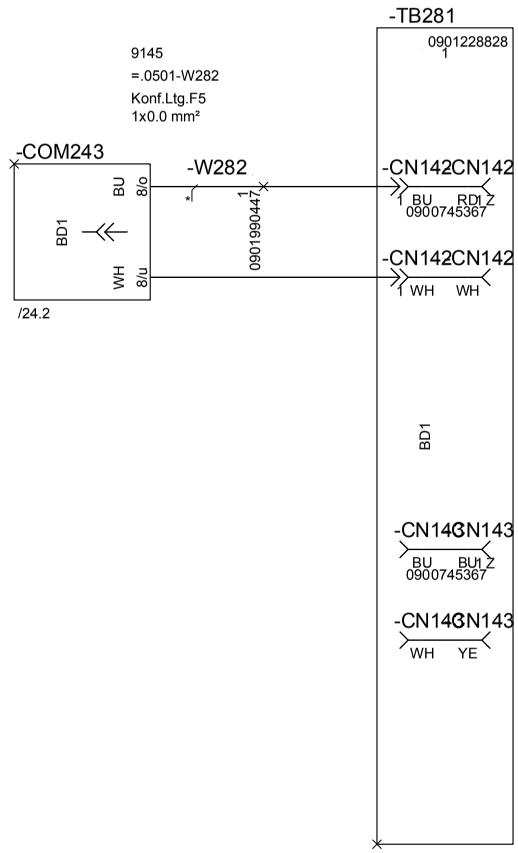
SP077
PLC overview

date	26.04.2013	machine type filler	KRONES	Fieldbus Network	equi. K123989	+SK1	=FU1.0501
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 25 79/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 05/01210			



SP077
PLC overview

date	24.04.2013	machine type filler	KRONES	profibus board	equi. K123989	+SK1	=FU1.0501
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 27 80/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 05/01210			

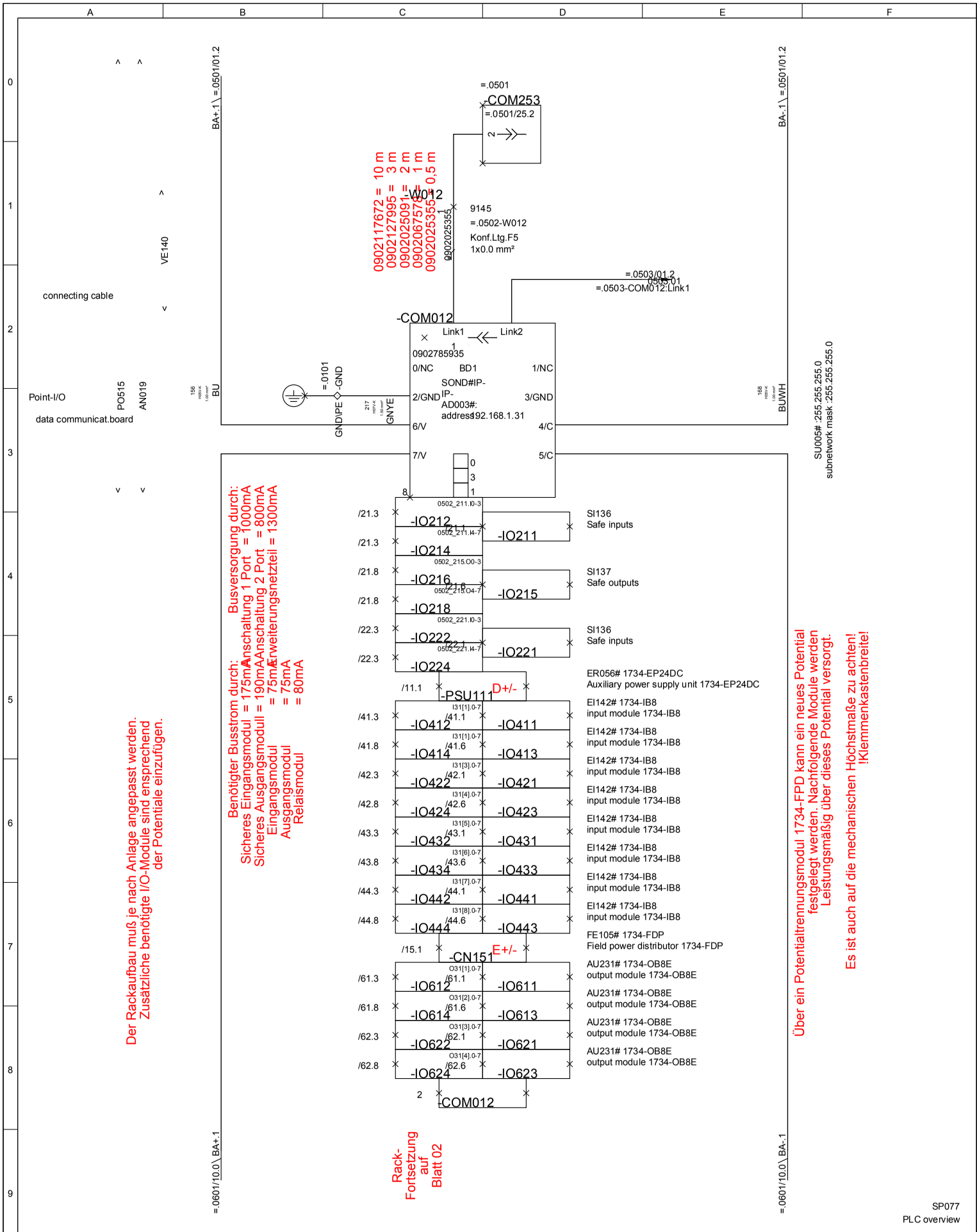


connection optical fibre AN003 LI048

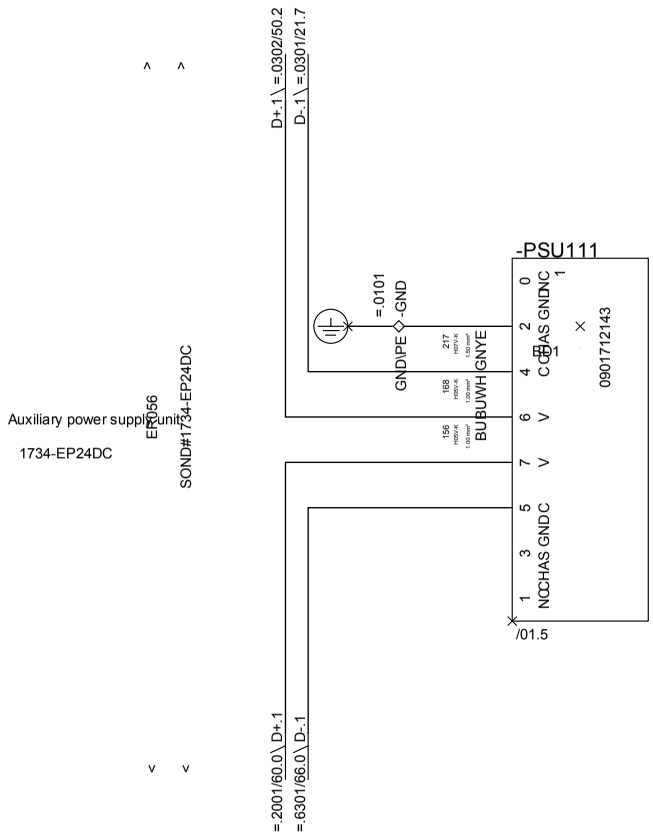
connection at diagram number : AN003#&AN106 PL007#

LI028&AN130
LDS line networking

date	18.04.2013	machine type filler	KRONES	connection optical fibre	equi. K123989	+SK1	=FU1.0501
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 28 81/348
		version/ 02		SFT_FUG0_201301 06/01021			

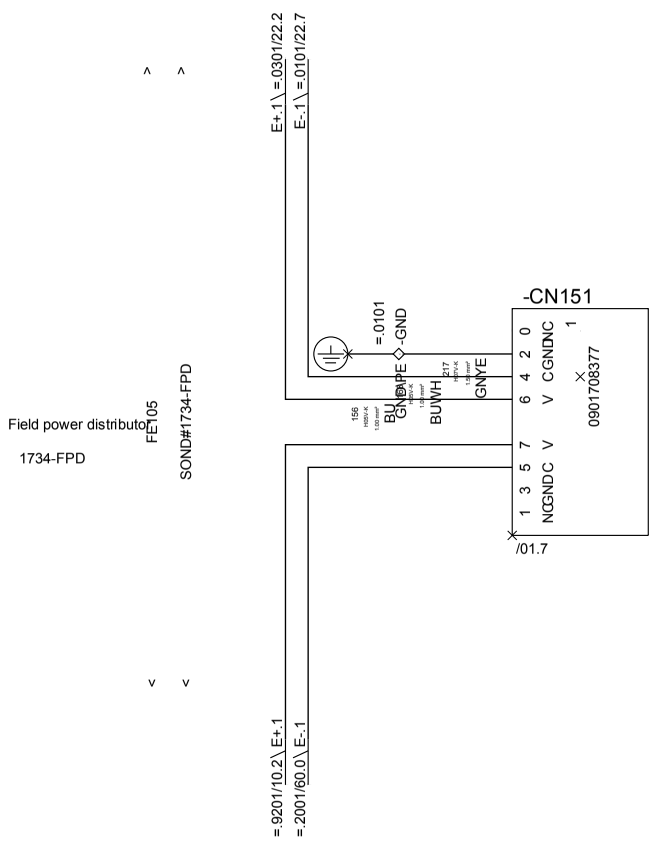


date	31.05.2013	machine type	filler	data communicat.board	equi. K123989	+SK1	=FU1.0502
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 01 82/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 05/01032			



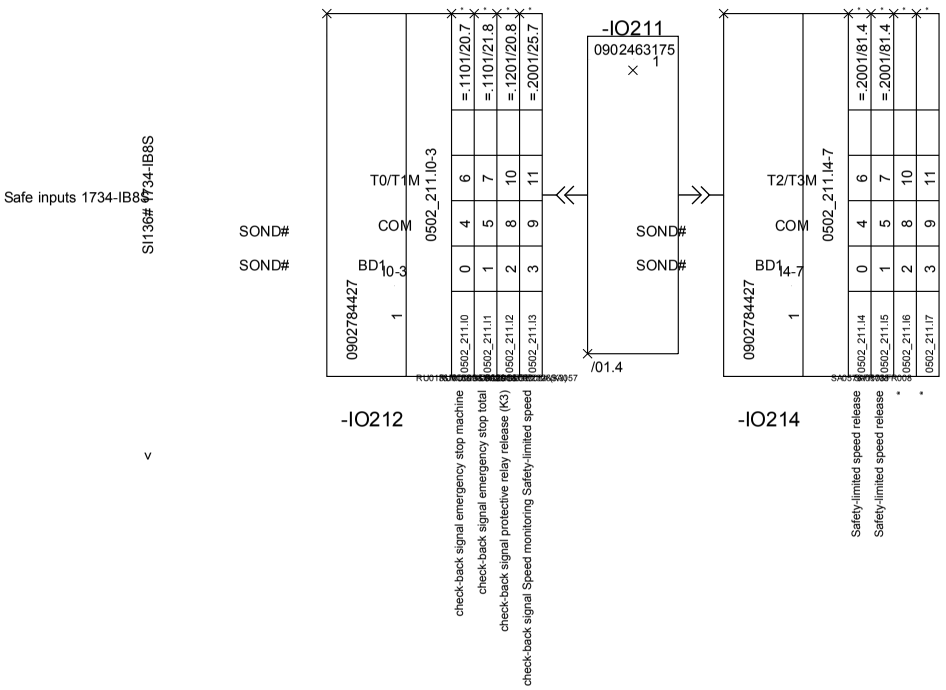
SP077
PLC overview

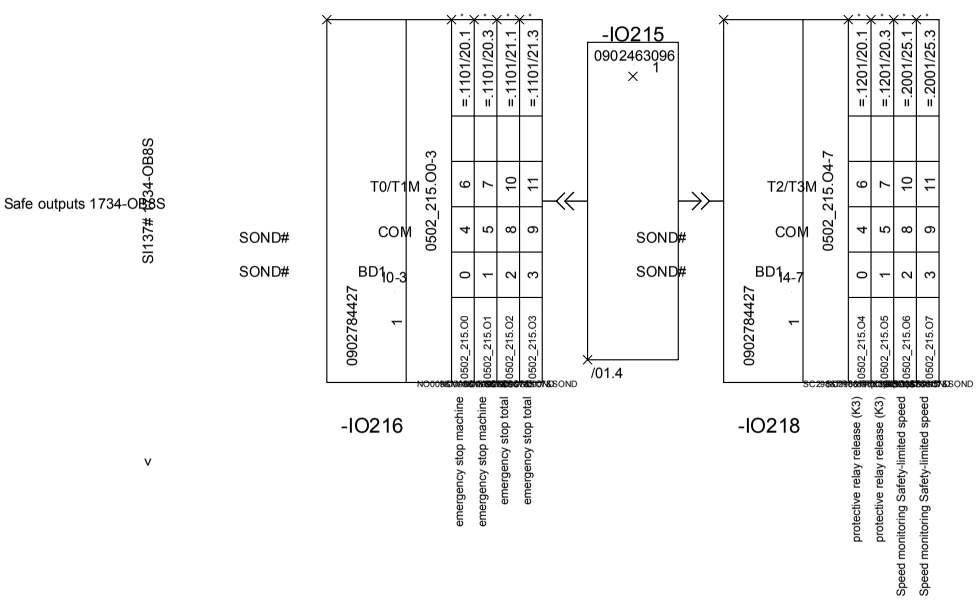
date	24.04.2013	machine type filler	KRONES	Feeder module	equi. K123989	+SK1	=FU1.0502
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 11 83/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 05/01032			



SP077
PLC overview

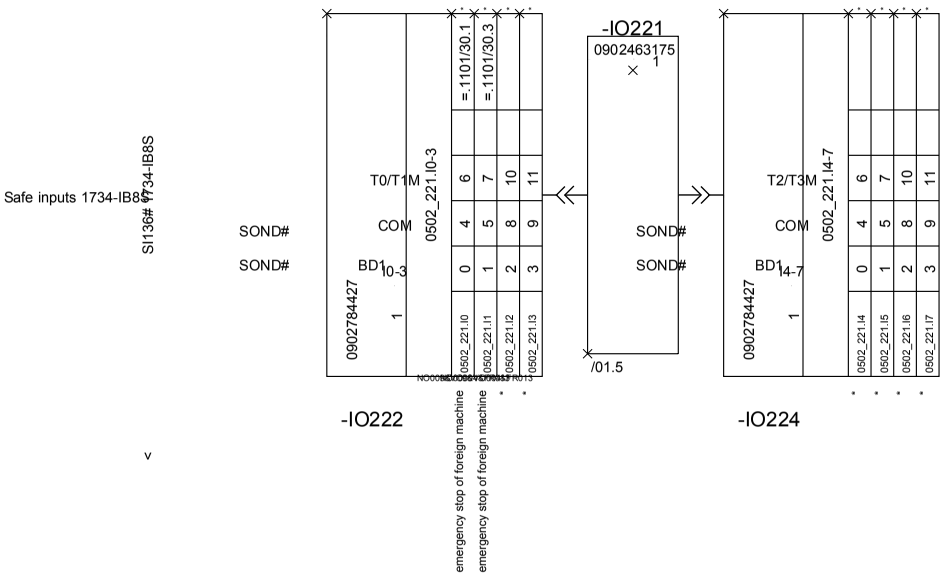
date	24.04.2013	machine type filler		Feeder module	equi. K123989	+SK1	=FU1.0502
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS	KRONES	client	K123989-001	STR	sheet 15 84/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 05/01032			





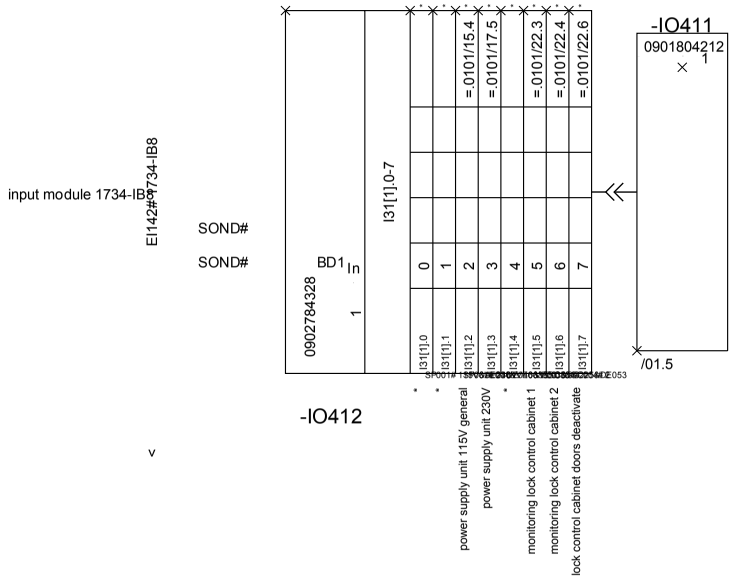
SP077
PLC overview

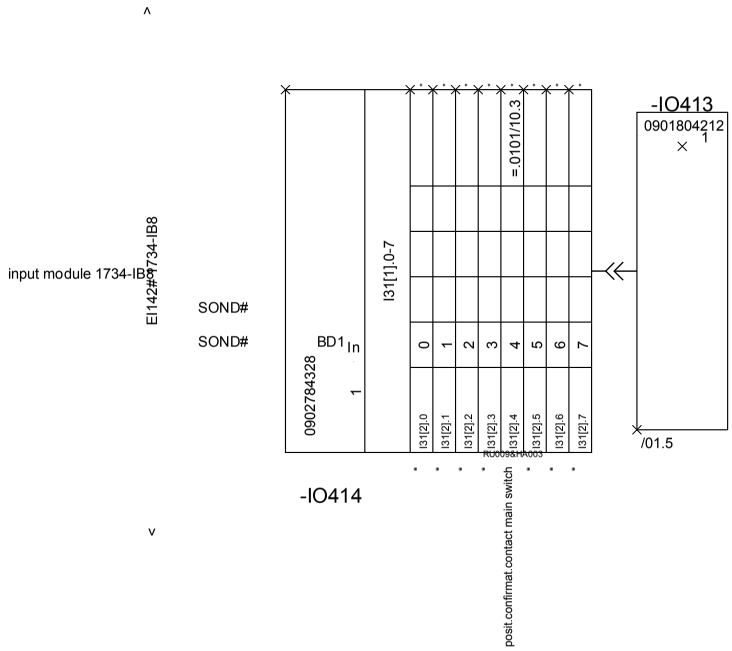
date	24.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+SK1	=FU1.0502
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 21 85/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 05/01032			



SP077
PLC overview

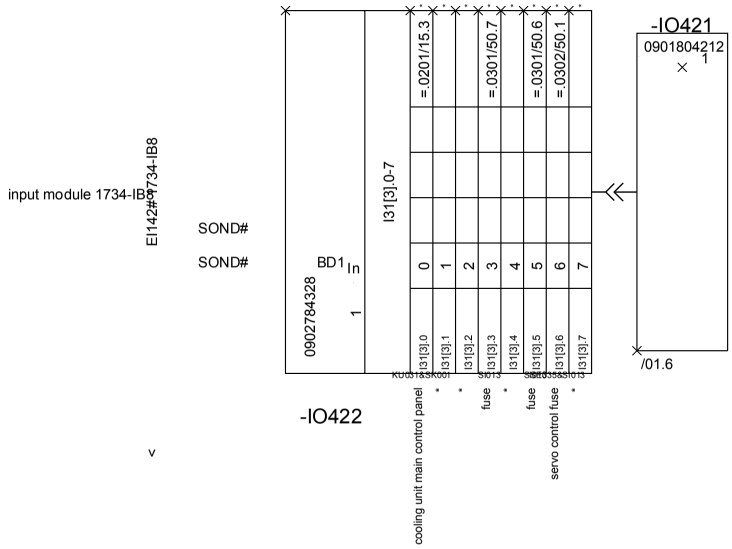
date	24.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+SK1	=FU1.0502
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 22 86/348
		version/ 02		SFT_FUG0_201301 05/01032			

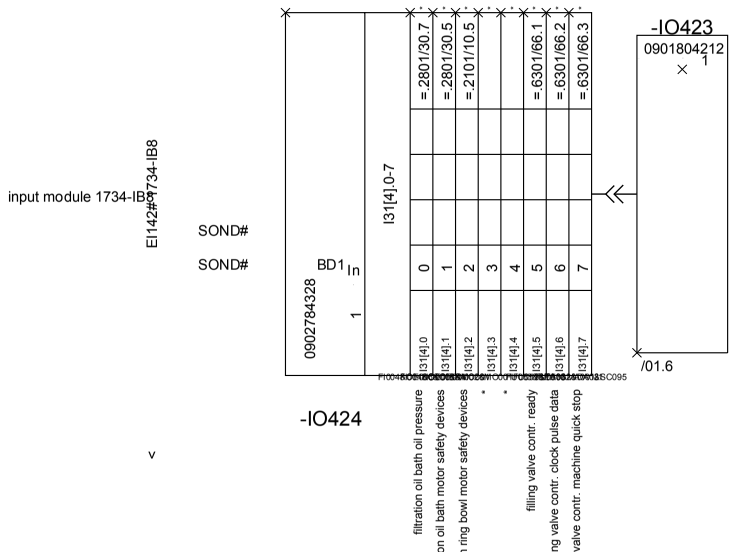




SP077
PLC overview

date	26.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+SK1	=FU1.0502
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 41 87/348
		version/ 02		SFT_FUG0_201301 05/01032			

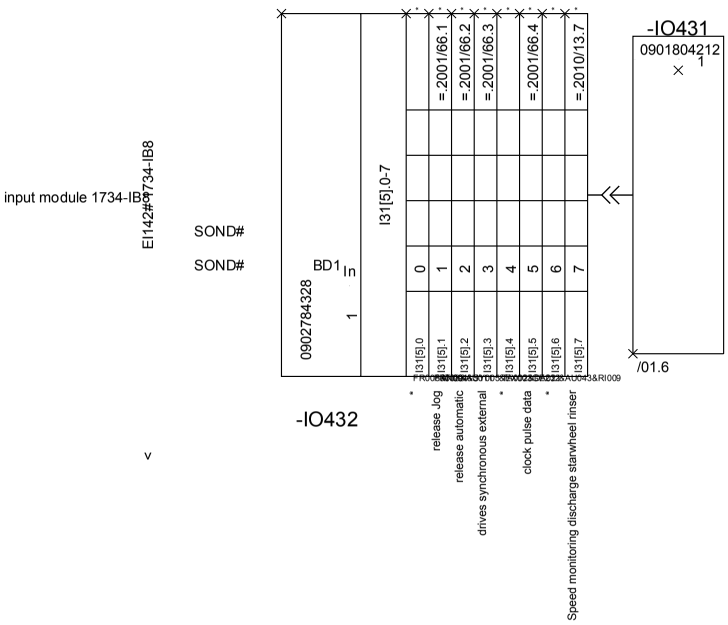


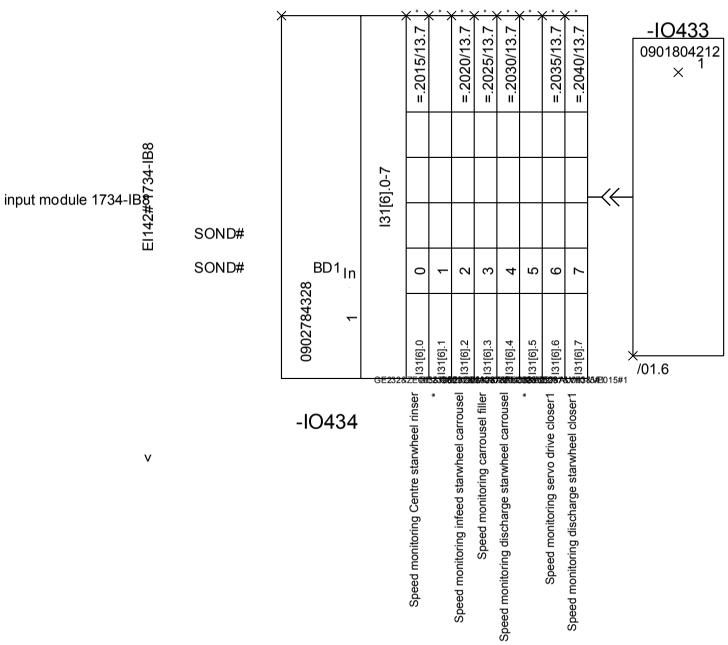


SP077
PLC overview

date	24.04.2013	machine type	filler	inp./outp.board assign.	equi. K123989	+SK1	=FU1.0502
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 42 88/348
				Lagunitas Brewing Company			
		version/	02	SFT_FUG0_201301 05/01032			

KRONES

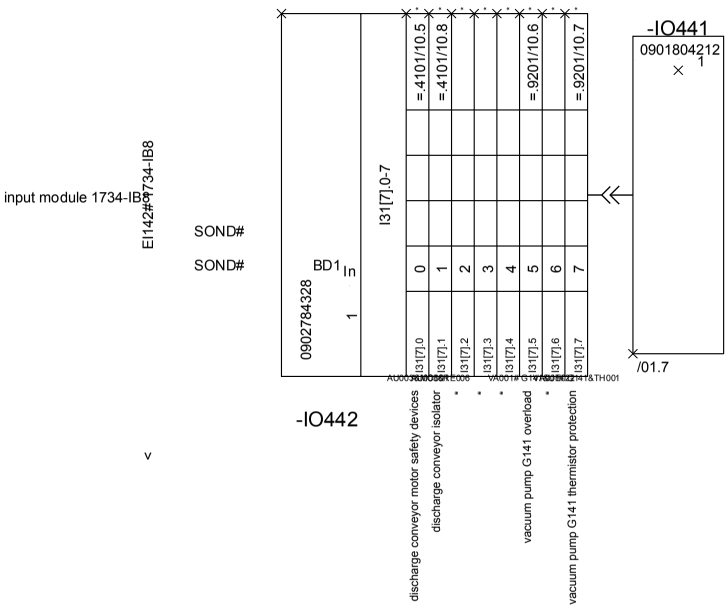


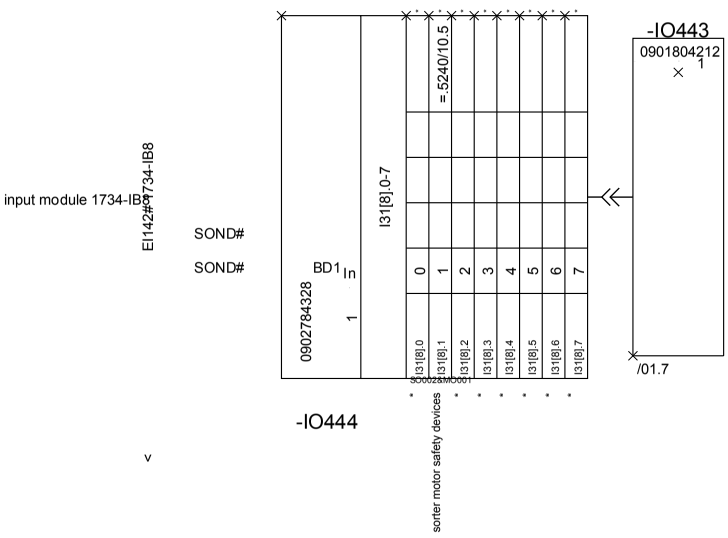


SP077
PLC overview

date	24.04.2013	machine type	filler	inp./outp.board assign.	equi. K123989	+SK1	=FU1.0502
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 43 89/348
				Lagunitas Brewing Company			
		version/	02	SFT_FUG0_201301 05/01032			

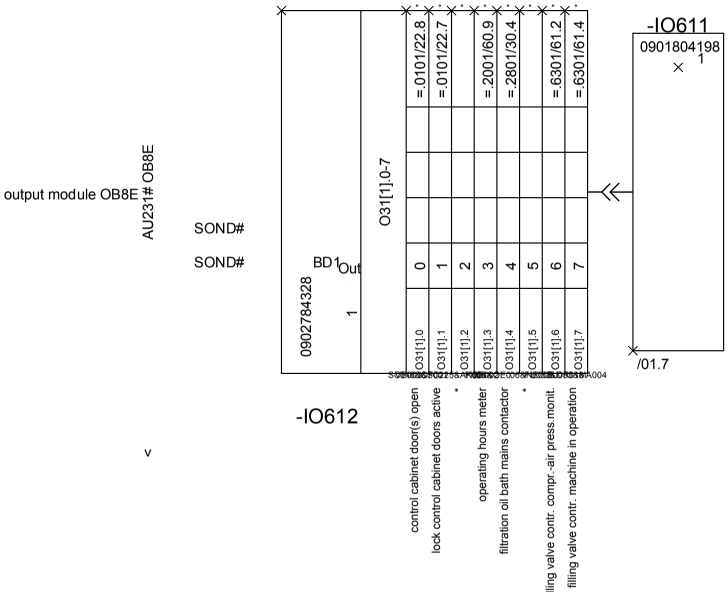
KRONES

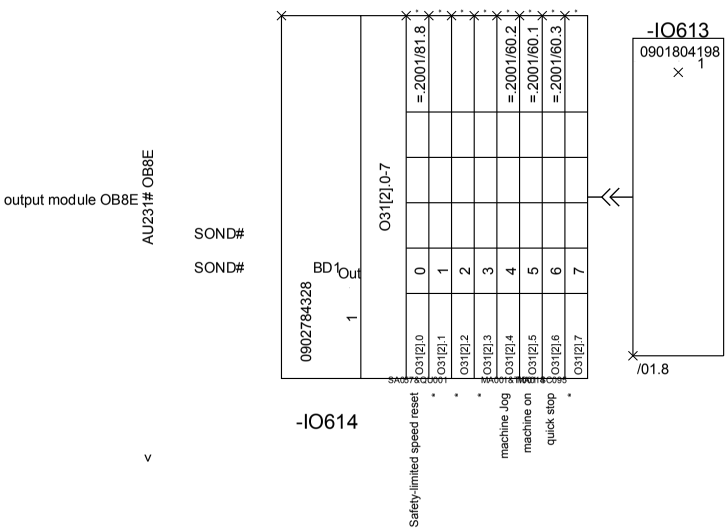




SP077
PLC overview

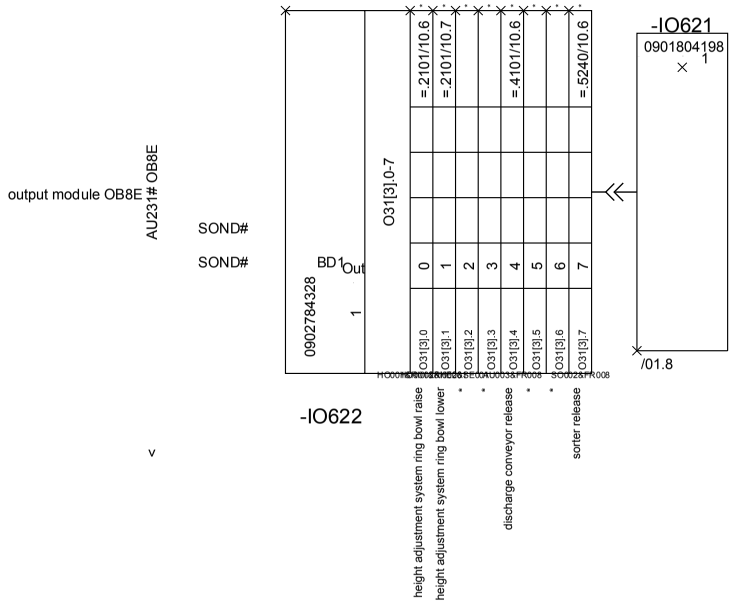
date	24.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+SK1	=FU1.0502
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 44 90/348
		version/ 02		SFT_FUG0_201301 05/01032			

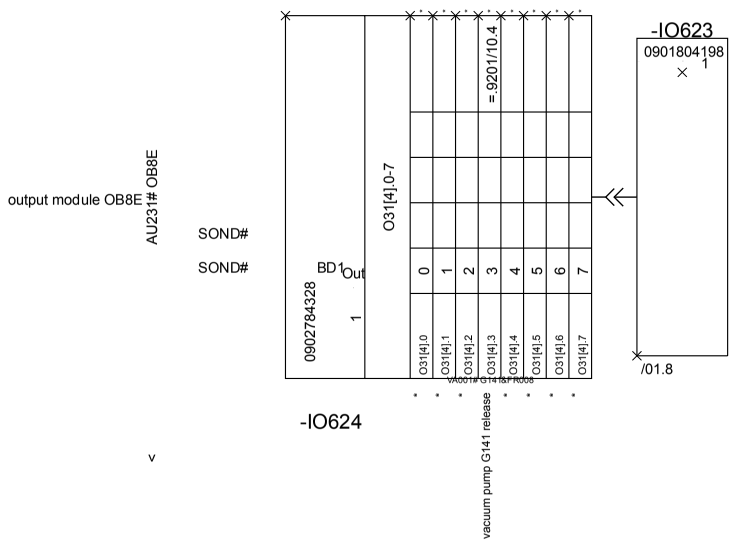




SP077
PLC overview

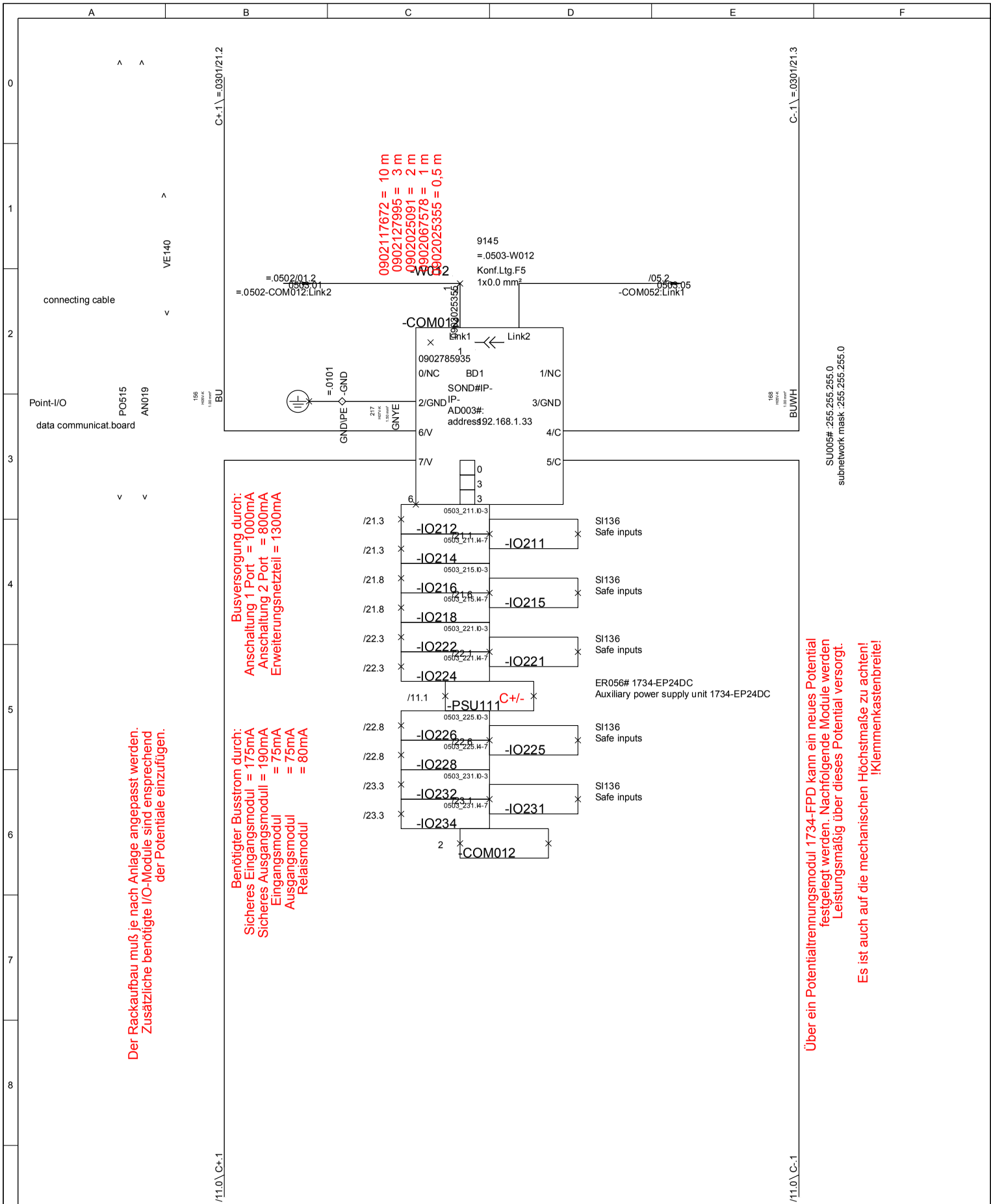
date	24.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+SK1	=FU1.0502
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 61 91/348
		version/ 02		SFT_FUG0_201301 05/01032			



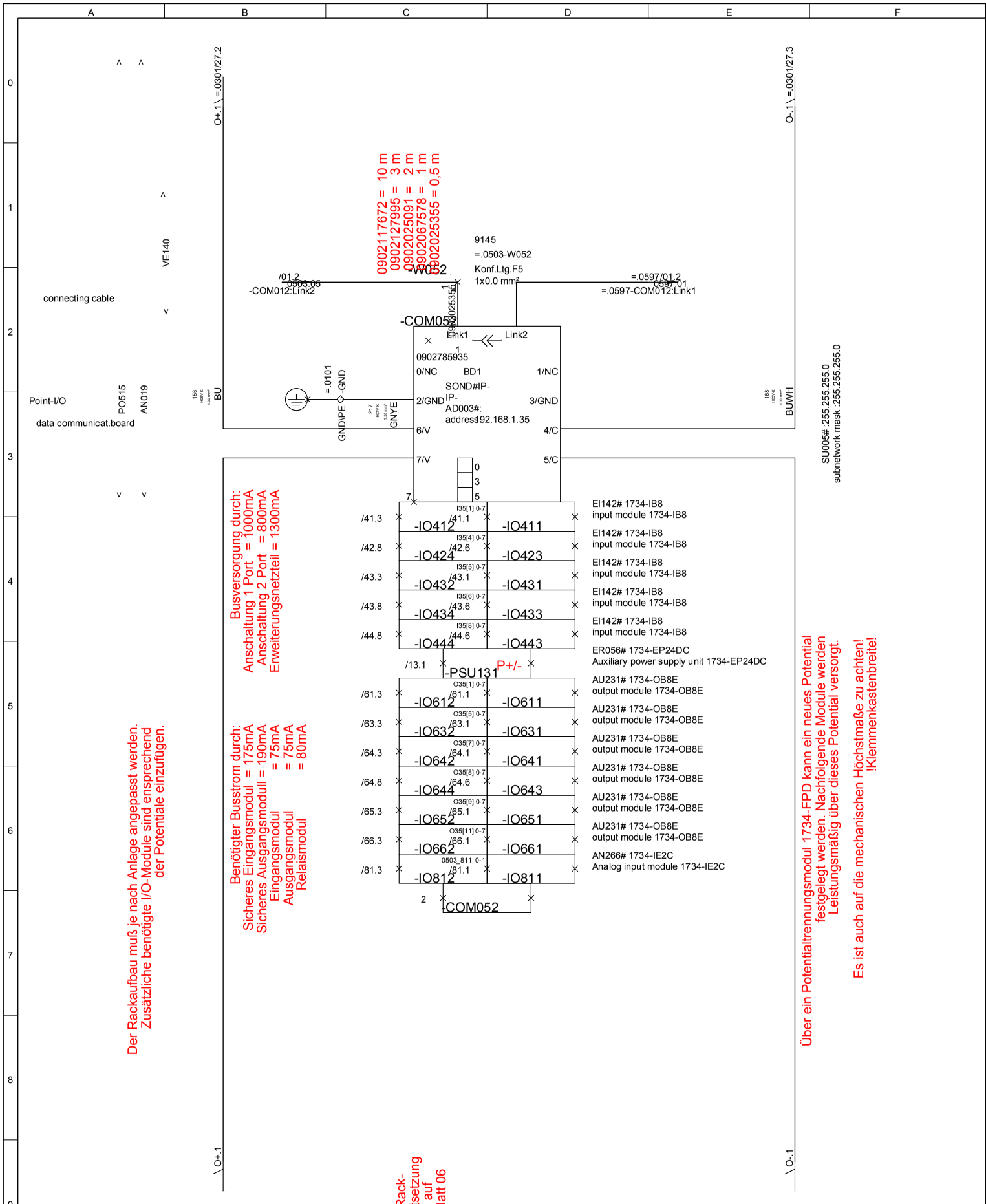


SP077
PLC overview

date	24.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+SK1	=FU1.0502
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 62 92/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 05/01032			

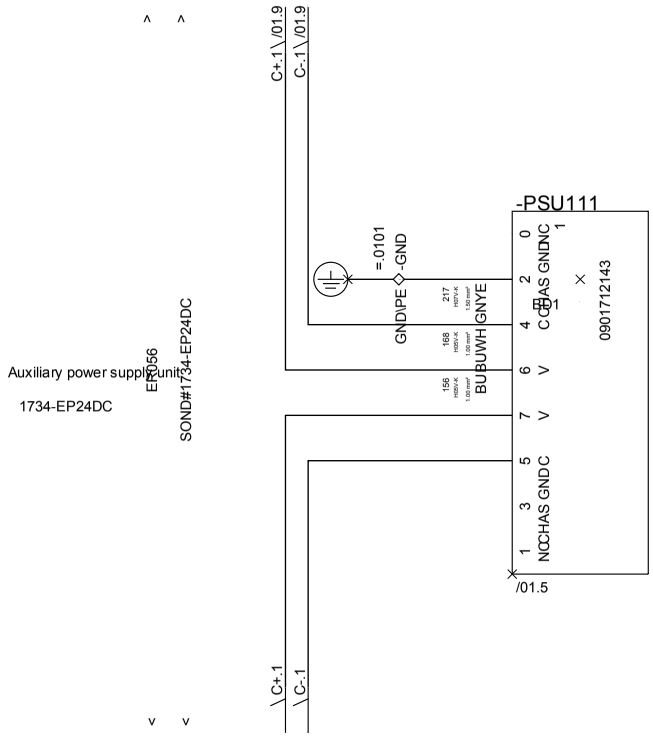


date	24.04.2013	machine type filler	KRONES	data communicat.board	equi. K123989	+SK1	=FU1.0503
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 01 93/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 05/01230			



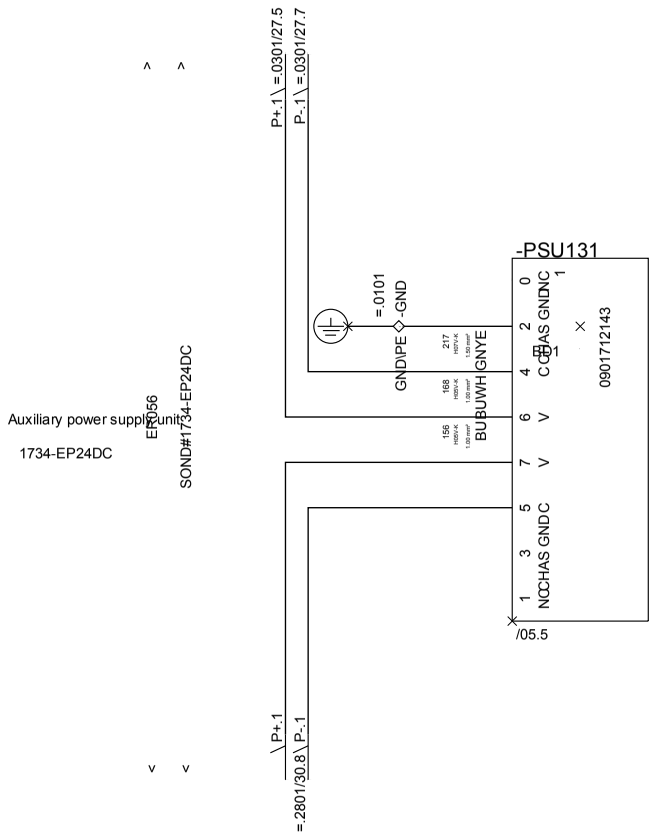
date	26.04.2013	machine type	filler	data communicat.board	equi. K123989	+SK1	=FU1.0503
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 05 94/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 05/01230			

KRONES



SP077
PLC overview

date	24.04.2013	machine type filler	KRONES	Feeder module	equi. K123989	+SK1	=FU1.0503
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 11 95/348
		version/ 02		SFT_FUG0_201301 05/01230			

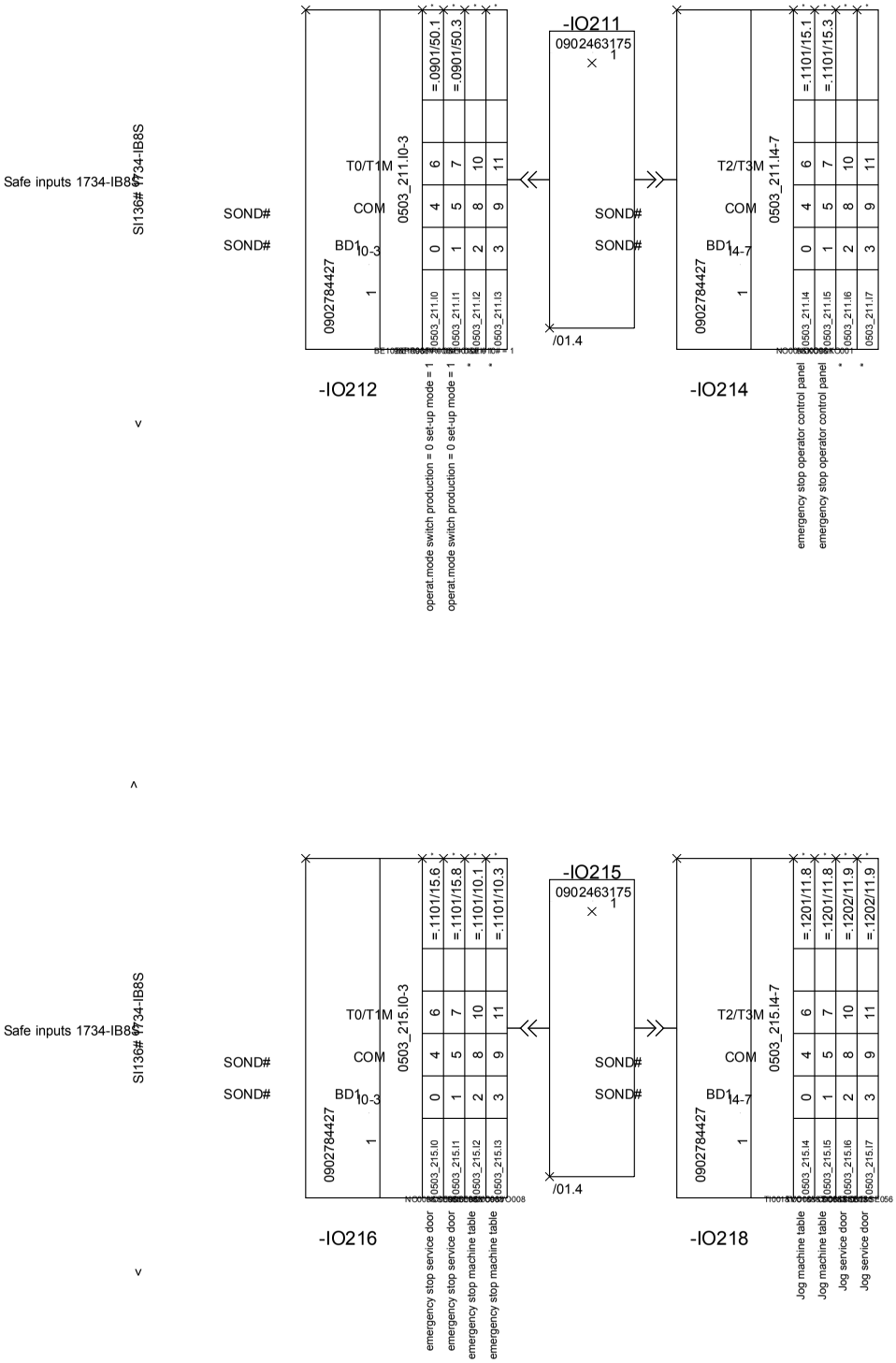


Auxiliary power supply unit
1734-EP24DC

EC0056
SOND#1734-EP24DC

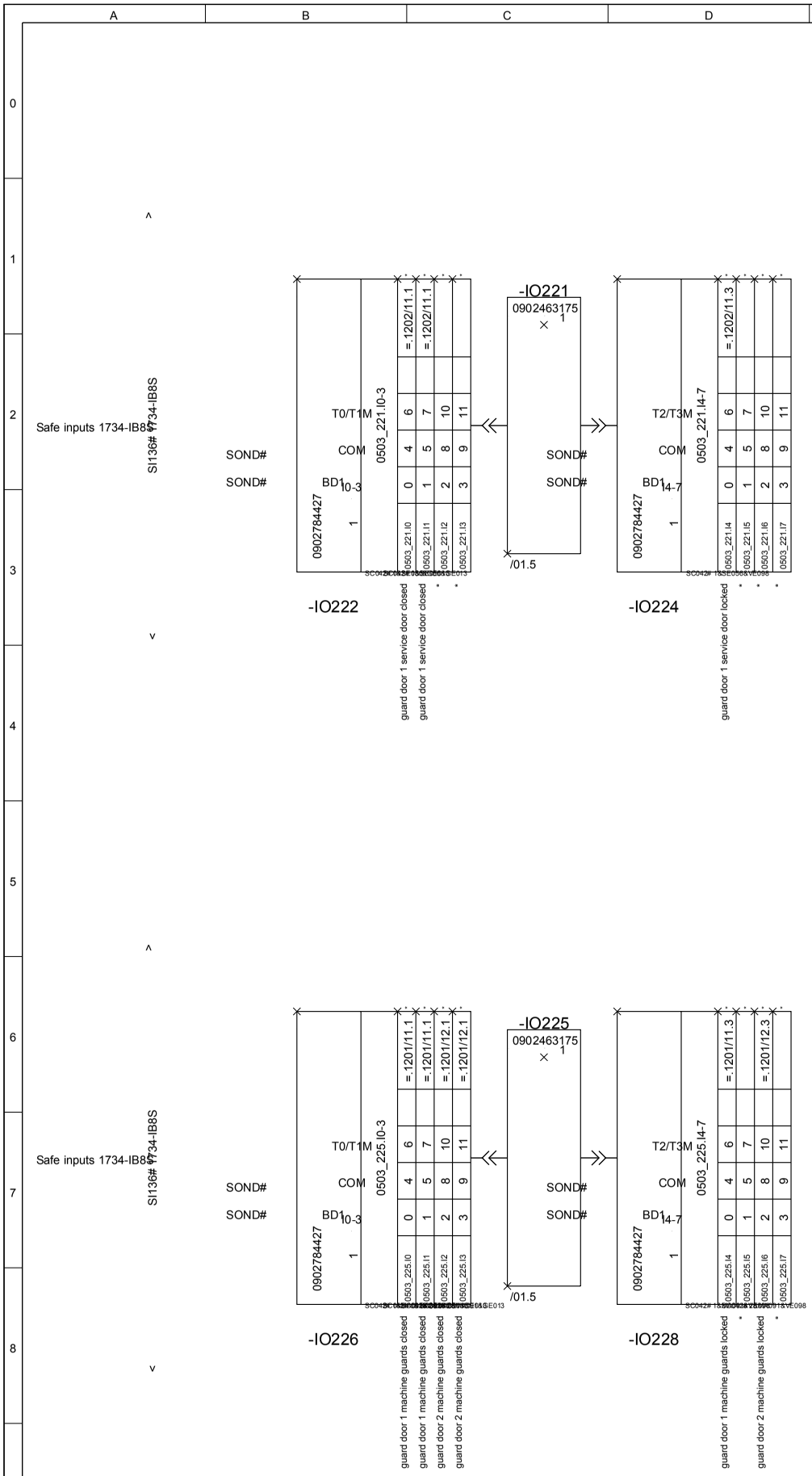
SP077
PLC overview

date	24.04.2013	machine type filler	KRONES	Feeder module	equi. K123989	+SK1	=FU1.0503
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 13 96/348
		version/ 02		SFT_FUG0_201301 05/01230			



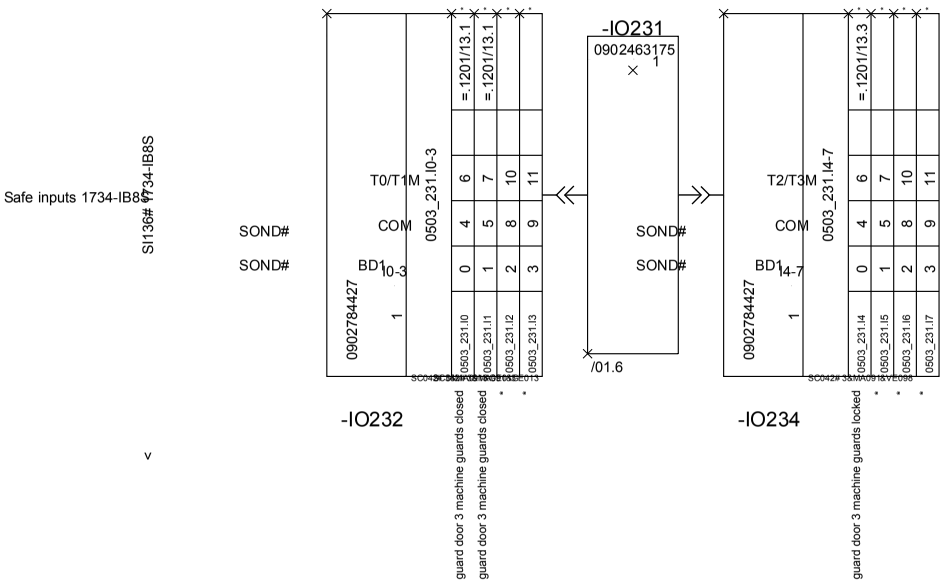
SP077
PLC overview

date	24.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+SK1	=FU1.0503
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 21 97/348
		version/ 02		SFT_FUG0_201301 05/01230			



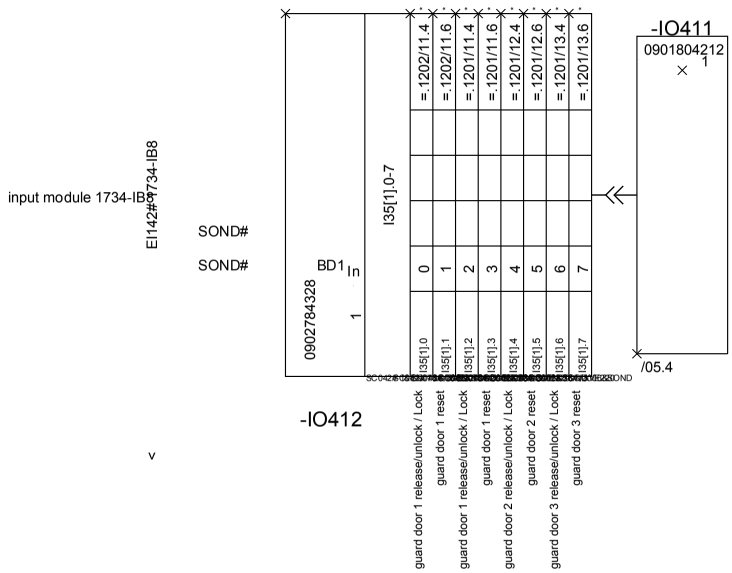
SP077
PLC overview

date	24.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+SK1	=FU1.0503
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 22 98/348
		version/ 02		SFT_FUG0_201301 05/01230			



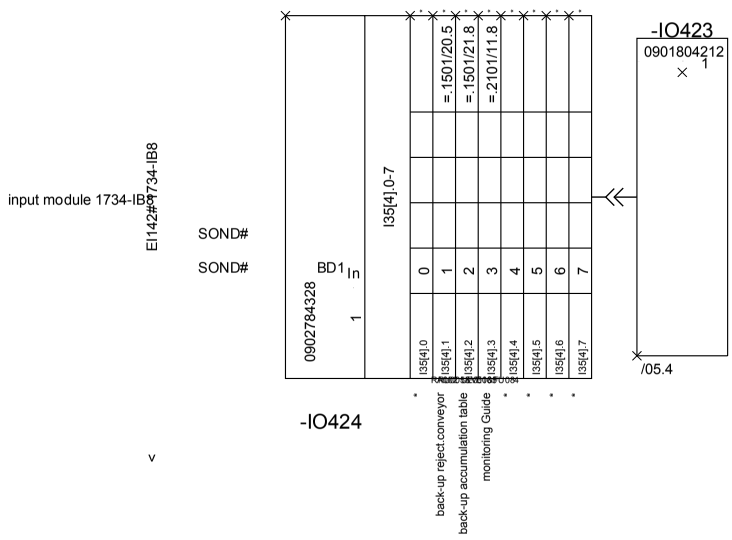
SP077
PLC overview

date	24.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+SK1	=FU1.0503
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 23 99/348
		version/ 02		SFT_FUG0_201301 05/01230			



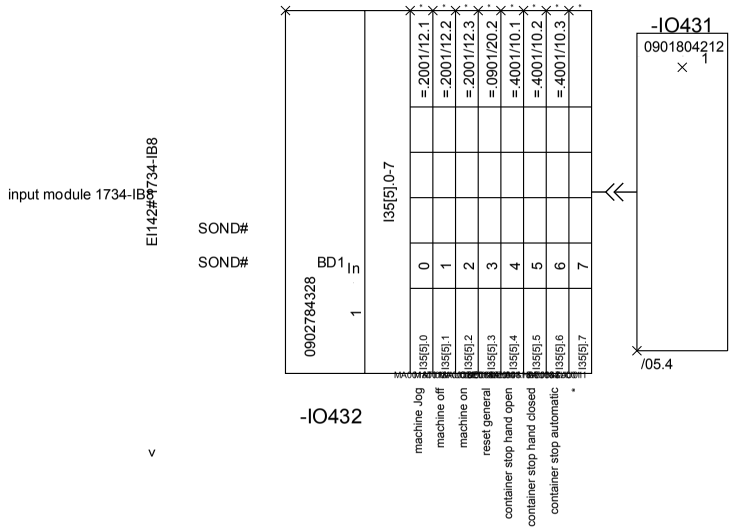
SP077
PLC overview

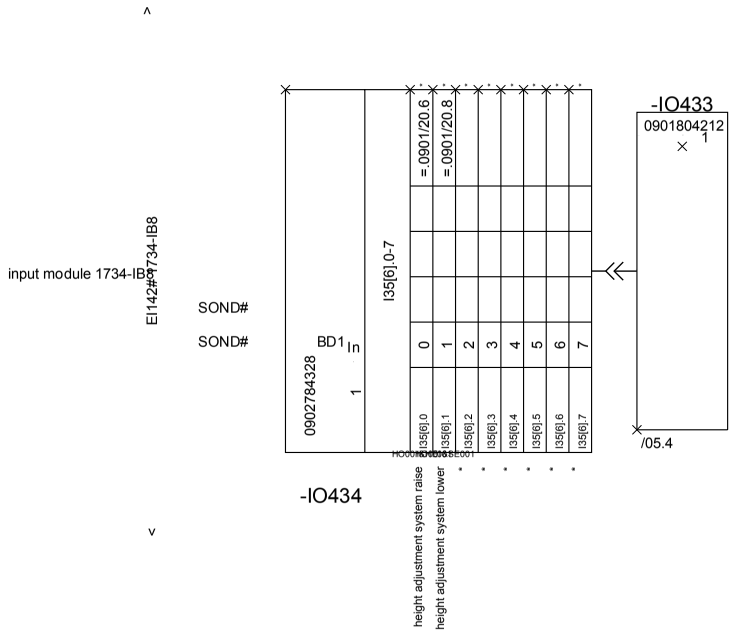
date	24.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+SK1	=FU1.0503
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 41 100/348
		version/ 02		SFT_FUG0_201301 05/01230			



SP077
PLC overview

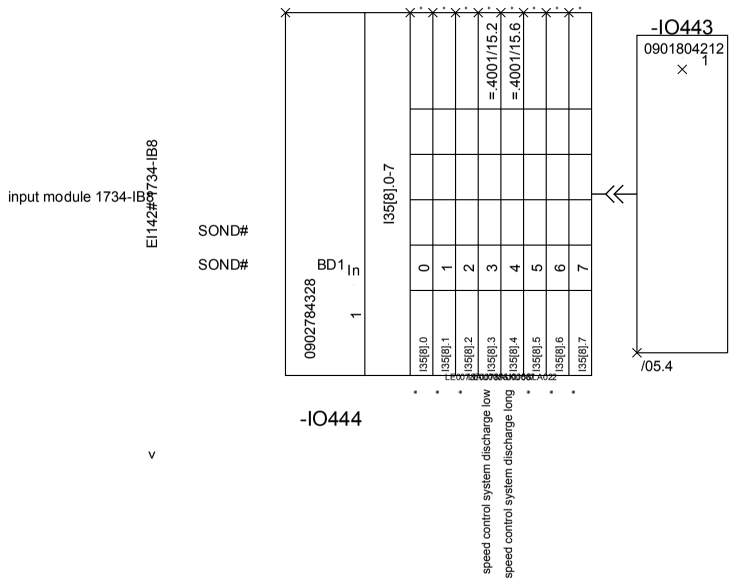
date	24.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+SK1	=FU1.0503
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 42 101/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 05/01230			





SP077
PLC overview

date	24.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+SK1	=FU1.0503
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 43 102/348
		version/ 02		SFT_FUG0_201301 05/01230			



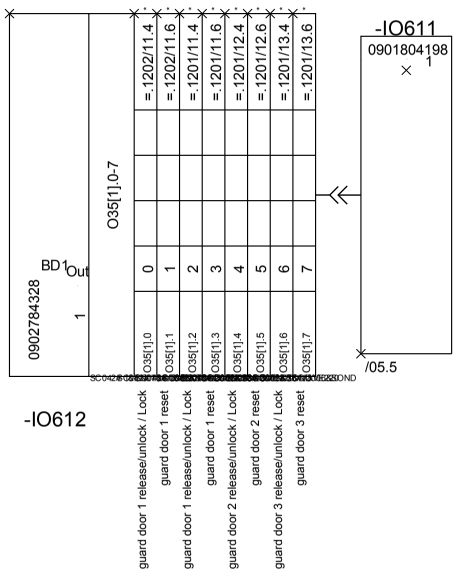
SP077
PLC overview

date	24.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+SK1	=FU1.0503
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 44 103/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 05/01230			

output module OB8E AU231# OB8E

SOND#

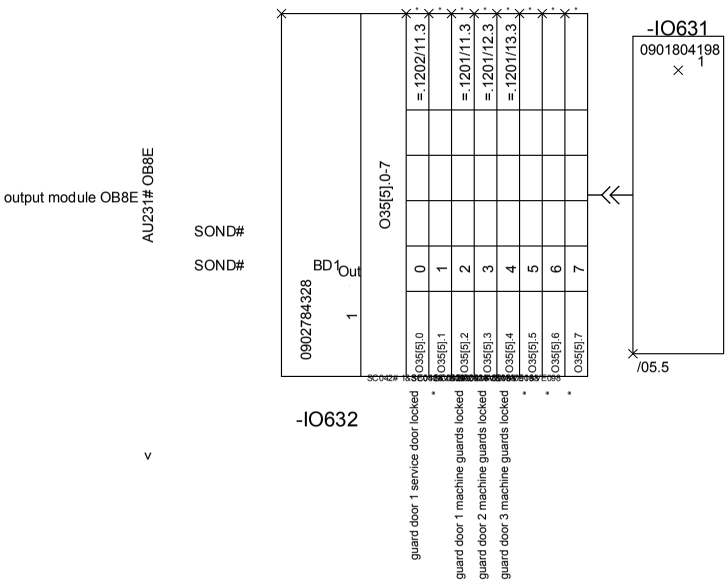
SOND#



-IO612

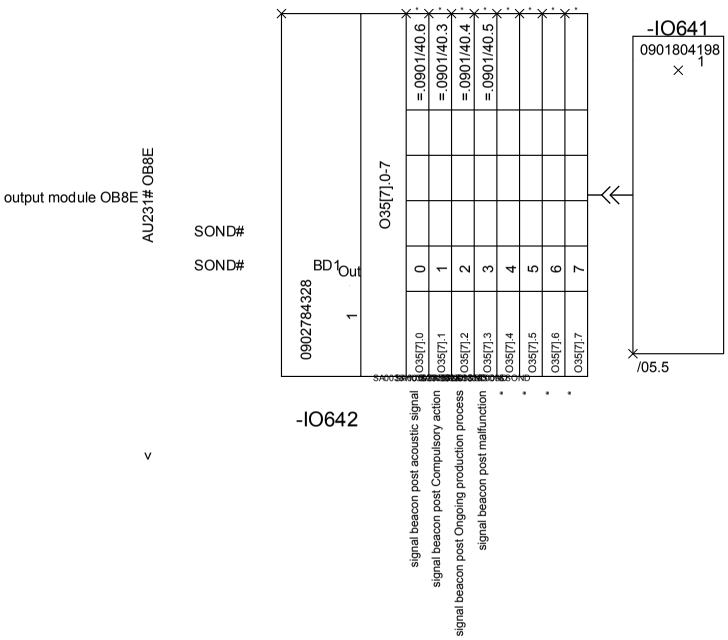
SP077
PLC overview

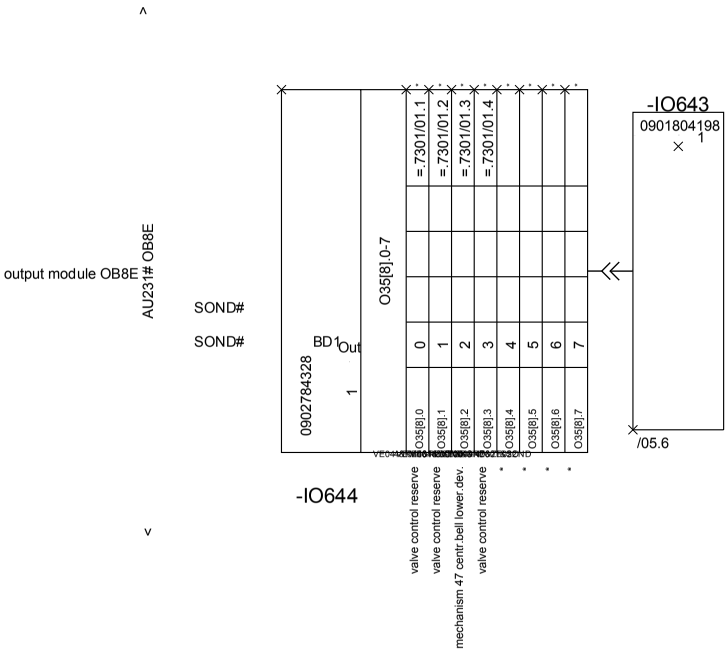
date	24.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+SK1	=FU1.0503
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 61 104/348
		version/ 02		SFT_FUG0_201301 05/01230			



SP077
PLC overview

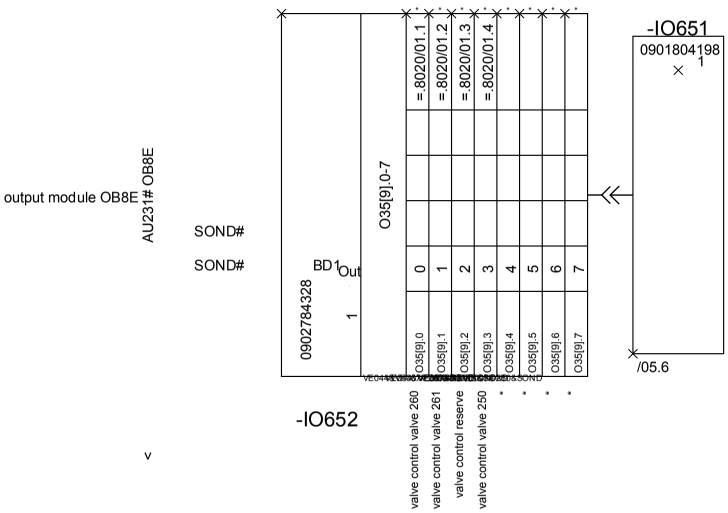
date	24.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+SK1	=FU1.0503
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 63 105/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 05/01230			





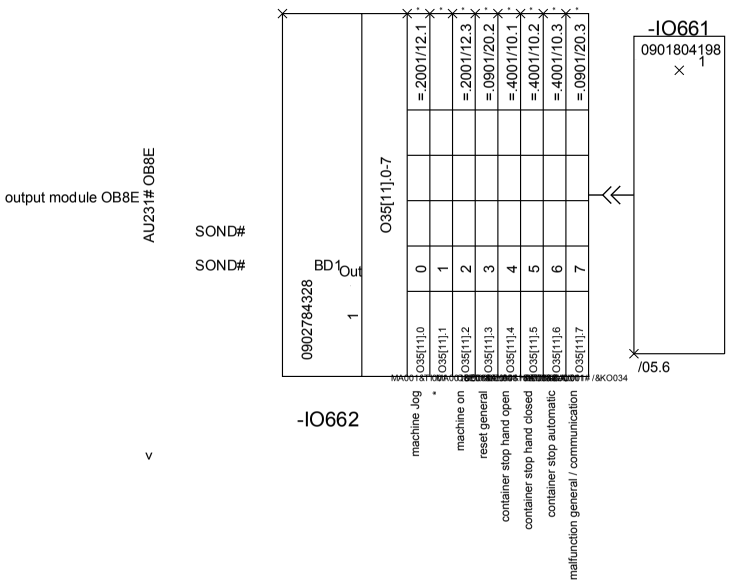
SP077
PLC overview

date	24.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+SK1	=FU1.0503
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 64 106/348
		version/ 02		SFT_FUG0_201301 05/01230			



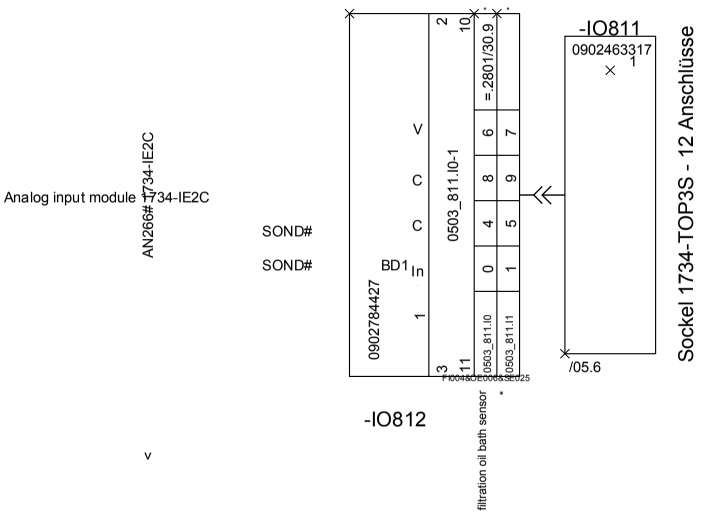
SP077
PLC overview

date	24.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+SK1	=FU1.0503
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 65 107/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 05/01230			



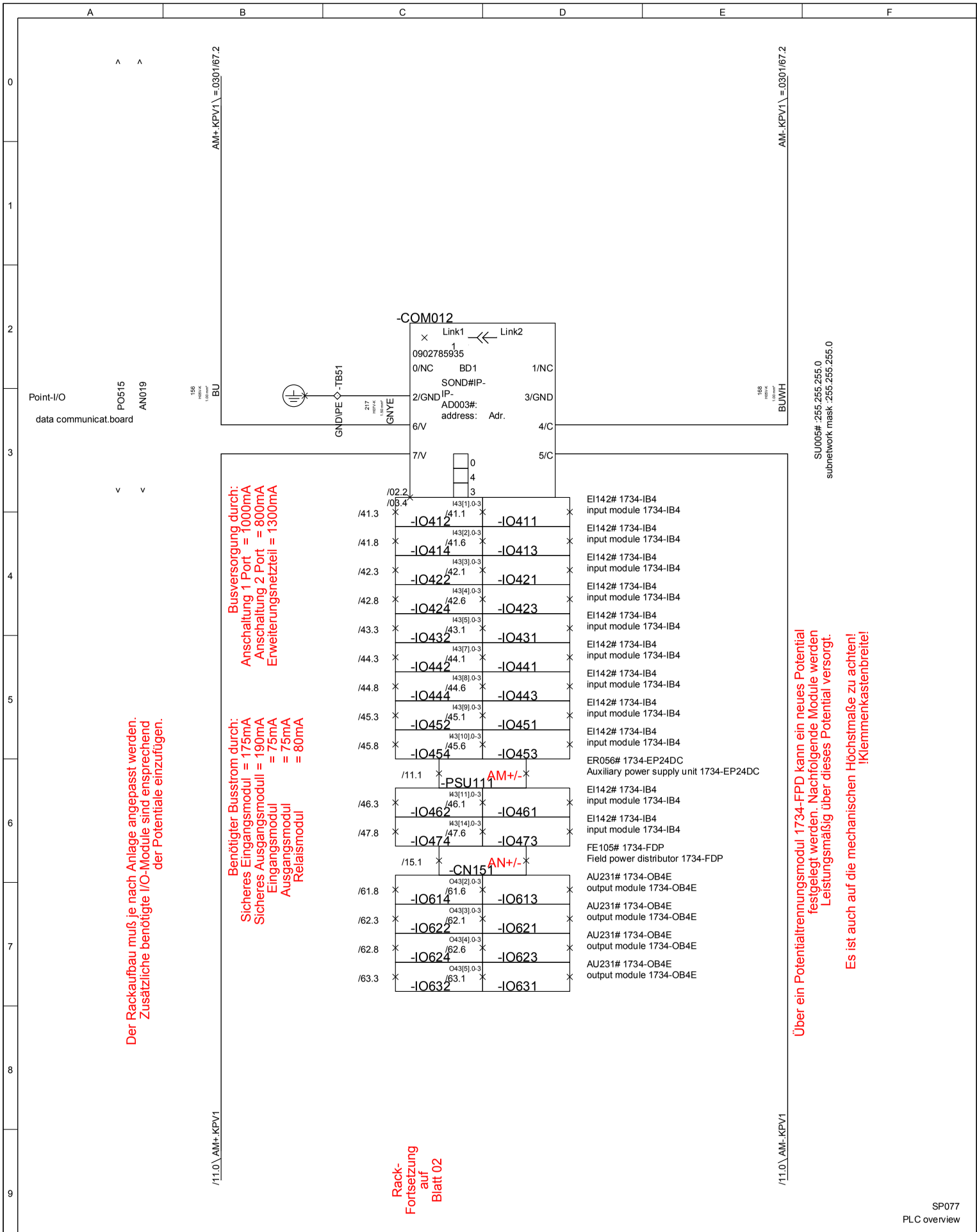
SP077
PLC overview

date	24.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+SK1	=FU1.0503
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 66 108/348
		version/ 02		SFT_FUG0_201301 05/01230			

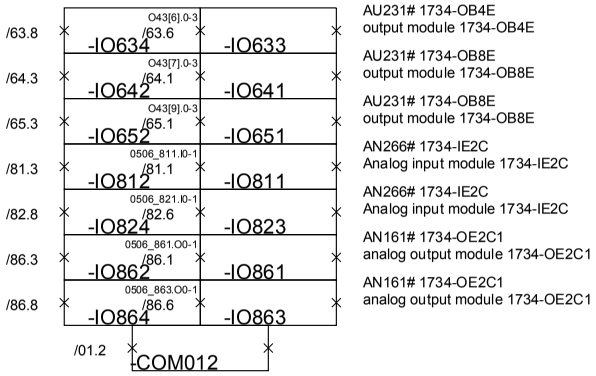


SP077
PLC overview

date	24.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+SK1	=FU1.0503
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 81 109/348
		version/ 02		SFT_FUG0_201301 05/01230			



date	23.04.2013	machine type filler	KRONES	data communicat.board	equi. K123989	+KPV1	=FU1.0506
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 01 110/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 05/01061			



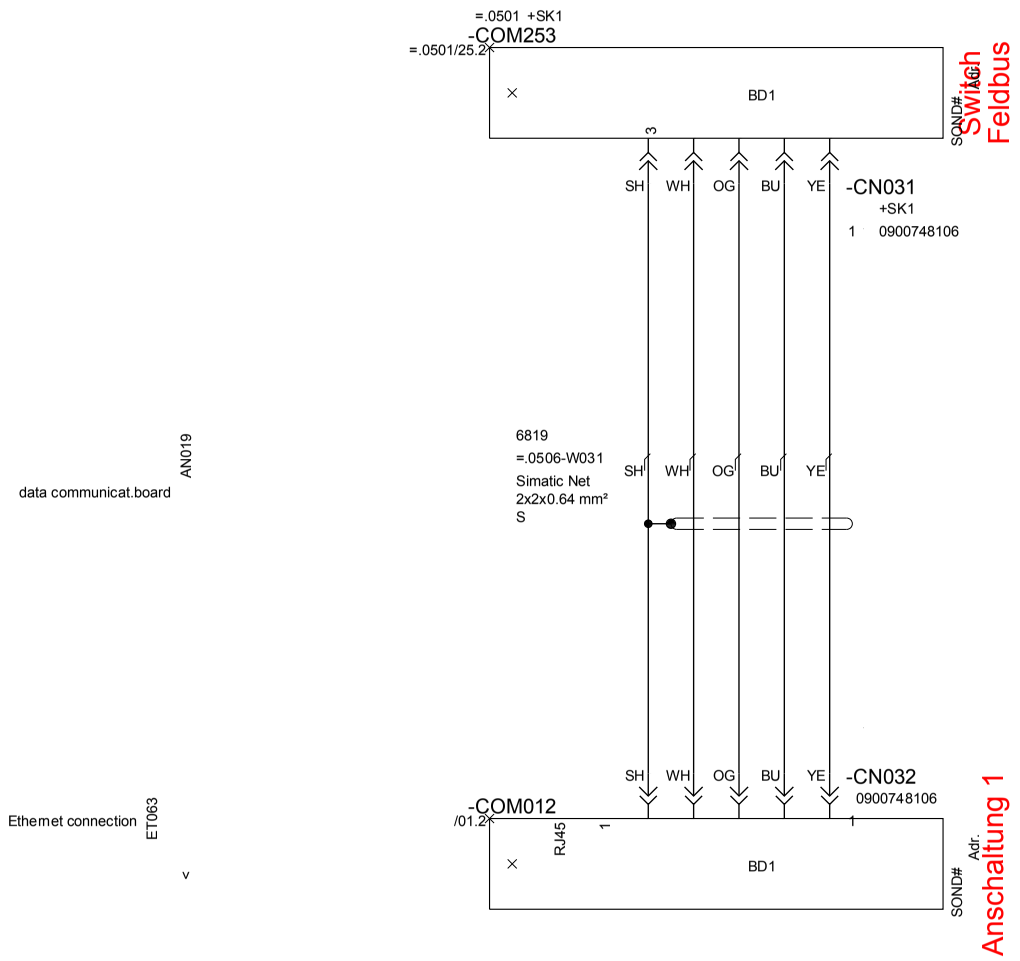
Der Rackaufbau muß je nach Anlage angepasst werden.
Zusätzliche benötigte I/O-Module sind ensprechend der Potentiale einzufügen.

Über ein Potentialtrennungsmodul 1734-FPD kann ein neues Potential festgelegt werden. Nachfolgende Module werden Leistungsmäßig über dieses Potential versorgt.

Es ist auch auf die mechanischen Höchstmaße zu achten!
!Klemmenkastenbreite!

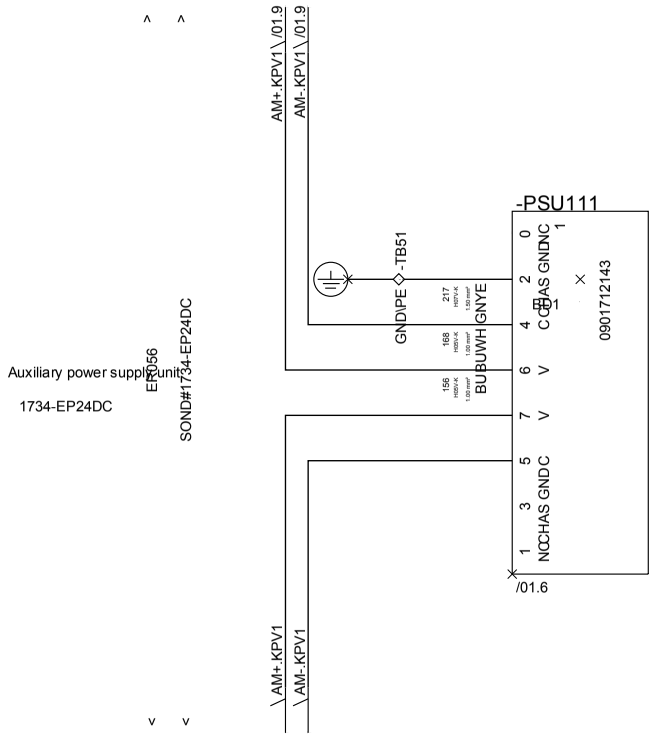
SP077
PLC overview

date	23.04.2013	machine type filler	KRONES	data communicat.board	equi. K123989	+KPV1	=FU1.0506
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 02 111/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 05/01061			



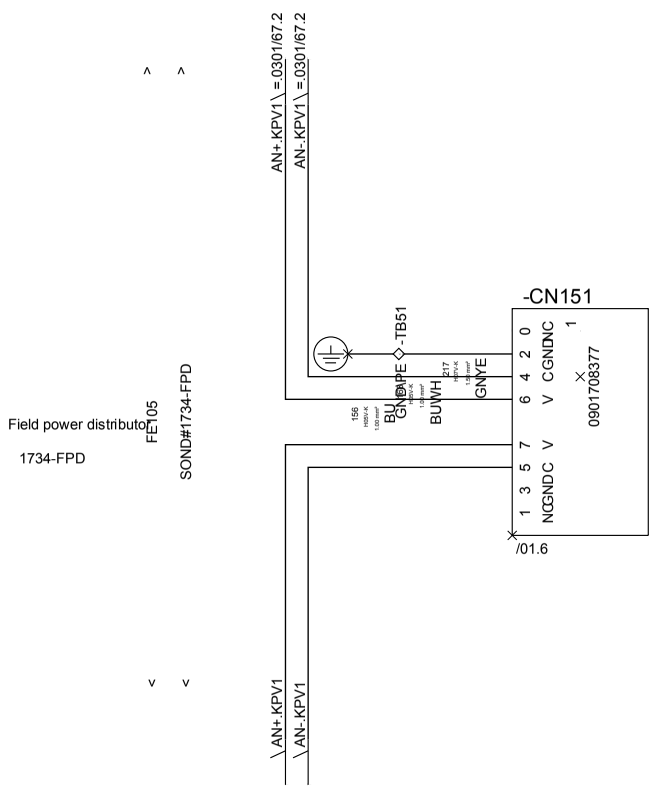
SP077
PLC overview

date	31.05.2013	machine type filler	KRONES	Ethernet connection	equi. K123989	+KPV1	=FU1.0506
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 03 112/348
		version/ 02		SFT_FUG0_201301 05/01061			



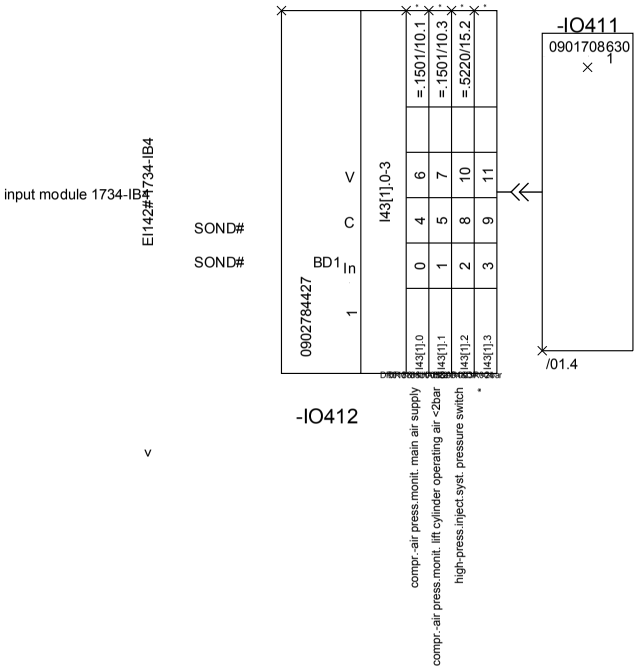
SP077
PLC overview

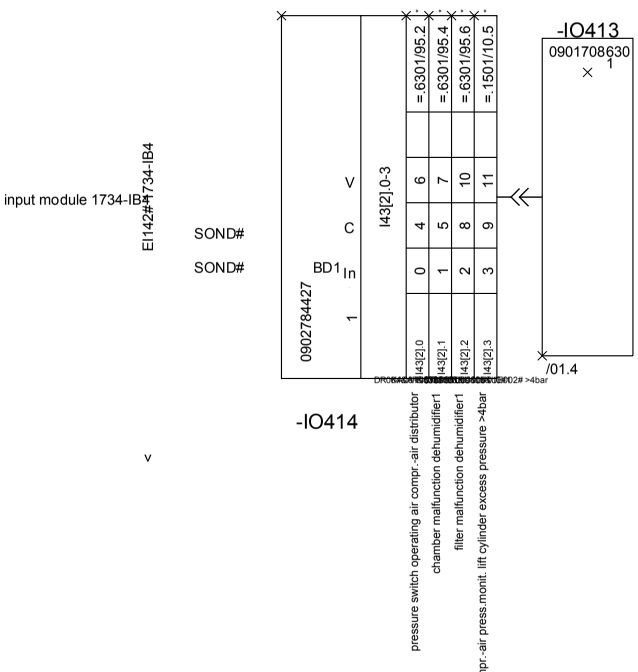
date	23.04.2013	machine type filler	KRONES	Feeder module	equi. K123989	+KPV1	=FU1.0506
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 11 113/348
		version/ 02		SFT_FUG0_201301 05/01061			



SP077
PLC overview

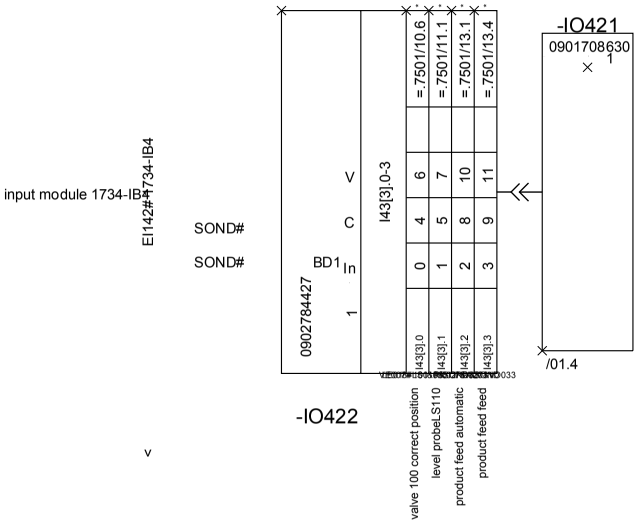
date	24.04.2013	machine type filler		Feeder module	equi. K123989	+KPV1	=FU1.0506
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS	KRONES	client Lagunitas Brewing Company	K123989-001	STR	sheet 15 114/348
		version/ 02		SFT_FUG0_201301 05/01061			

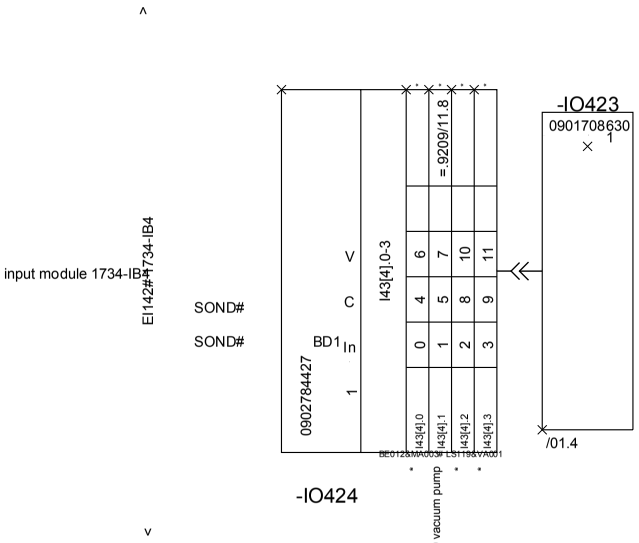




SP077
PLC overview

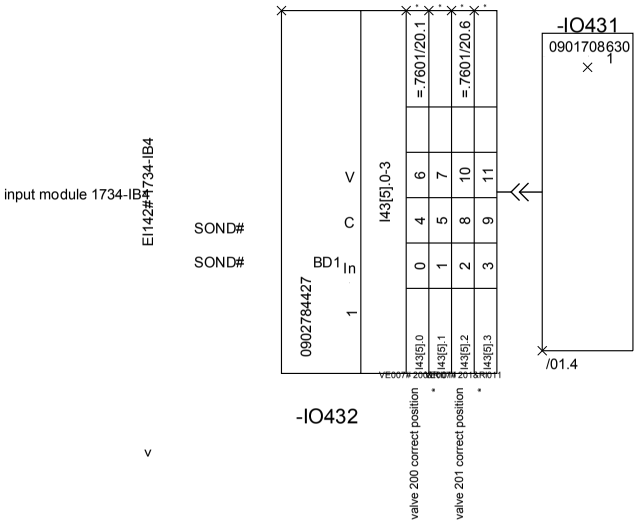
date	23.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+KPV1	=FU1.0506
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 41 115/348
		version/ 02		SFT_FUG0_201301 05/01061			





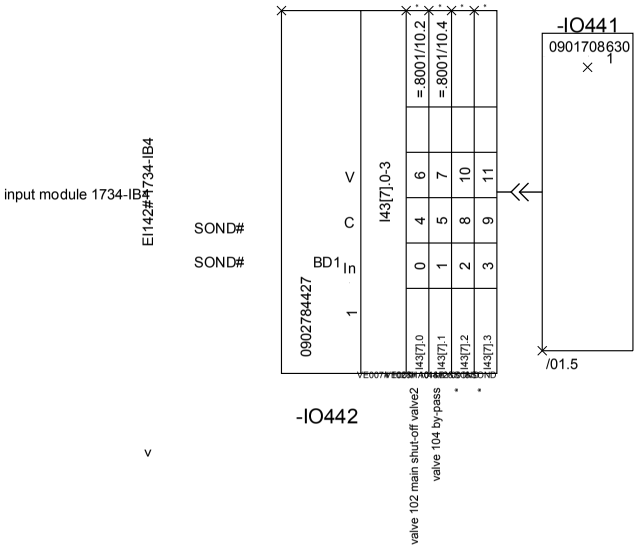
SP077
PLC overview

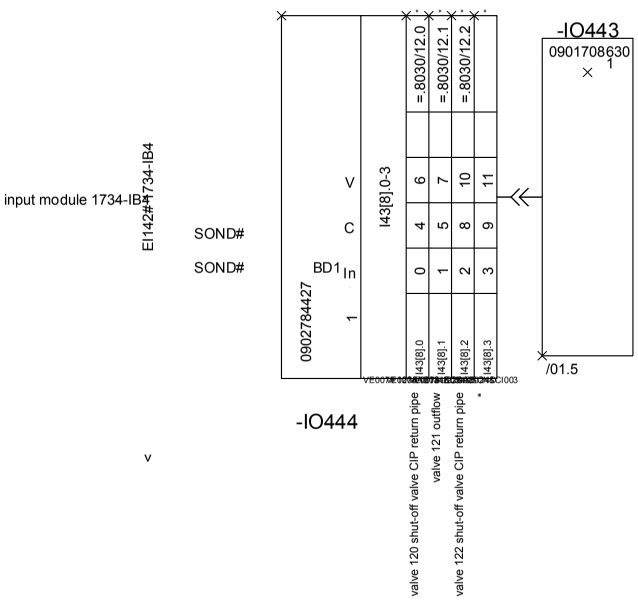
date	23.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+KPV1	=FU1.0506
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 42 116/348
		version/ 02		SFT_FUG0_201301 05/01061			



SP077
PLC overview

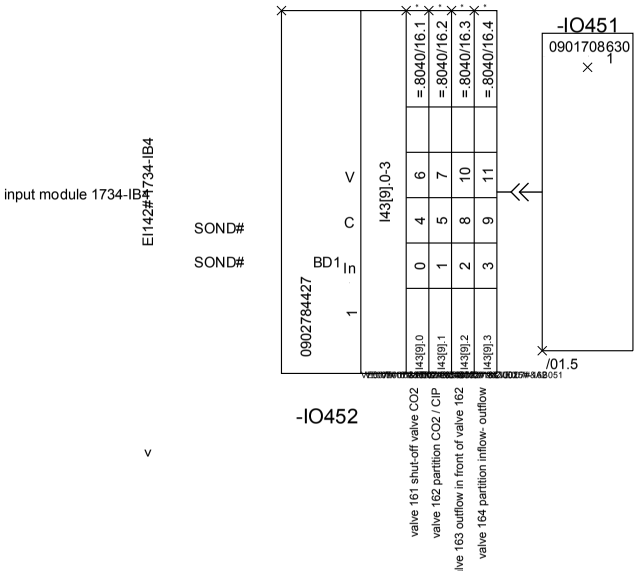
date	23.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+KPV1	=FU1.0506
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 43 117/348
		version/ 02		SFT_FUG0_201301 05/01061			

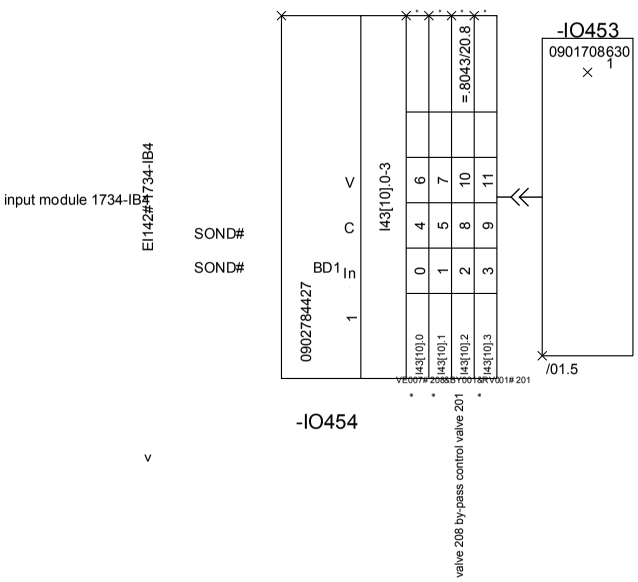




SP077
PLC overview

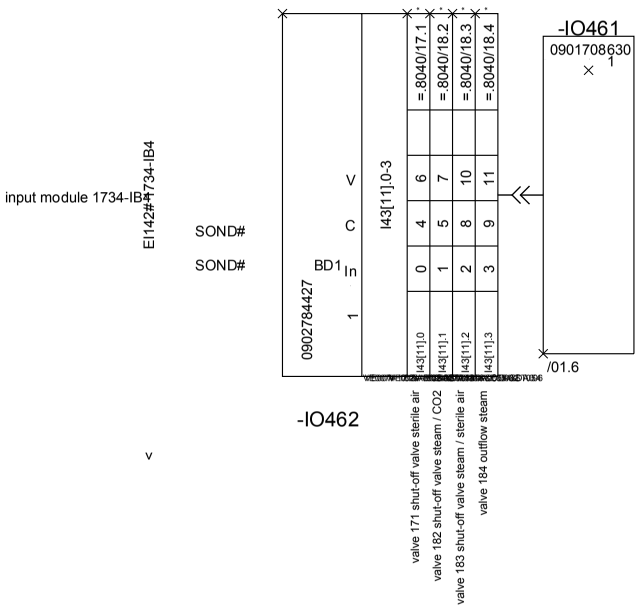
date	23.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+KPV1	=FU1.0506
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 44 118/348
		version/ 02		SFT_FUG0_201301 05/01061			





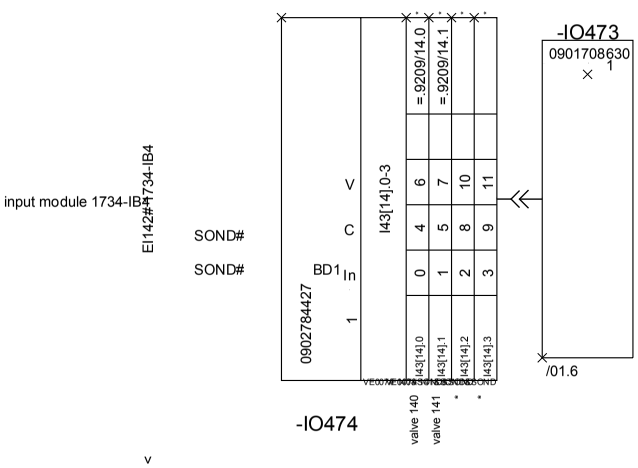
SP077
PLC overview

date	18.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+KPV1	=FU1.0506
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 45 119/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 05/01061			



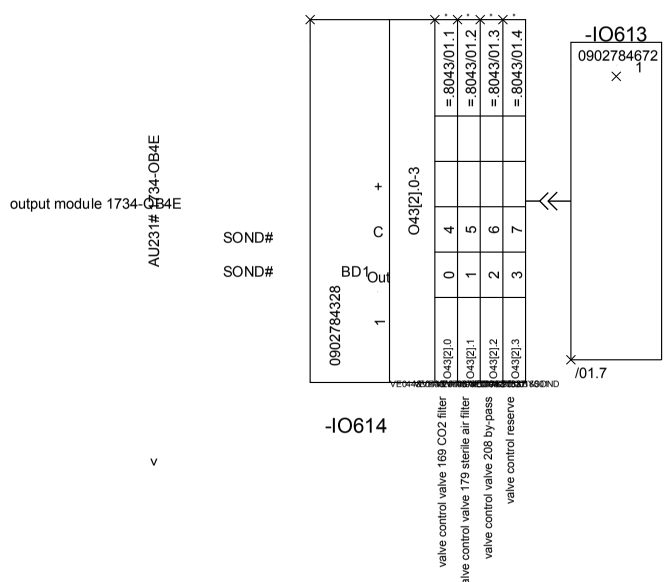
SP077
PLC overview

date	23.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+KPV1	=FU1.0506
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 46 120/348
		version/ 02		SFT_FUG0_201301 05/01061			



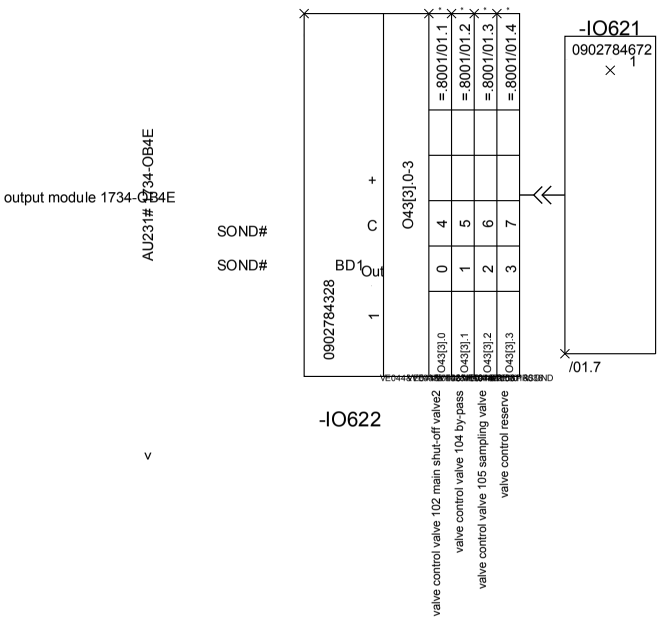
SP077
PLC overview

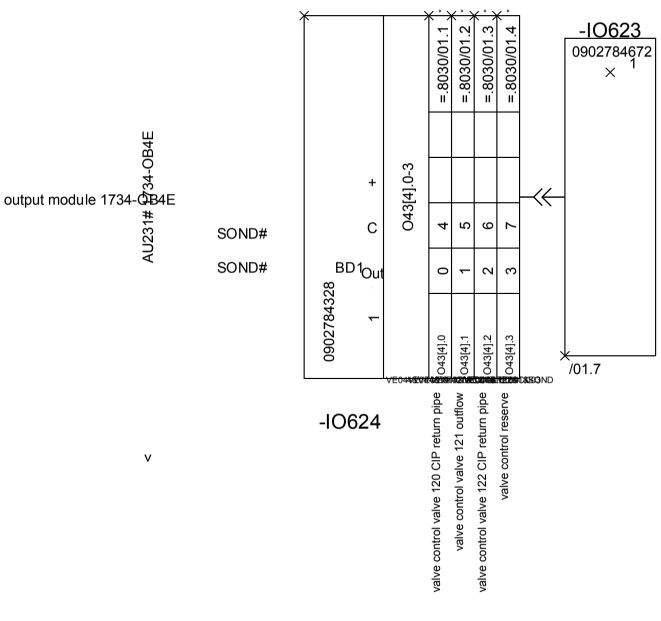
date	23.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+KPV1	=FU1.0506
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 47 121/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 05/01061			



SP077
PLC overview

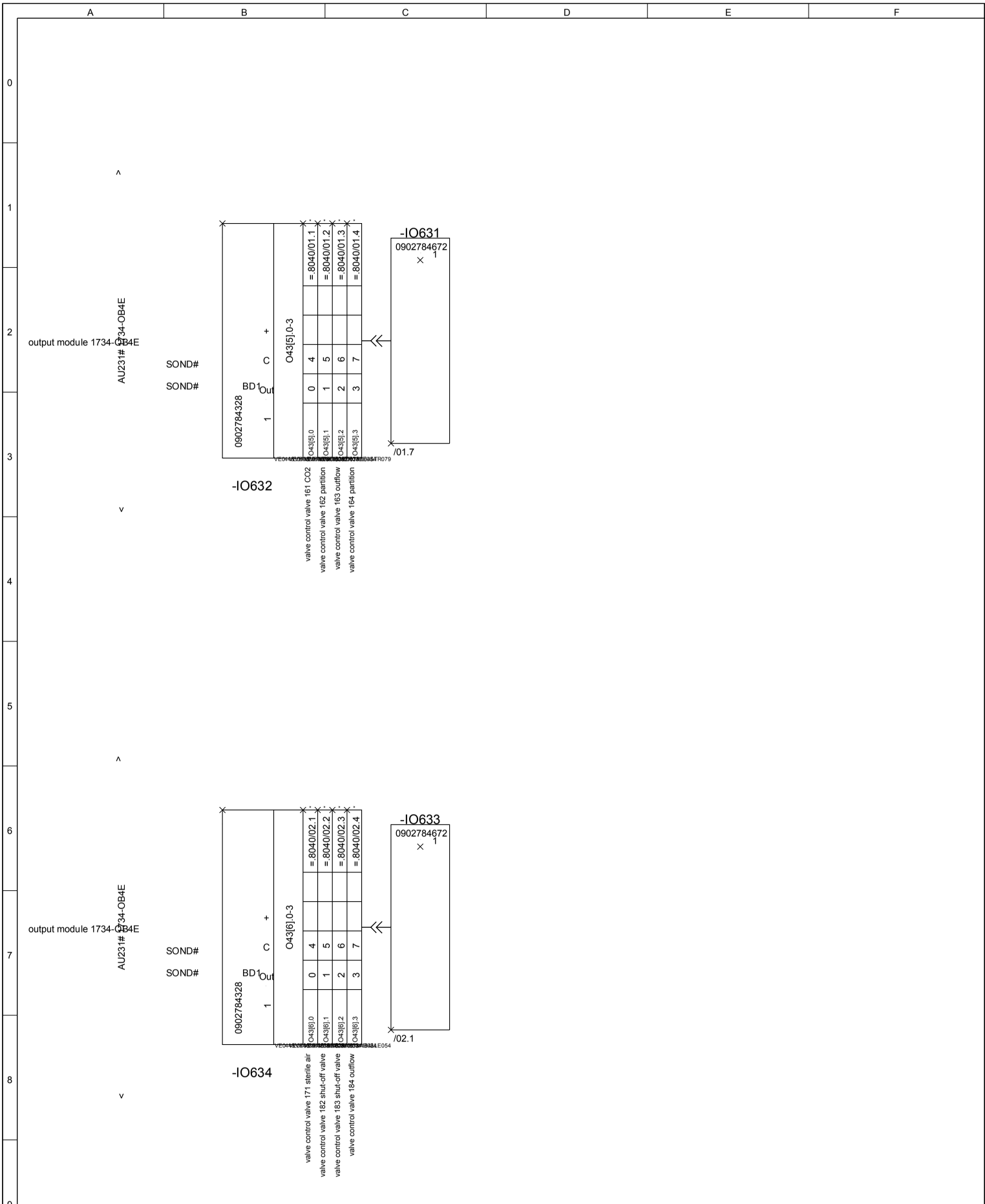
date	23.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+KPV1	=FU1.0506
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 61 122/348
		version/ 02		SFT_FUG0_201301 05/01061			





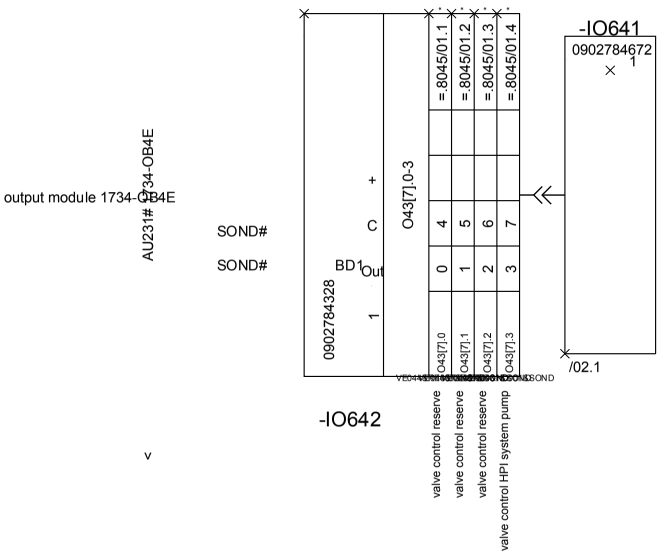
SP077
PLC overview

date	23.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+KPV1	=FU1.0506
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 62 123/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 05/01061			



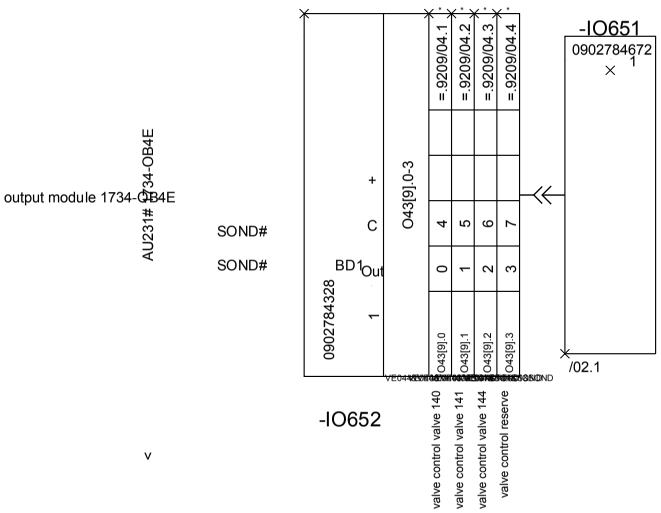
SP077
PLC overview

date	23.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+KPV1	=FU1.0506
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 63 124/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 05/01061			



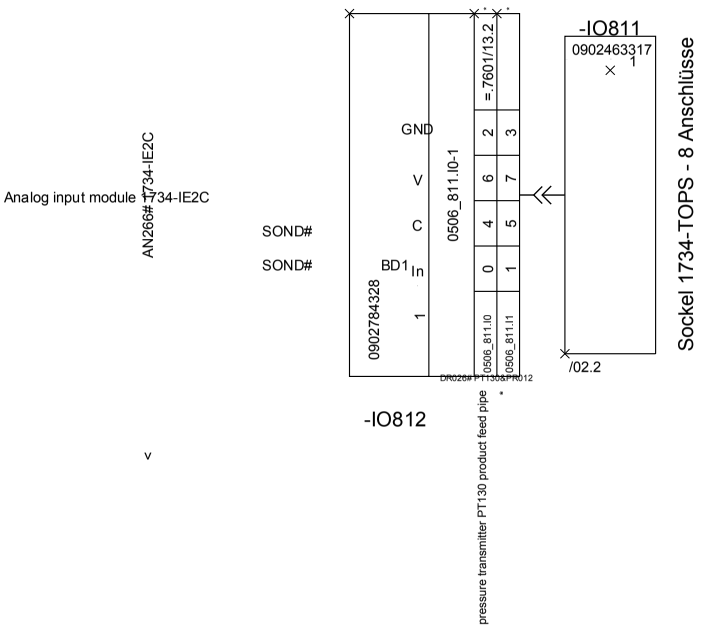
SP077
PLC overview

date	23.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+KPV1	=FU1.0506
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 64 125/348
		version/ 02		SFT_FUG0_201301 05/01061			



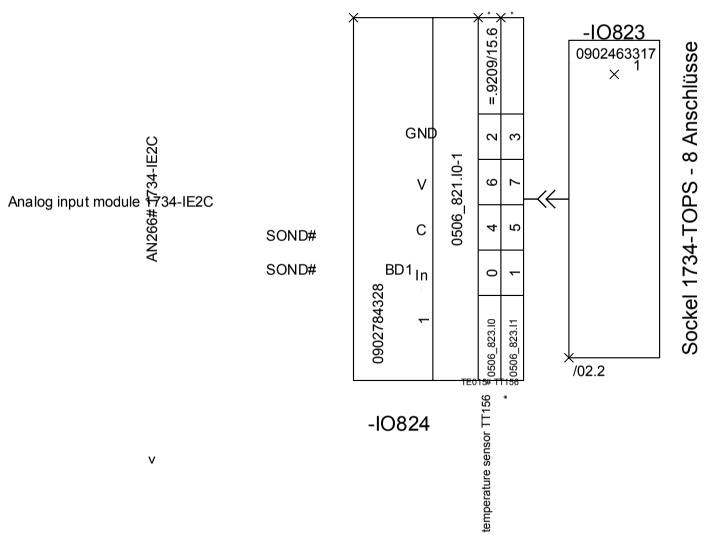
SP077
PLC overview

date	23.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+KPV1	=FU1.0506
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 65 126/348
		version/ 02		SFT_FUG0_201301 05/01061			



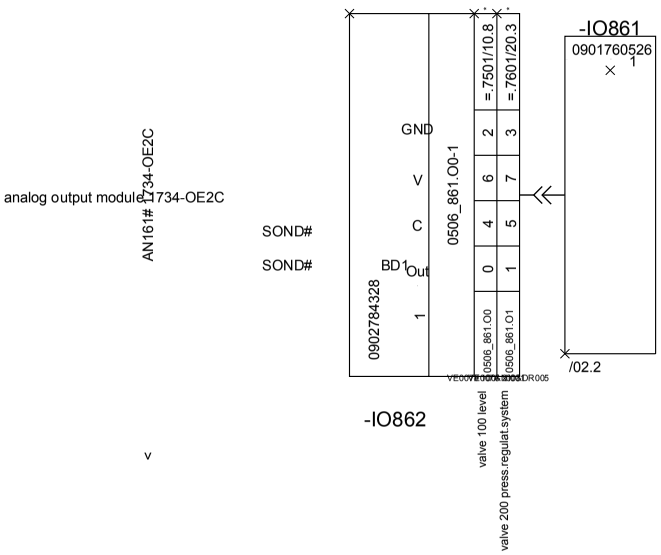
SP077
PLC overview

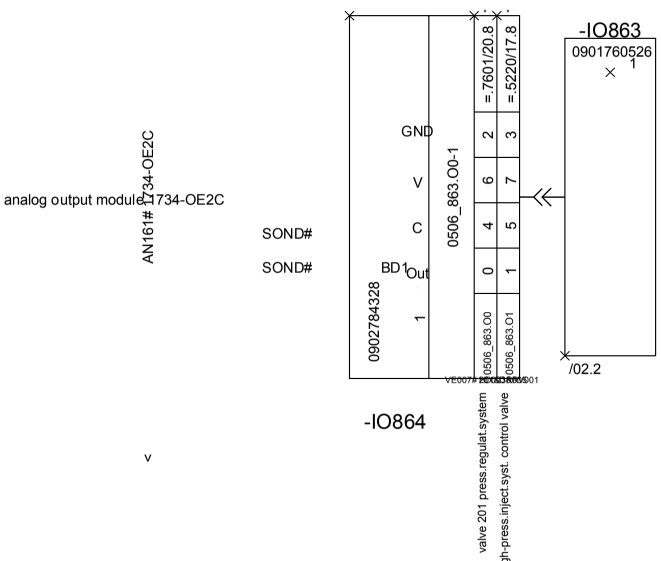
date	23.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+KPV1	=FU1.0506
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 81 127/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 05/01061			



SP077
PLC overview

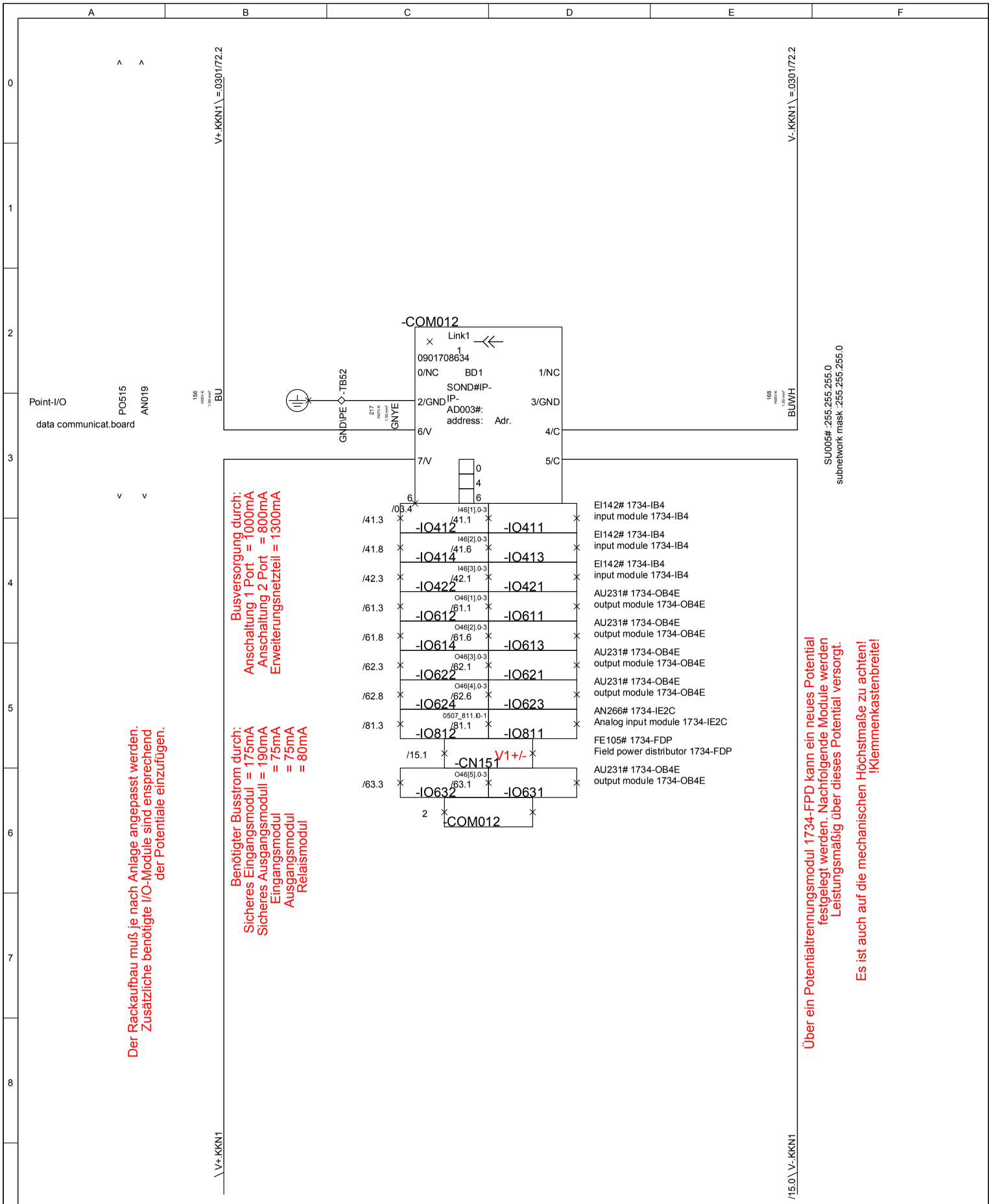
date	23.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+KPV1	=FU1.0506
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 82 128/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 05/01061			





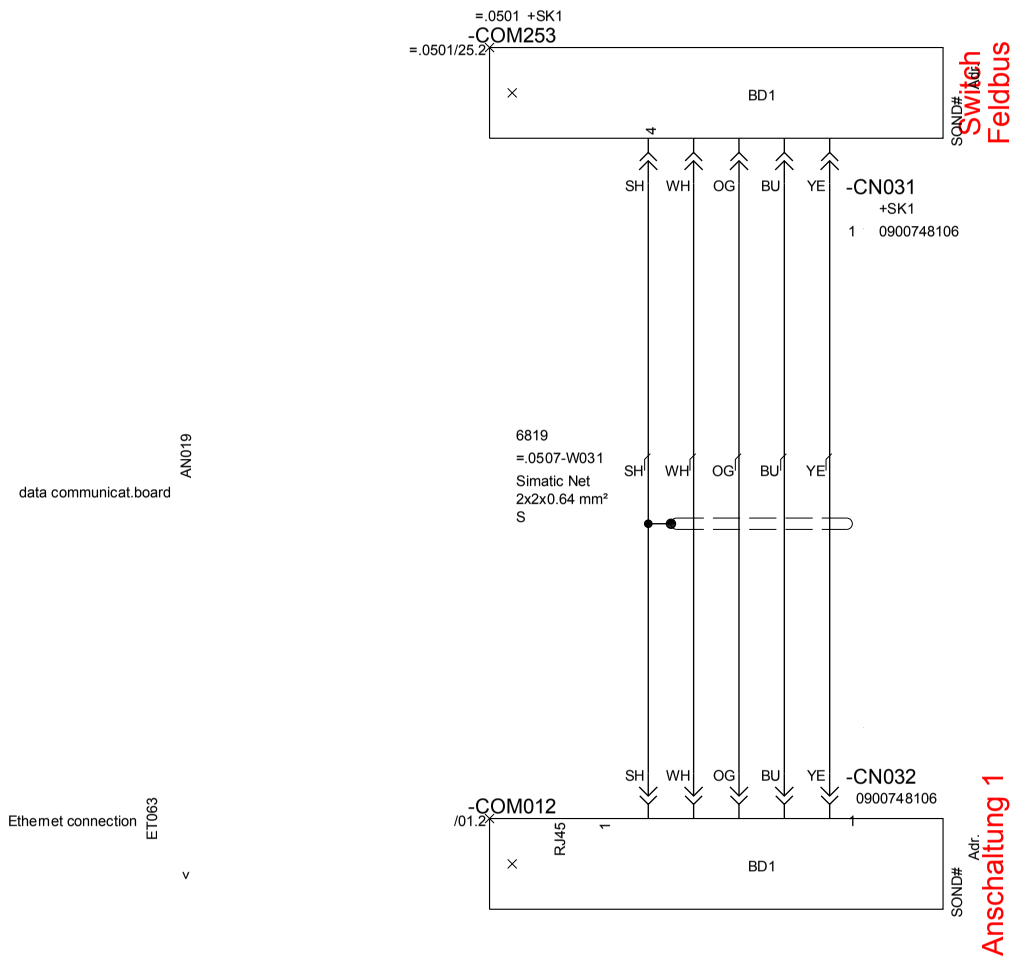
SP077
PLC overview

date	23.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+KPV1	=FU1.0506
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 86 129/348
		version/ 02		SFT_FUG0_201301 05/01061			



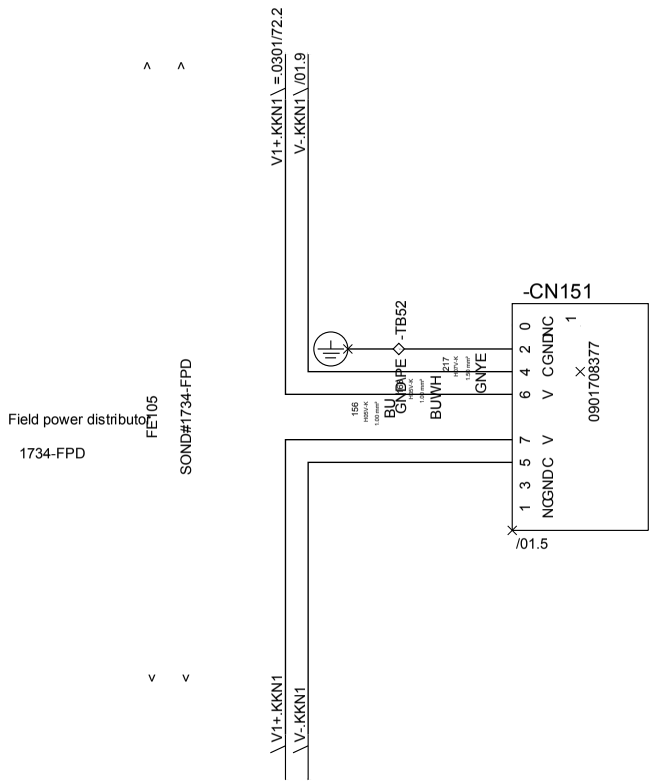
date	23.04.2013	machine type	filler	data communicat.board	equi. K123989	+KKN1	=FU1.0507
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 01 130/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 05/01070			

KRONES



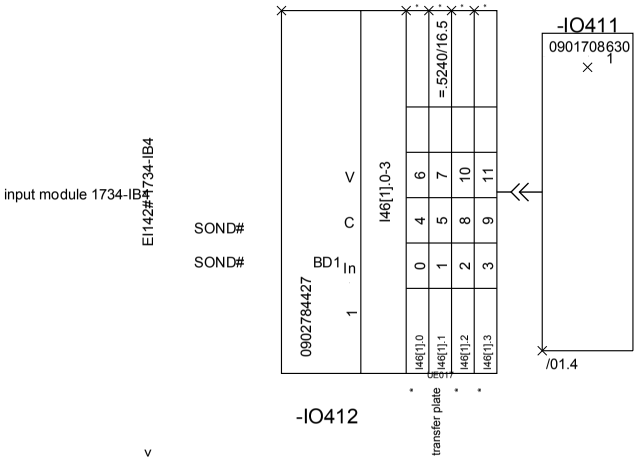
SP077
PLC overview

date	31.05.2013	machine type filler	KRONES	Ethernet connection	equi. K123989	+KKN1	=FU1.0507
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 03 131/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 05/01070			



SP077
PLC overview

date	18.04.2013	machine type filler		Feeder module	equi. K123989	+KKN1	=FU1.0507
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS	KRONES	client	K123989-001	STR	sheet 15 132/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 05/01070			

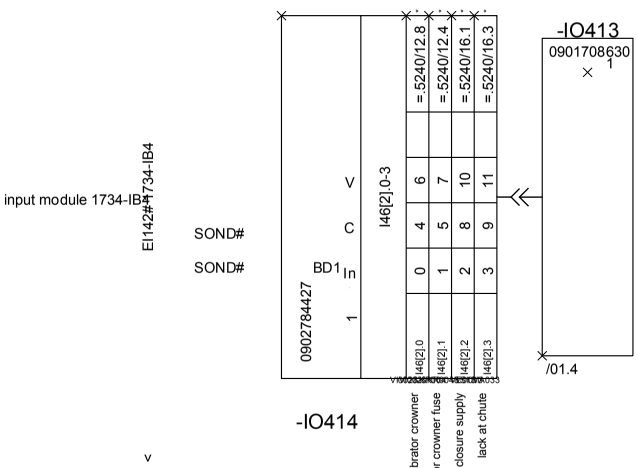


input module 1734-IB4

EI142#1734-IB4

SOND#

SOND#



input module 1734-IB4

EI142#1734-IB4

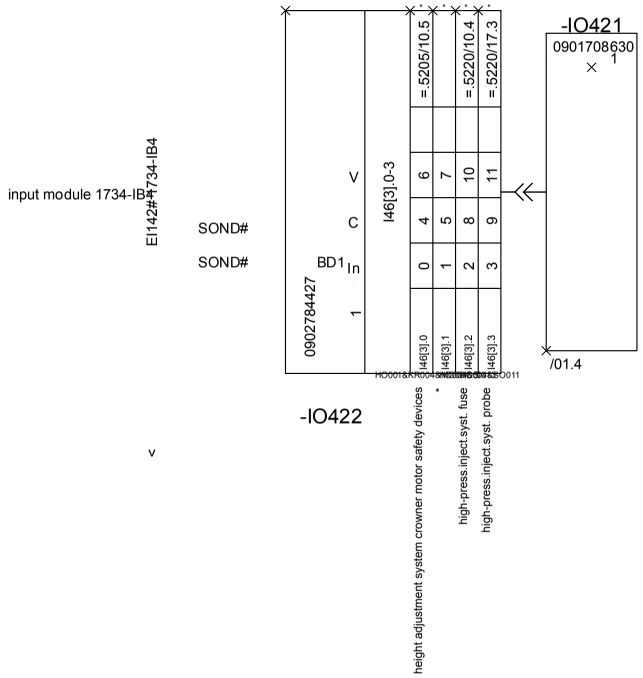
SOND#

SOND#

SP077
PLC overview

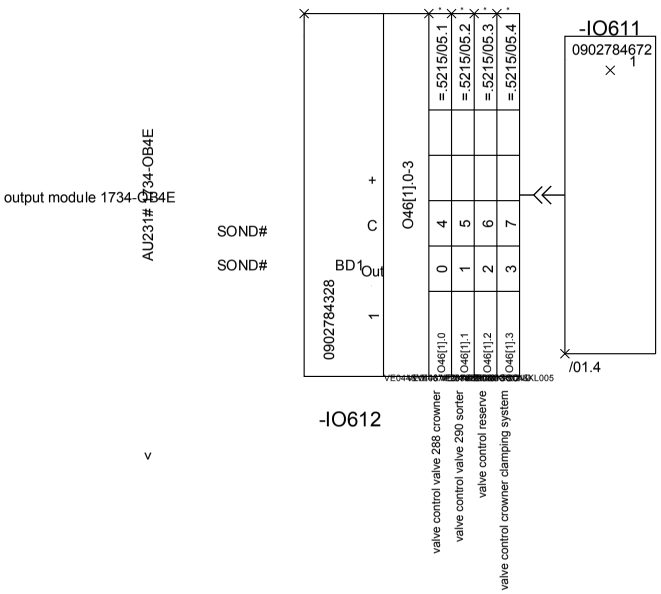
date	23.04.2013	machine type	filler	inp./outp.board assign.	equi. K123989	+KKN1	=FU1.0507
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 41 133/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 05/01070			

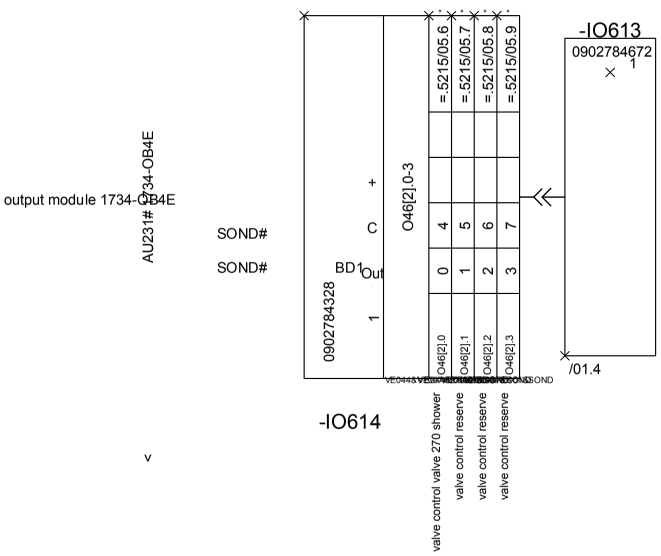
KRONES



SP077
PLC overview

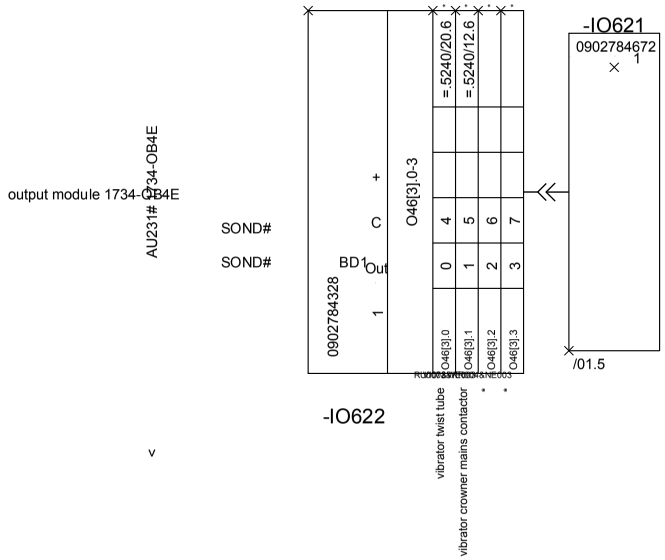
date	23.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+KKN1	=FU1.0507
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 42 134/348
		version/ 02		SFT_FUG0_201301 05/01070			

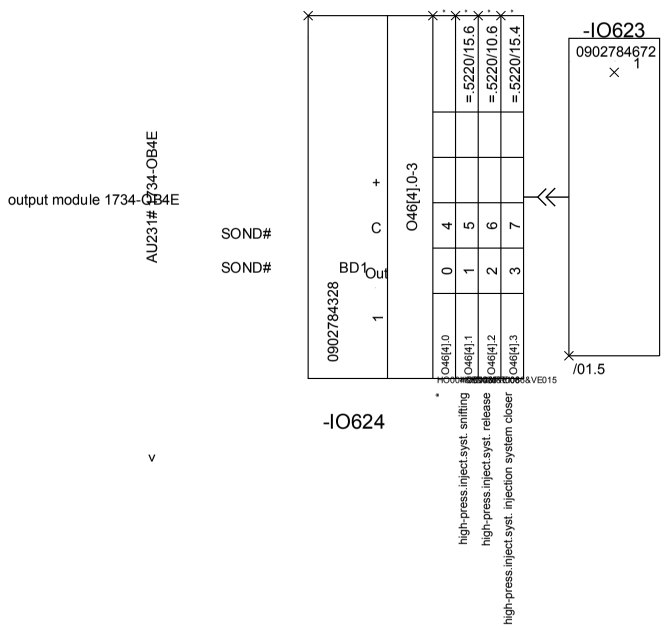




SP077
PLC overview

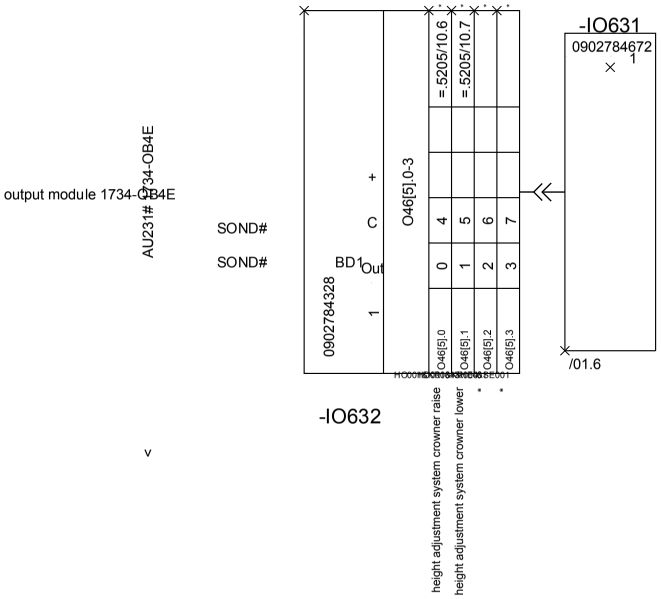
date	23.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+KKN1	=FU1.0507
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 61 135/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 05/01070			





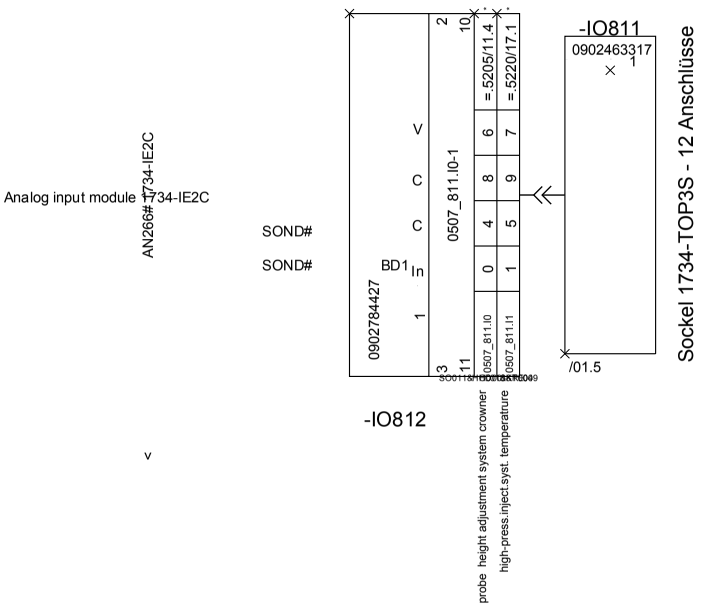
SP077
PLC overview

date	23.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+KKN1	=FU1.0507
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 62 136/348
		version/ 02		SFT_FUG0_201301 05/01070			



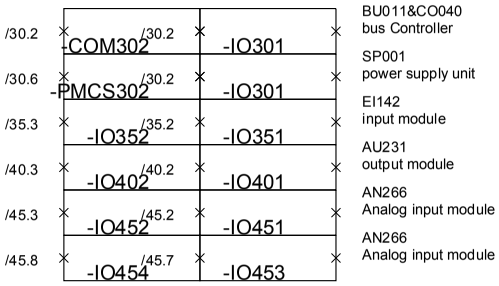
SP077
PLC overview

date	23.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+KKN1	=FU1.0507
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 63 137/348
		version/ 02		SFT_FUG0_201301 05/01070			



SP077
PLC overview

date	23.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+KKN1	=FU1.0507
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 81 138/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 05/01070			



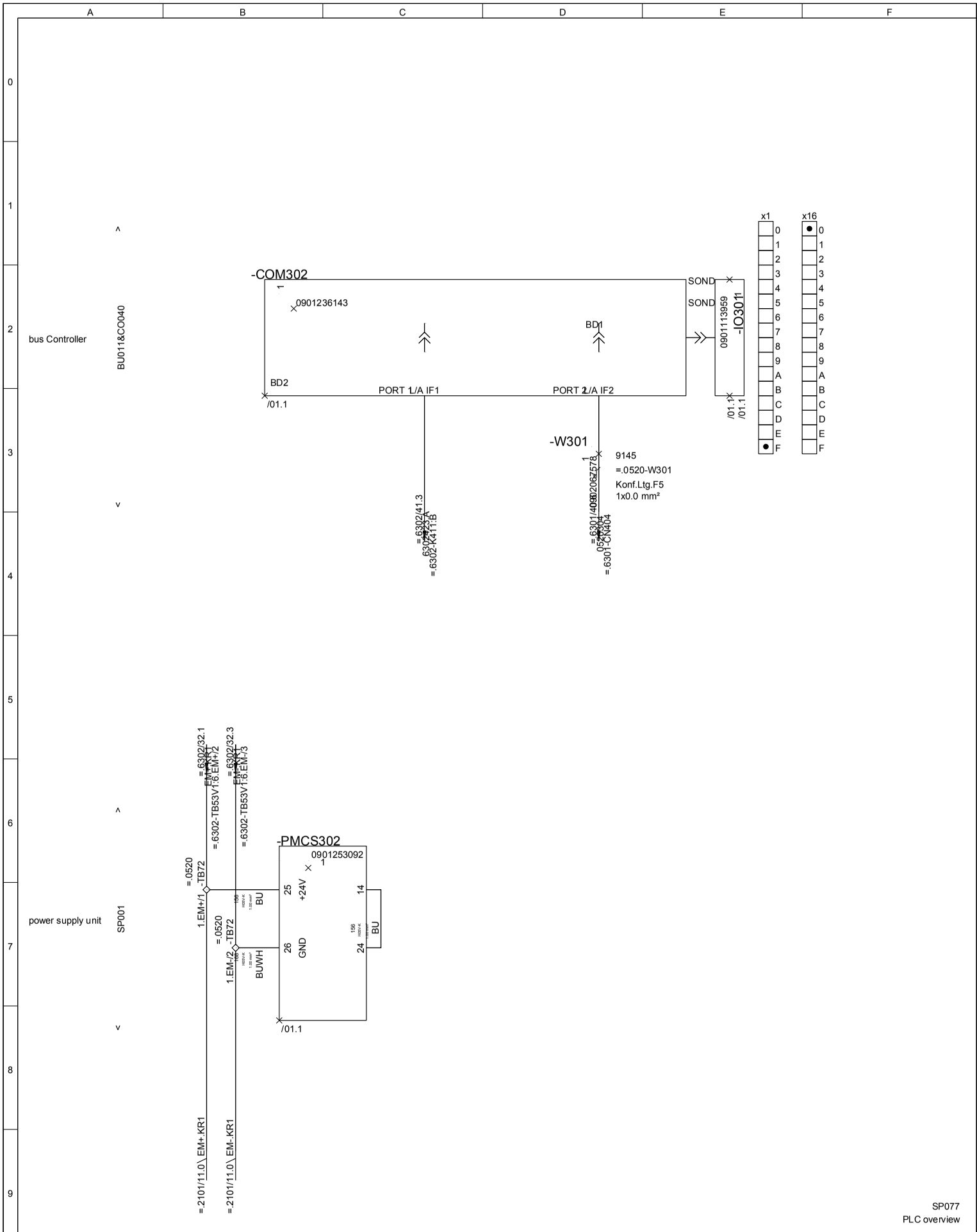
plug-in slot assignm. ST047

Reihenfolge der Karten darf nicht verändert werden!
Wird eine Karte nicht benötigt, darf diese (-K) gelöscht werden, jedoch der Stecksockel (-X) bleibt.

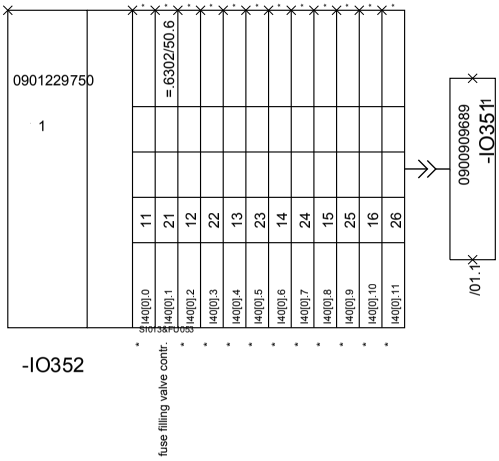
Ausnahme: Entfallen die letzten Karten (-K364, -K412 usw.),
dürfen auch die Stecksockel (-X) gelöscht werden!

SP077
PLC overview

date	23.04.2013	machine type filler	KRONES	rack structure X20	equi. K123989	+KR1	=FU1.0520
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 01 139/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 05/01511			



date	23.04.2013	machine type filler	KRONES	bus Controller	equi. K123989	+KR1	=FU1.0520
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 30 140/348
		version/ 02		SFT_FUG0_201301 05/01511			



EI142

input module

Achtung!
Adressierung für X20-Steuerung nur
in Verbindung mit CLX-Steuerung.

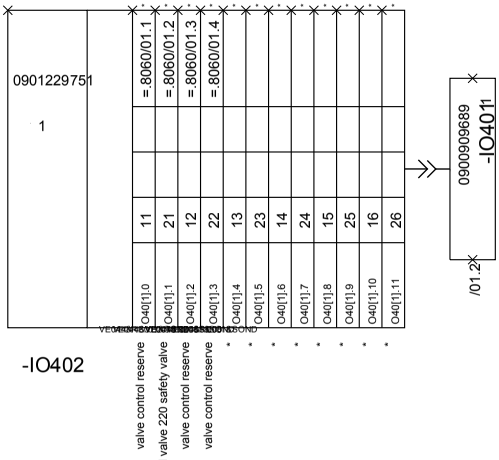
SP077
PLC overview

date	23.04.2013	machine type	filler	input module	equi. K123989	+KR1	=FU1.0520
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 35 141/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 05/01511			

KRONES

AU231

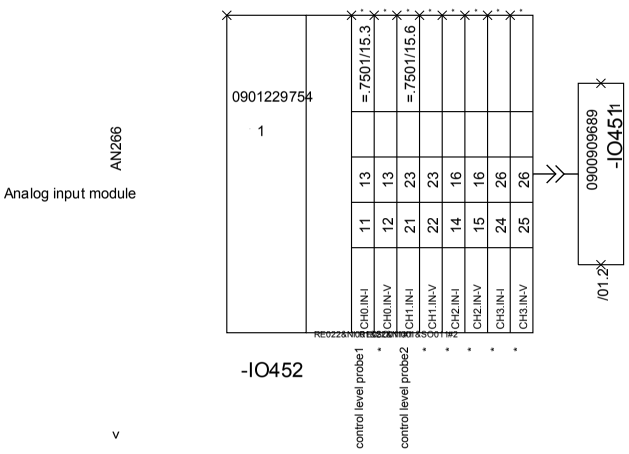
output module



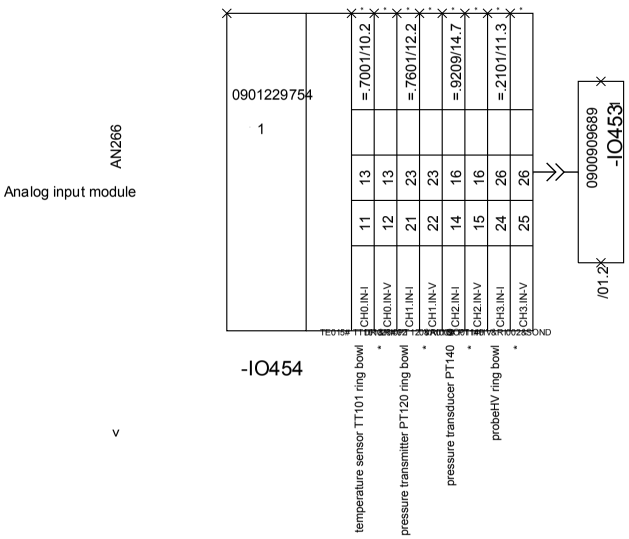
Achtung!
Adressierung für X20-Steuerung nur
in Verbindung mit CLX-Steuerung.

SP077
PLC overview

date	23.04.2013	machine type filler	KRONES	output module	equi. K123989	+KR1	=FU1.0520
eng.	Krupka			client	K123989-001	STR	sheet 40 142/348
CAD	Krupka	machine model MODULFILL HRS		Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 05/01511			

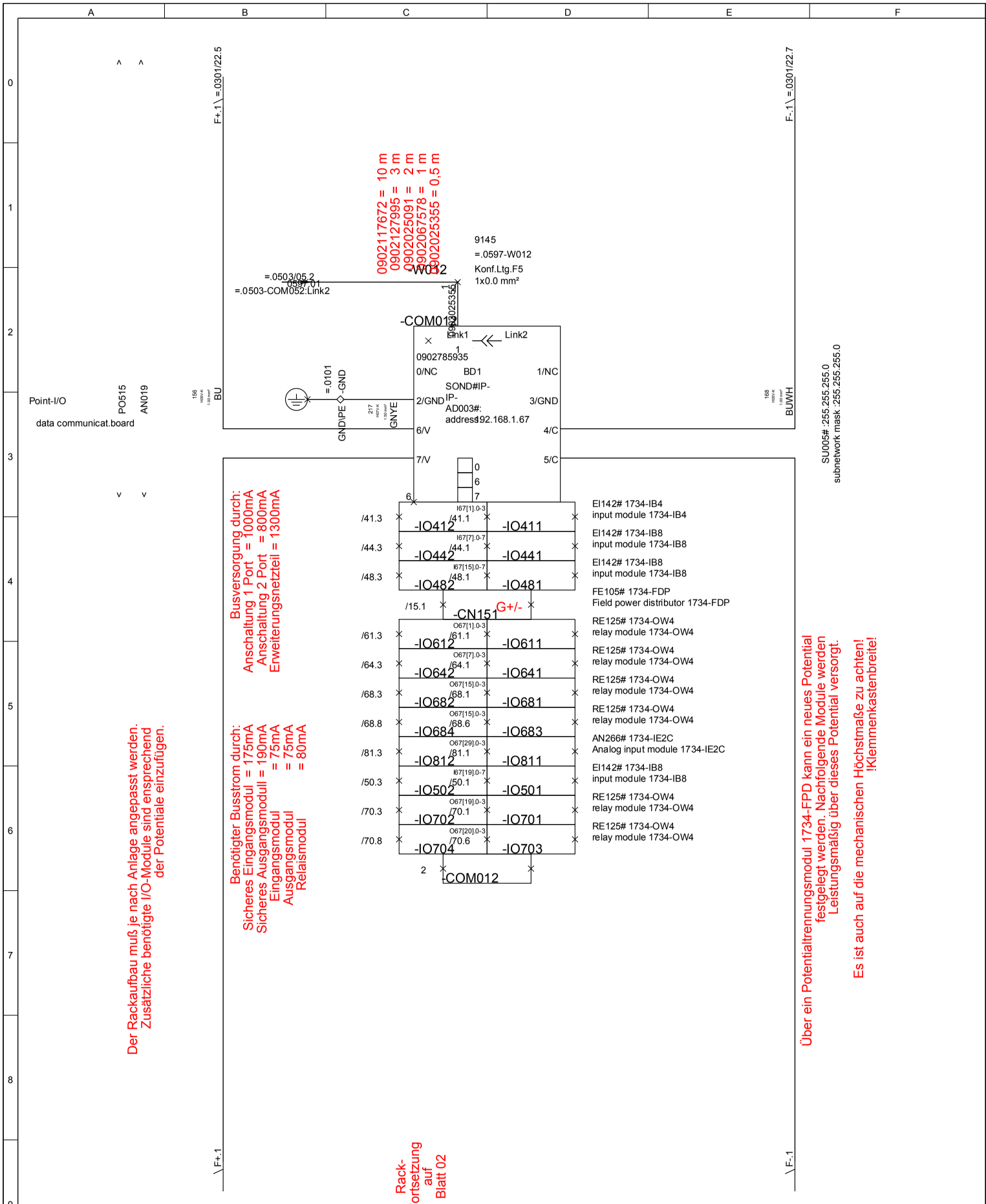


Achtung!
Adressierung für X20-Steuerung nur
in Verbindung mit CLX-Steuerung.



SP077
PLC overview

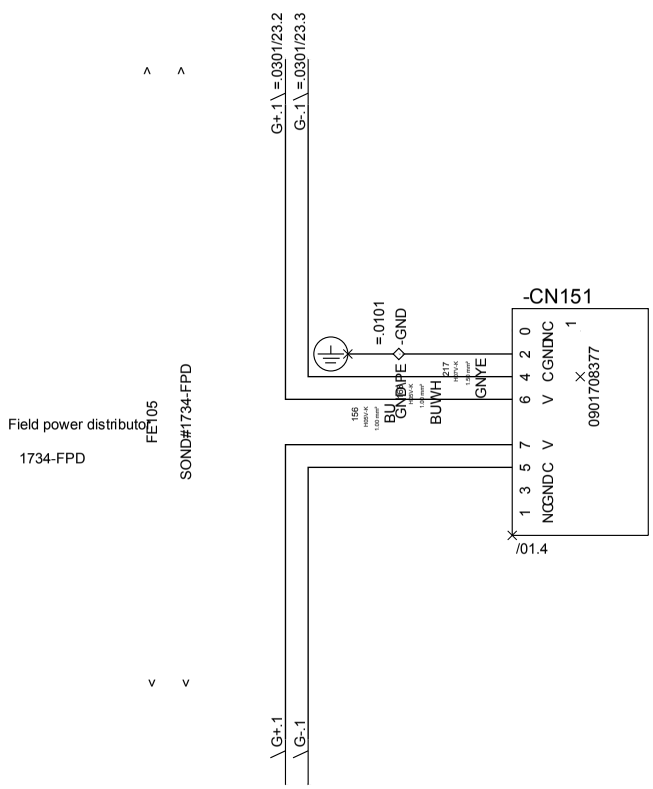
date	23.04.2013	machine type filler	KRONES	analog module	equi. K123989	+KR1	=FU1.0520
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 45 143/348
		version/ 02		SFT_FUG0_201301 05/01511			



SP077
PLC overview

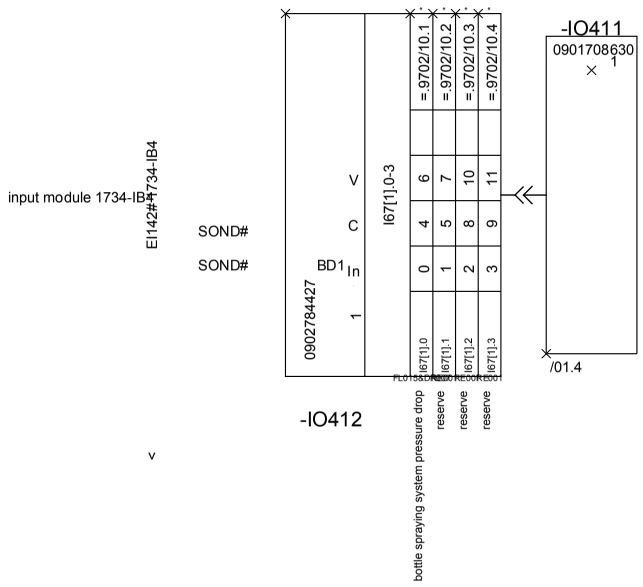
date	19.07.2013	machine type	filler	data communicat.board	equi. K123989	+SK1	=FU1.0597
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 01 144/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 05/01097			

KRONES



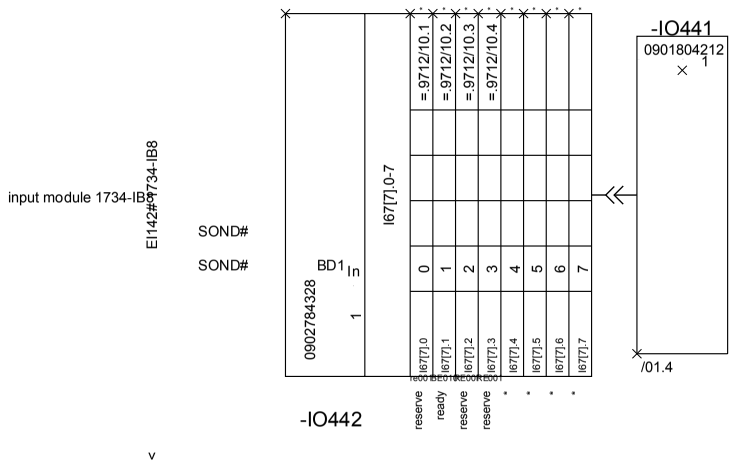
SP077
PLC overview

date	18.04.2013	machine type filler		Feeder module	equi. K123989	+SK1	=FU1.0597
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS	KRONES	client Lagunitas Brewing Company	K123989-001	STR	sheet 15 145/348
		version/ 02		SFT_FUG0_201301 05/01097			



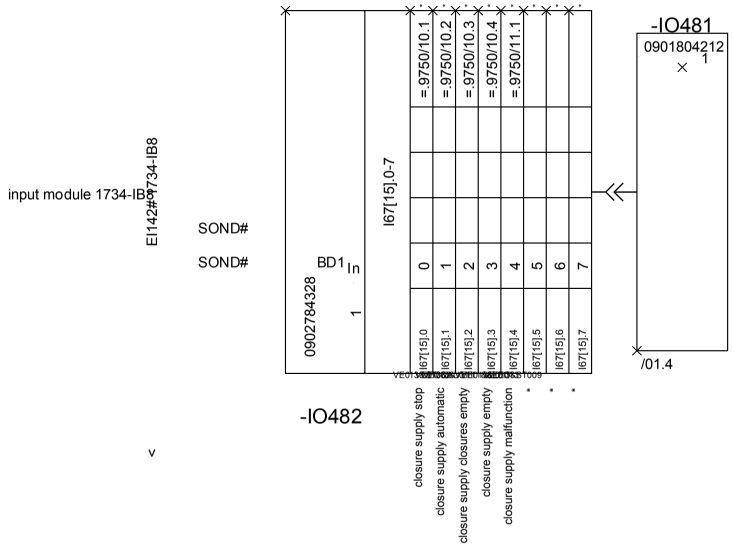
SP077
PLC overview

date	28.08.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+SK1	=FU1.0597
eng.	Krupka						
CAD	Skala	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 41 146/348
		version/ 02		SFT_FUG0_201301 05/01097			



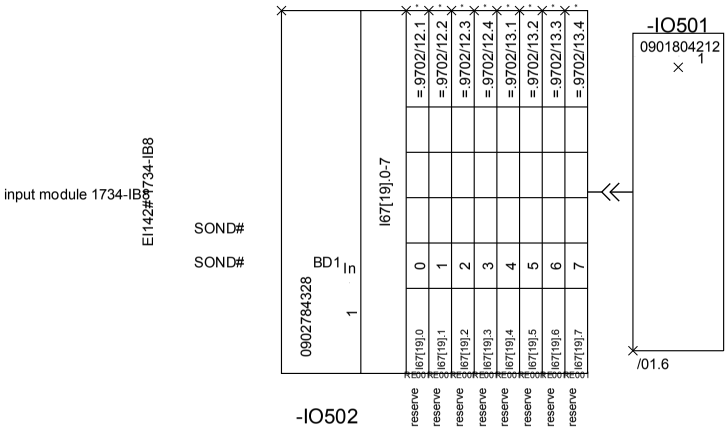
SP077
PLC overview

date	27.08.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+SK1	=FU1.0597
eng.	Krupka						
CAD	Skala	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 44 147/348
		version/ 02		SFT_FUG0_201301 05/01097			



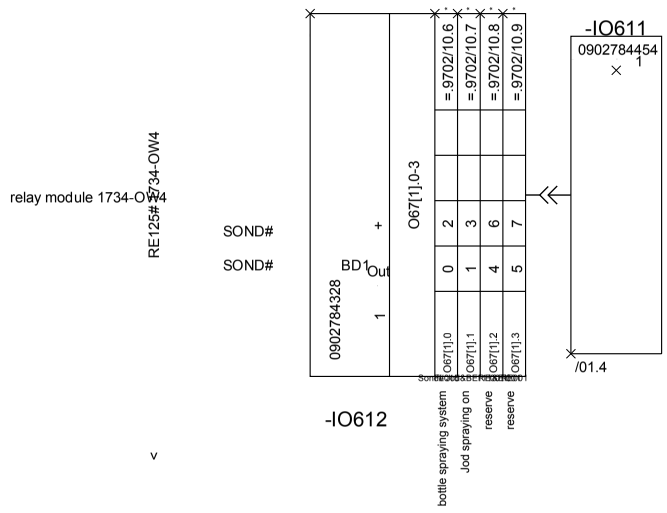
SP077
PLC overview

date	23.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+SK1	=FU1.0597
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 48 148/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 05/01097			



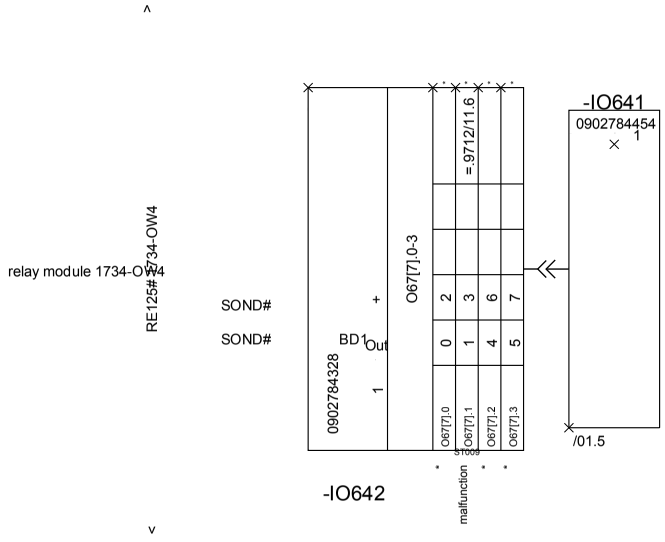
SP077
PLC overview

date	19.07.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+SK1	=FU1.0597
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 50 149/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 05/01097			



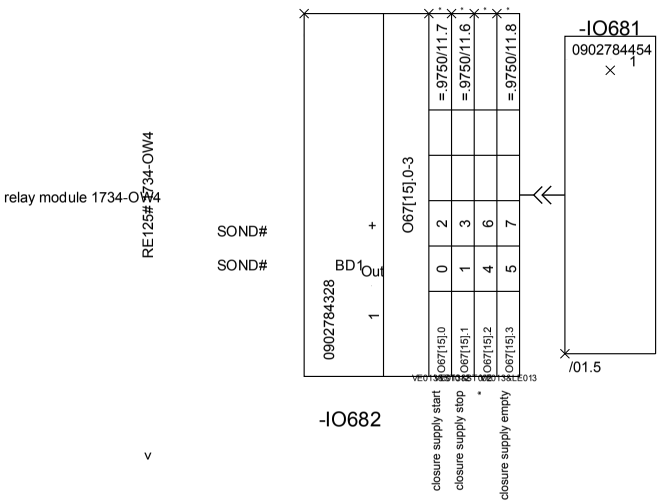
SP077
PLC overview

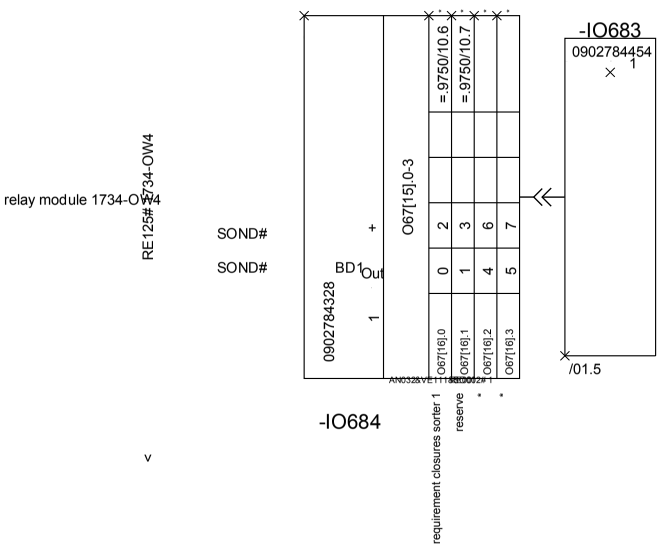
date	18.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+SK1	=FU1.0597
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 61 150/348
		version/ 02		SFT_FUG0_201301 05/01097			



SP077
PLC overview

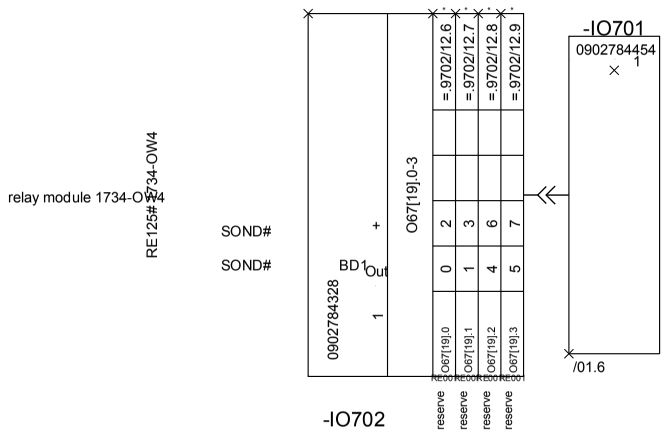
date	27.08.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+SK1	=FU1.0597
eng.	Krupka						
CAD	Skala	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 64 151/348
		version/ 02		SFT_FUG0_201301 05/01097			

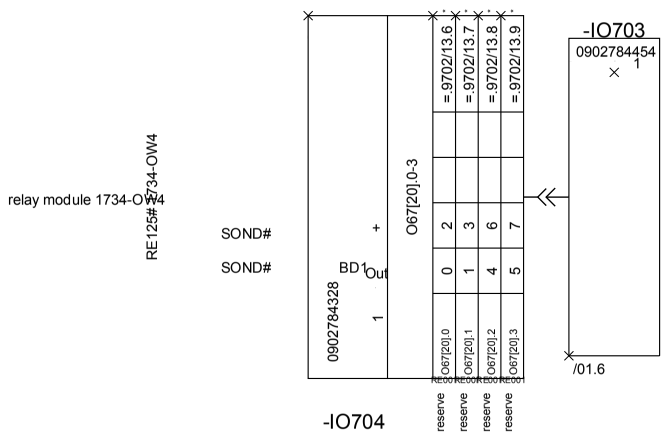




SP077
PLC overview

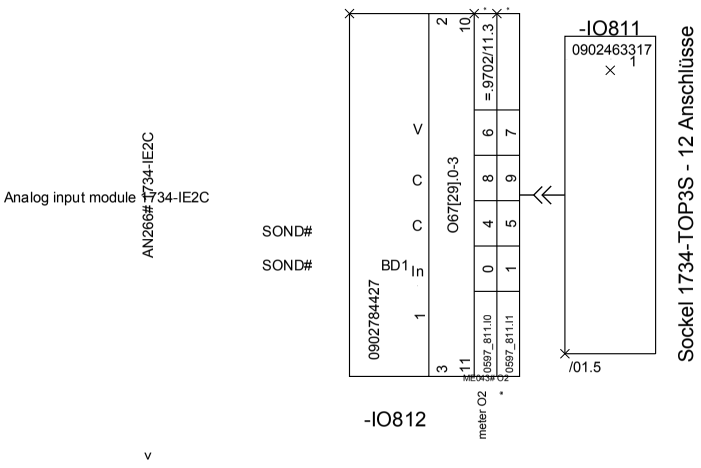
date	26.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+SK1	=FU1.0597
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 68 152/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 05/01097			





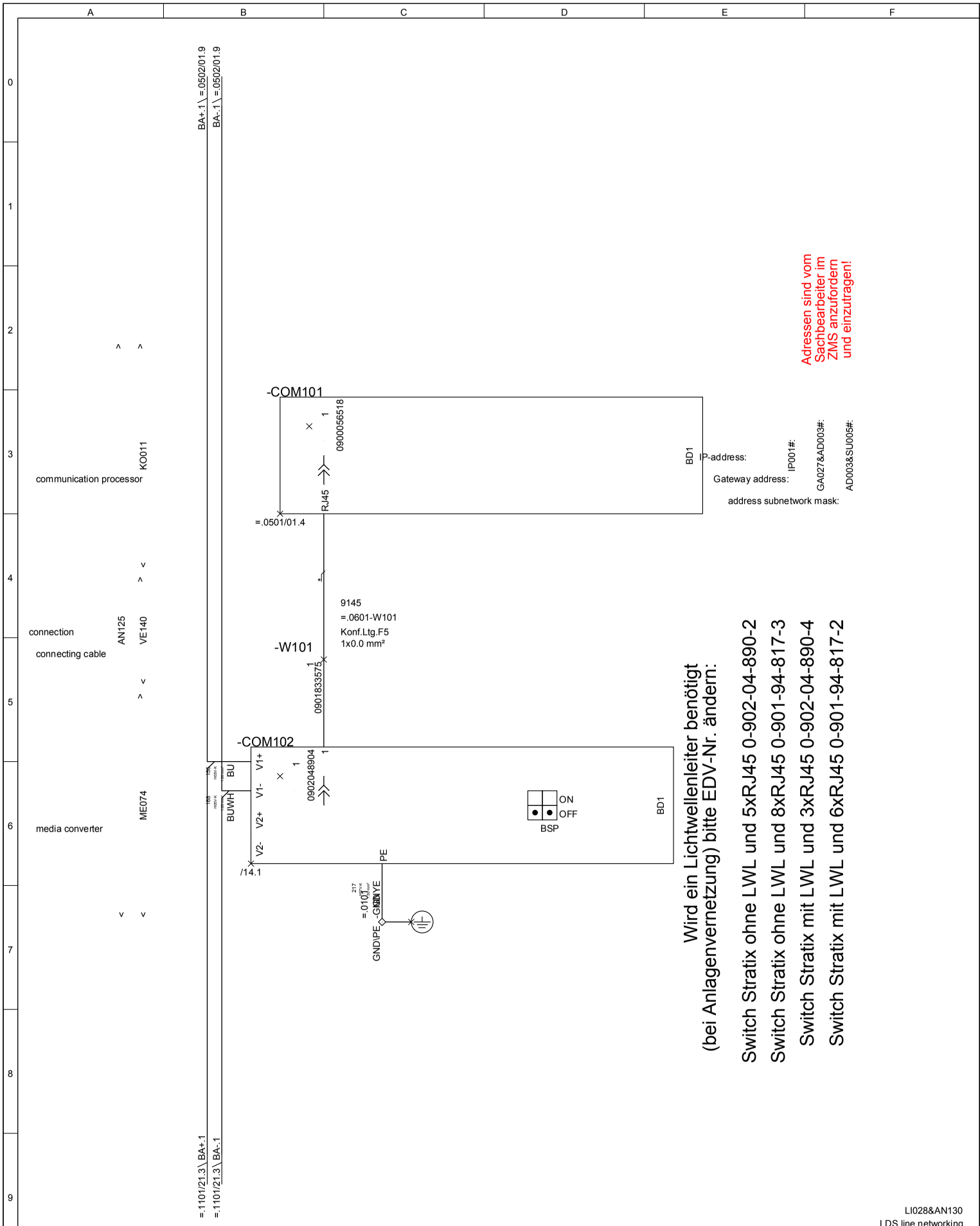
SP077
PLC overview

date	19.07.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+SK1	=FU1.0597
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 70 153/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 05/01097			



SP077
PLC overview

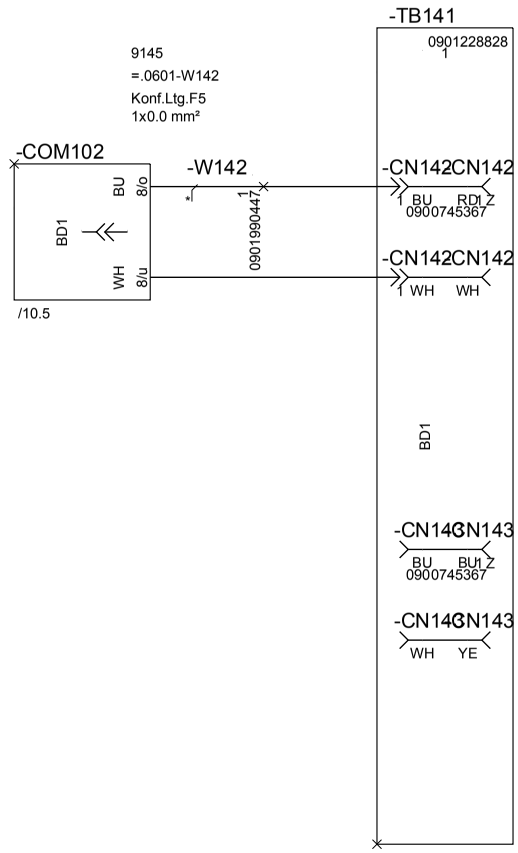
date	23.04.2013	machine type filler	KRONES	inp./outp.board assign.	equi. K123989	+SK1	=FU1.0597
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 81 154/348
		version/ 02		SFT_FUG0_201301 05/01230			



LI028&AN130
LDS line networking

date	24.04.2013	machine type	filler	line networking	equi. K123989	+SK1	=FU1.0601
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 10 155/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 06/01021			

KRONES

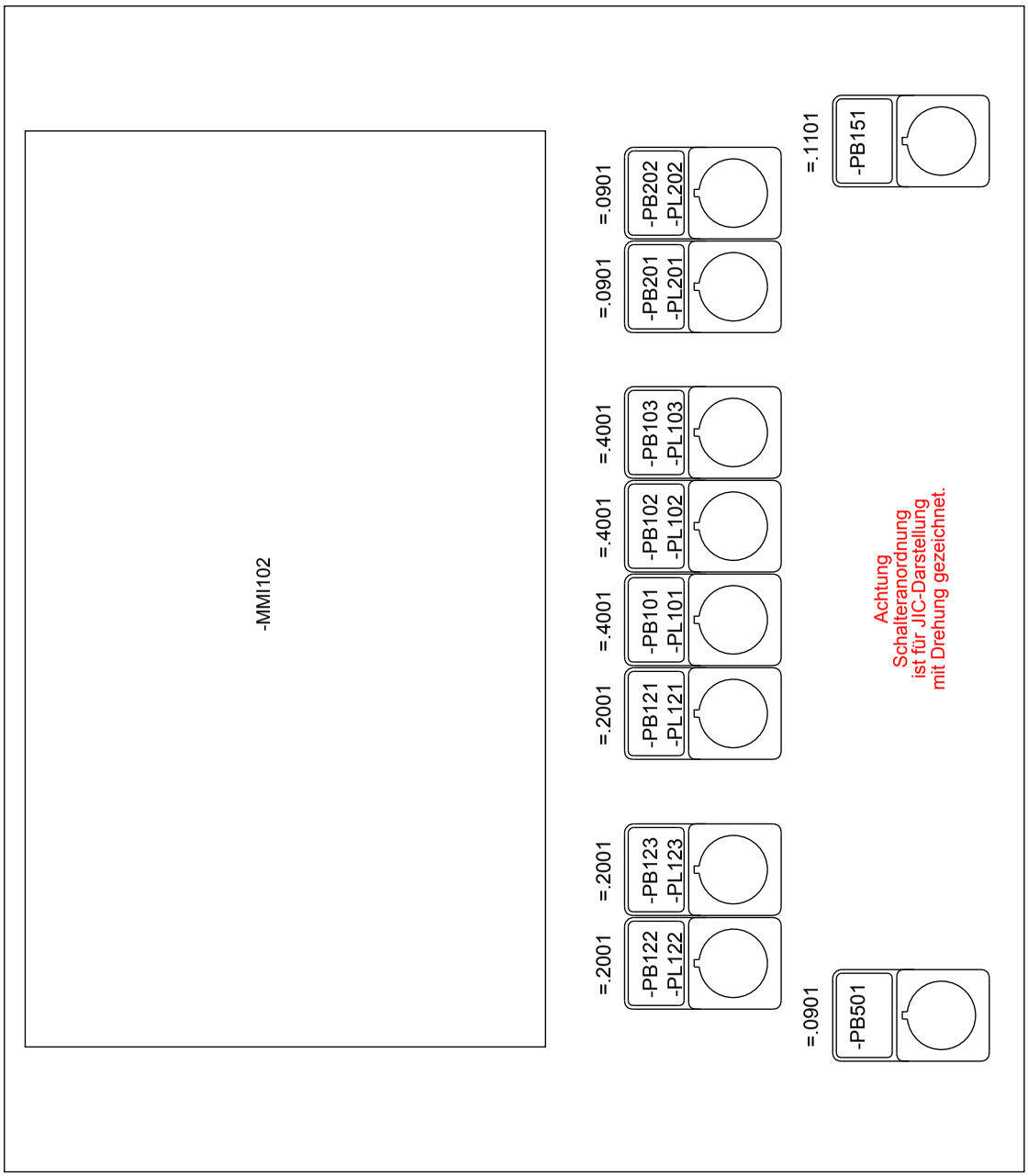


connection optical fibre AN003 LI048

connection at diagram number : AN003#&AN106 PL007#

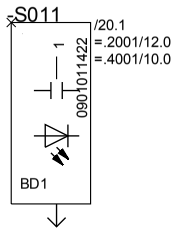
LI028&AN130
LDS line networking

date	18.04.2013	machine type filler	KRONES	connection optical fibre	equi. K123989	+SK1	=FU1.0601
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 14 156/348
		version/ 02		SFT_FUG0_201301 06/01021			



BE115&BE116
operation observe

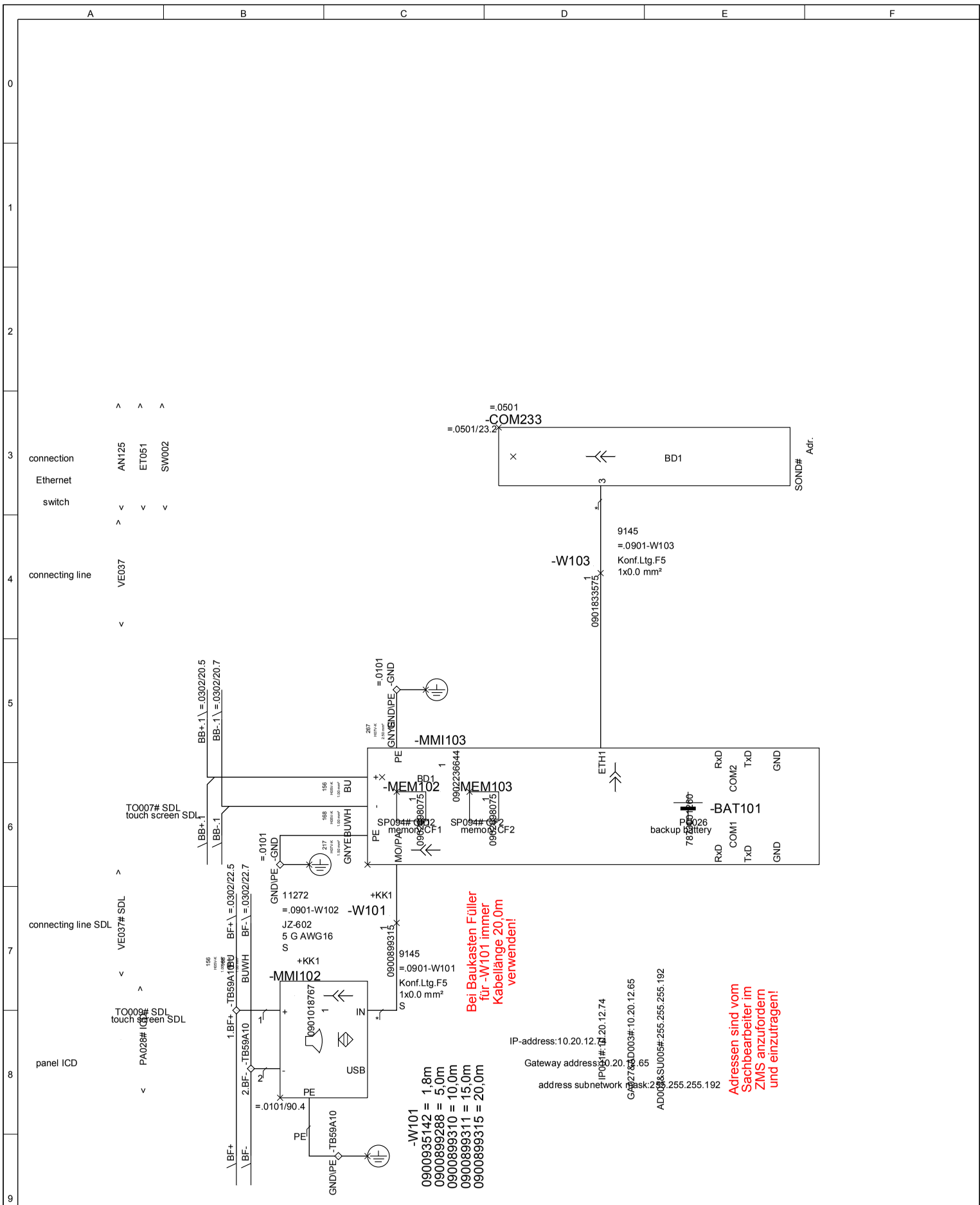
date	18.04.2013	machine type filler	KRONES	operator control panel	equi. K123989	+KK1	=FU1.0901
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	DIA	sheet 01 157/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 09/01021			



touch-button stripes TA023

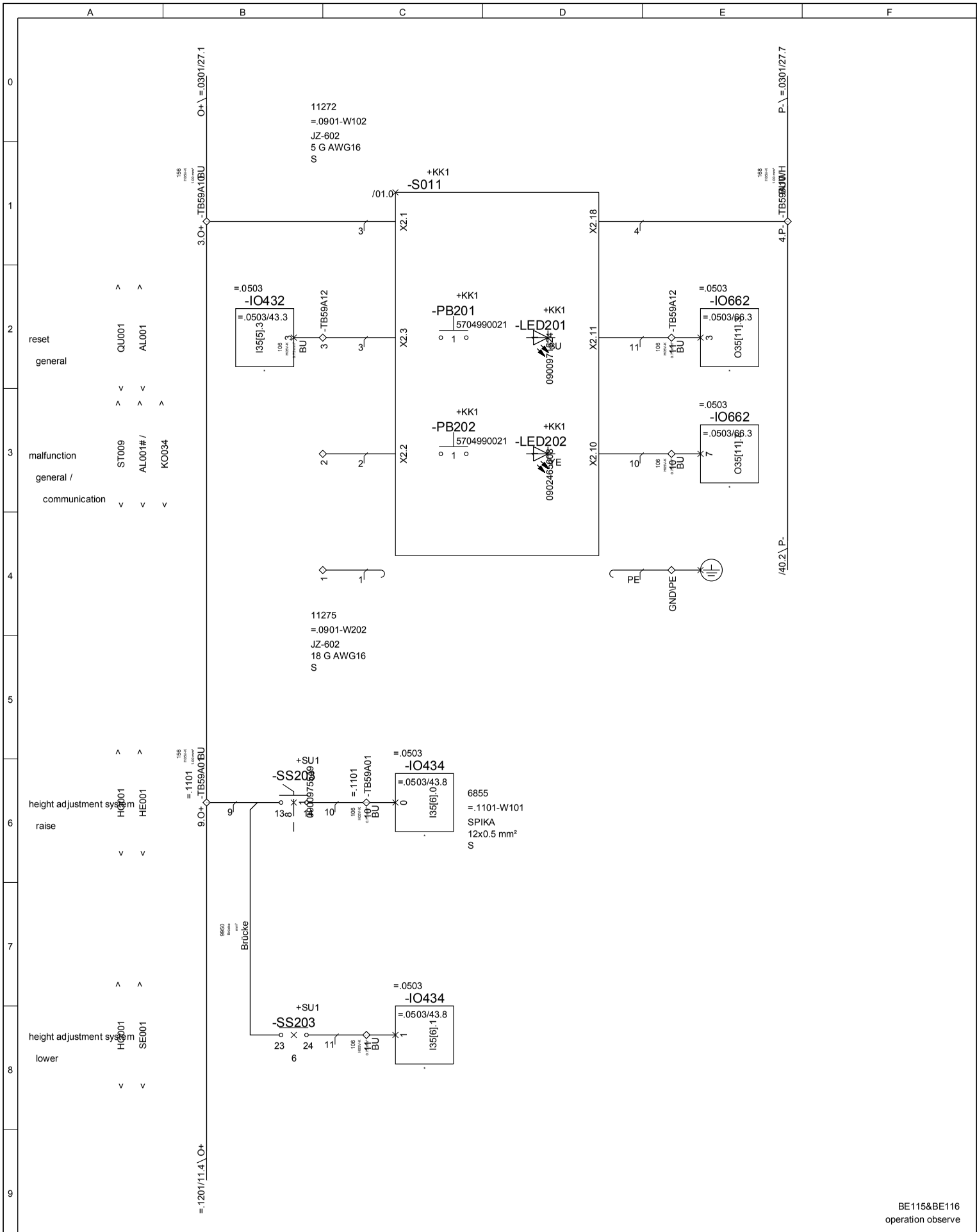
BE115&BE116
operation observe

date	18.04.2013	machine type filler	KRONES	input/output module	equi. K123989	+KK1	=FU1.0901
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 01 158/348
		version/ 02		SFT_FUG0_201301 09/01021			

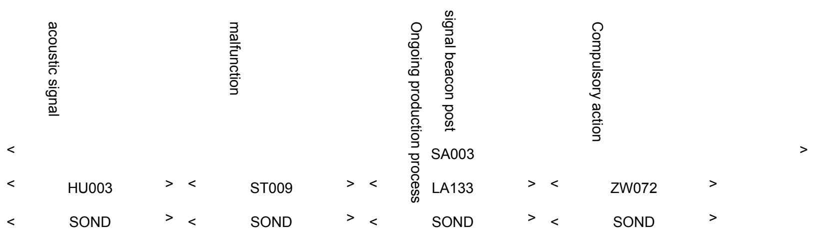


date	18.04.2013	machine type	filler	touchscreen	equi. K123989	+SK1	=FU1.0901
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 10 159/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 09/01021			

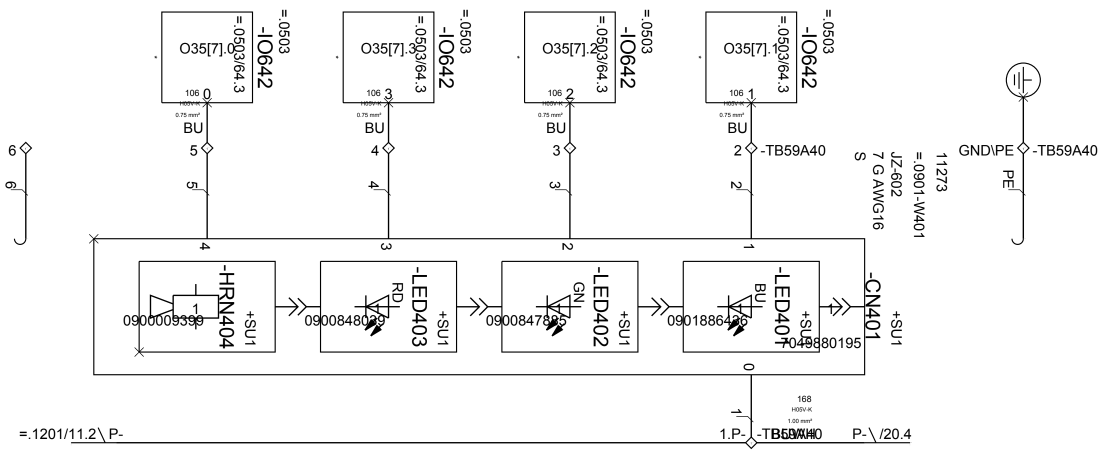
KRONES



date	18.04.2013	machine type	filler	operator controls	equi. K123989	+SK1	=FU1.0901
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 20 160/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 09/01021			



Allen Bradley	WERMA	
7049880195	0901440549	UN1
0901886436	0901578585	UN2
0900847885	0901578546	UN3
0900848039	0901578540	UN4
0900009399	0901579623	UN5



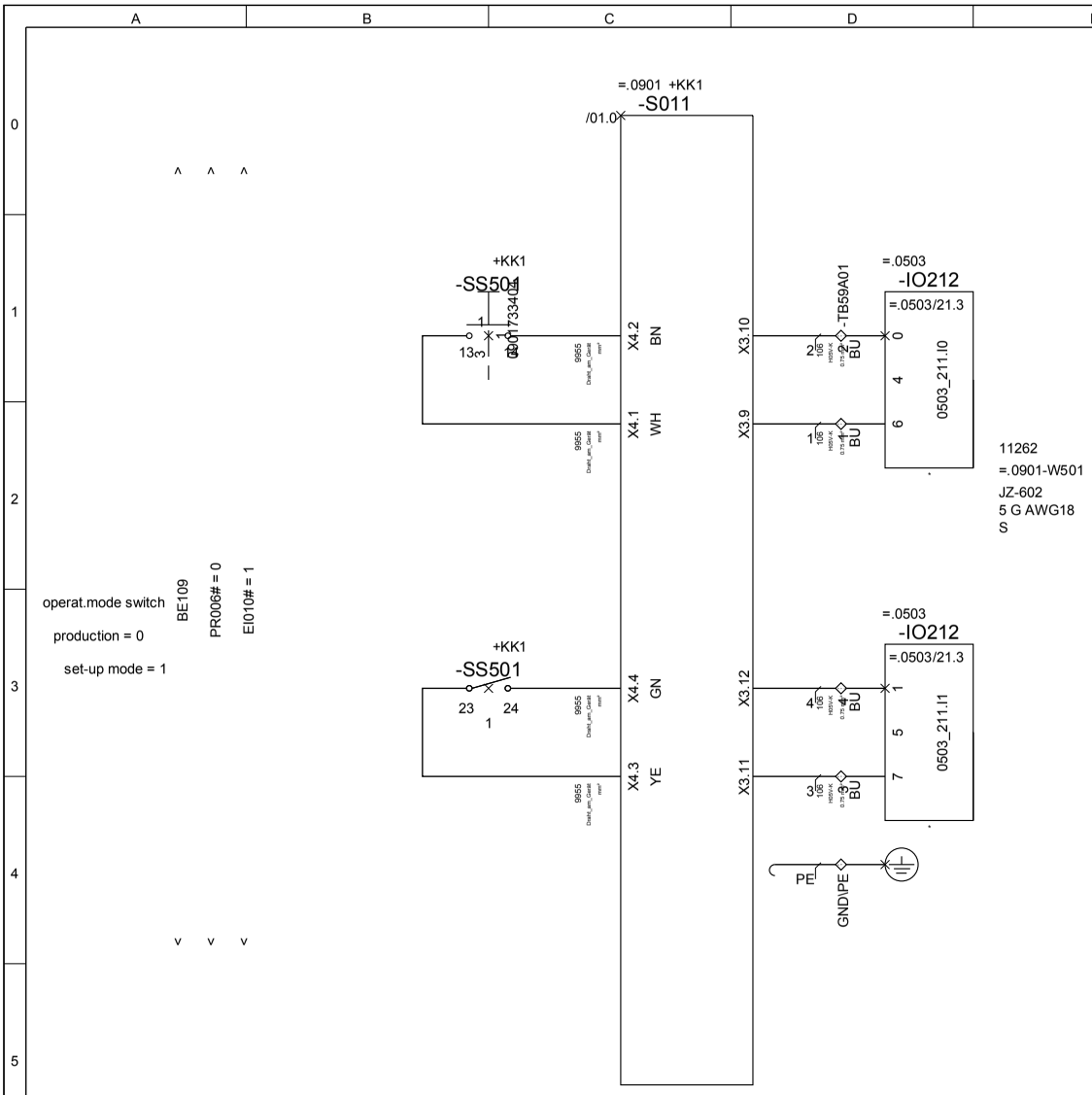
Werma und Allen Bradley unterscheiden sich nur in der EDV-Nummer

BE115&BE116
operation observe

date	18.04.2013	machine type	filler
eng.	Krupka	machine model	MODULFILL HRS
CAD	Krupka		
version/	02		

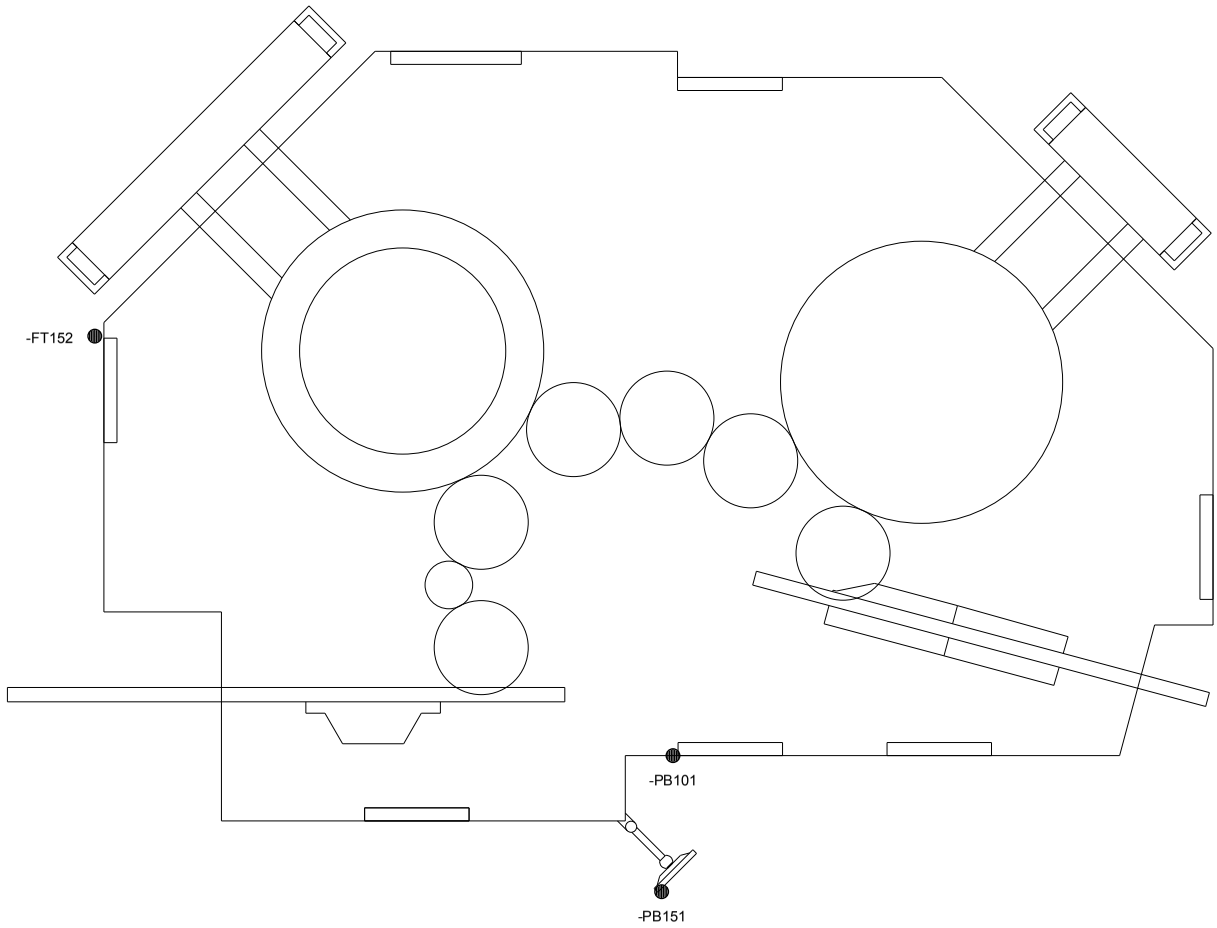
signal beacon post
client: Lagunitas Brewing Company
SFT_FUG0_201301 09/01021

equi. K123989 — K123989-001
+SK1 — STR
=FU1.0901
sheet 40
161/348



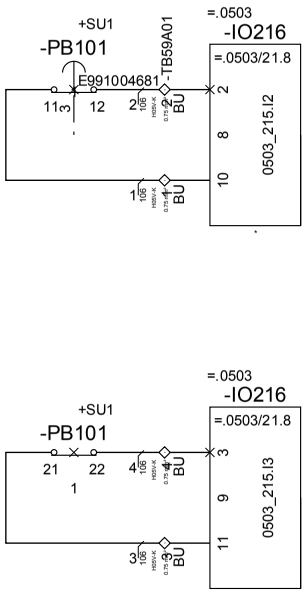
BE115&BE116
operation observe

date	18.04.2013	machine type filler	KRONES	operator controls	equi. K123989	+SK1	=FU1.0901
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 50 162/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 09/01021			



NO009&WA011
emergency stop maintenance enable

date	30.04.2013	machine type filler	KRONES	overall view	equi. K123989		=FU1.1101
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	DIA	sheet 01 163/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 11/01021			



emergency stop machine table

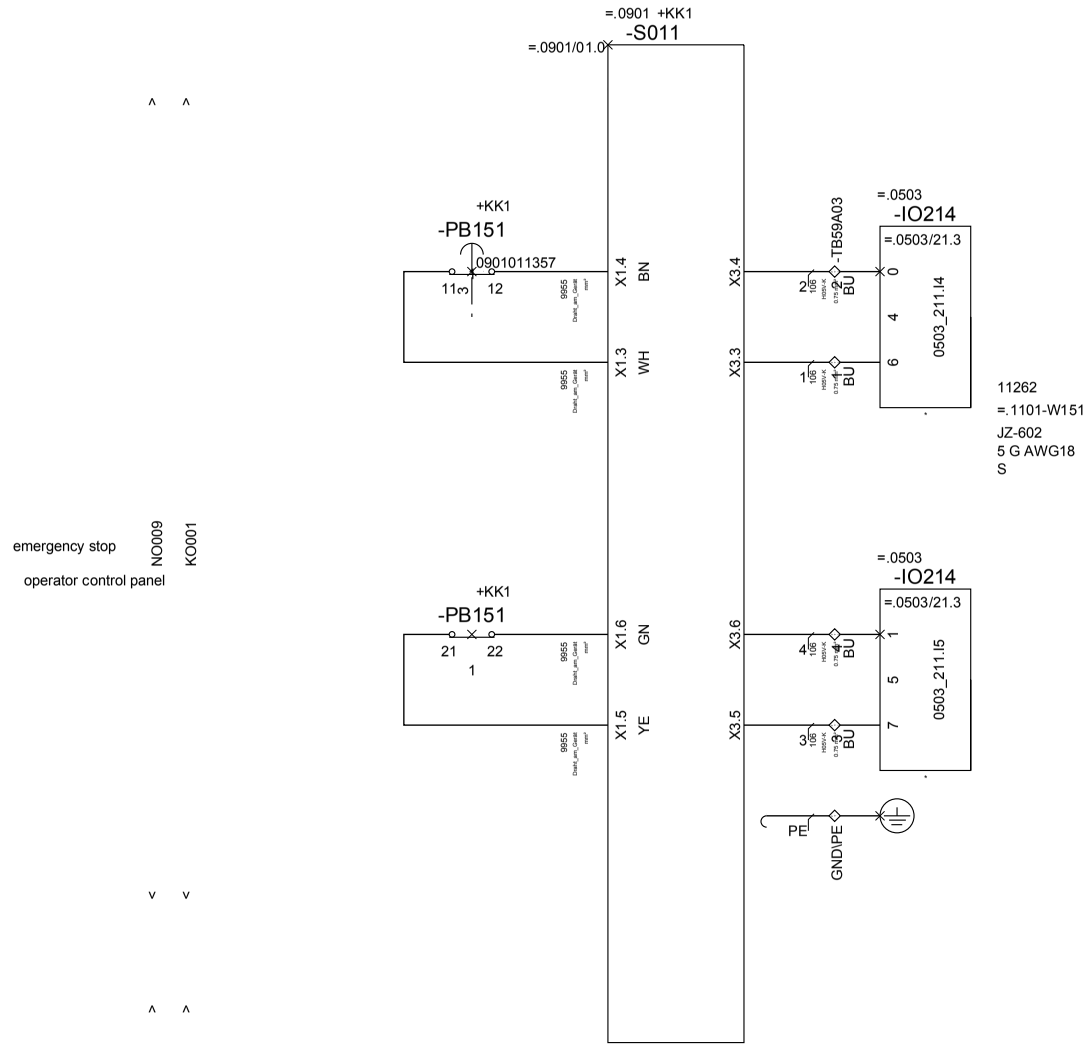
NO009 VO008

6855
=.1101-W101
SPIKA
12x0.5 mm²
S

Kabellänge beachten:
10m = Kabelnr.: 6854
20m = Kabelnr.: 6855
30m = Kabelnr.: 6856

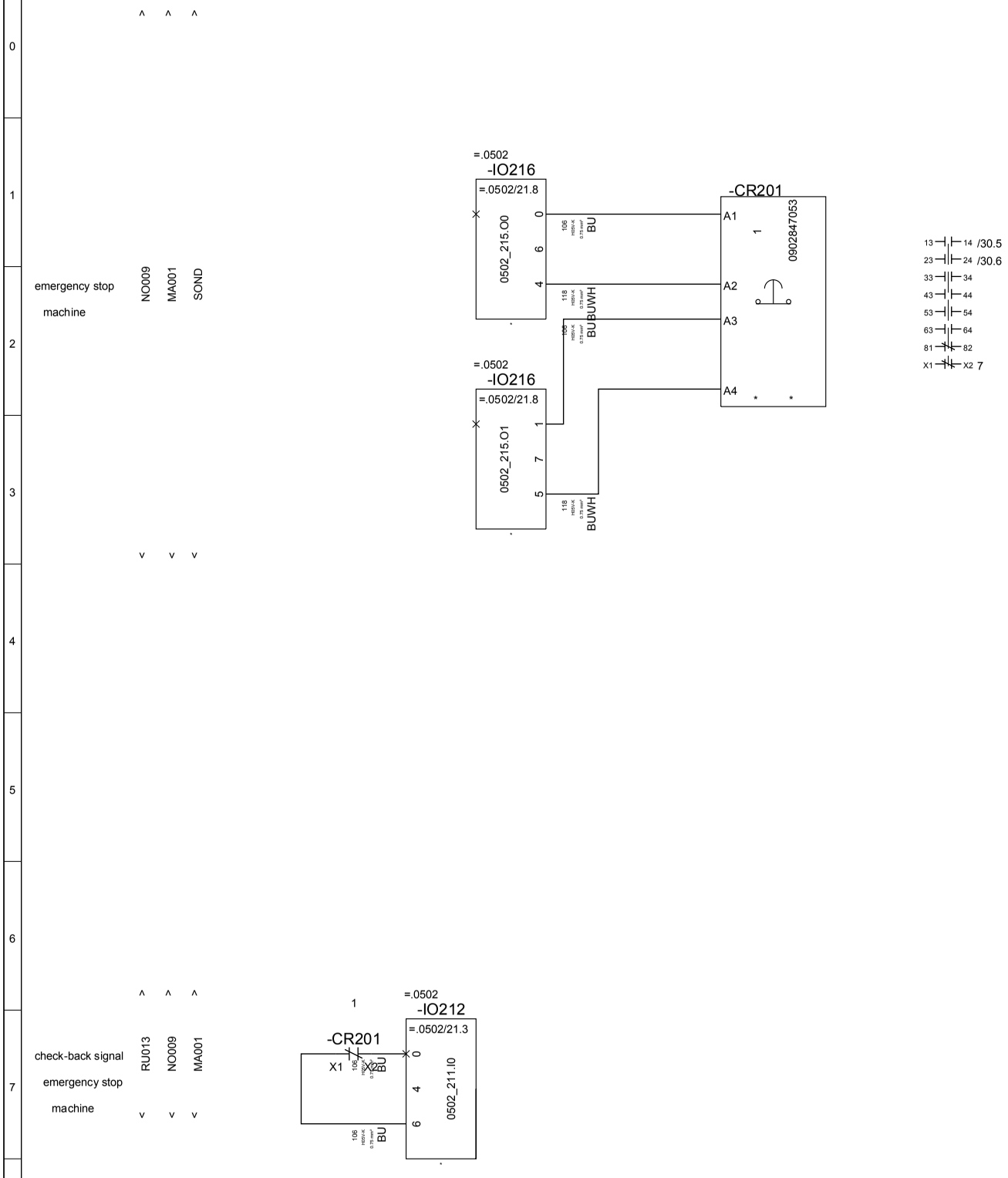
NO009&WA011
emergency stop maintenance enable

date	29.04.2013	machine type filler	KRONES	machine table	equi. K123989	+SK1	=FU1.1101
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 10 164/348
		version/ 02		SFT_FUG0_201301 11/01021			



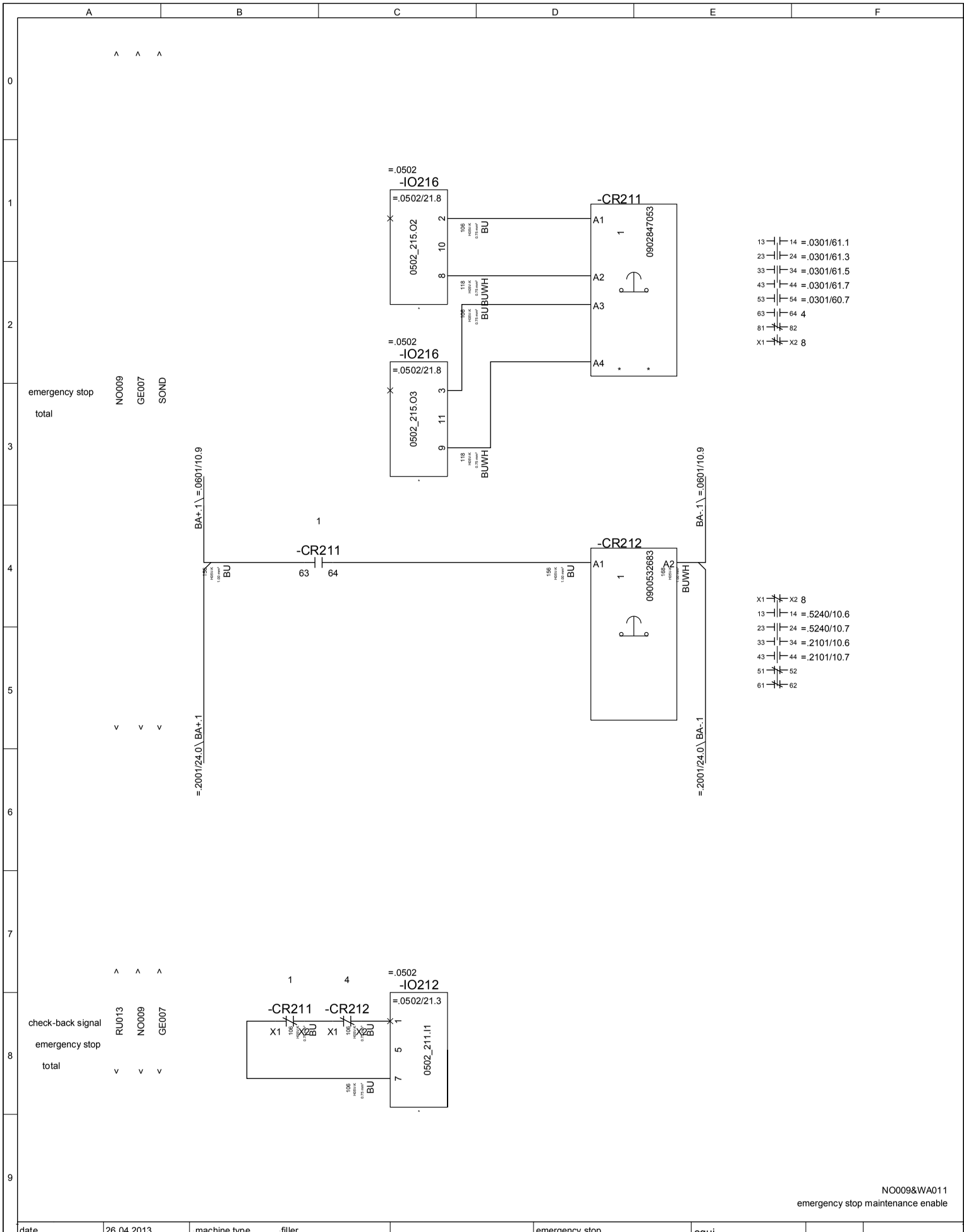
NO009&WA011
emergency stop maintenance enable

date	18.04.2013	machine type filler	KRONES	EMERGENCY STOP switch	equi. K123989	+SK1	=FU1.1101
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 15 165/348
		version/ 02		SFT_FUG0_201301 11/01021			



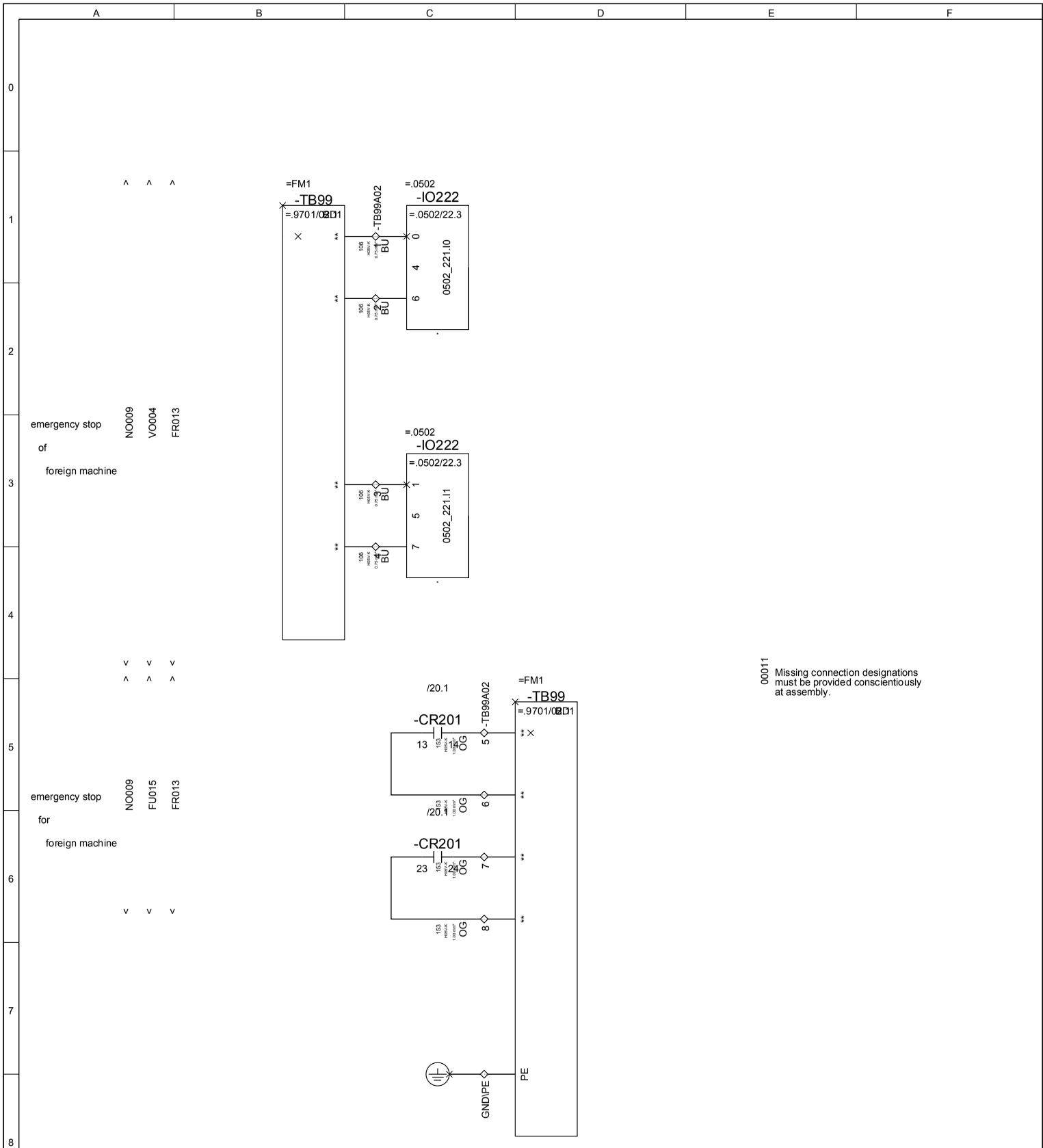
NO009&WA011
emergency stop maintenance enable

date	26.04.2013	machine type filler	KRONES	emergency stop	equi. K123989	+SK1	=FU1.1101
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 20 166/348
		version/ 02		SFT_FUG0_201301 11/01021			

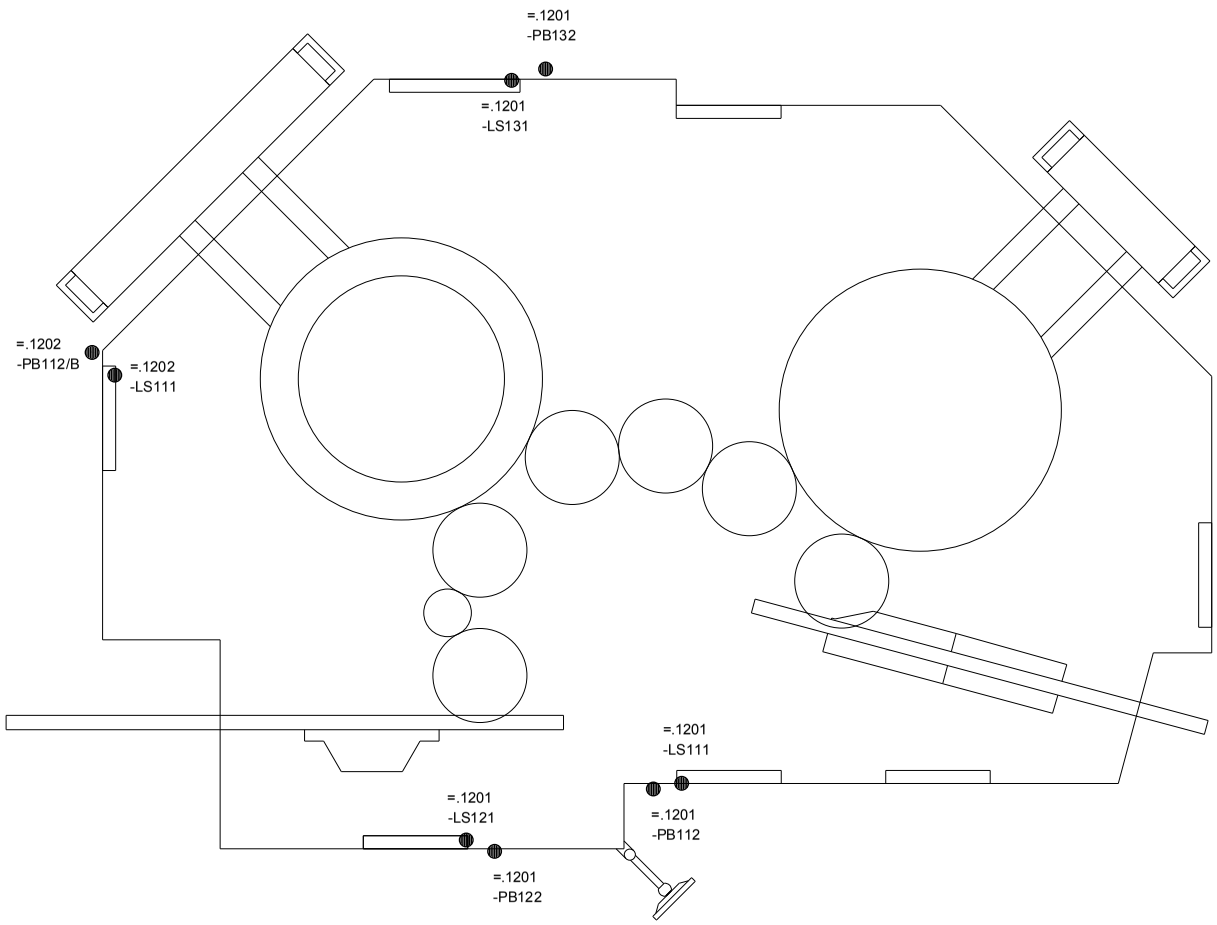


NO009&WA011
emergency stop maintenance enable

date	26.04.2013	machine type filler	KRONES	emergency stop	equi. K123989	+SK1	=FU1.1101
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 21 167/348
		version/ 02		SFT_FUG0_201301 11/01021			

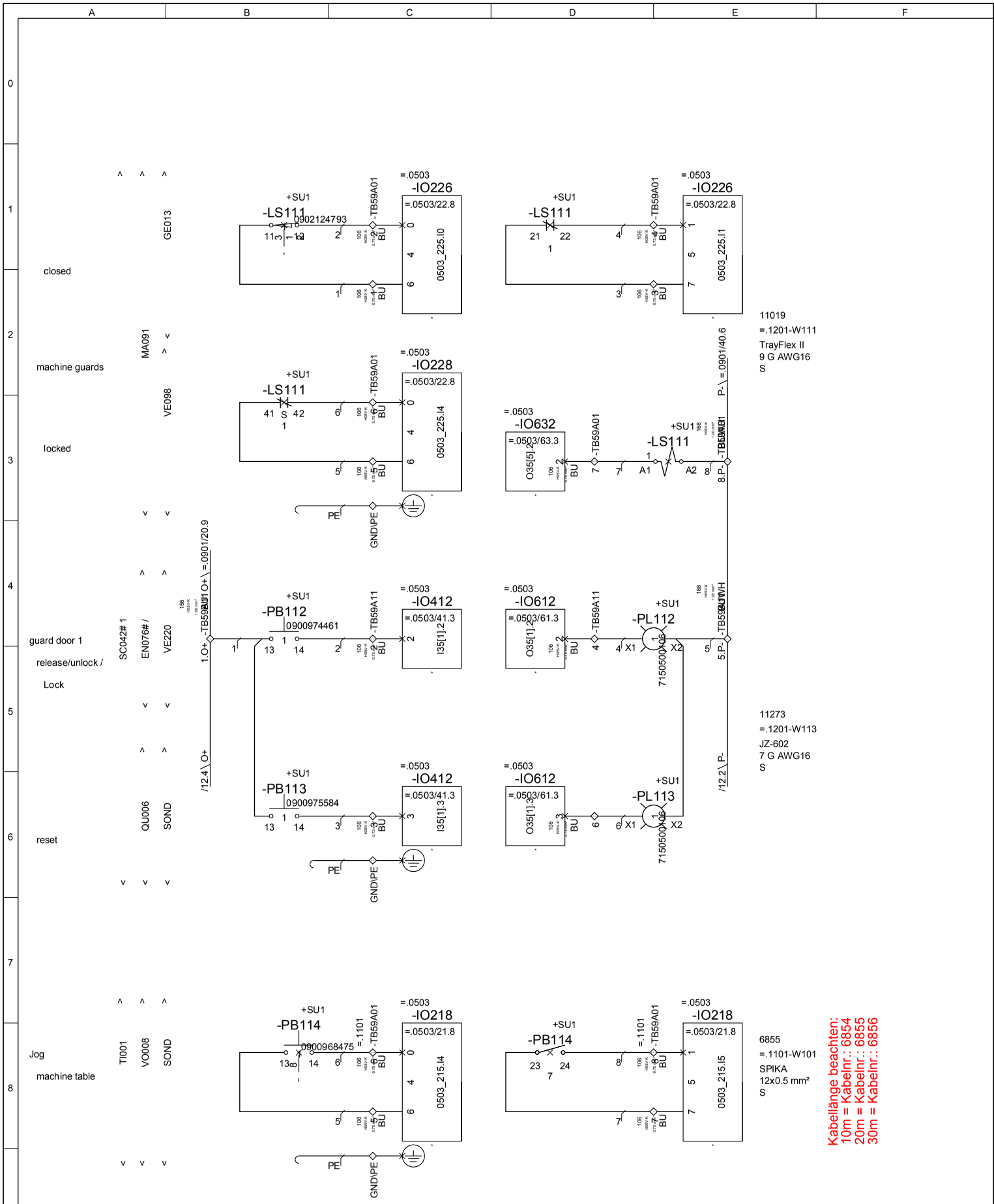


date	23.04.2013	machine type filler	KRONES	foreign machine	equi. K123989	+SK1	=FU1.1101
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 30 168/348
		version/ 02		SFT_FUG0_201301 11/01021			

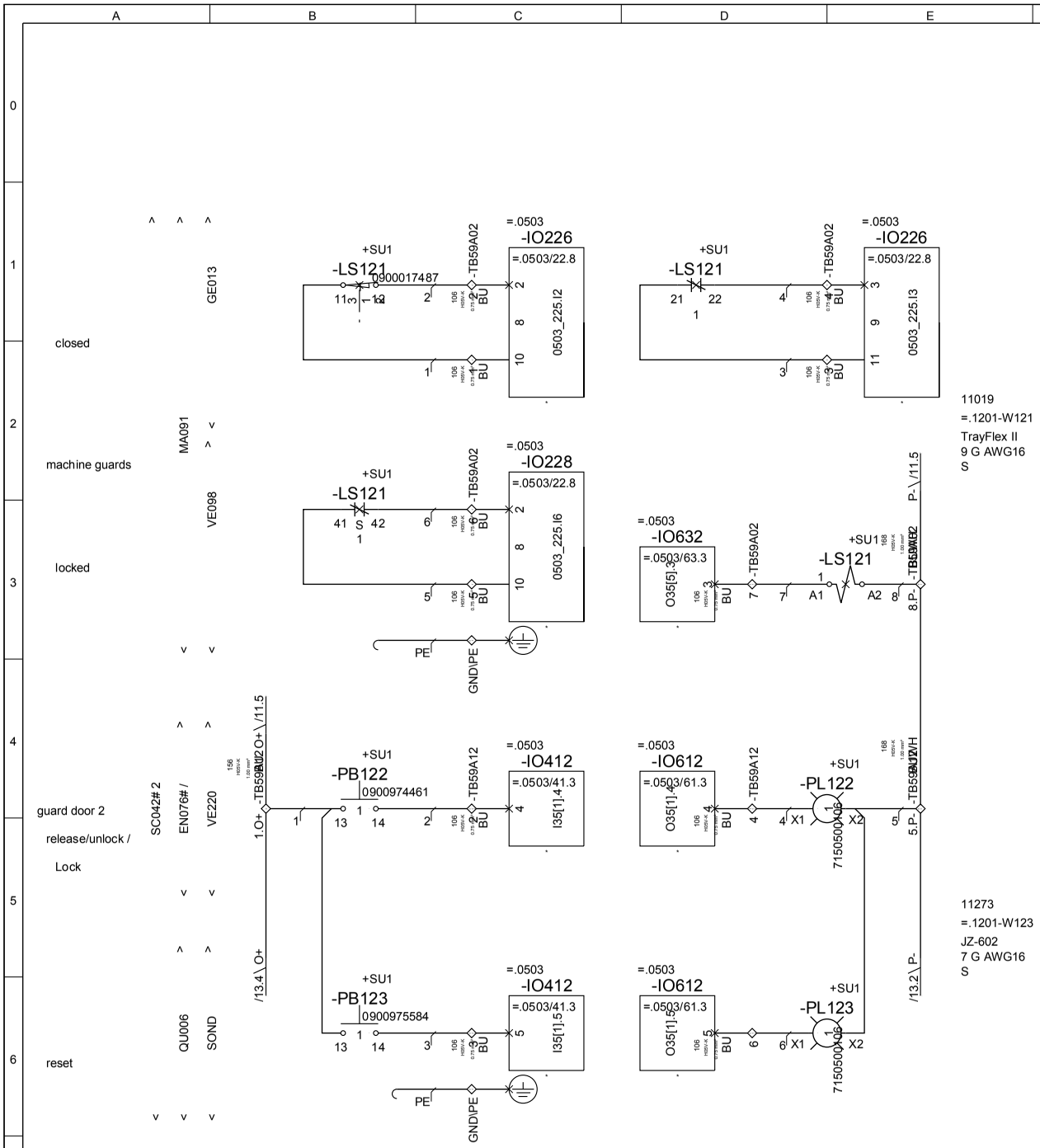


PE011
oper.safety guarding

date	27.08.2013	machine type filler	KRONES	overall view	equi. K123989		=FU1.1201
eng.	Krupka						
CAD	Skala	machine model MODULFILL HRS		client	K123989-001	DIA	sheet 01 169/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 12/01011			

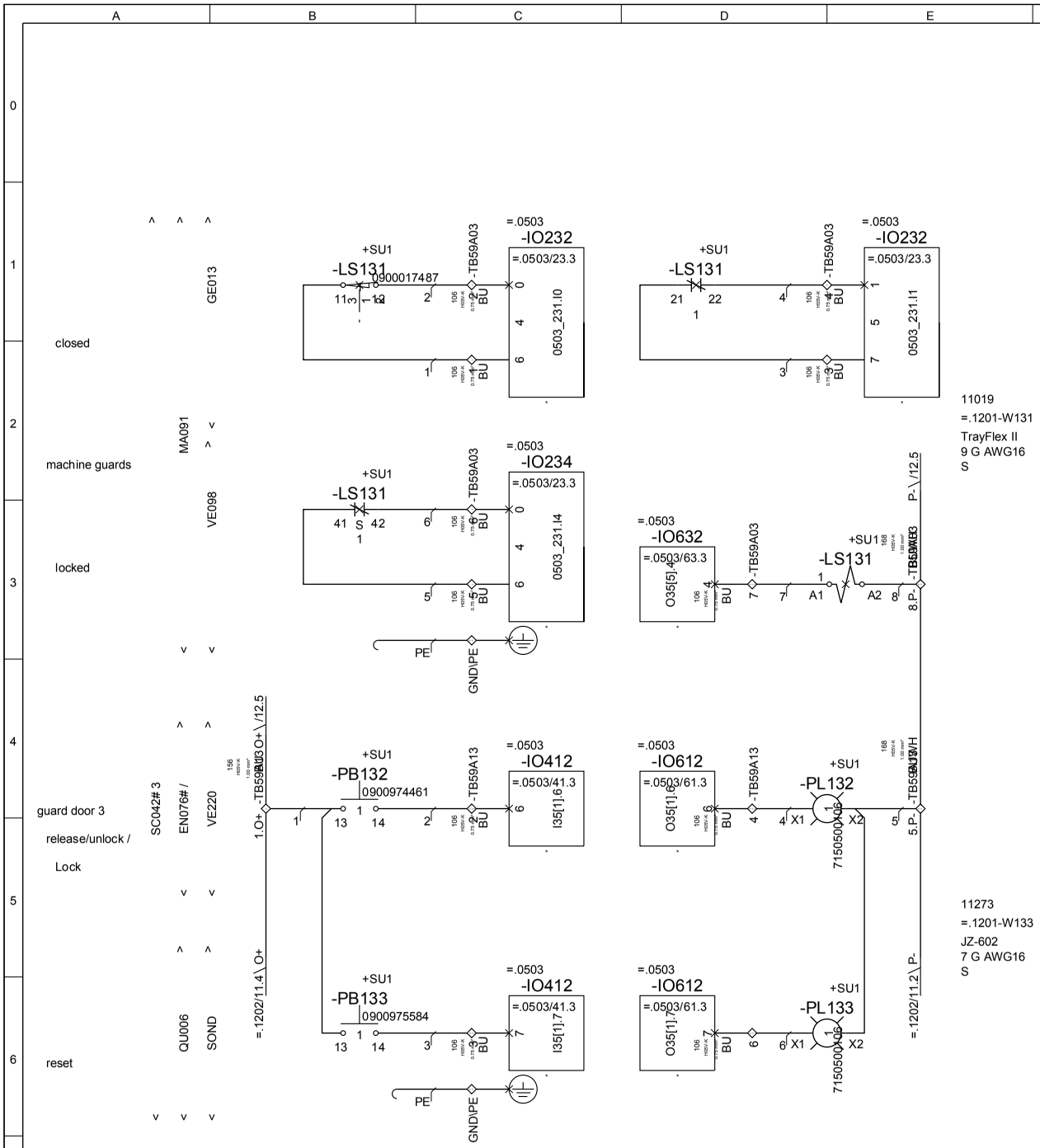


date	18.04.2013	machine type	filler	guard door 1	equi. K123989	+SK1	=FU1.1201
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 11 170/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 12/01111			



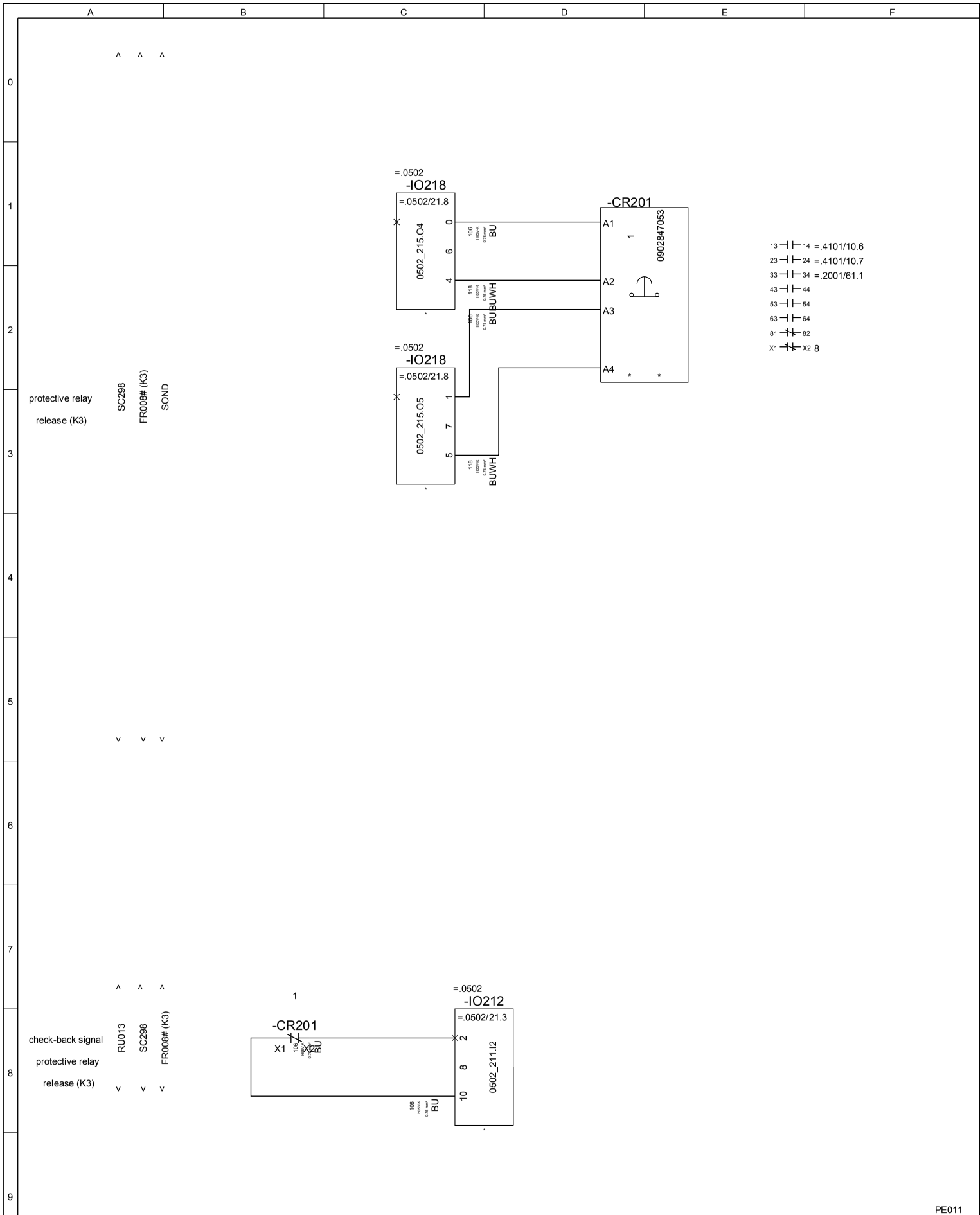
PE011
oper.safety guarding

date	18.04.2013	machine type filler	KRONES	guard door 2	equi. K123989	+SK1	=FU1.1201
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 12 171/348
		version/ 02		SFT_FUG0_201301 12/01112			

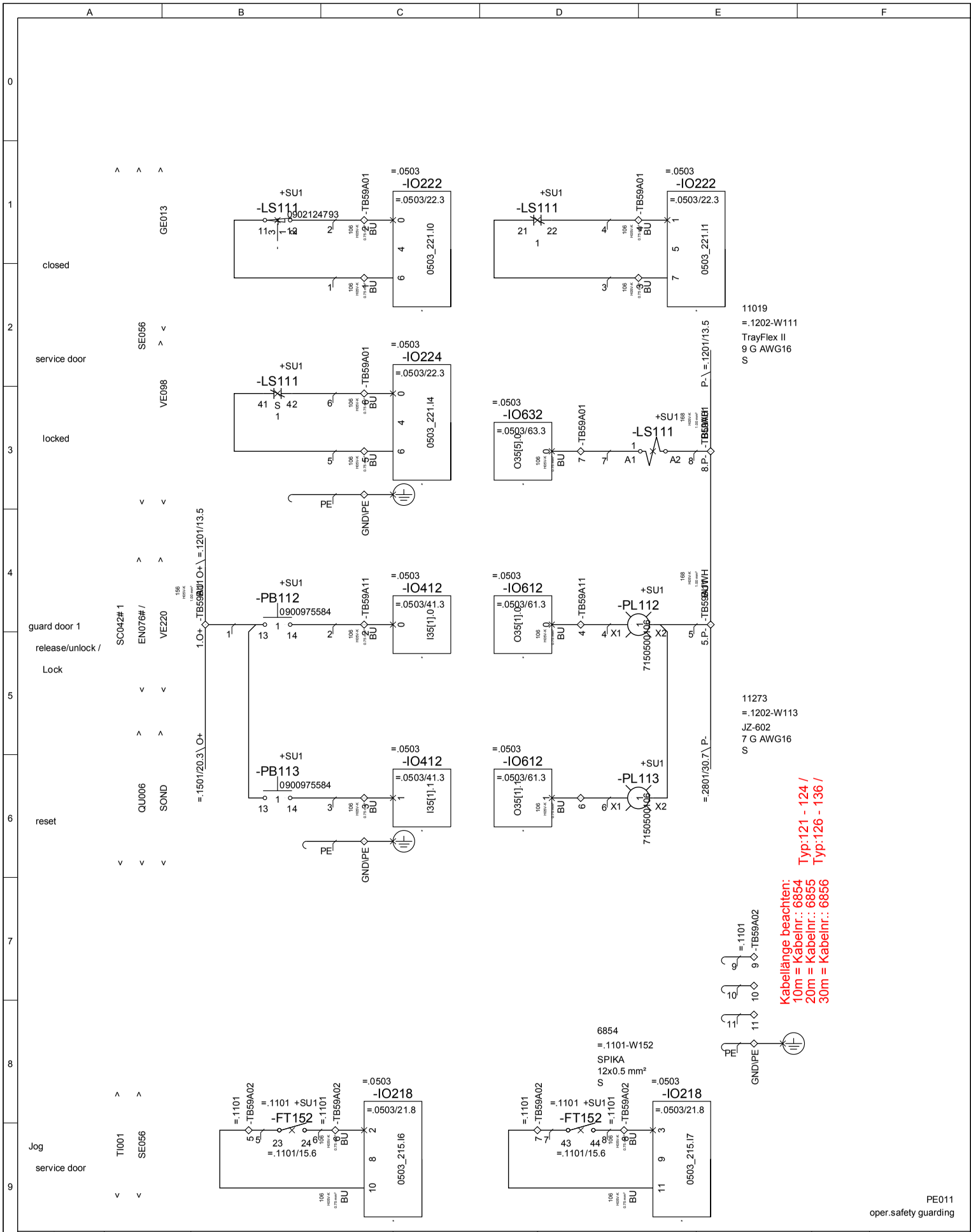


PE011
oper.safety guarding

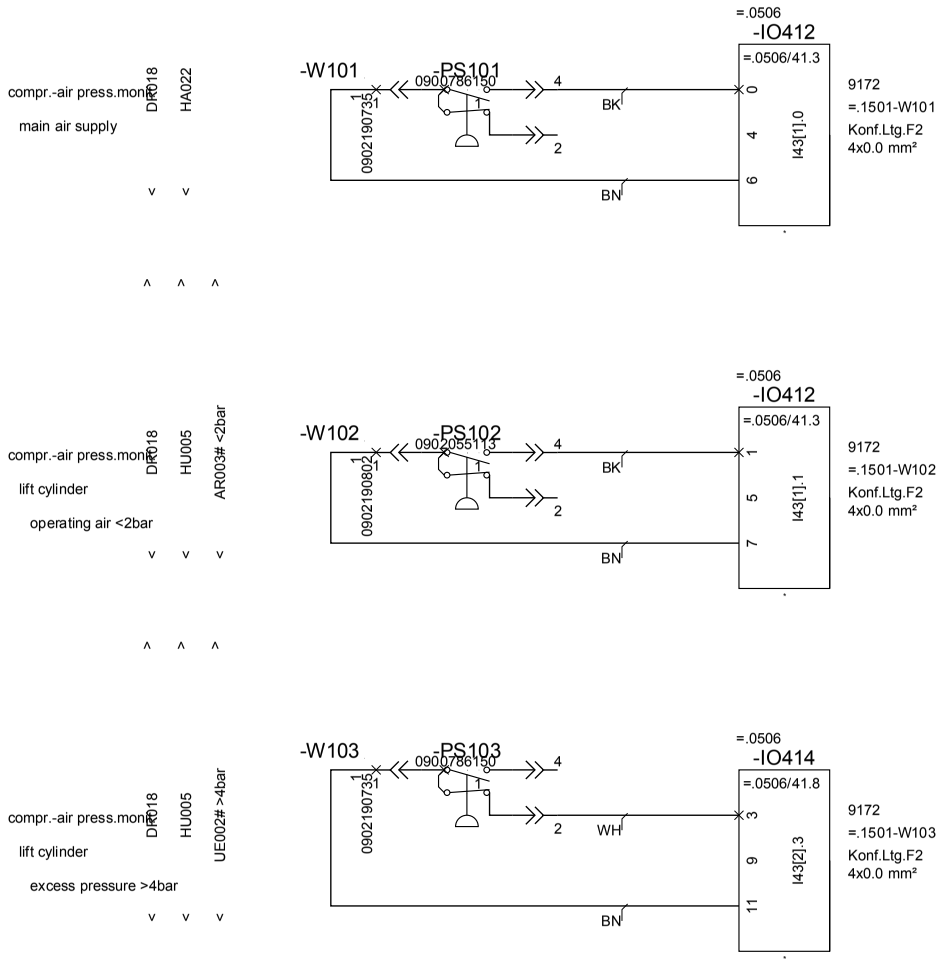
date	18.04.2013	machine type filler	KRONES	guard door 3	equi. K123989	+SK1	=FU1.1201
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 13 172/348
		version/ 02		SFT_FUG0_201301 12/01113			



date	26.04.2013	machine type filler	KRONES	protective relay	equi. K123989	+SK1	=FU1.1201
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 20 173/348
		version/ 02		SFT_FUG0_201301 12/01011			

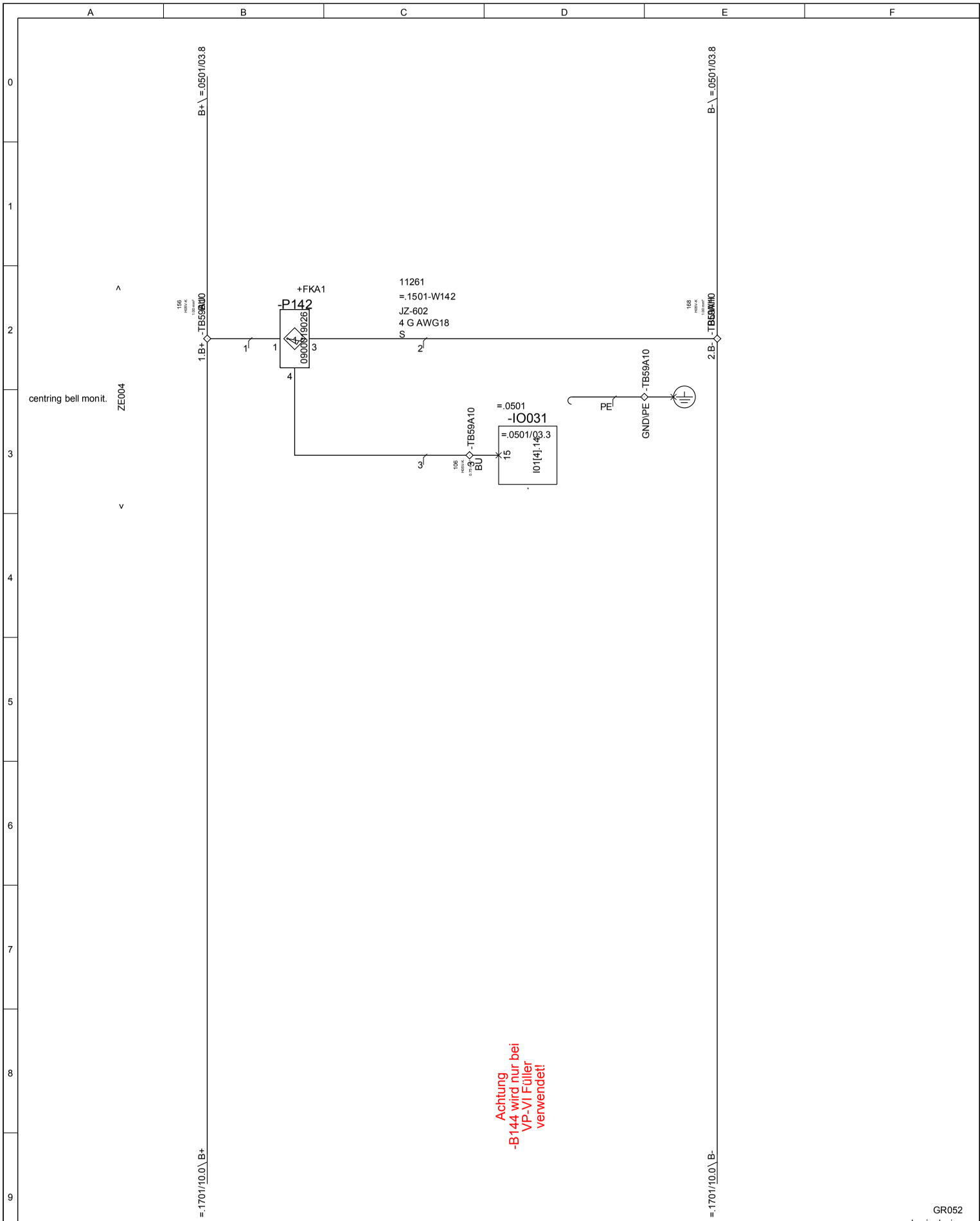


date	29.04.2013	machine type filler	KRONES	guard door 1	equi. K123989	+SK1	=FU1.1202
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 11 174/348
		version/ 02		SFT_FUG0_201301 12/01211			



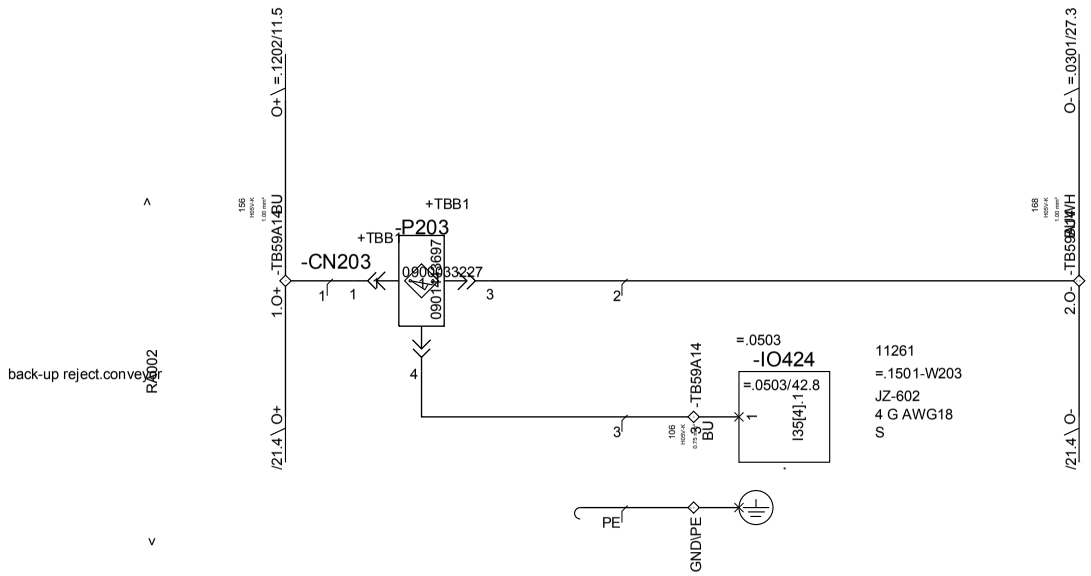
GR052
basic design

date	19.04.2013	machine type filler	KRONES	pressure switch	equi. K123989	+KPV1	=FU1.1501
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 10 175/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 15/01023			



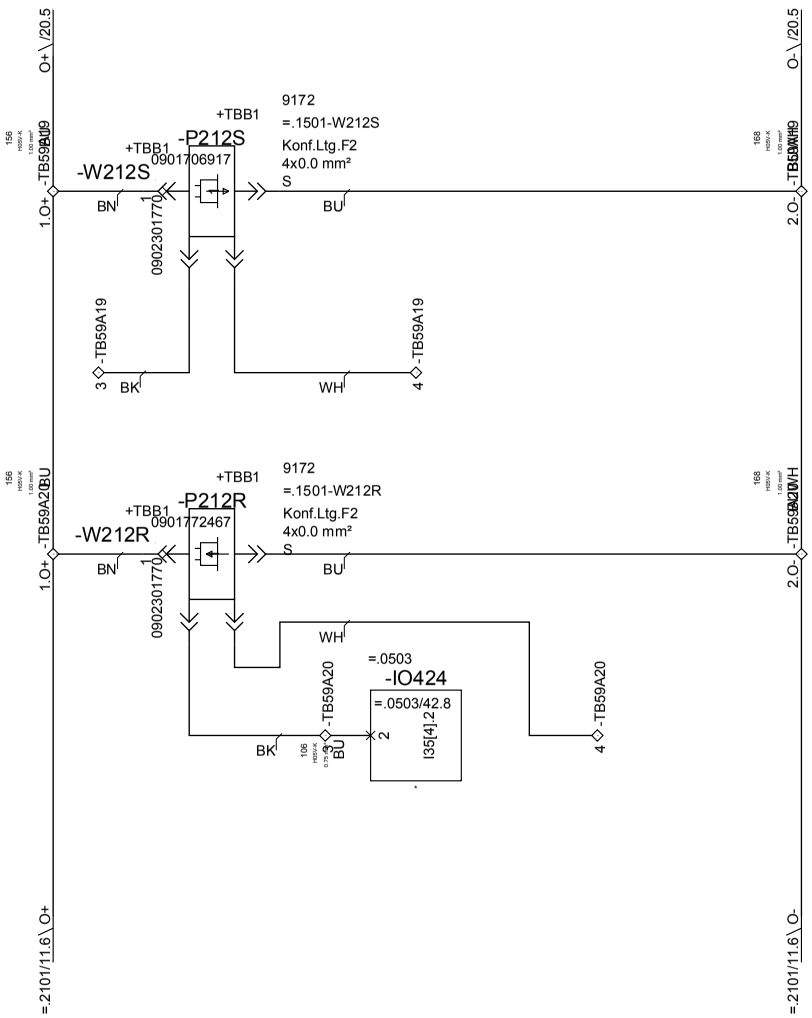
GR052
basic design

date	19.04.2013	machine type filler	KRONES	monitoring	equi. K123989	+SK1	=FU1.1501
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 14 176/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 15/01023			



GR052
basic design

date	19.04.2013	machine type filler	KRONES	monitoring	equi. K123989	+SK1	=FU1.1501
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 20 177/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 15/01023			

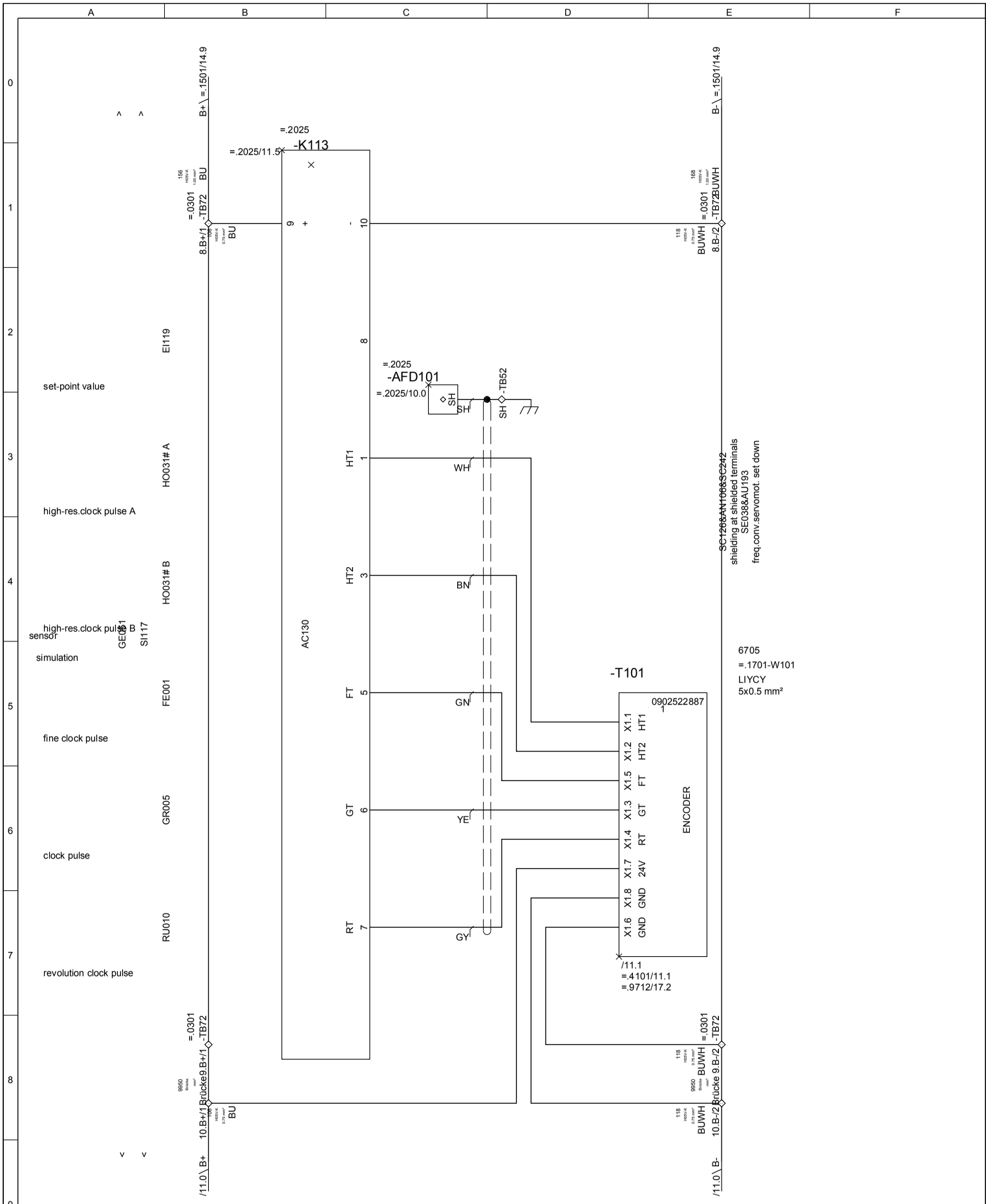


back-up RU005 VE005

accumulation table

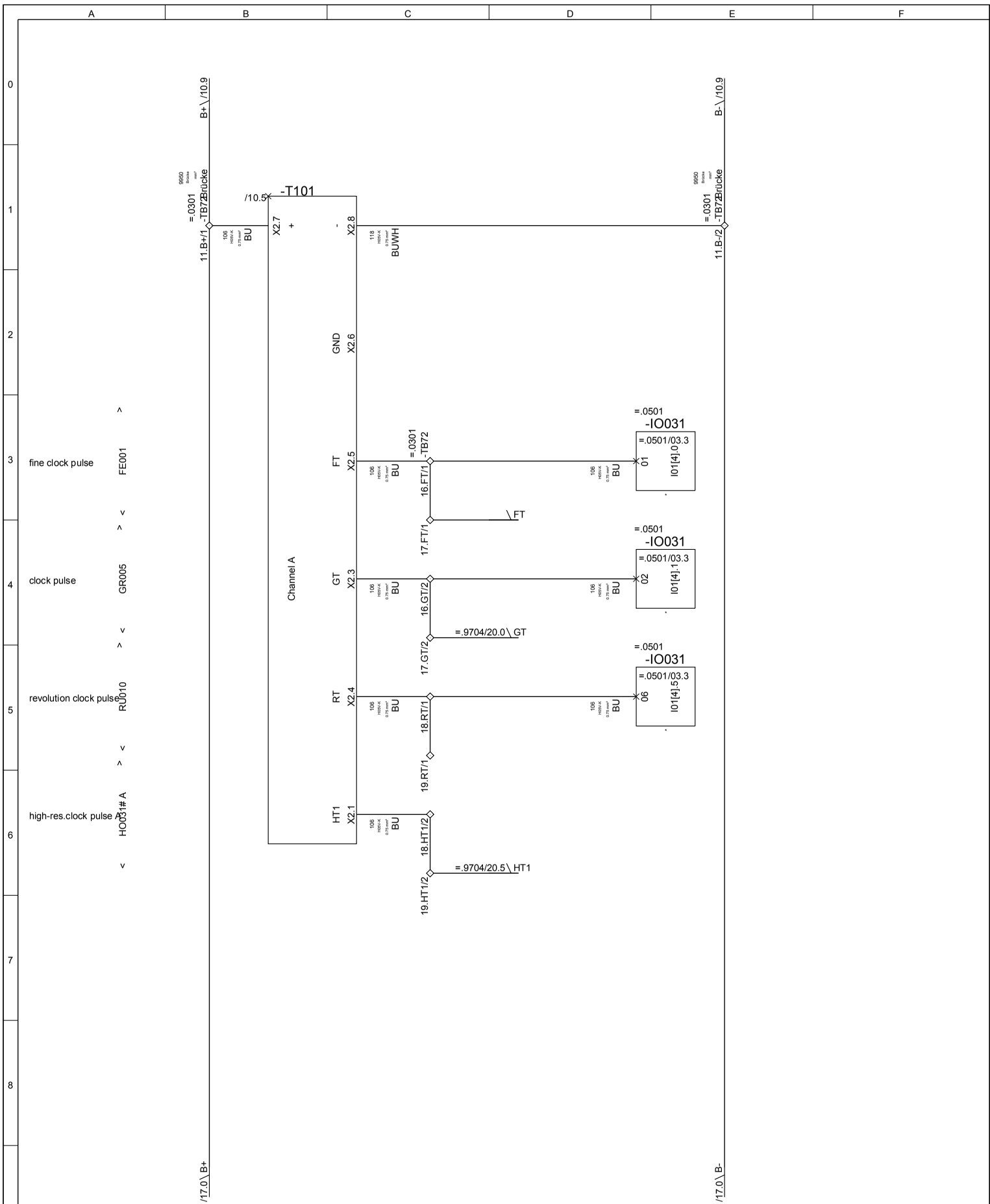
GR052
basic design

date	19.04.2013	machine type filler		monitoring	equi. K123989	+SK1	=FU1.1501
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS	KRONES	client Lagunitas Brewing Company	K123989-001	STR	sheet 21 178/348
		version/ 02		SFT_FUG0_201301 15/01023			



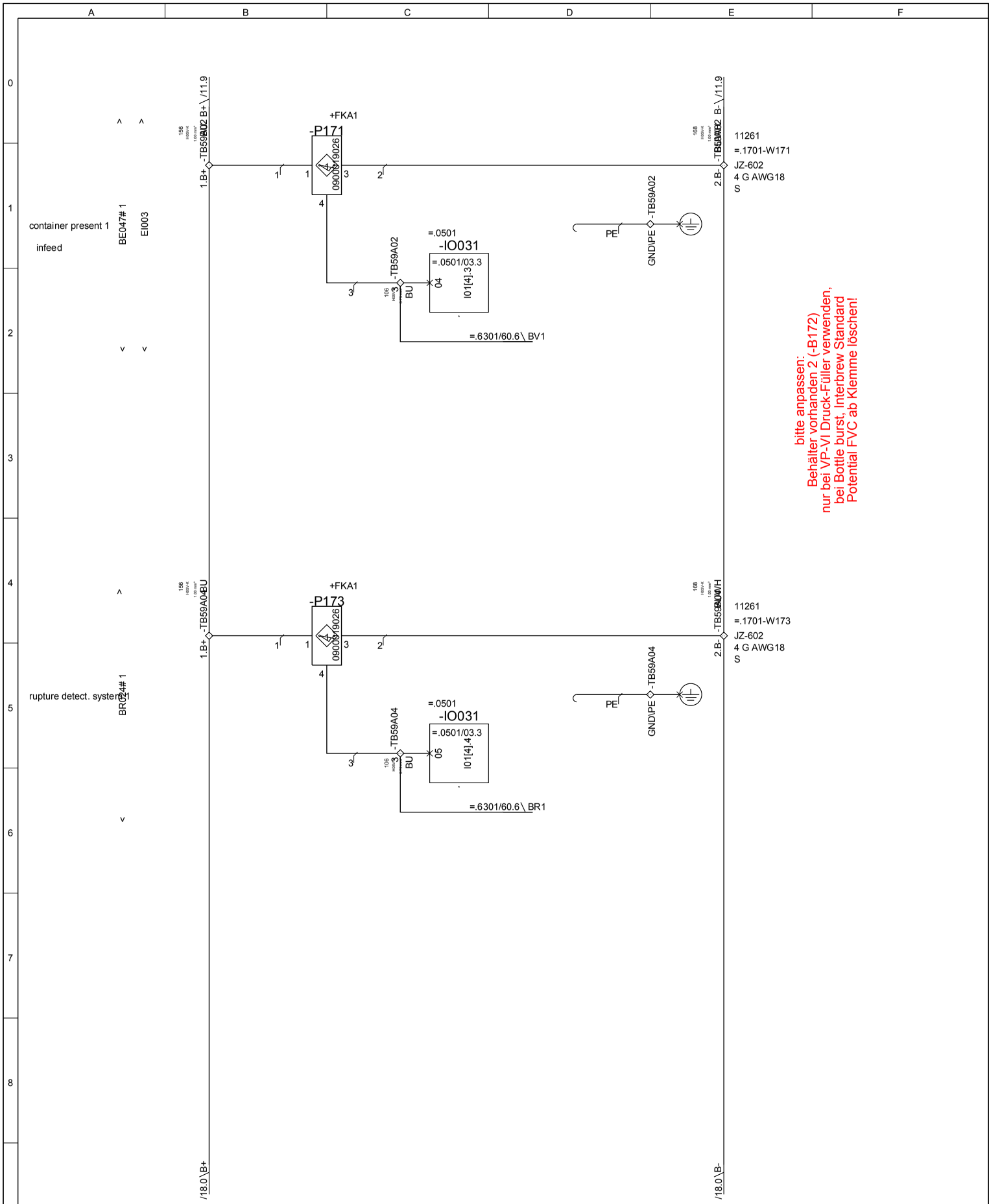
date	23.04.2013	machine type	filler	clock pulse generation	equi. K123989	+SK1	=FU1.1701
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 10 179/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 17/01501			

KRONES

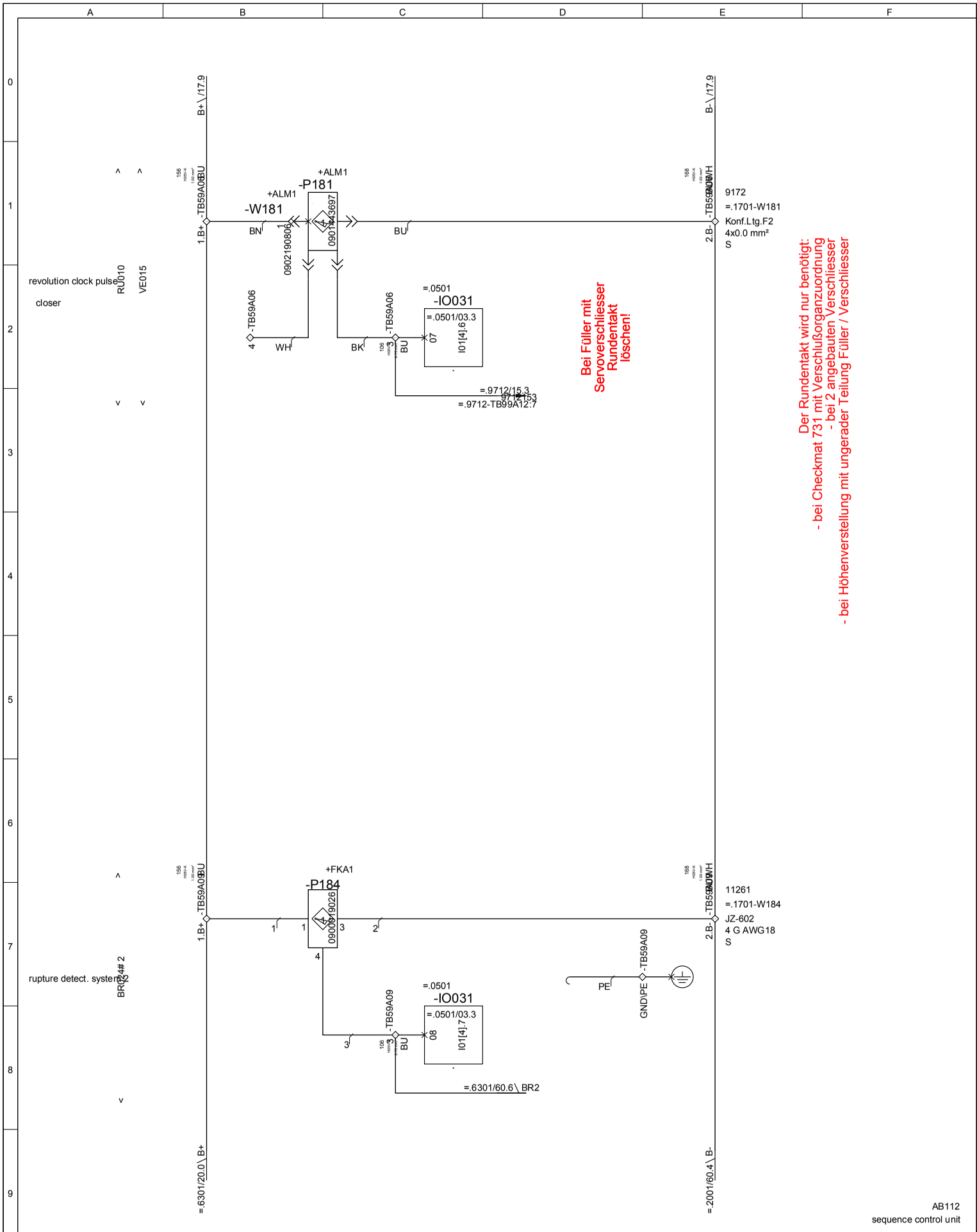


AB112
sequence control unit

date	23.04.2013	machine type filler	KRONES	clock pulse generation	equi. K123989	+SK1	=FU1.1701
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 11 180/348
		version/ 02		SFT_FUG0_201301 17/01501			

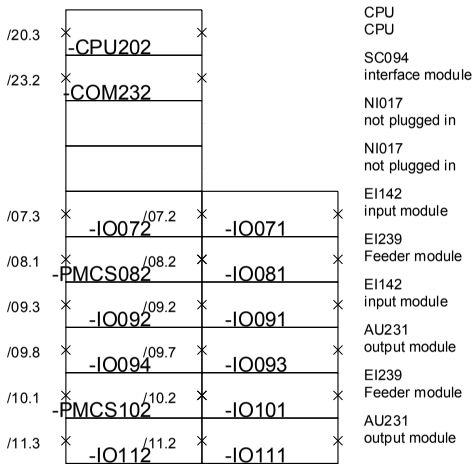


date	23.04.2013	machine type	filler	signals	equi. K123989	+SK1	=FU1.1701
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 17 181/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 17/01501			



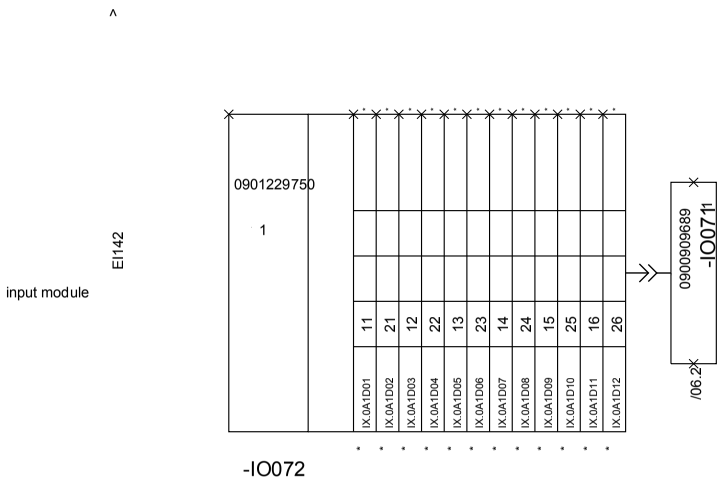
date	23.04.2013	machine type filler	KRONES	revolution clock pulseSV/KK	equi. K123989	+SK1	=FU1.1701
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 18 182/348
		version/ 02		SFT_FUG0_201301 17/01501			

plug-in slot assignm. ST047



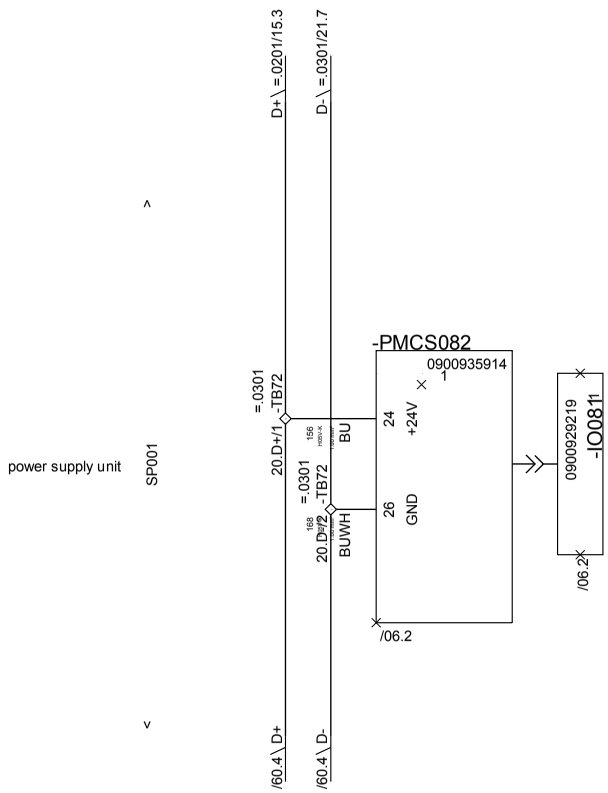
MA057
machine drive

date	23.04.2013	machine type filler	KRONES	rack structure X20	equi. K123989	+SK1	=FU1.2001
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 06 183/348
		version/ 02		Lagunitas Brewing Company			
				SFT_FUG0_201301 20/01002			



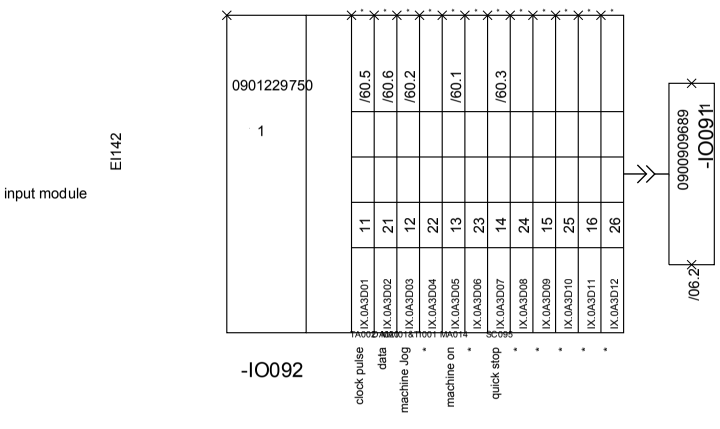
MA057
machine drive

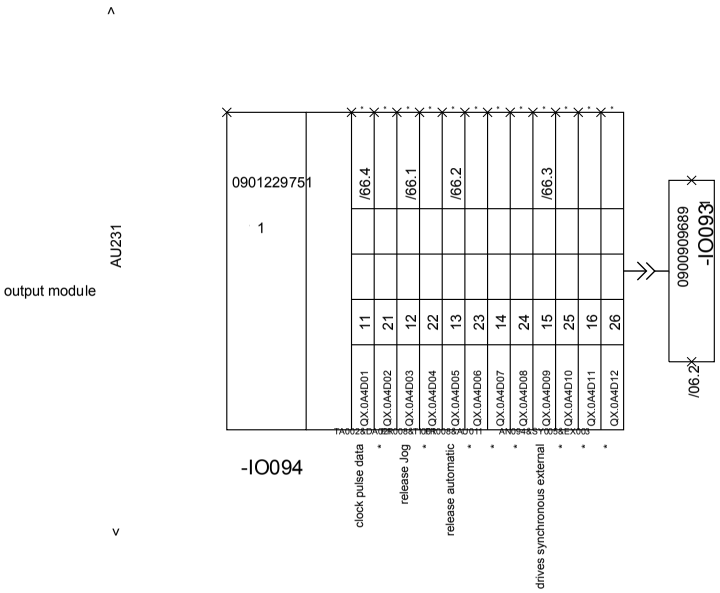
date	18.04.2013	machine type filler	KRONES	input/output module	equi. K123989	+SK1	=FU1.2001
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 07 184/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 20/01002			



MA057
machine drive

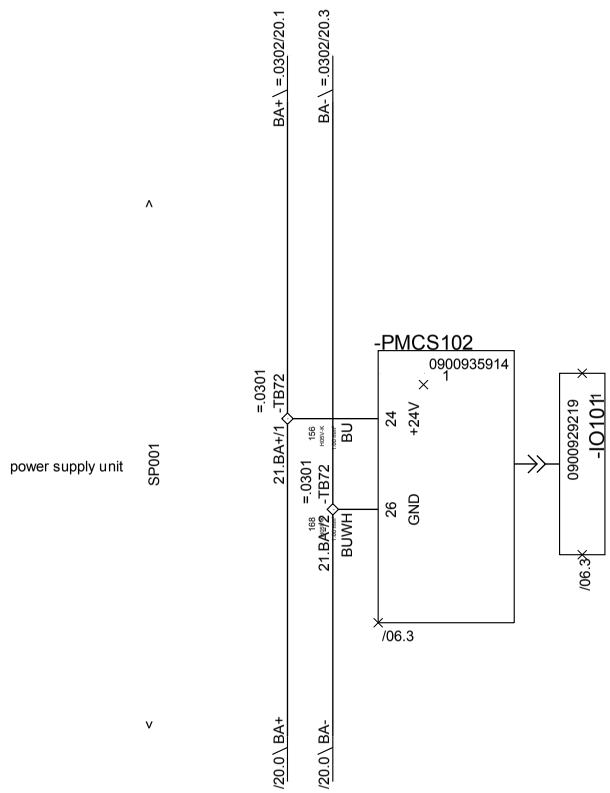
date	18.04.2013	machine type filler	KRONES	Feeder module	equi. K123989	+SK1	=FU1.2001
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 08 185/348
		version/ 02		SFT_FUG0_201301 20/01002			





MA057
machine drive

date	23.04.2013	machine type filler	KRONES	input/output module	equi. K123989	+SK1	=FU1.2001
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 09 186/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 20/01002			

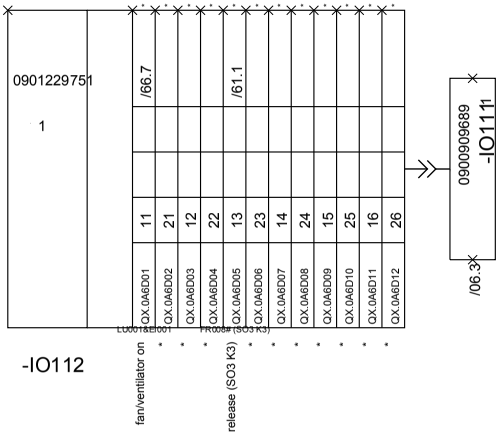


MA057
machine drive

date	18.04.2013	machine type filler	KRONES	Feeder module	equi. K123989	+SK1	=FU1.2001
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 10 187/348
		version/ 02		SFT_FUG0_201301 20/01002			

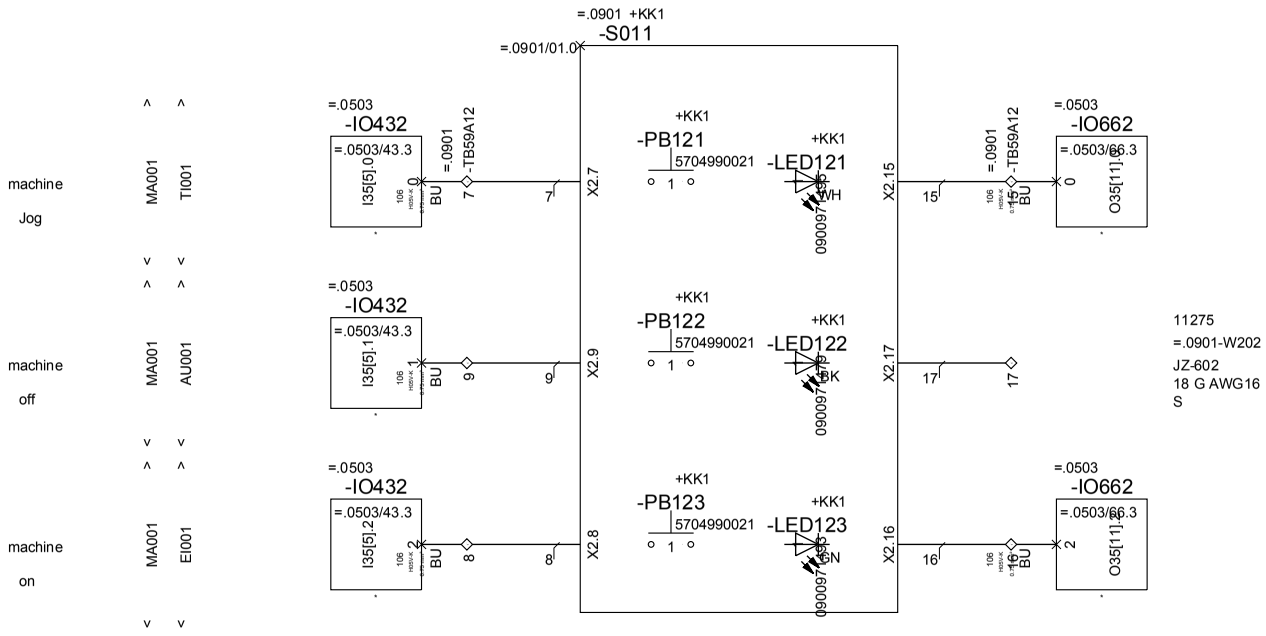
AU231

output module



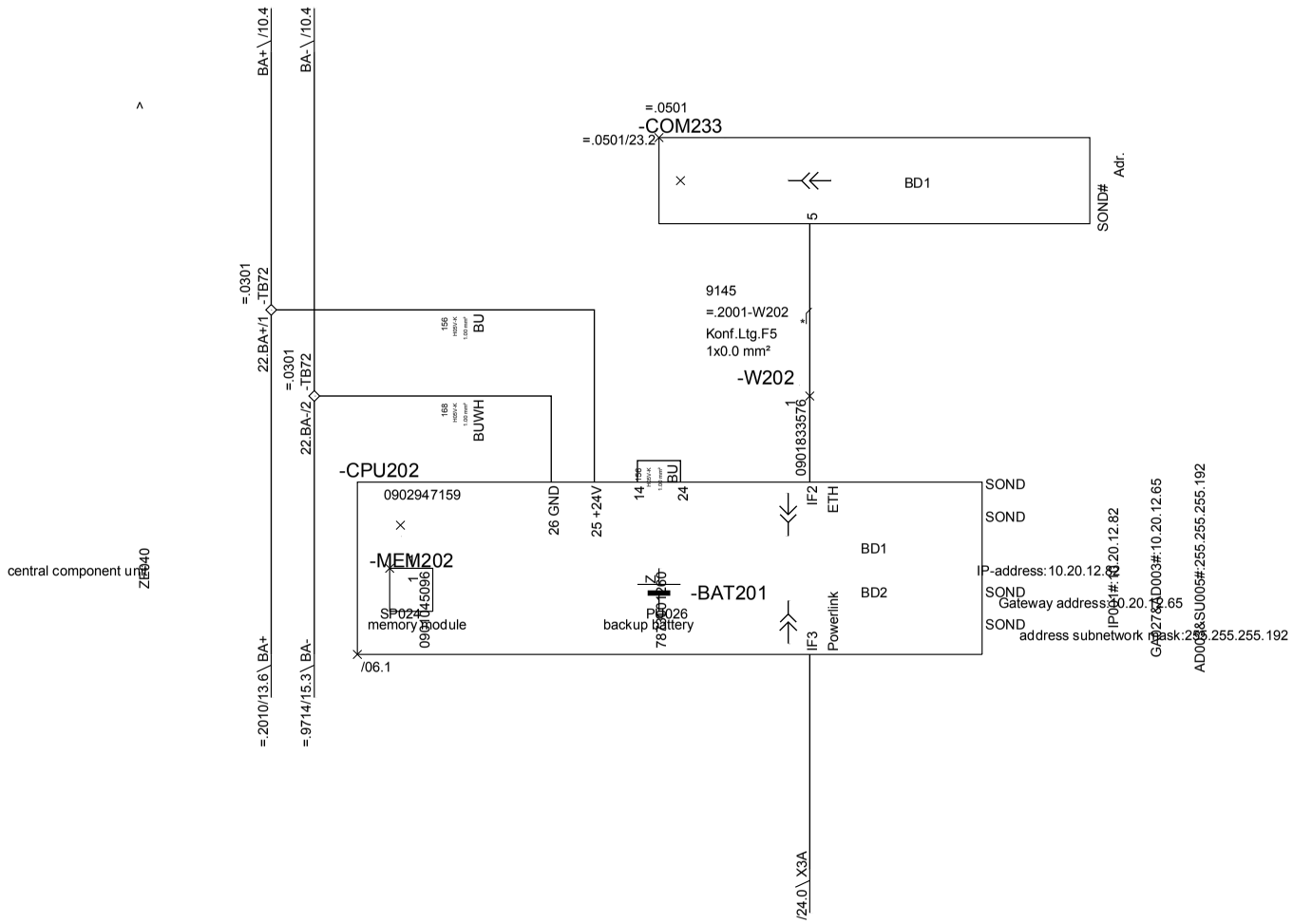
MA057
machine drive

date	23.04.2013	machine type filler	KRONES	input/output module	equi. K123989	+SK1	=FU1.2001
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 11 188/348
		version/ 02		SFT_FUG0_201301 20/01002			



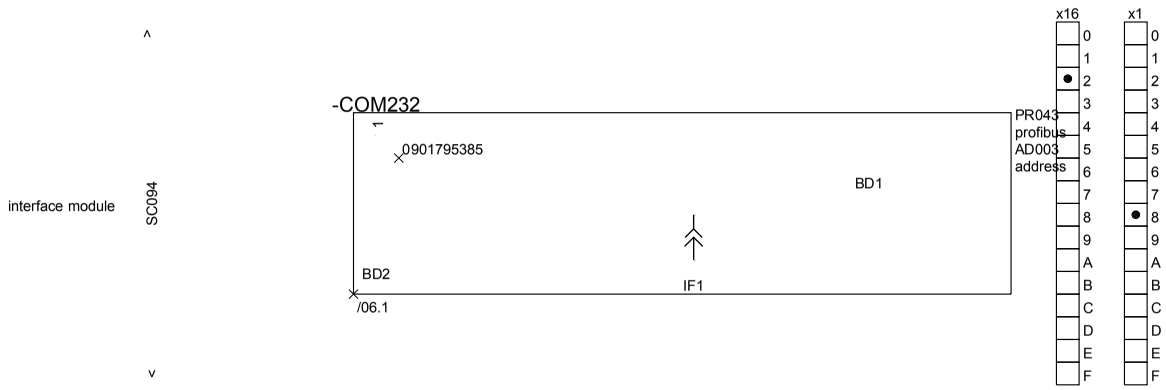
MA057
machine drive

date	18.04.2013	machine type filler	KRONES	operator control panel	equi. K123989	+SK1	=FU1.2001
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 12 189/348
		version/ 02		SFT_FUG0_201301 20/01002			



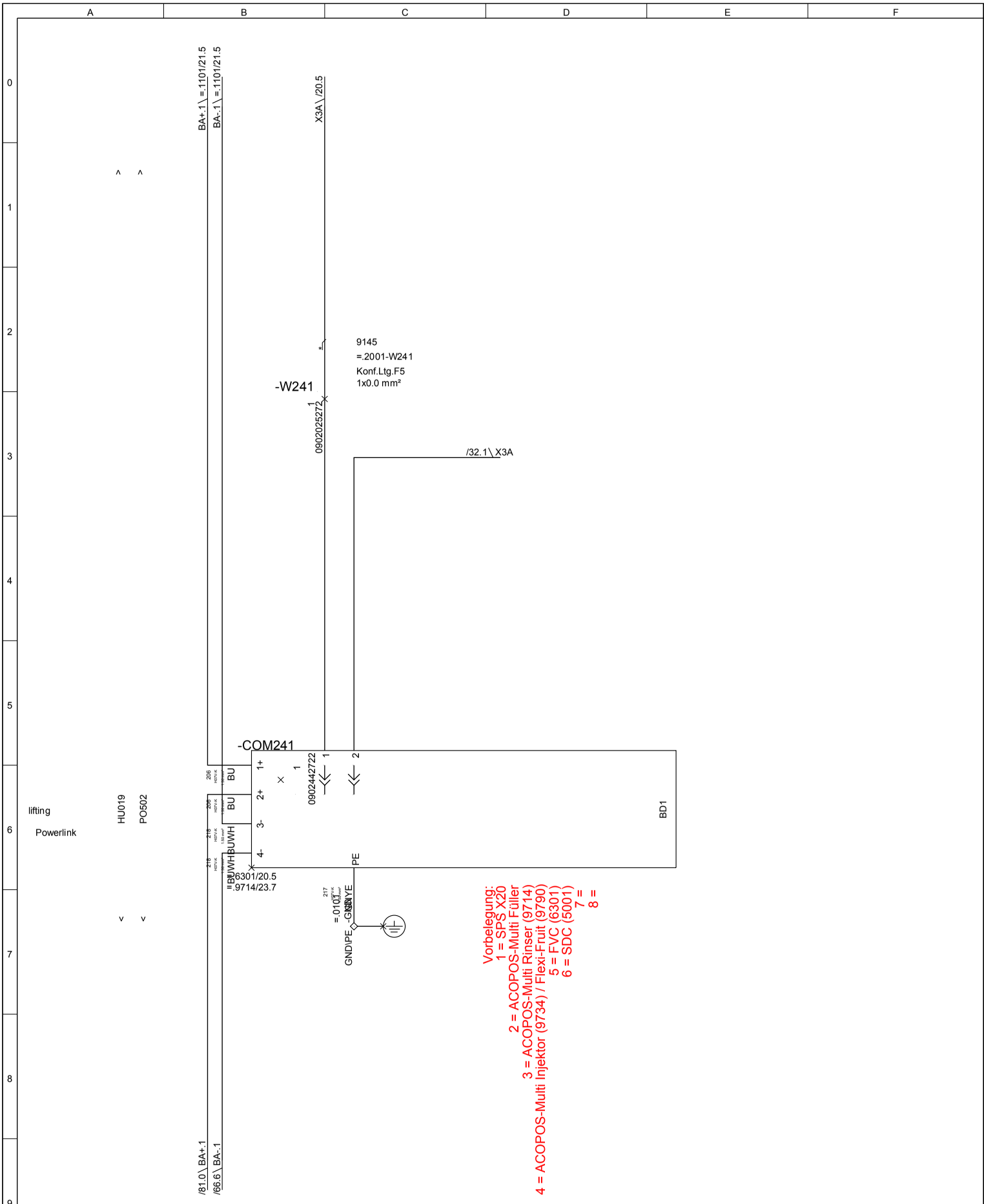
MA057
machine drive

date	22.04.2013	machine type filler	KRONES	CPU X20	equi. K123989	+SK1	=FU1.2001
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 20 190/348
		version/ 02		SFT_FUG0_201301 20/01002			

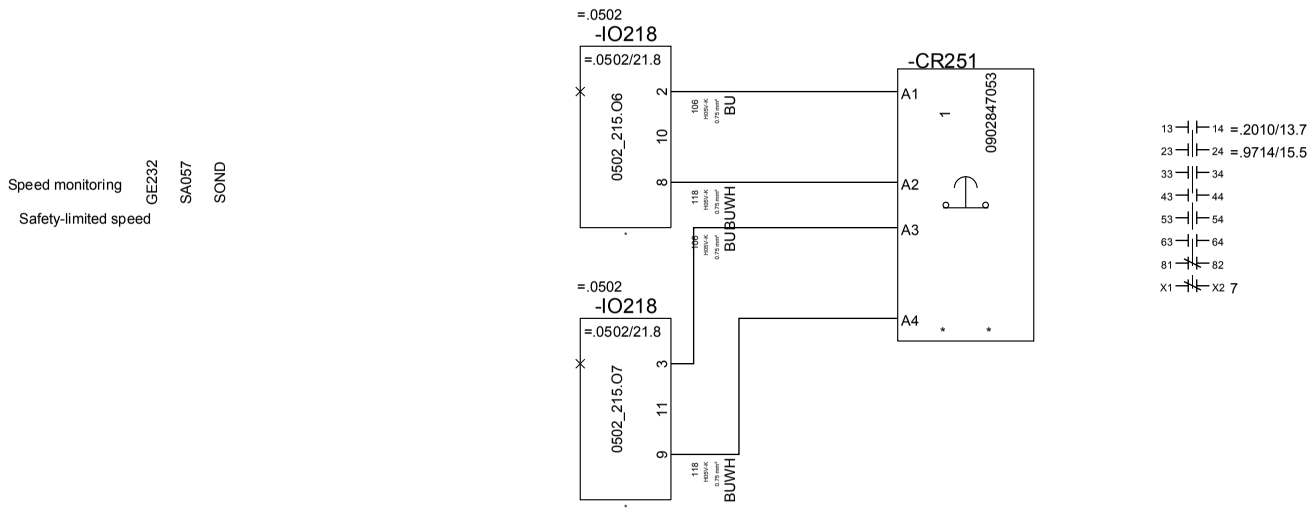


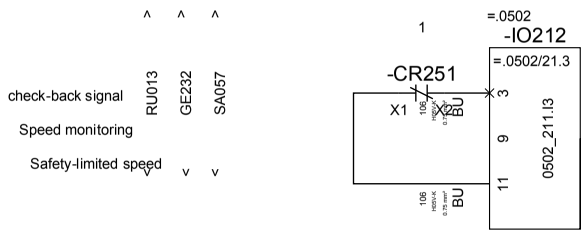
MA057
machine drive

date	18.04.2013	machine type filler	KRONES	interface module	equi. K123989	+SK1	=FU1.2001
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 23 191/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 20/01002			



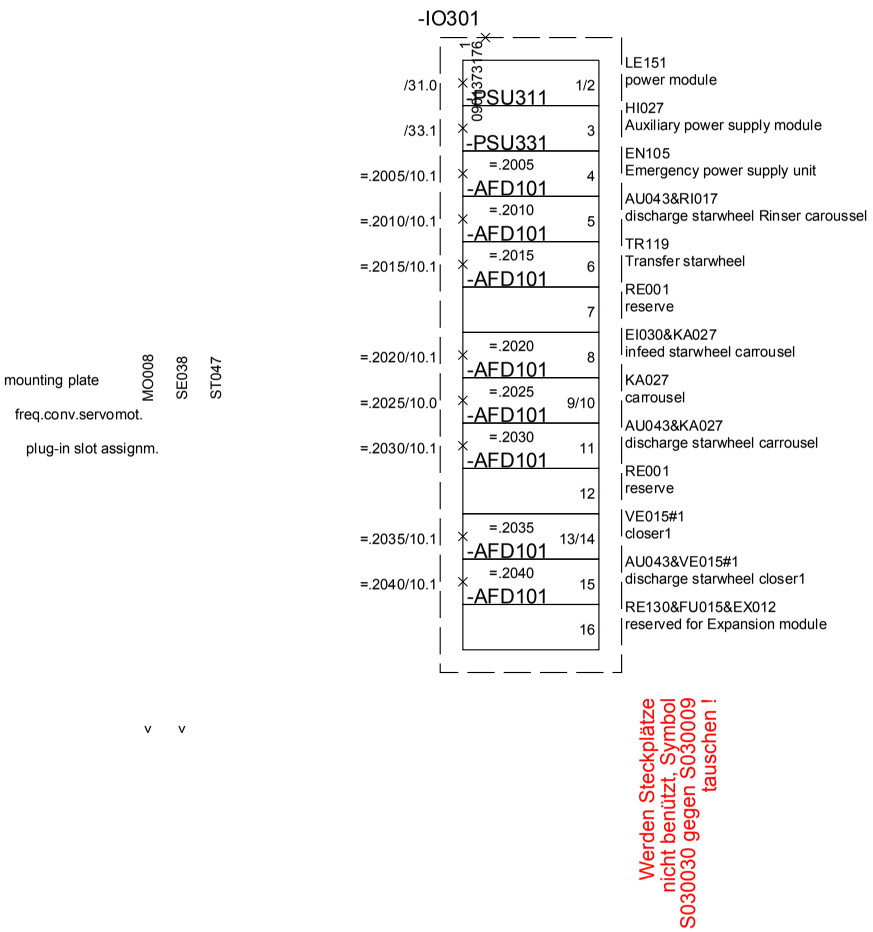
date	18.04.2013	machine type filler		Powerlink	equi. K123989	+SK1	=FU1.2001
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS	KRONES	client Lagunitas Brewing Company	K123989-001	STR	sheet 24 192/348
		version/ 02		SFT_FUG0_201301 20/01002			





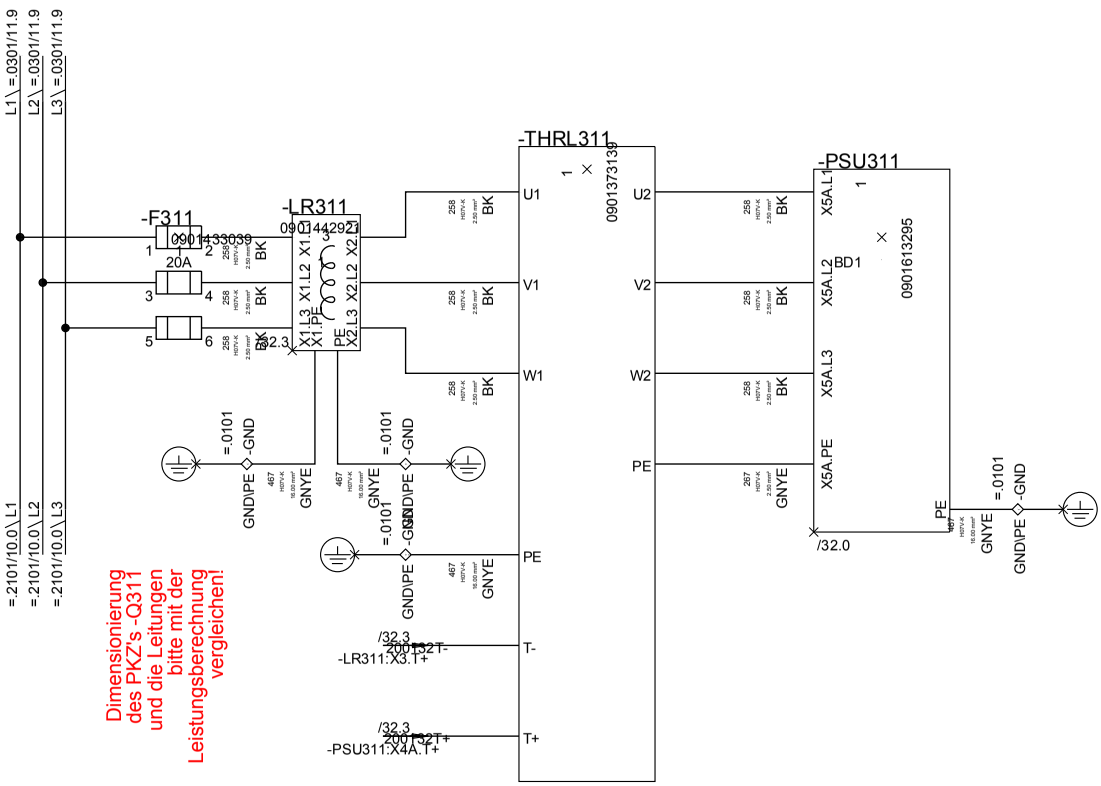
MA057
machine drive

date	23.04.2013	machine type filler		Speed monitoring	equi. K123989	+SK1	=FU1.2001
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS	KRONES	client Lagunitas Brewing Company	K123989-001	STR	sheet 25 193/348
		version/ 02		SFT_FUG0_201301 20/01002			



MA057
machine drive

date	23.04.2013	machine type filler	KRONES	rack structure ACOPOS	equi. K123989	+SK1	=FU1.2001
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 30 194/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 20/01211			

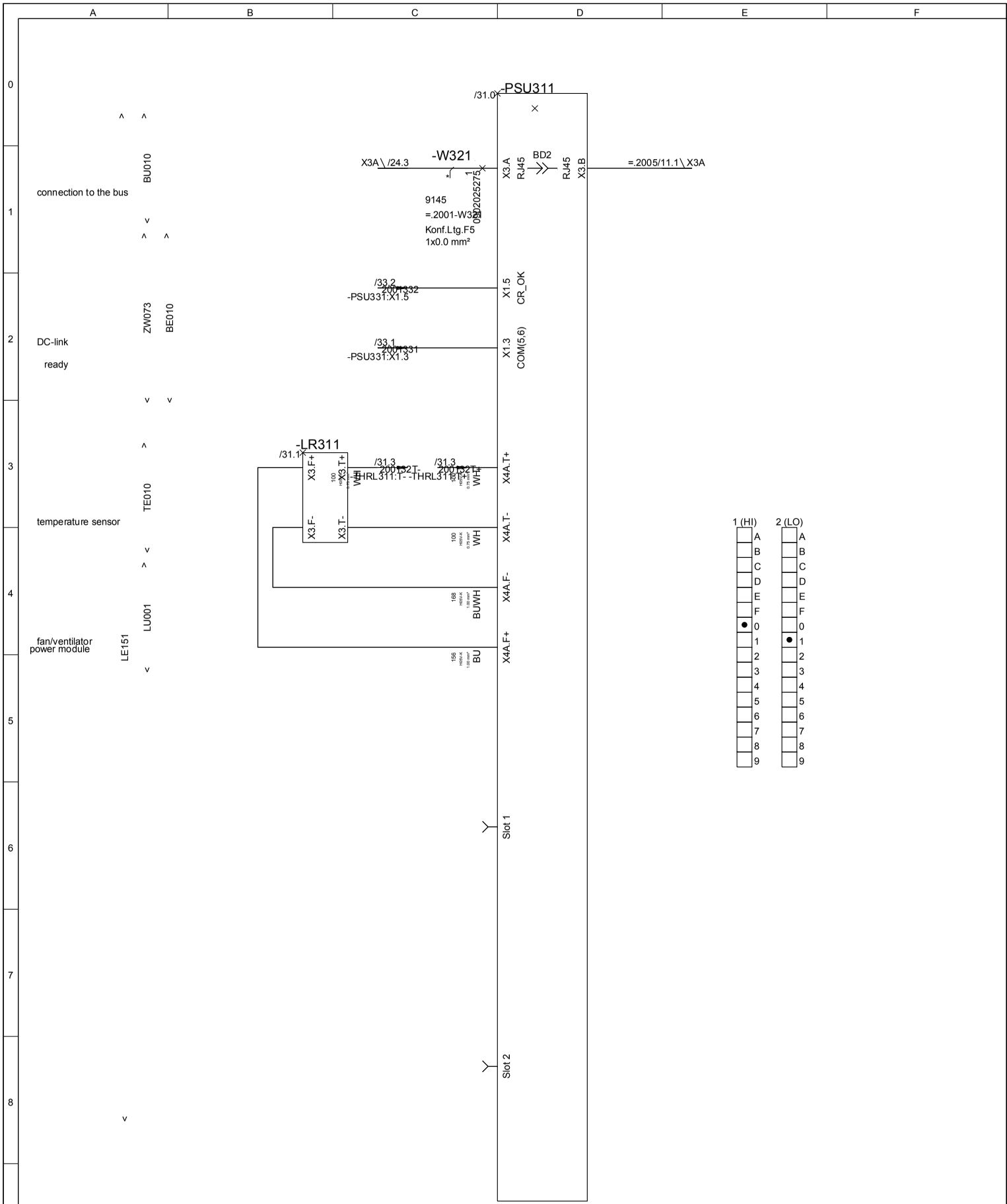


power supply unit SP001 LE151

power module

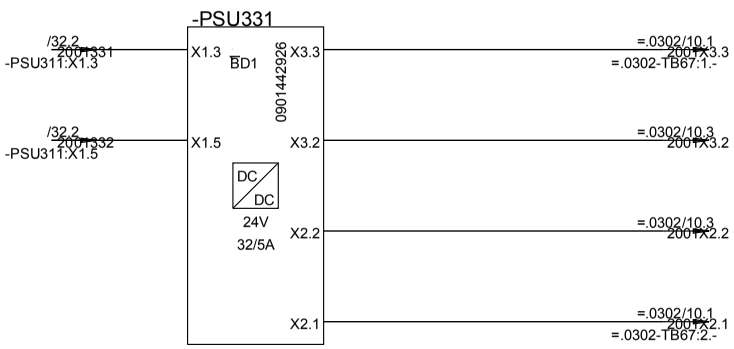
MA057
machine drive

date	26.04.2013	machine type filler	KRONES	power supply unit	equi. K123989	+SK1	=FU1.2001
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 31 195/348
		version/ 02		SFT_FUG0_201301 20/01002			



MA057
machine drive

date	18.04.2013	machine type filler	KRONES	power module	equi. K123989	+SK1	=FU1.2001
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 32 196/348
		version/ 02		SFT_FUG0_201301 20/01002			



Auxiliary power supply module

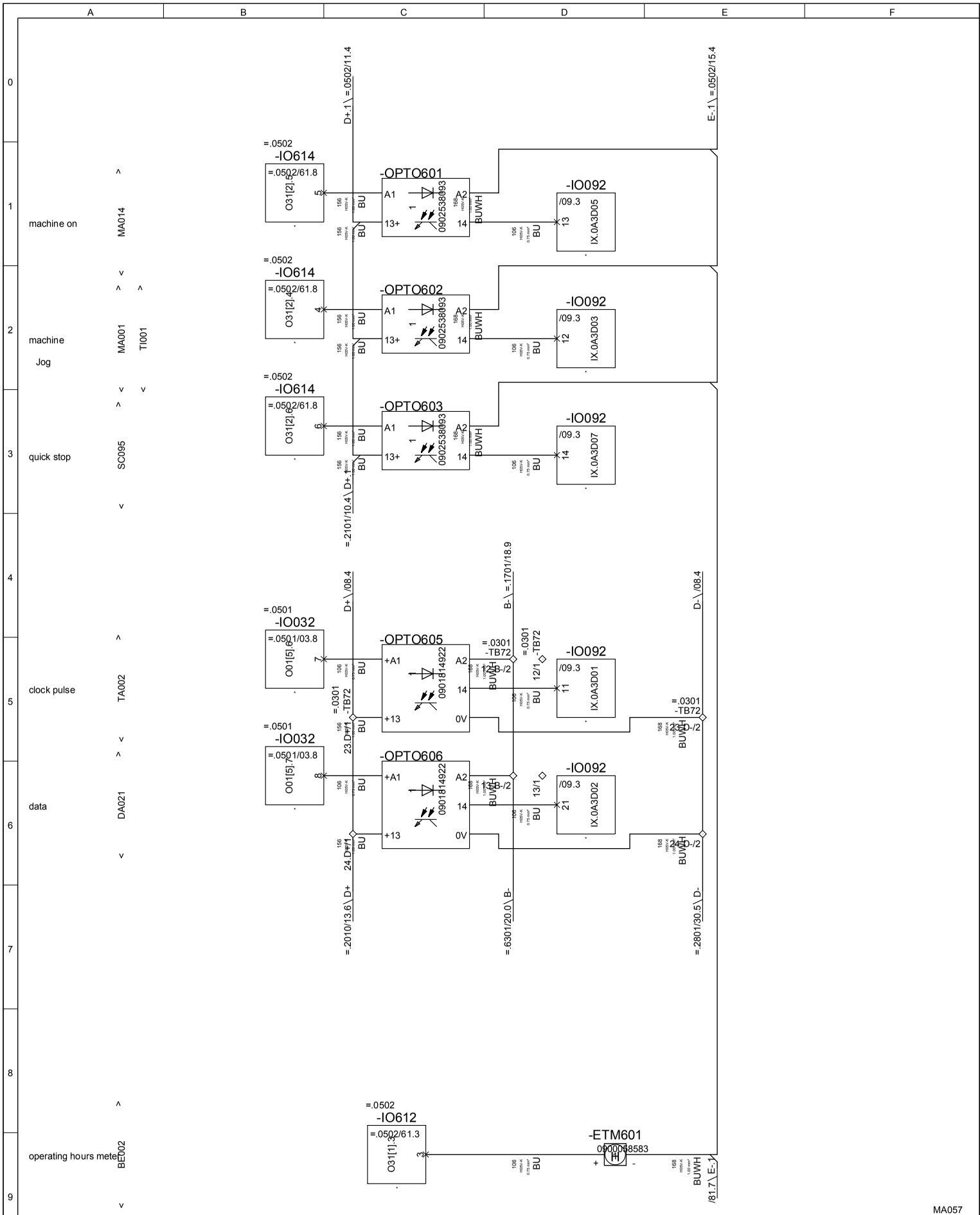
H1027

MA102
maximum
EI187# 25,9V
adjustment 25,9V

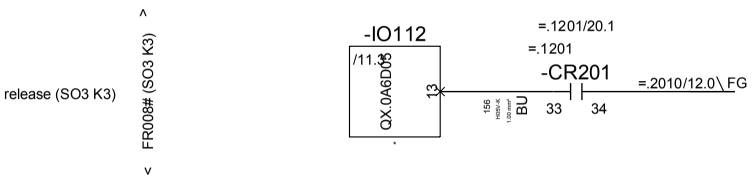
Dieses Hilfsversorgungsmodul
nur bei USV
verwenden!

MA057
machine drive

date	19.04.2013	machine type filler	KRONES	Auxiliary power supply module	equi. K123989	+SK1	=FU1.2001
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 33 197/348
		version/ 02		SFT_FUG0_201301 20/01002			

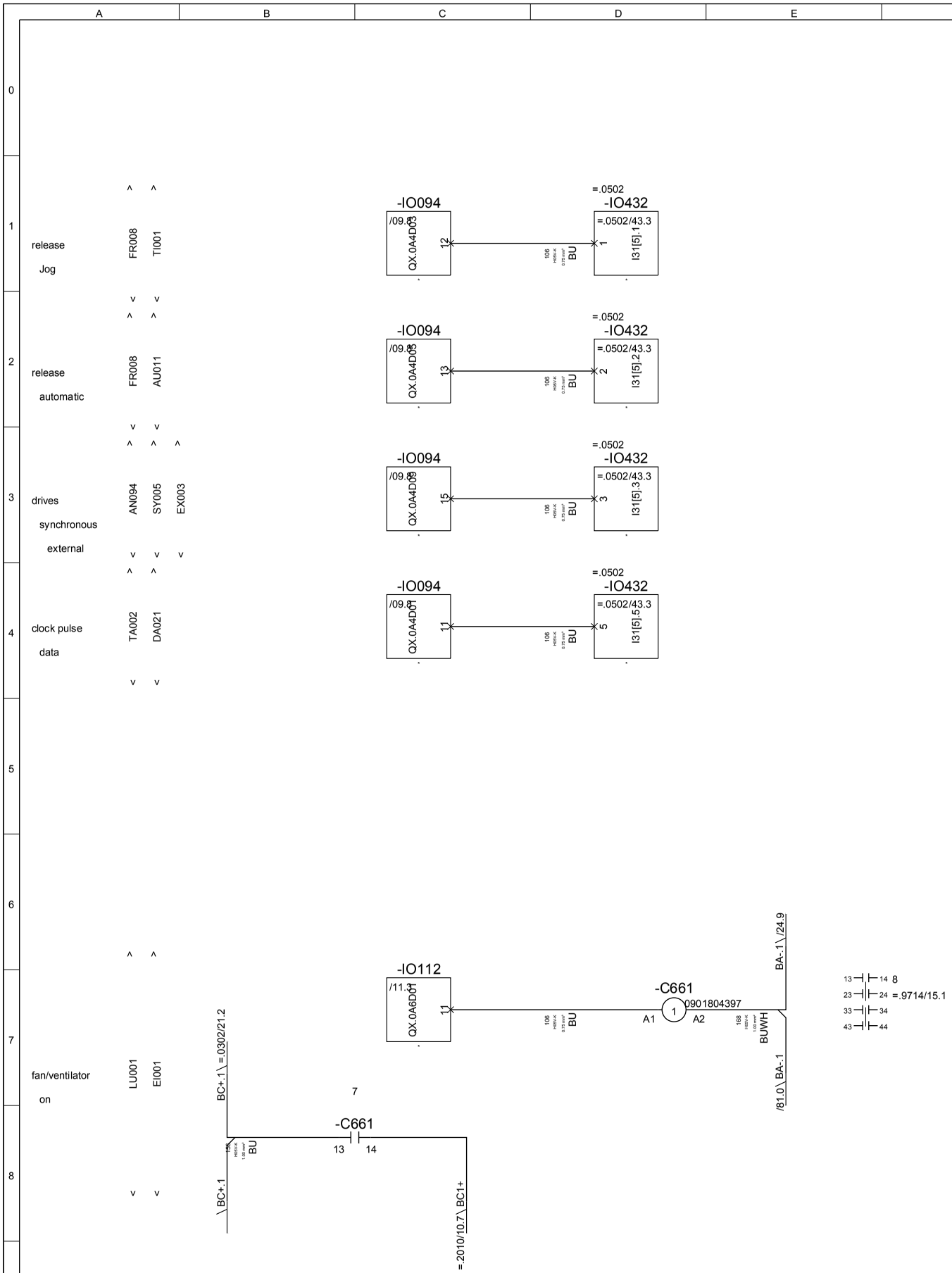


date	18.04.2013	machine type filler		digital inputs	equi. K123989	+SK1	=FU1.2001
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS	KRONES	client	K123989-001	STR	sheet 60 198/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 20/01002			



MA057
machine drive

date	23.04.2013	machine type filler	KRONES	release	equi. K123989	+SK1	=FU1.2001
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 61 199/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 20/01002			

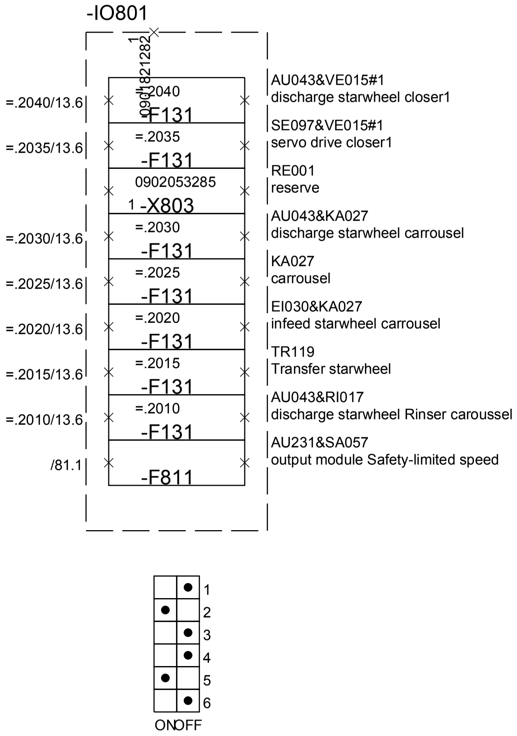


MA057
machine drive

date	18.04.2013	machine type filler	KRONES	signals	equi. K123989	+SK1	=FU1.2001
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 66 200/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 20/01002			

plug-in slot assignm. ST047

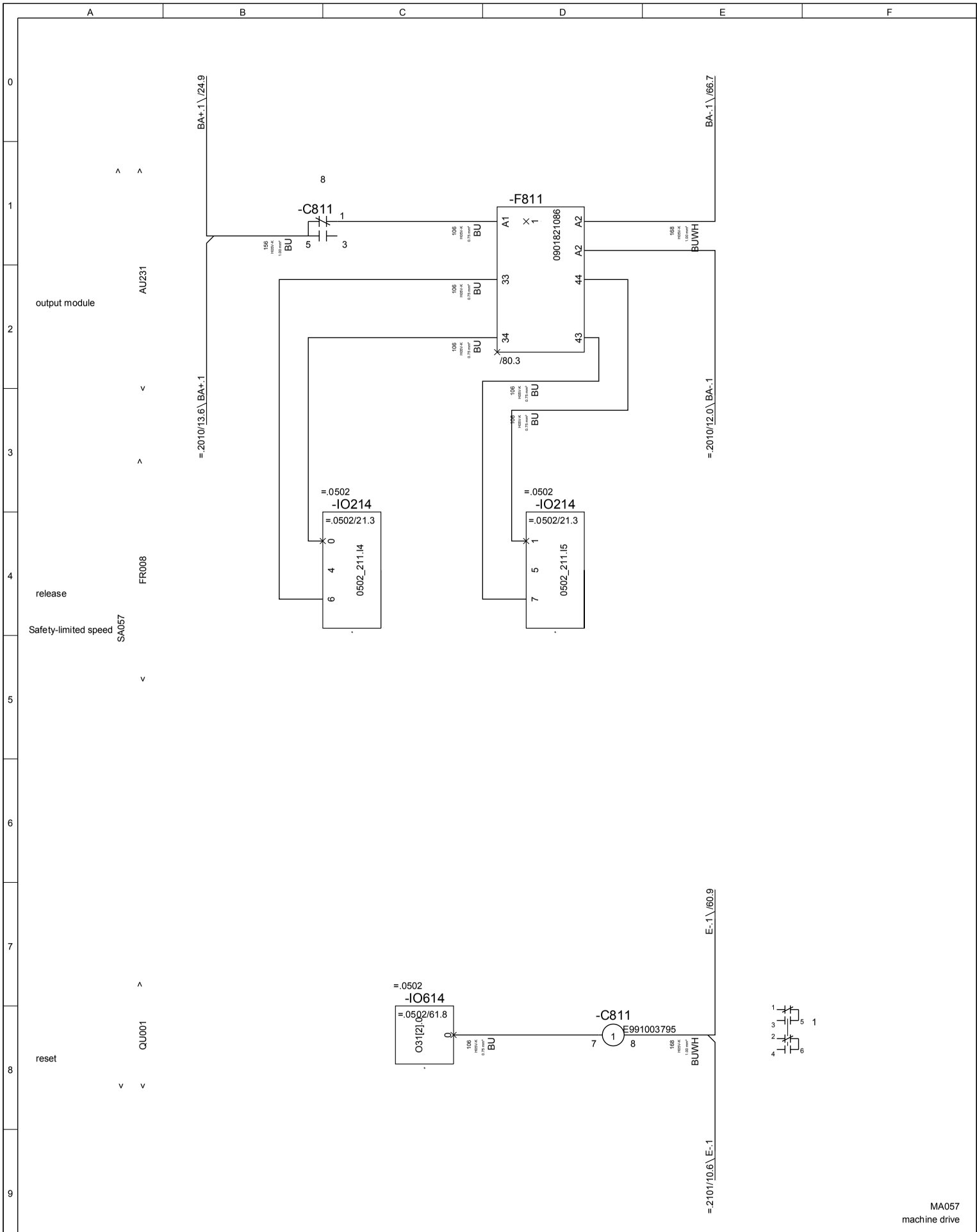
1 Steckplatz: 0901821215
2 Steckplätze: 0901821218
4 Steckplätze: 0901821280
6 Steckplätze: 0901821281
8 Steckplätze: 0901821282



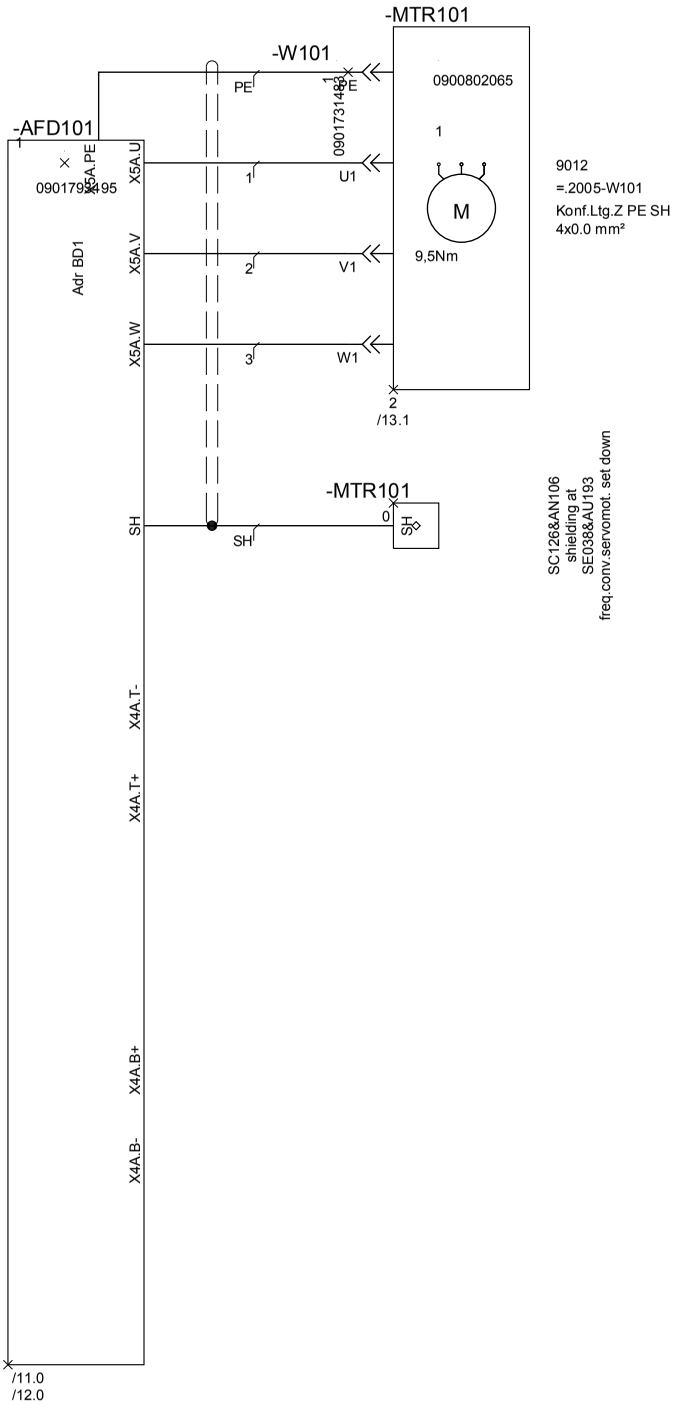
Freie Steckplätze
durch die Blindabdeckung
ersetzen und den
Normtext auf RE001 ändern!
Bei "Nichtbedarf"
Blindabdeckung löschen!

MA057
machine drive

date	23.04.2013	machine type	filler	plug-in slot assignm.	equi. K123989	+SK1	=FU1.2001
eng.	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 80
CAD	Krupka	version/	02	Lagunitas Brewing Company			201/348
			KRONES	SFT_FUG0_201301 20/01211			



date	18.04.2013	machine type filler	KRONES	Safety-limited speed	equi. K123989	+SK1	=FU1.2001
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 81 202/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 20/01211			

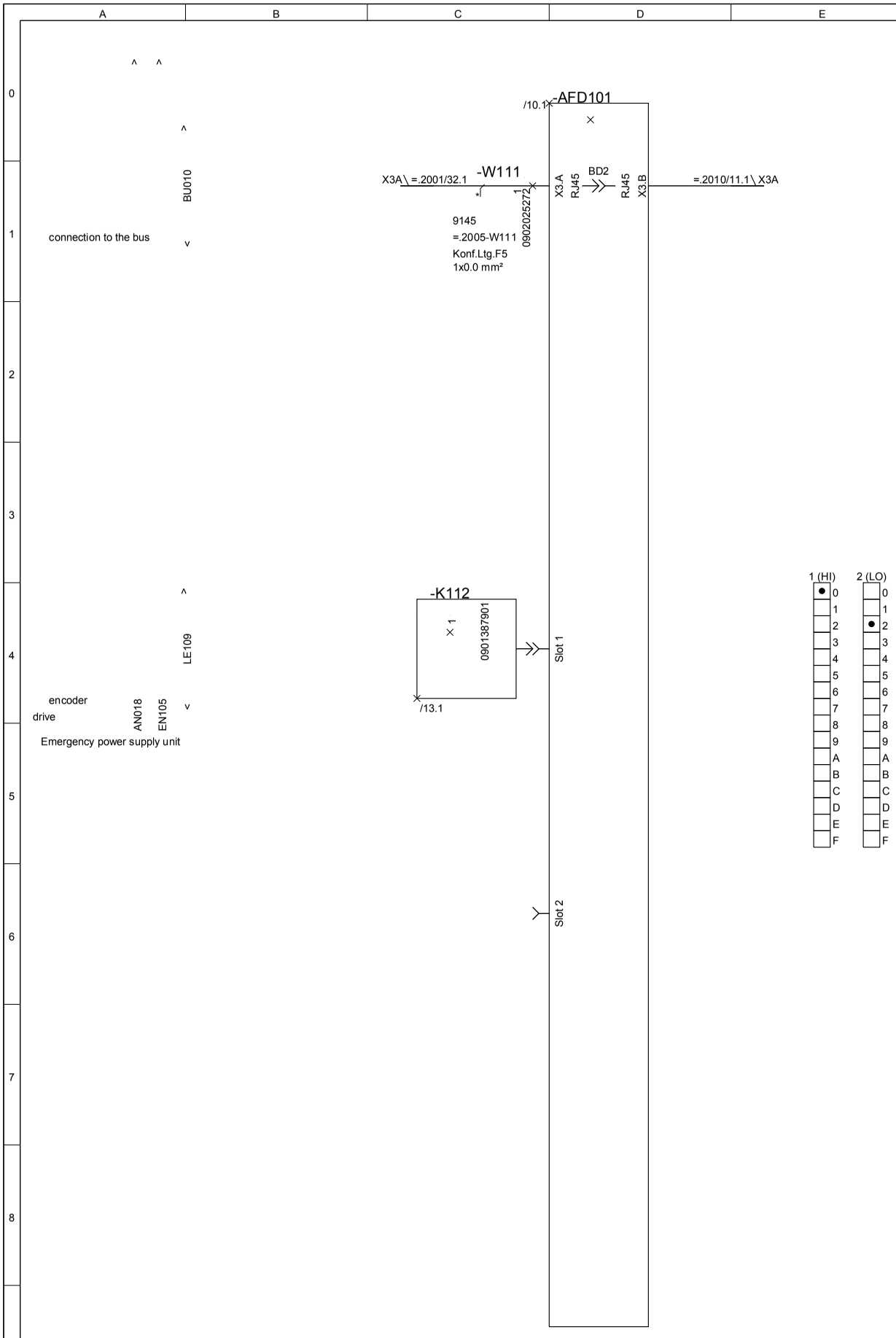


drive AN018 EN105

Emergency power supply unit

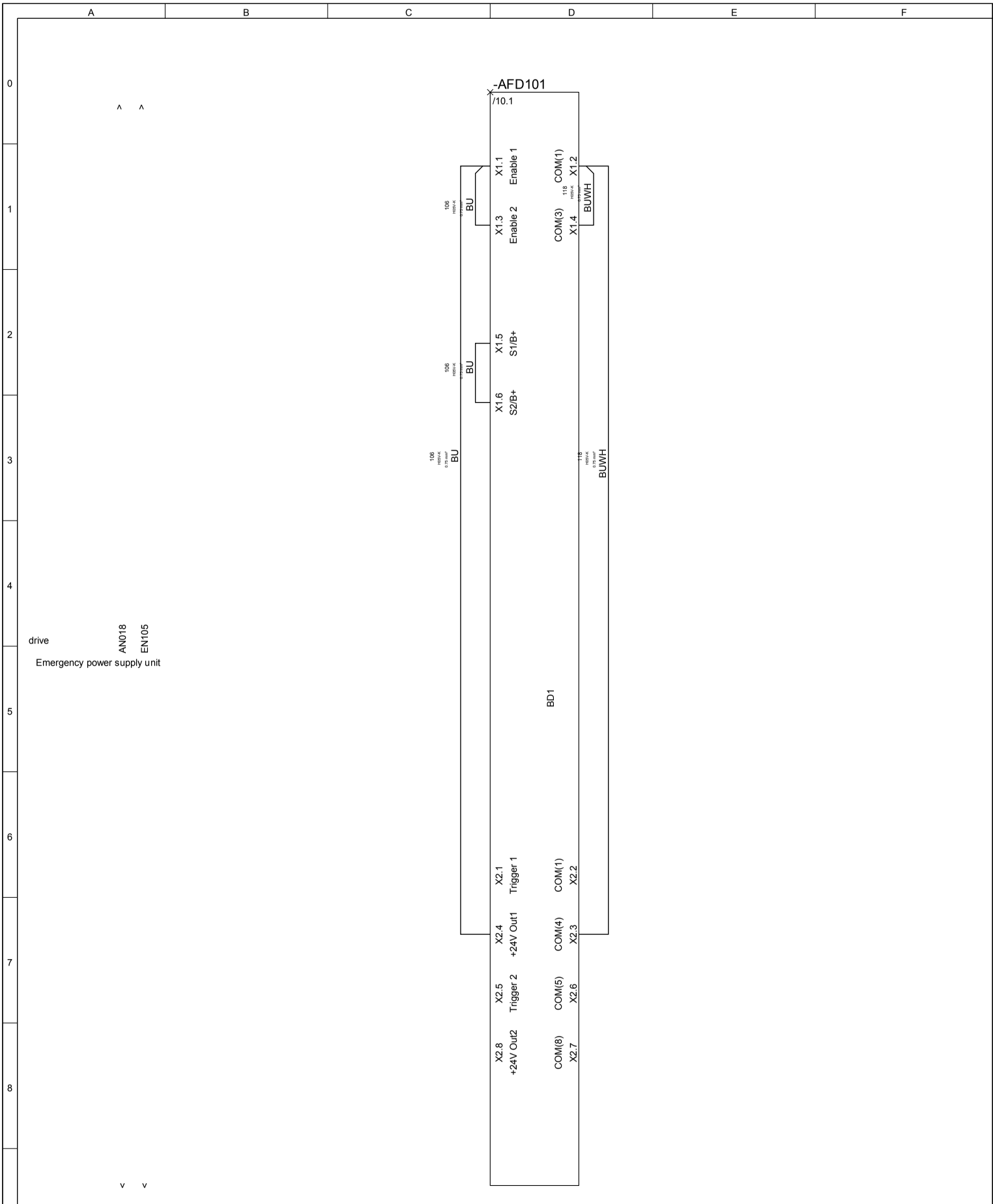
MA057
machine drive

date	18.04.2013	machine type filler	KRONES	Emergency power supply unit	equi. K123989	+SK1	=FU1.2005
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 10 203/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 20/01505			



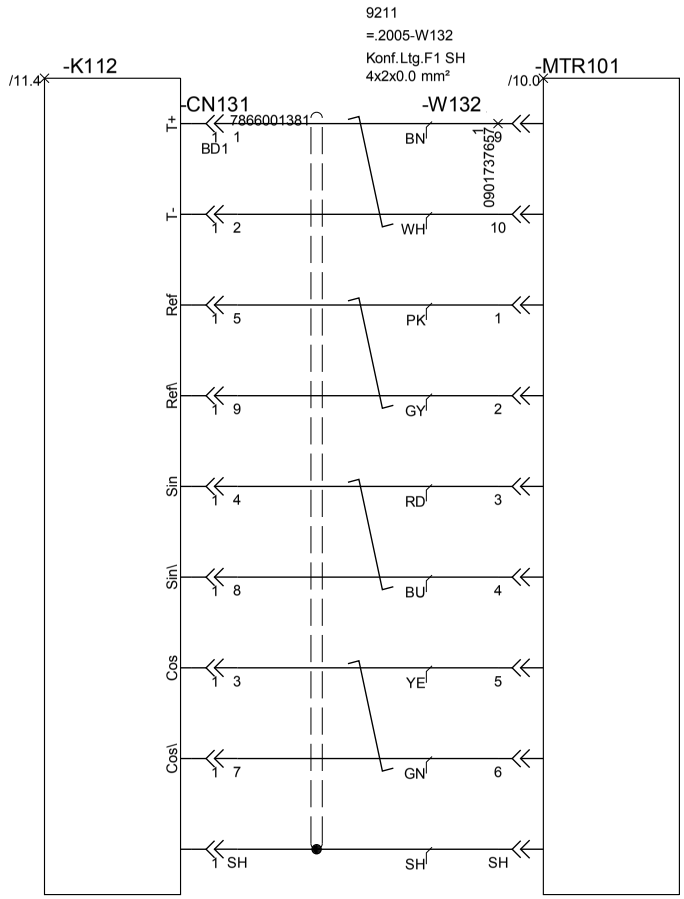
MA057
machine drive

date	18.04.2013	machine type filler	KRONES	Emergency power supply unit	equi. K123989	+SK1	=FU1.2005
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 11 204/348
		version/ 02		SFT_FUG0_201301 20/01505			



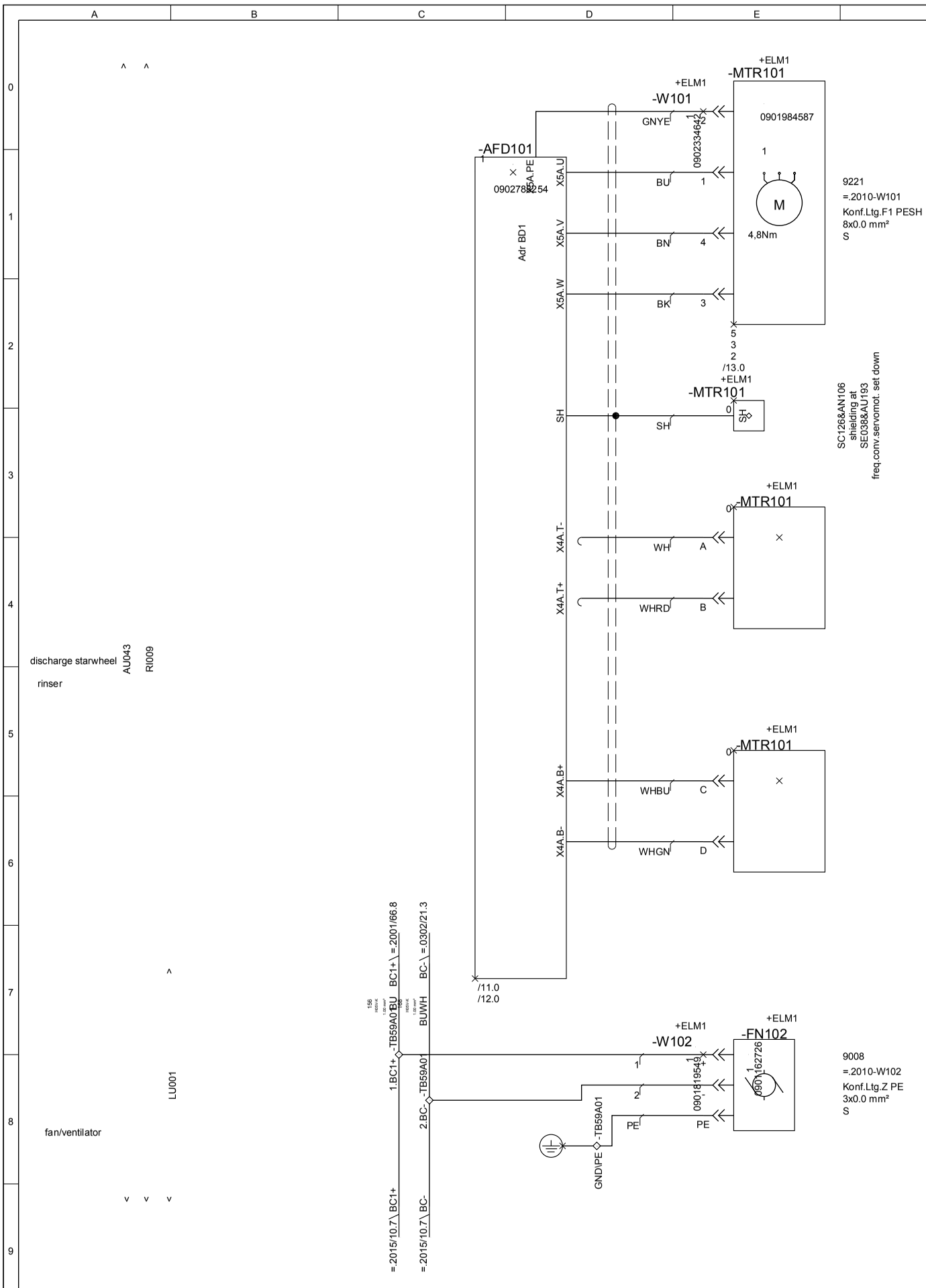
MA057
machine drive

date	18.04.2013	machine type filler	KRONES	Emergency power supply unit	equi. K123989	+SK1	=FU1.2005
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 12 205/348
		version/ 02		SFT_FUG0_201301 20/01505			

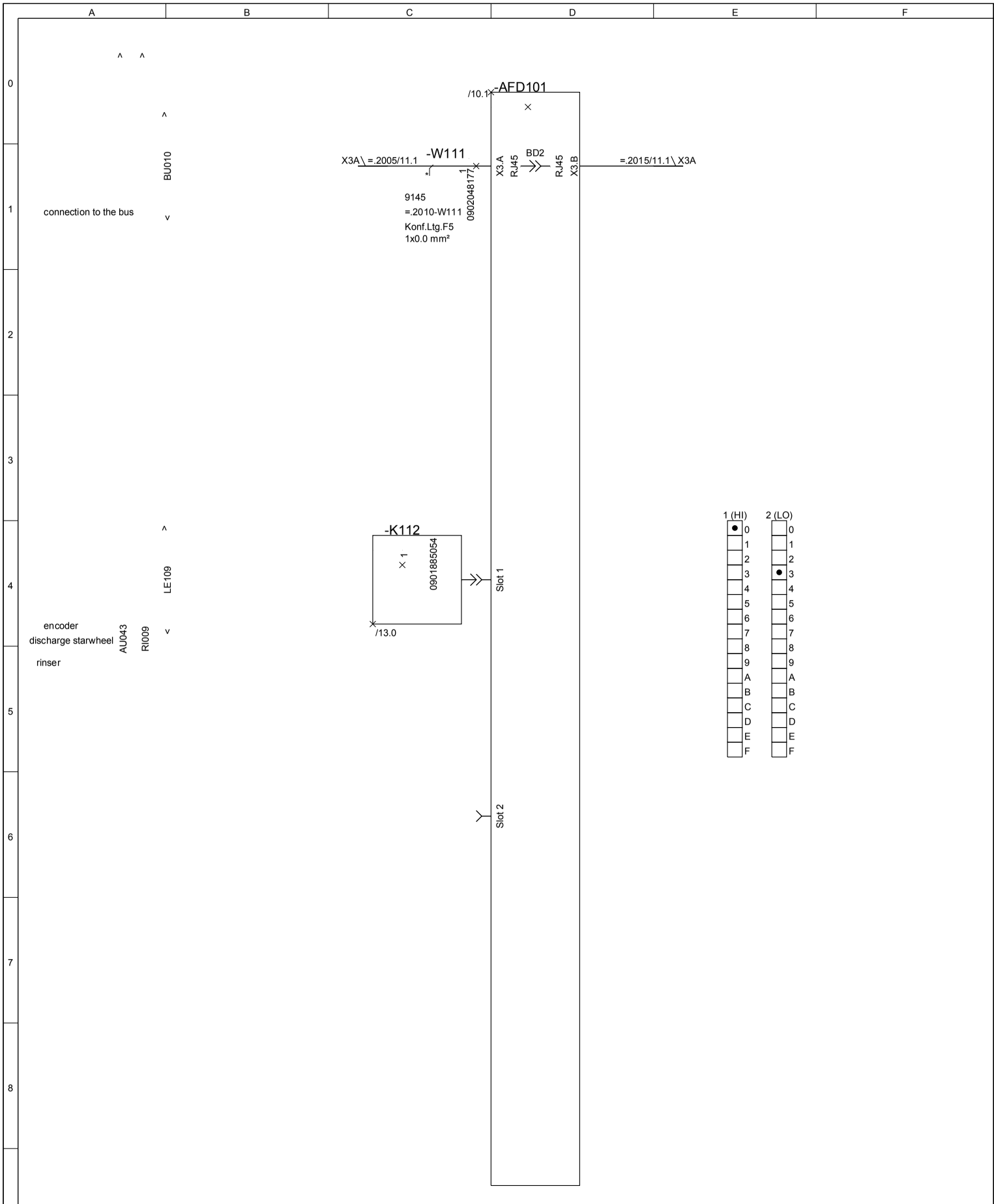


MA057
machine drive

date	18.04.2013	machine type filler	KRONES	Emergency power supply unit	equi. K123989	+SK1	=FU1.2005
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 13 206/348
		version/ 02		SFT_FUG0_201301 20/01505			

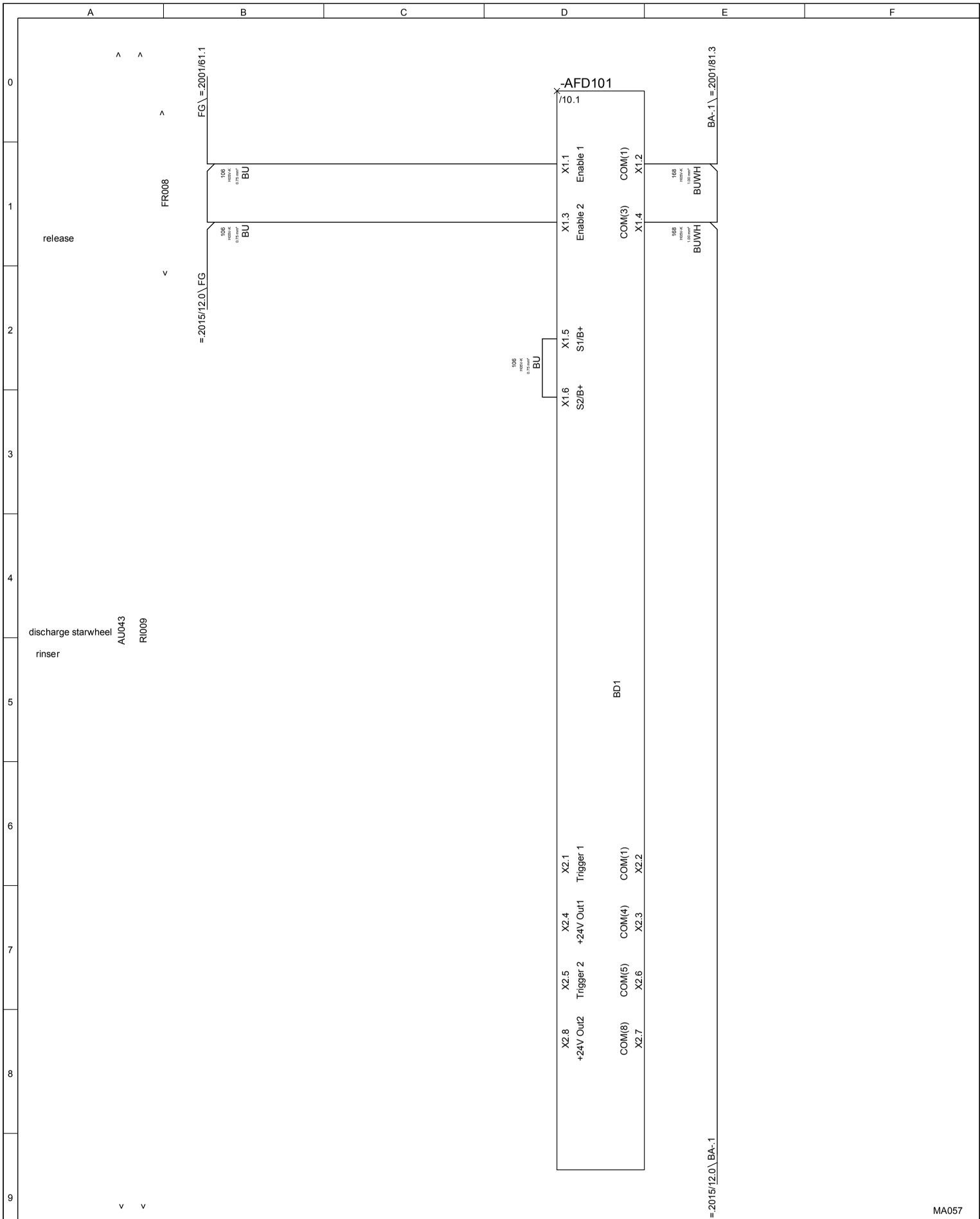


date	19.04.2013	machine type filler	KRONES	discharge starwheel RKA	equi. K123989	+SK1	=FU1.2010
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 10 207/348
		version/ 02		SFT_FUG0_201301 20/01516			

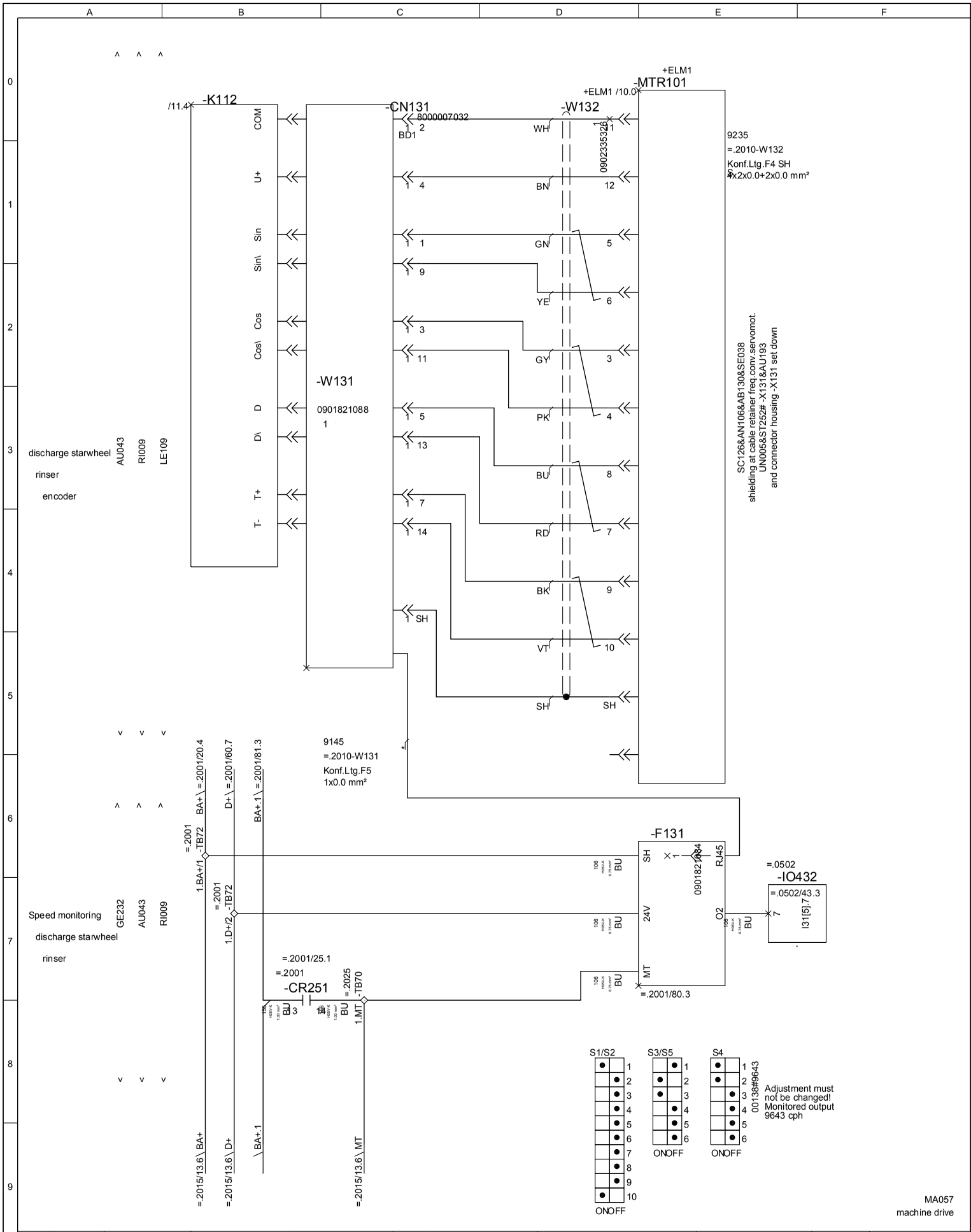


MA057
machine drive

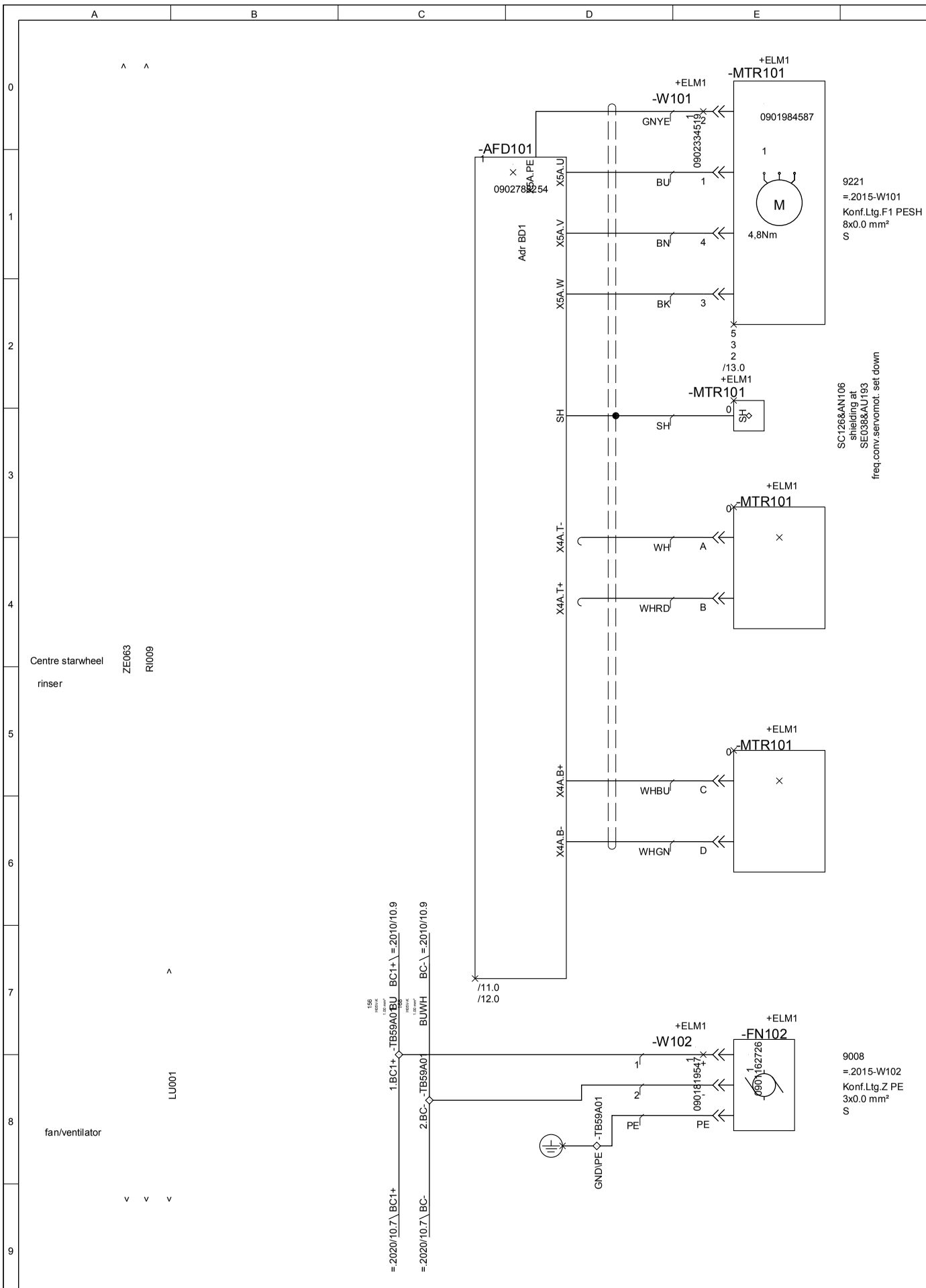
date	19.04.2013	machine type filler	KRONES	discharge starwheel RKA	equi. K123989	+SK1	=FU1.2010
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 11 208/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 20/01516			



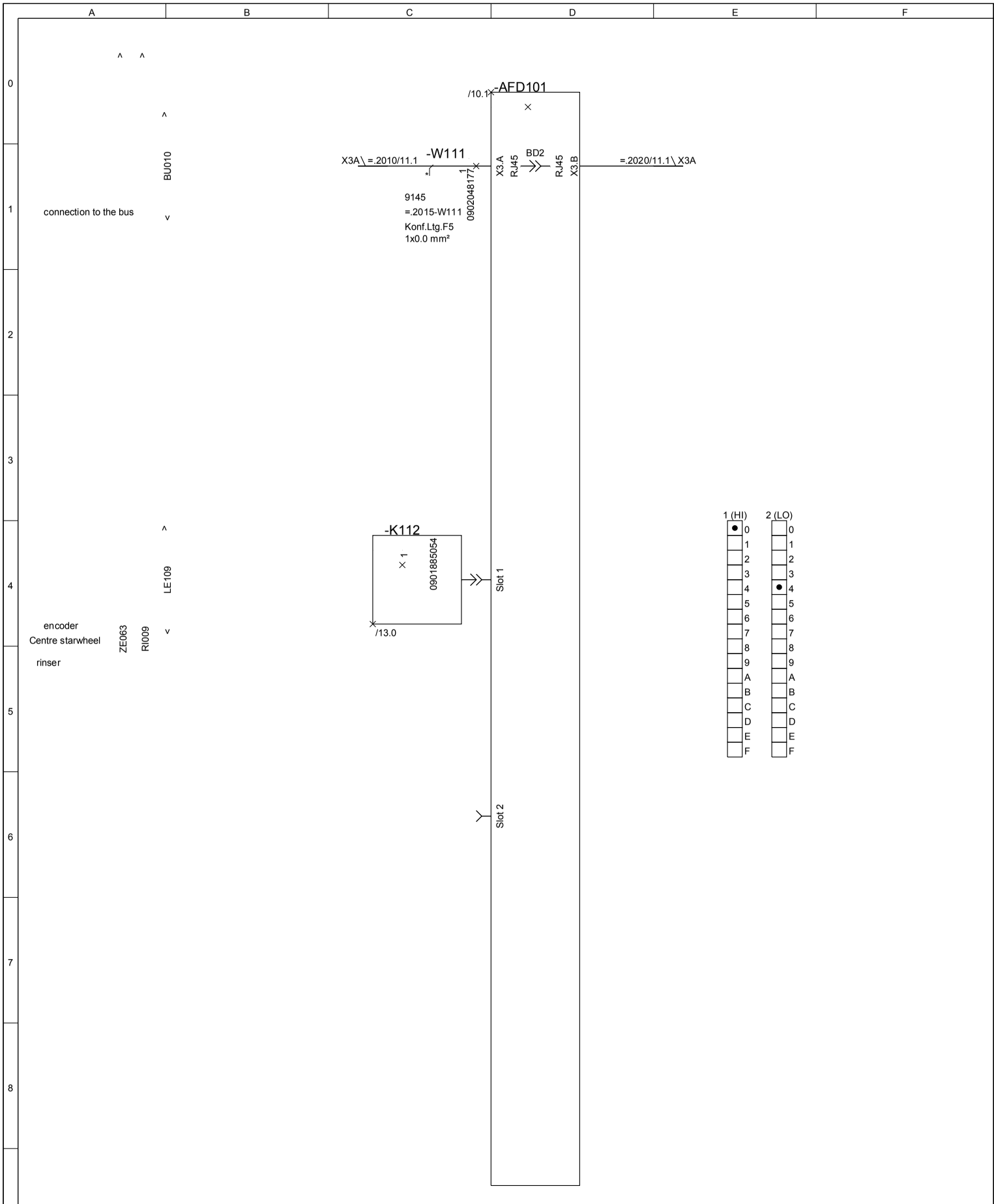
date	18.04.2013	machine type filler	KRONES	discharge starwheel RKA	equi. K123989	+SK1	=FU1.2010
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 12 209/348
		version/ 02		SFT_FUG0_201301 20/01516			



date	19.04.2013	machine type	filler	discharge starwheel RKA	equi. K123989	+SK1	=FU1.2010
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 13 210/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 20/01516			

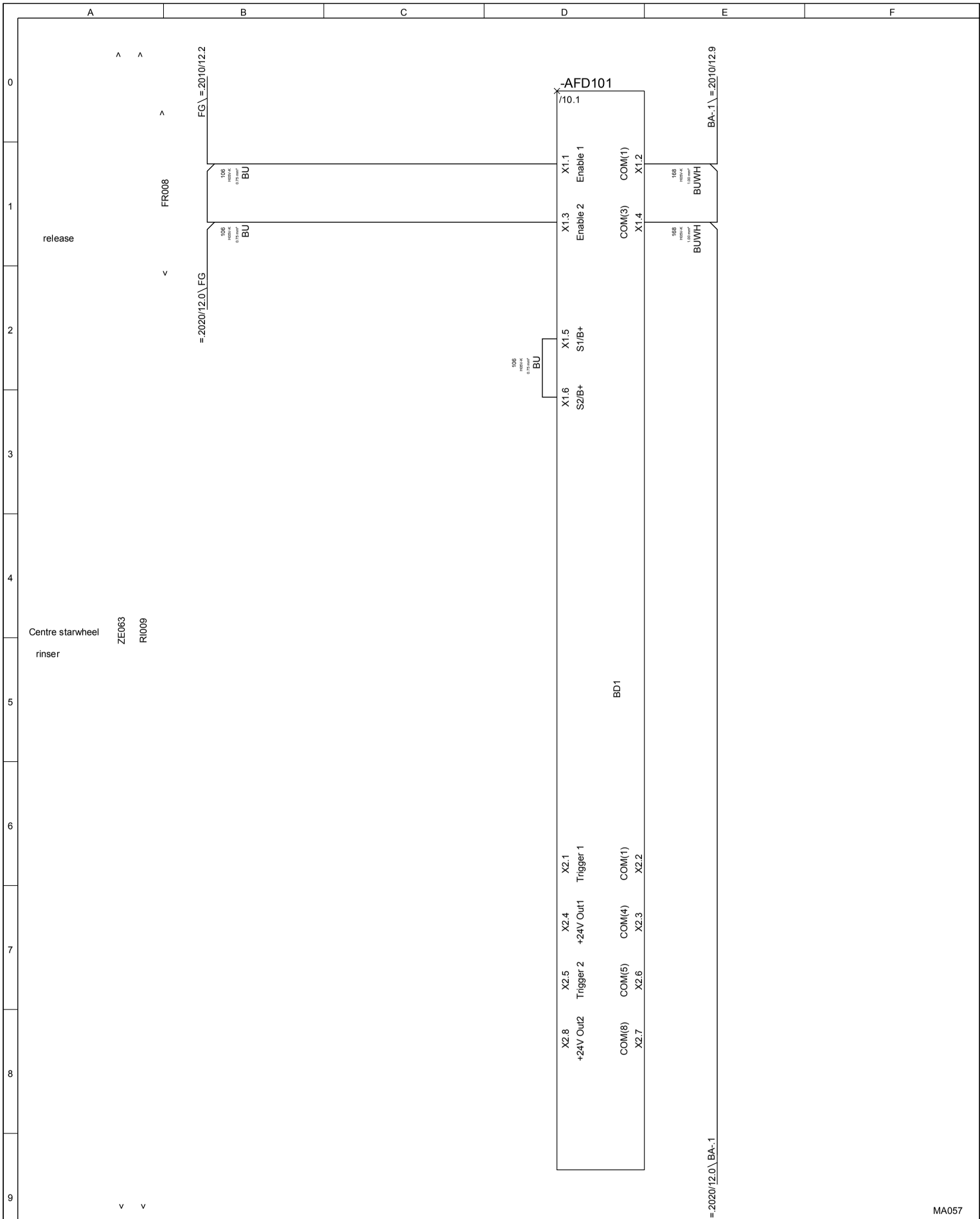


date	19.04.2013	machine type filler	KRONES	Transfer starwheel	equi. K123989	+SK1	=FU1.2015
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 10 211/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 20/01518			

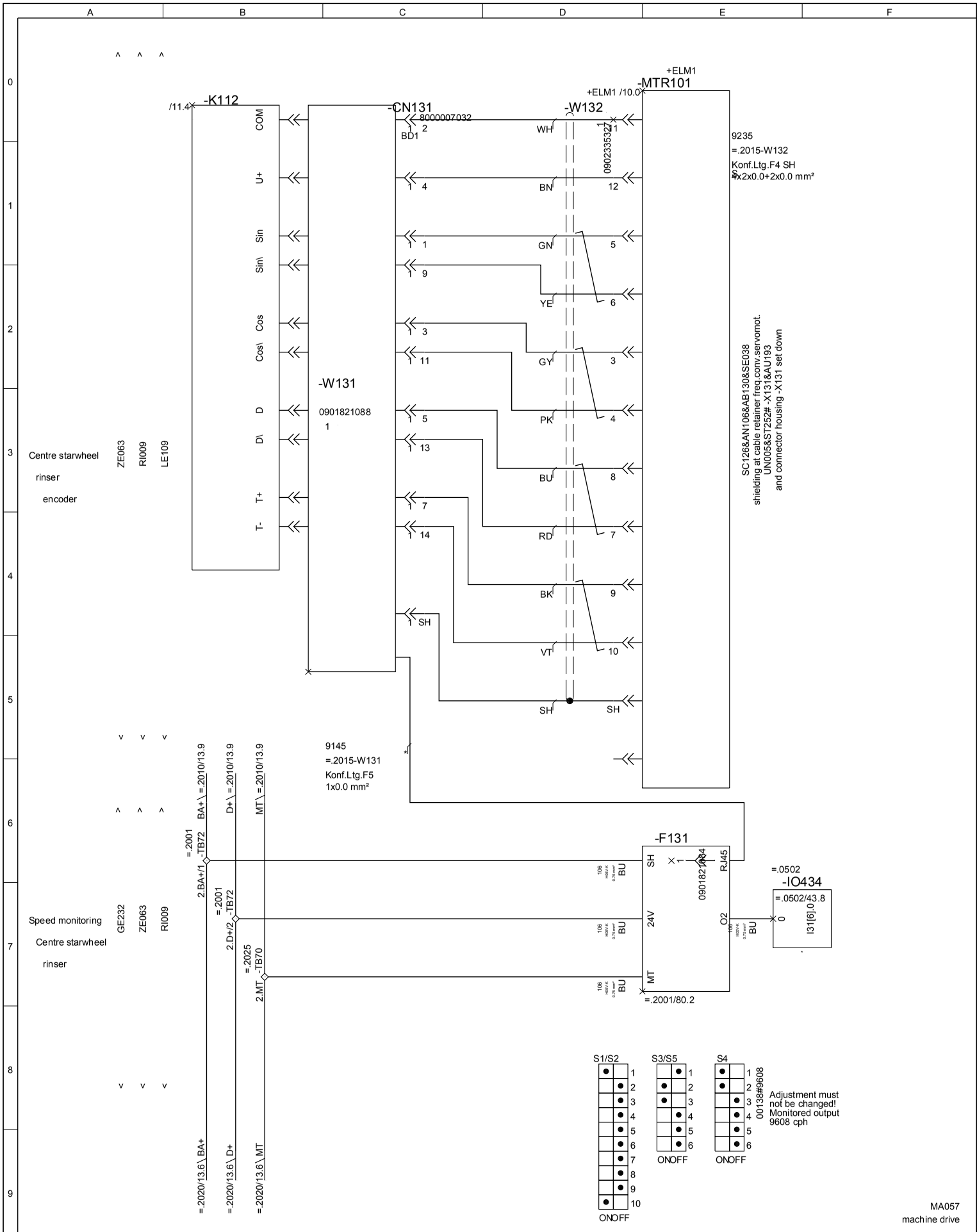


MA057
machine drive

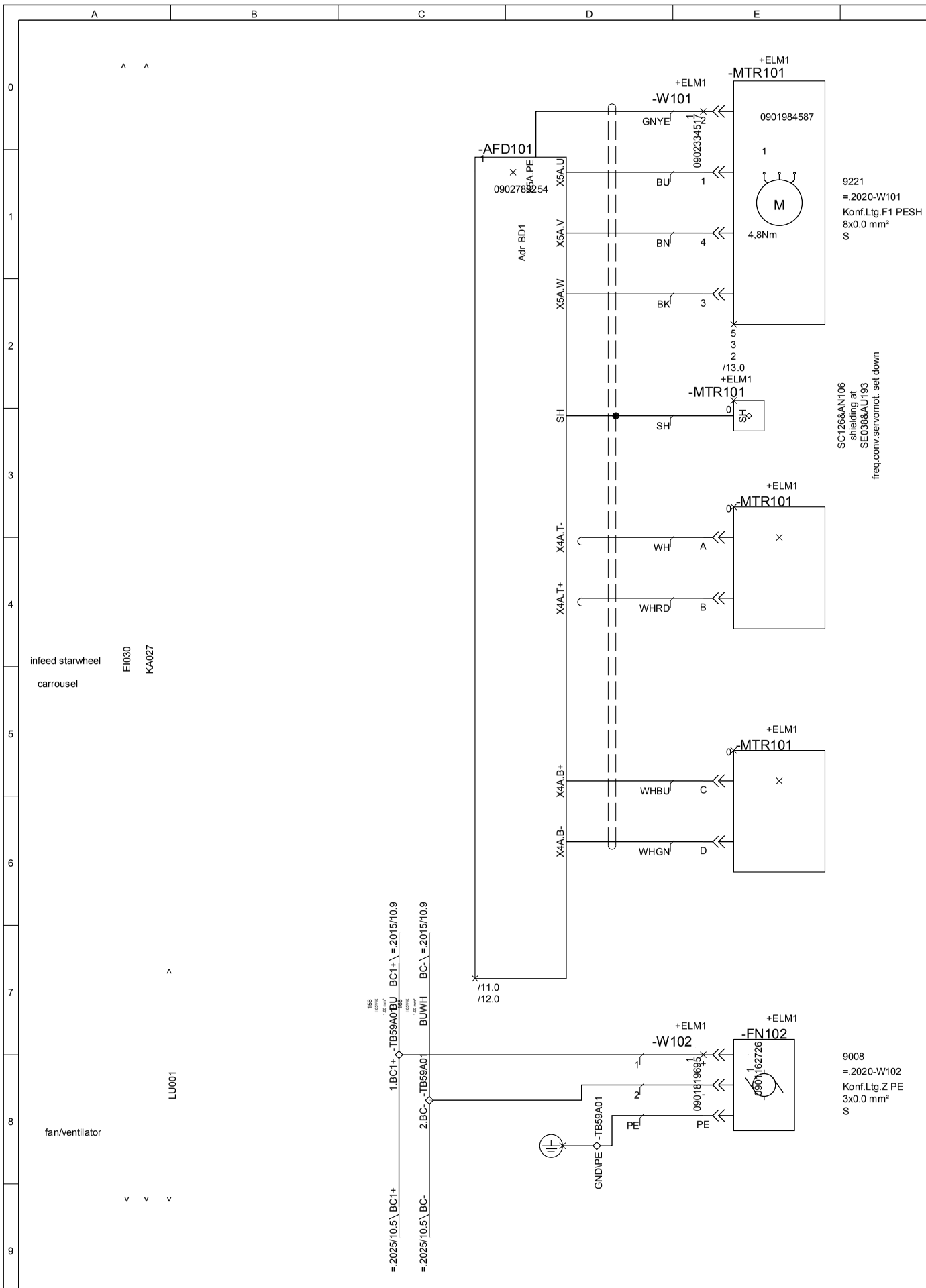
date	19.04.2013	machine type filler	KRONES	Transfer starwheel	equi. K123989	+SK1	=FU1.2015
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 11 212/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 20/01518			



date	18.04.2013	machine type filler	KRONES	Transfer starwheel	equi. K123989	+SK1	=FU1.2015
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 12 213/348
		version/ 02		SFT_FUG0_201301 20/01518			

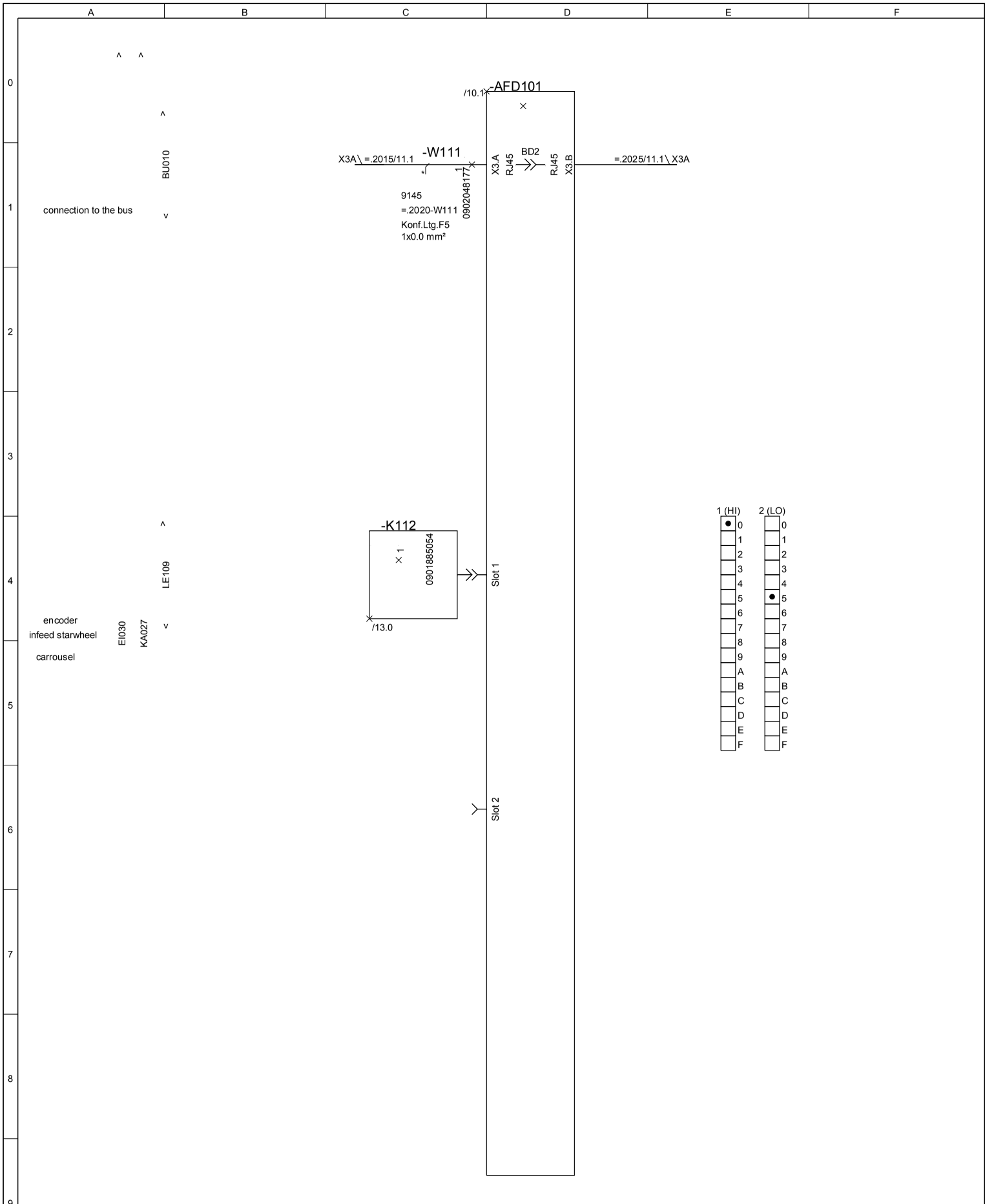


date	27.08.2013	machine type	filler	discharge starwheel RKA	equi. K123989	+SK1	=FU1.2015
eng.	Krupka						
CAD	Skala	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 13 214/348
				Lagunitas Brewing Company			
		version/	02	SFT_FUG0_201301 20/01518			



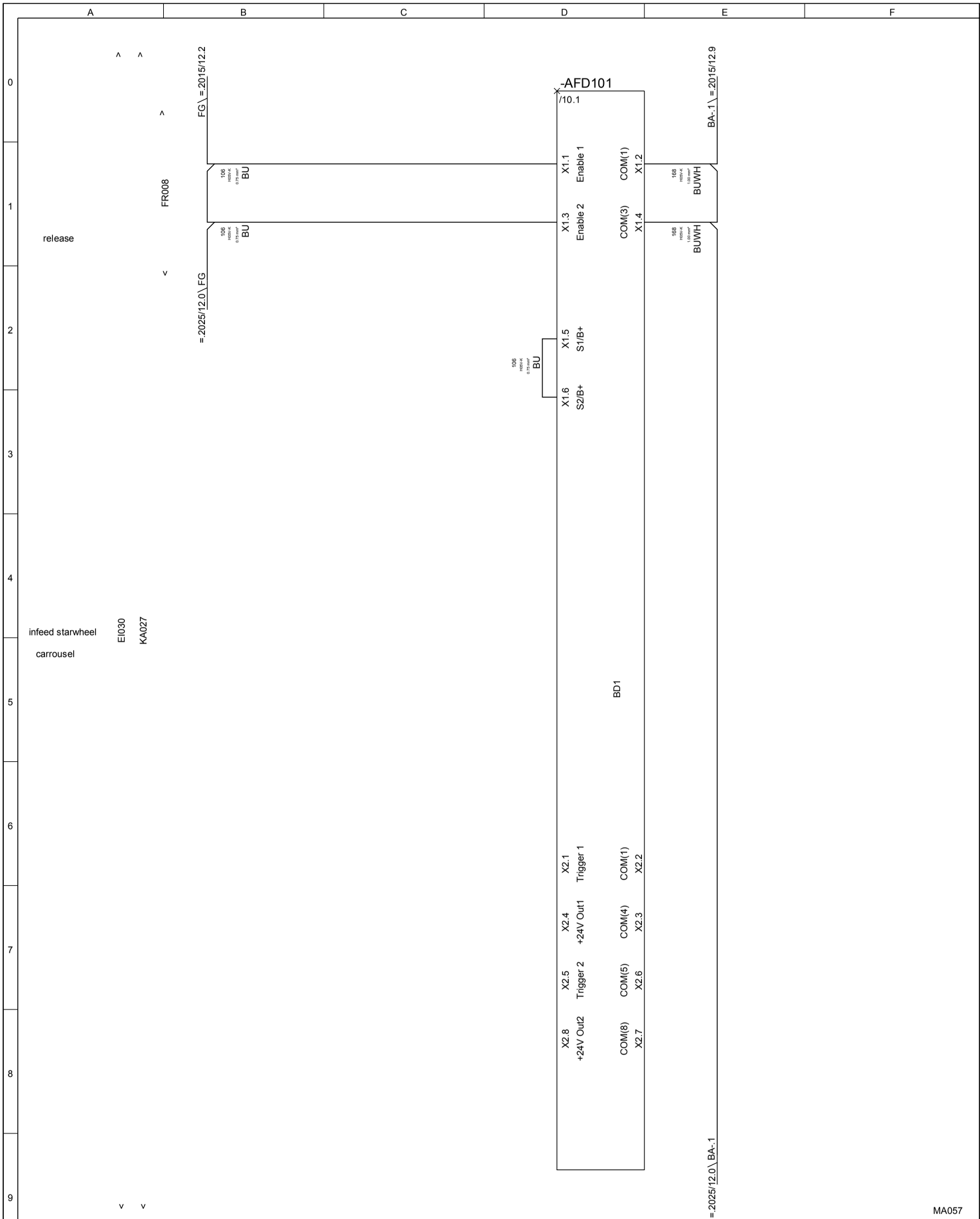
MA057
machine drive

date	19.04.2013	machine type filler	KRONES	infeed starwheel FKA	equi. K123989	+SK1	=FU1.2020
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 10 215/348
		version/ 02		SFT_FUG0_201301 20/01521			

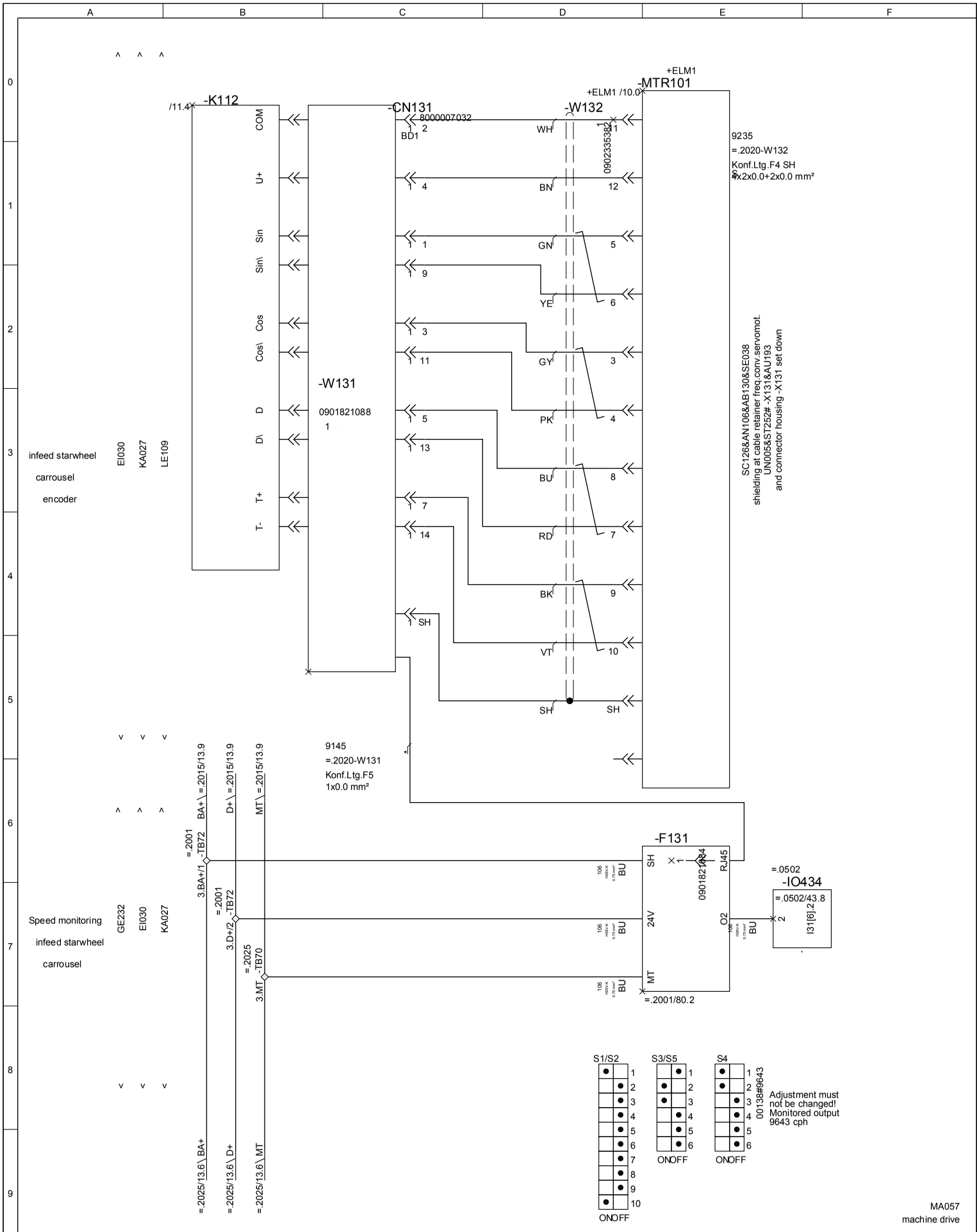


MA057
machine drive

date	19.04.2013	machine type filler	KRONES	infeed starwheel FKA	equi. K123989	+SK1	=FU1.2020
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 11 216/348
		version/ 02		SFT_FUG0_201301 20/01521			

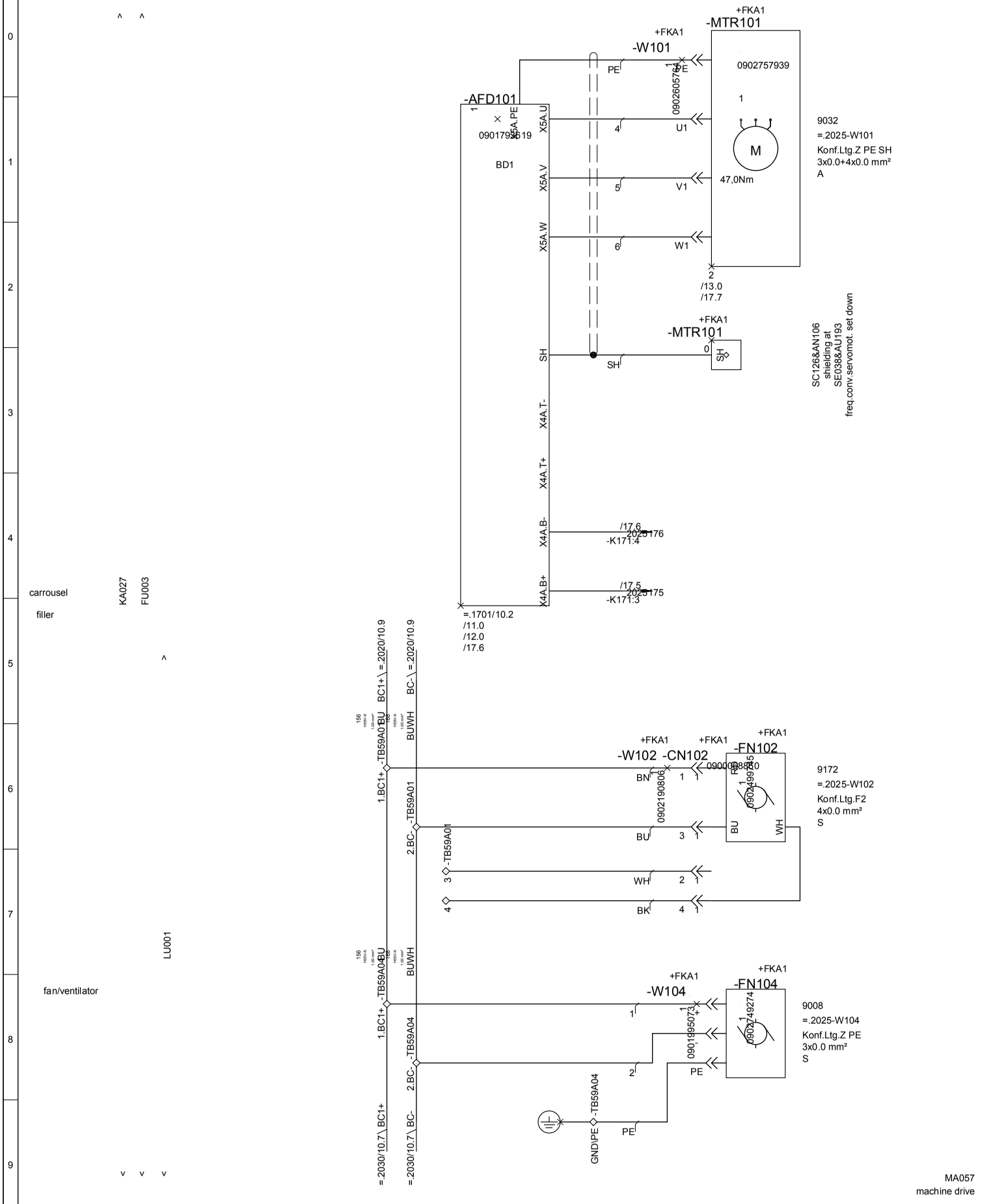


date	18.04.2013	machine type filler	KRONES	infeed starwheel FKA	equi. K123989	+SK1	=FU1.2020
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 12 217/348
		version/ 02		SFT_FUG0_201301 20/01521			

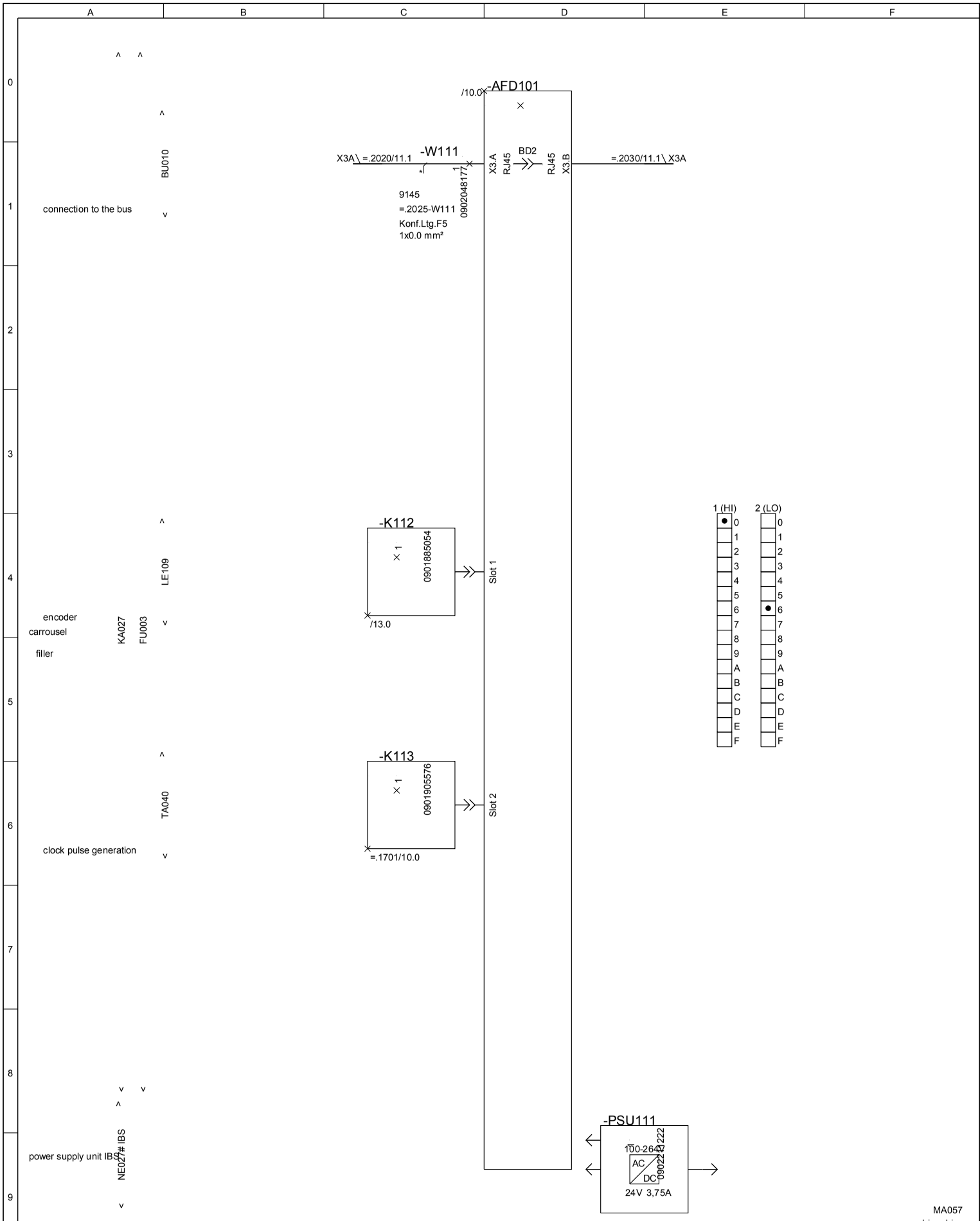


date	19.04.2013	machine type	filler	infeed starwheel FKA	equi. K123989	+SK1	=FU1.2020
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 13 218/348
				Lagunitas Brewing Company			
		version/	02	SFT_FUG0_201301 20/01521			

KRONES

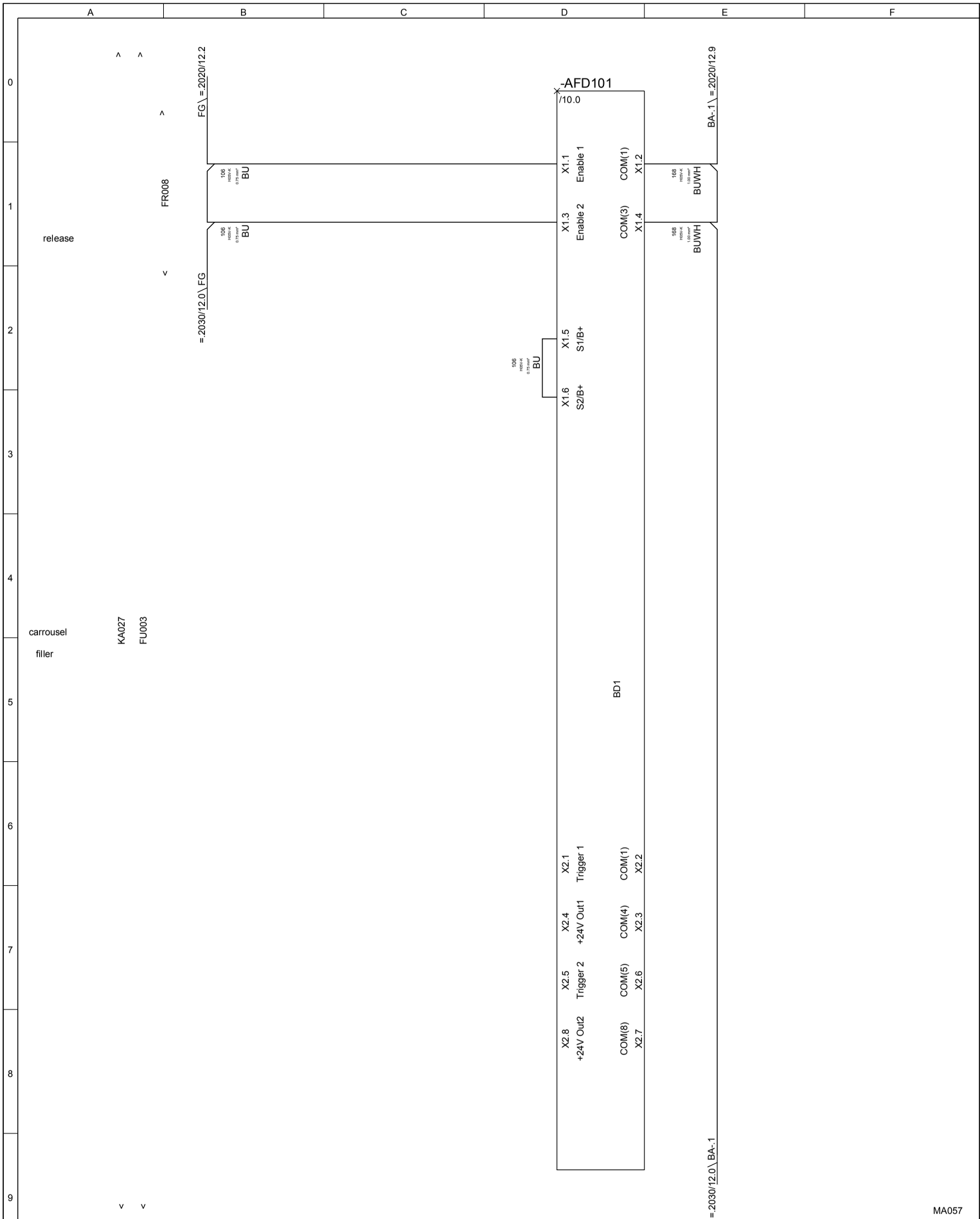


date	29.04.2013	machine type filler	KRONES	carrousel	equi. K123989	+SK1	=FU1.2025
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 10 219/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 20/01560			

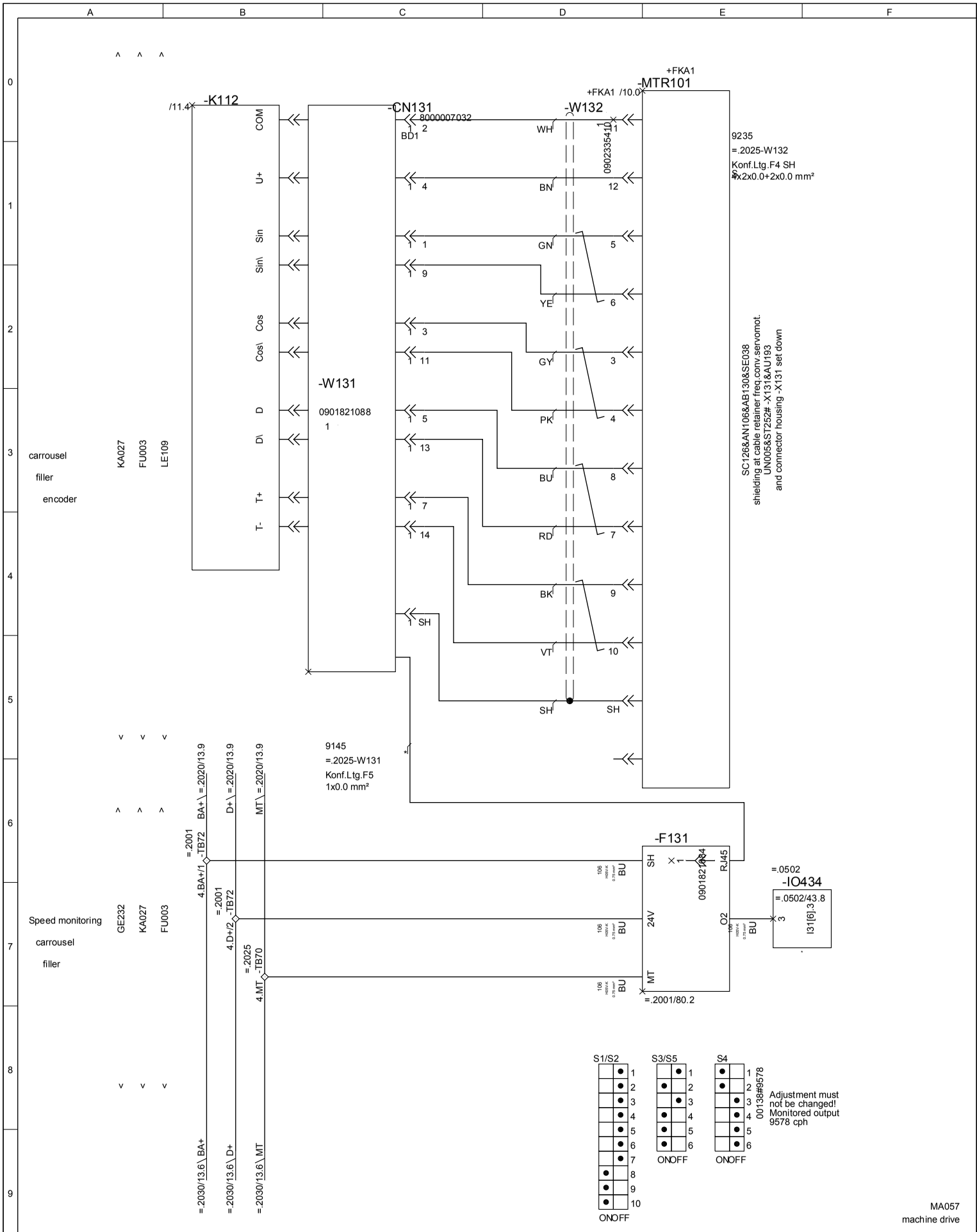


MA057
machine drive

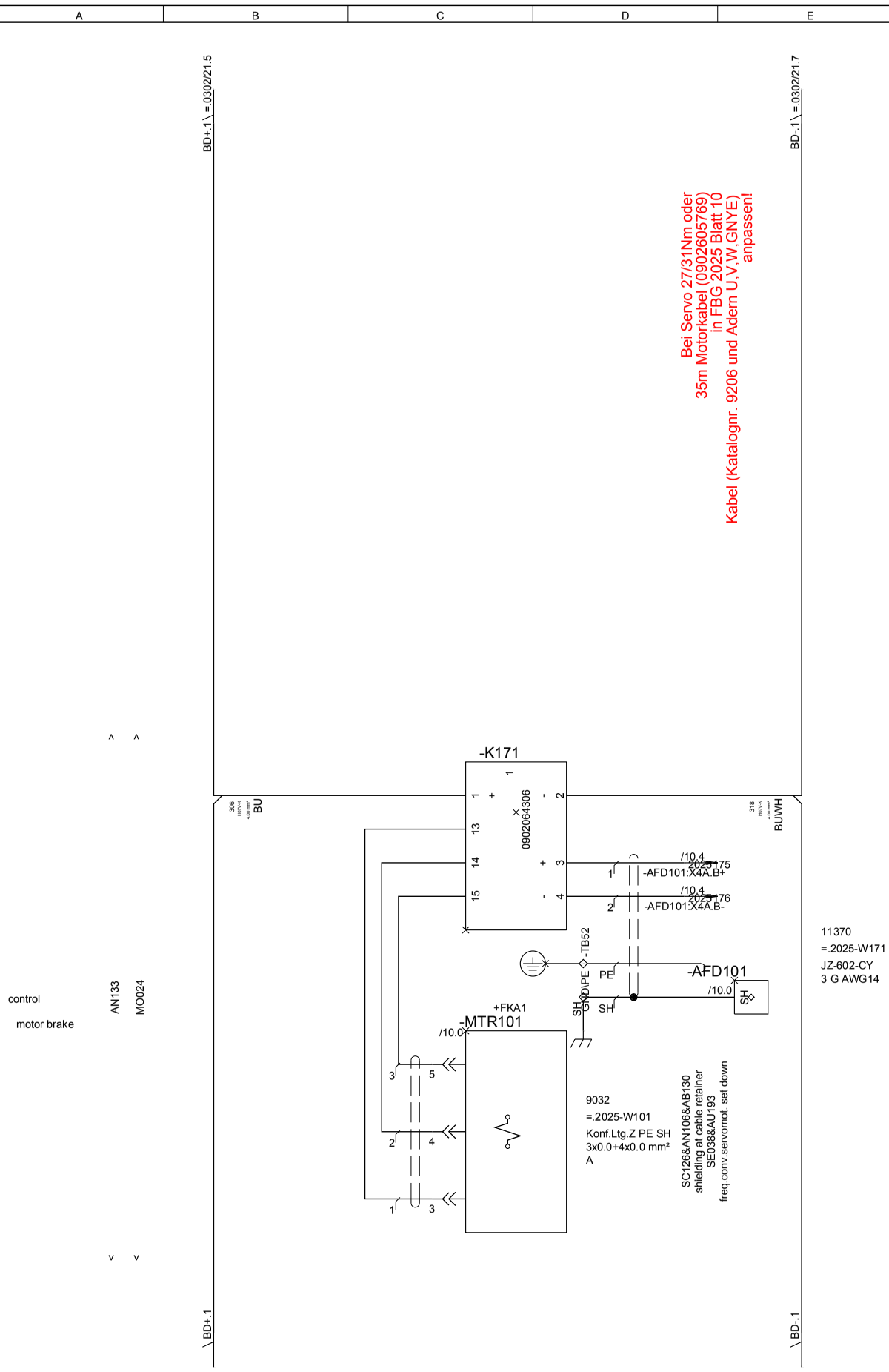
date	19.04.2013	machine type filler	KRONES	carrousel	equi. K123989	+SK1	=FU1.2025
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 11 220/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 20/01560			



date	18.04.2013	machine type filler	KRONES	carrousel	equi. K123989	+SK1	=FU1.2025
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 12 221/348
		version/ 02		SFT_FUG0_201301 20/01560			

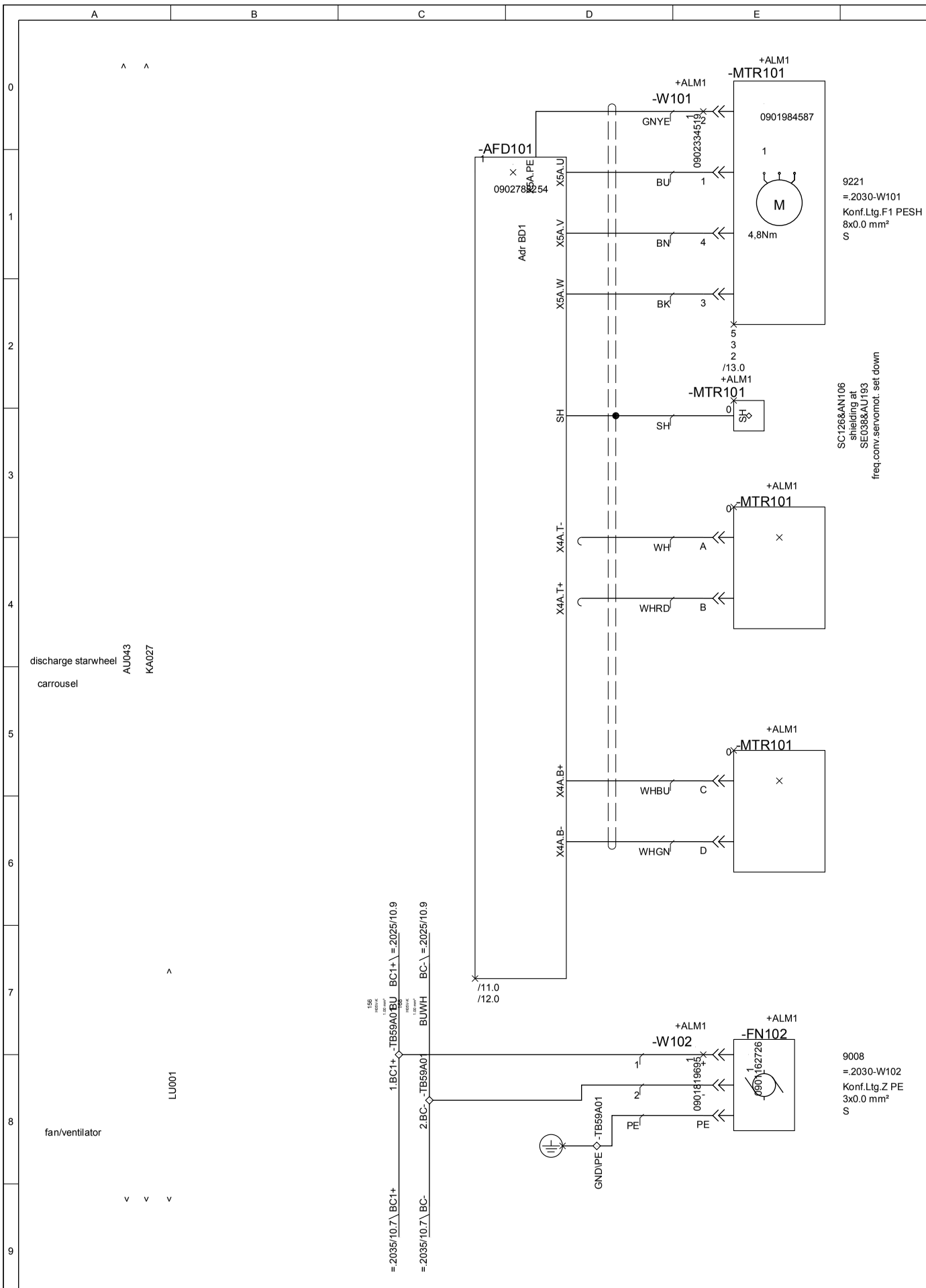


date	19.04.2013	machine type	filler	carrousel	equi. K123989	+SK1	=FU1.2025
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 13 222/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 20/01560			

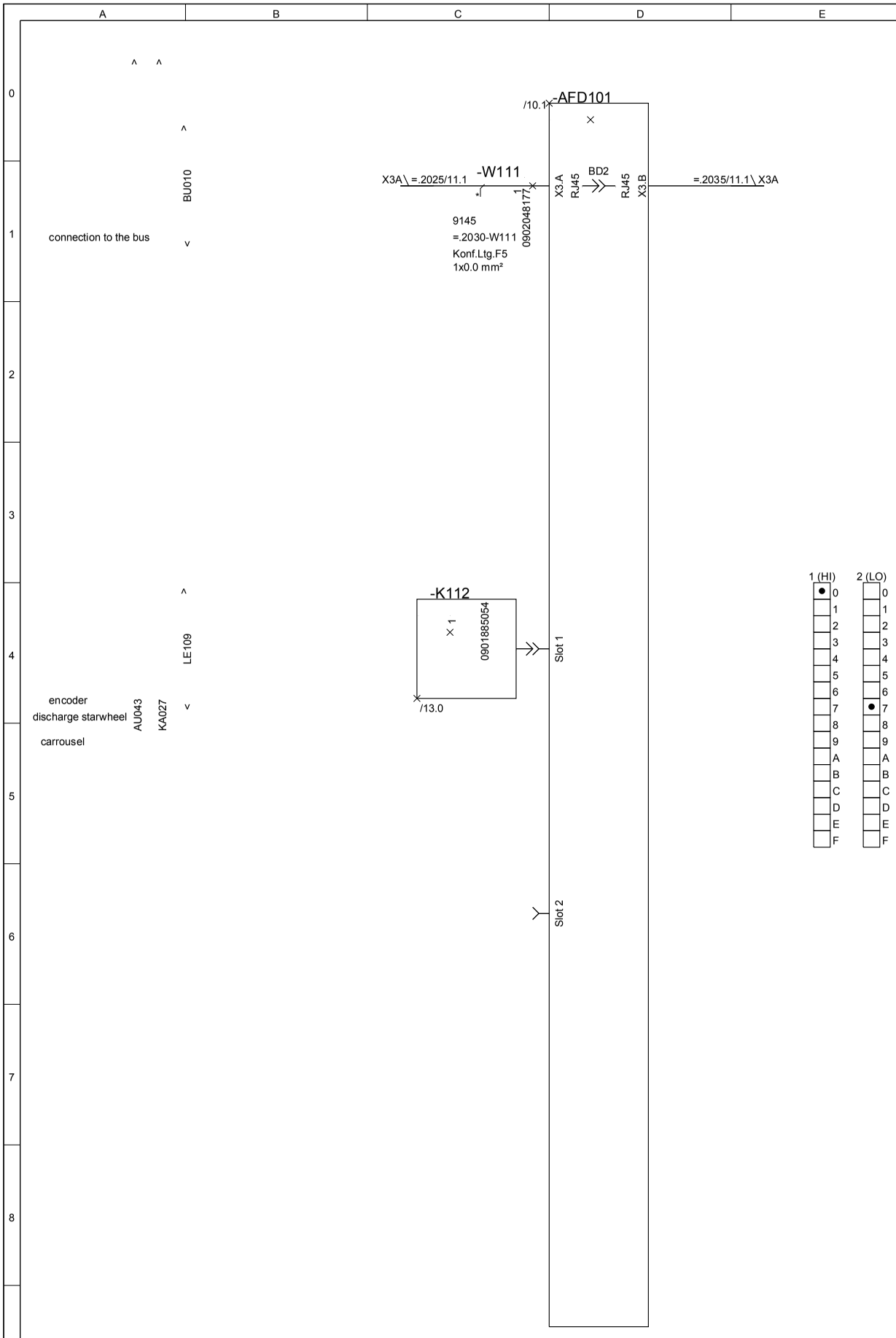


MA057
machine drive

date	19.04.2013	machine type filler		motor brake	equi. K123989	+SK1	=FU1.2025
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS	KRONES	client	K123989-001	STR	sheet 17 223/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 20/01560			

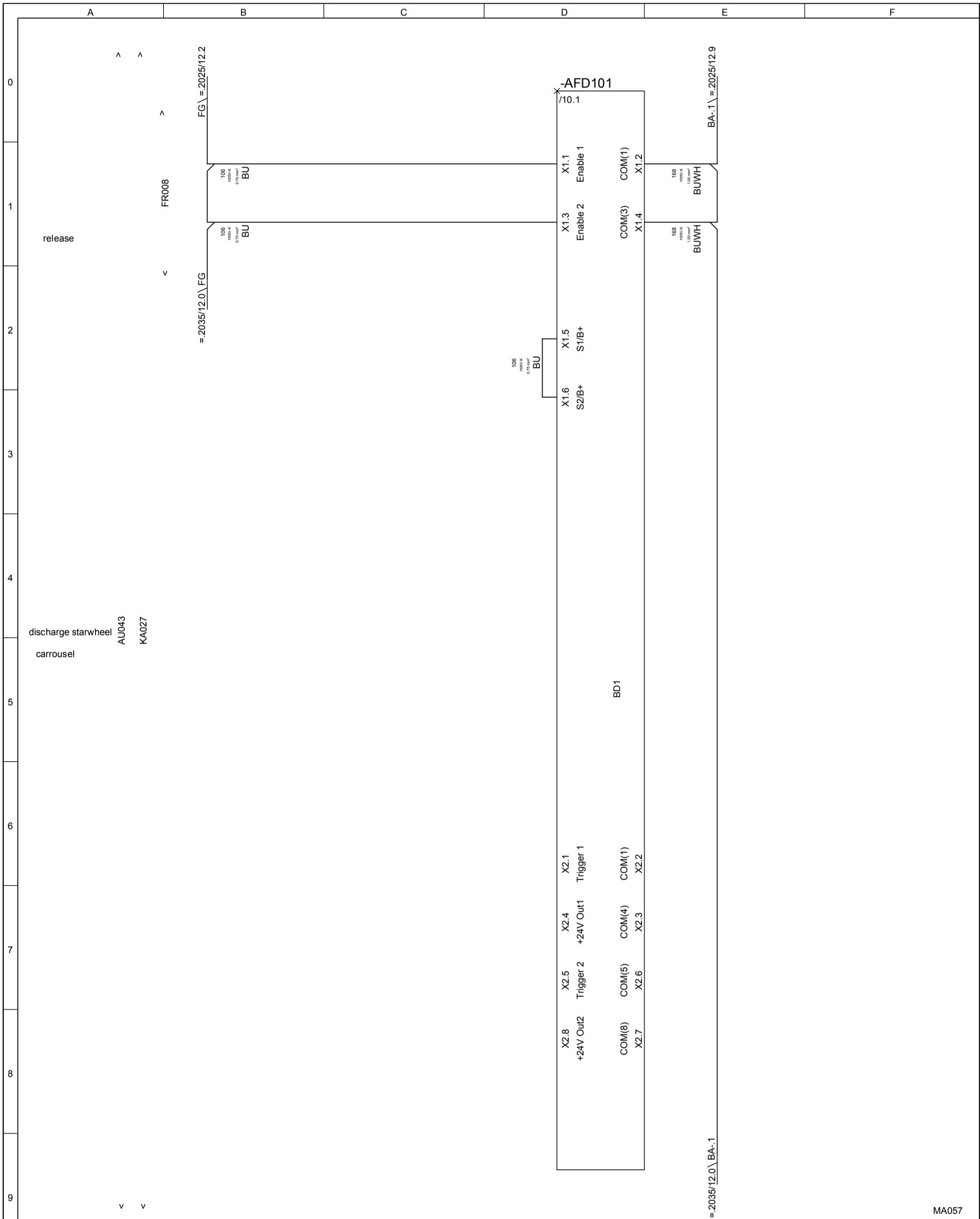


date	19.04.2013	machine type filler	KRONES	discharge starwheel FKA	equi. K123989	+SK1	=FU1.2030
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 10 224/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 20/01530			

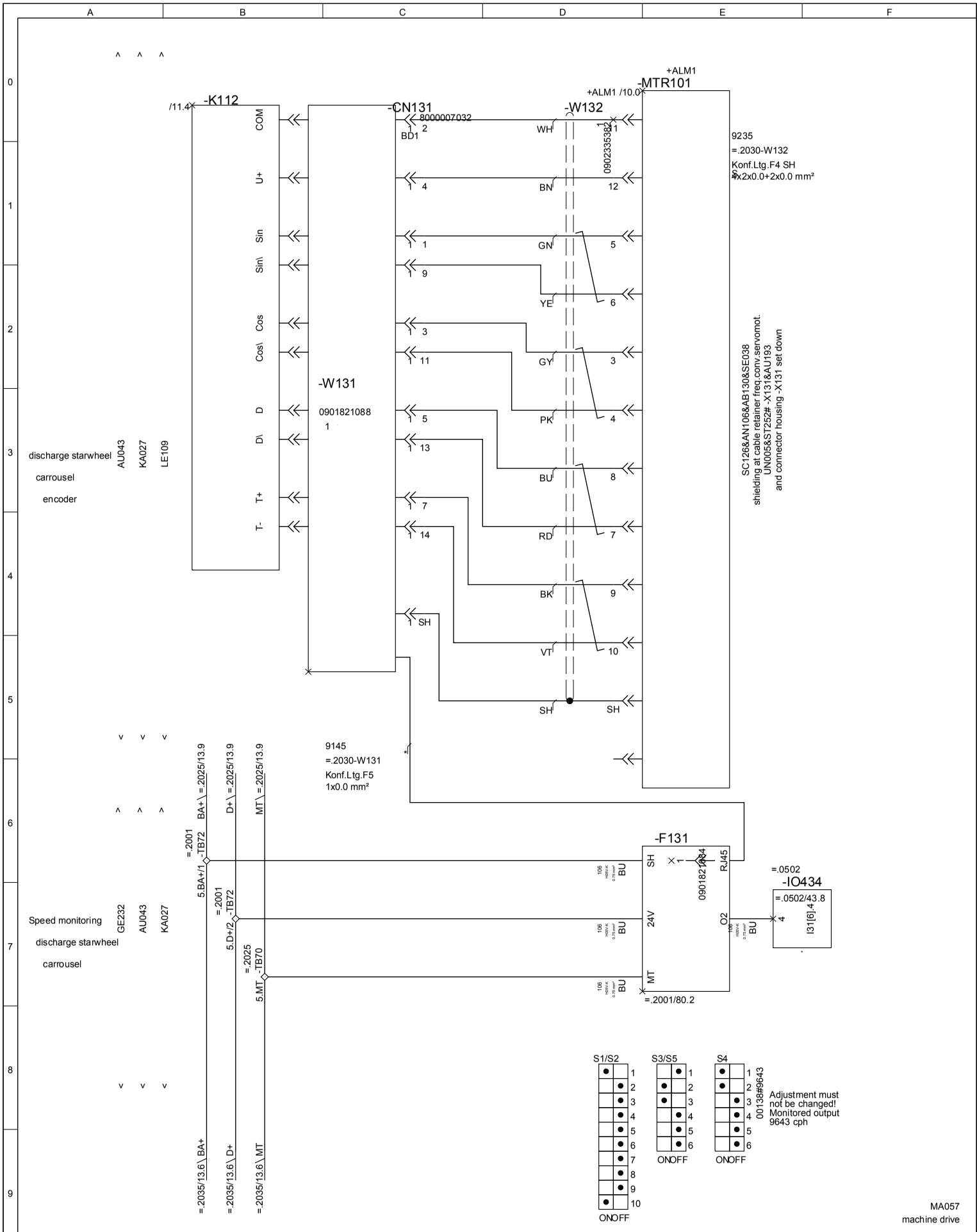


MA057
machine drive

date	19.04.2013	machine type filler	KRONES	discharge starwheel FKA	equi. K123989	+SK1	=FU1.2030
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 11 225/348
		version/ 02		SFT_FUG0_201301 20/01530			



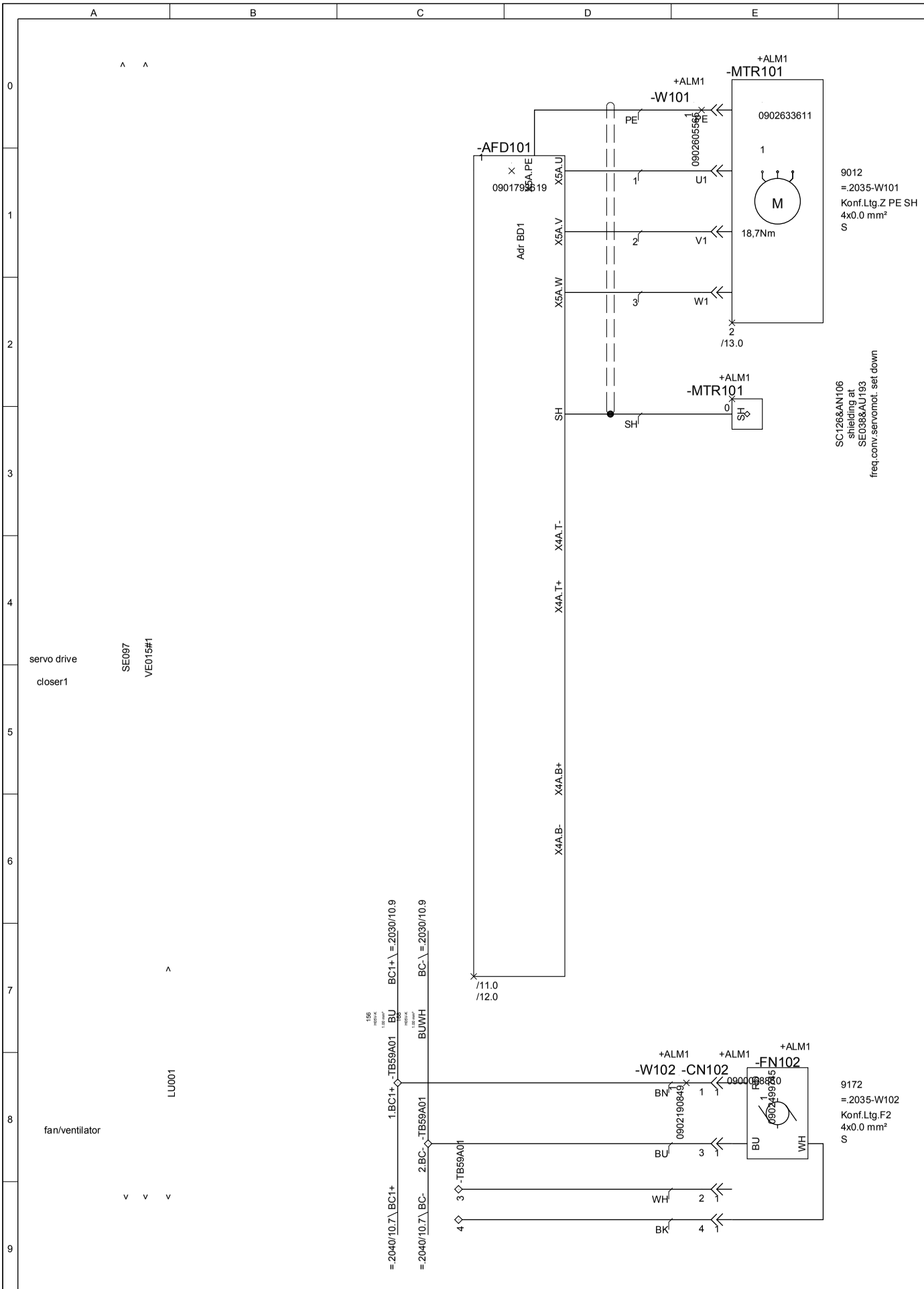
date	18.04.2013	machine type filler	KRONES	discharge starwheel FKA	equi. K123989	+SK1	=FU1.2030
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 12 226/348
		version/ 02		SFT_FUG0_201301 20/01530			



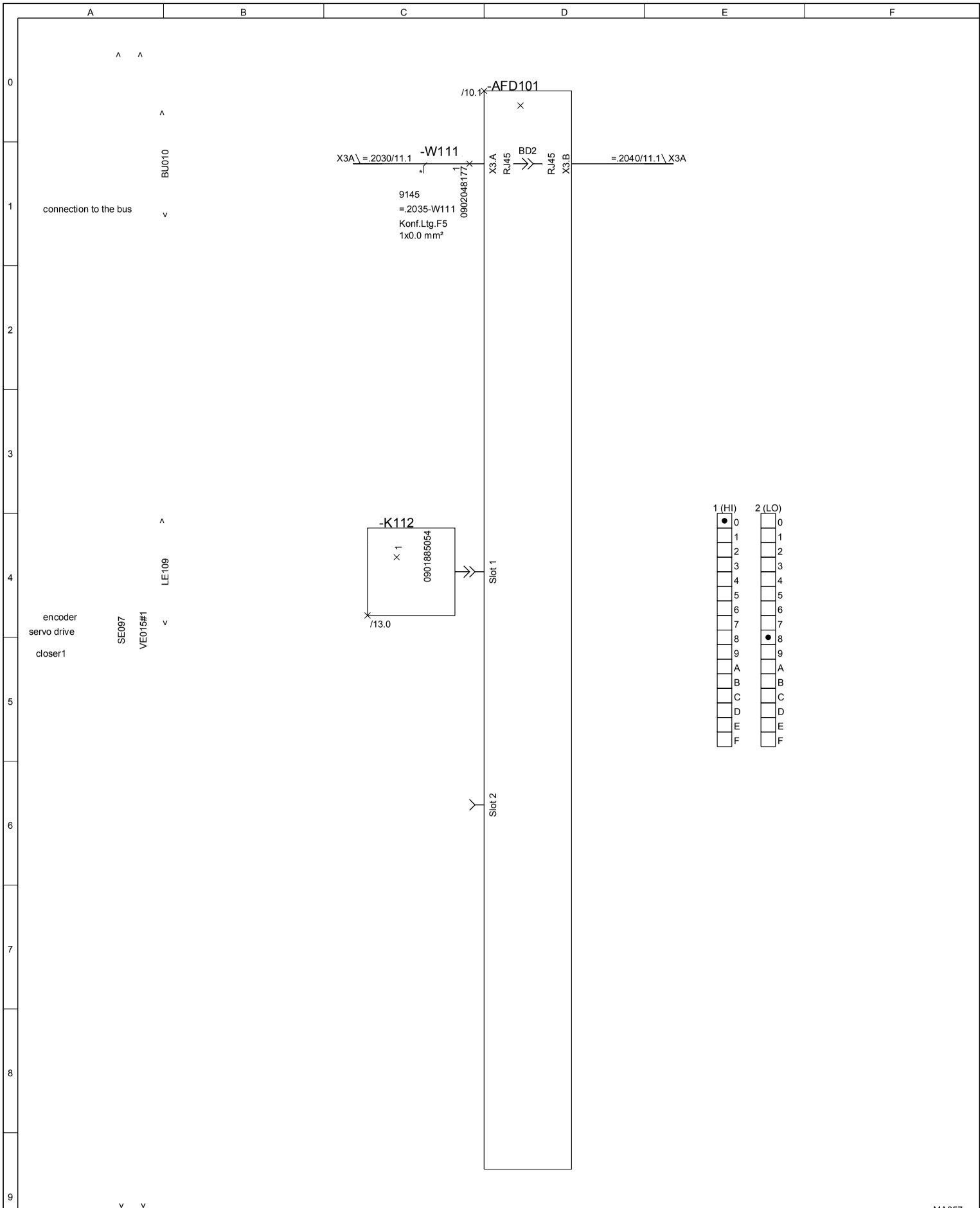
MA057
machine drive

date	19.04.2013	machine type	filler	discharge starwheel FKA	equi. K123989	+SK1	=FU1.2030
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 13 227/348
				Lagunitas Brewing Company			
		version/	02	SFT_FUG0_201301 20/01530			

KRONES

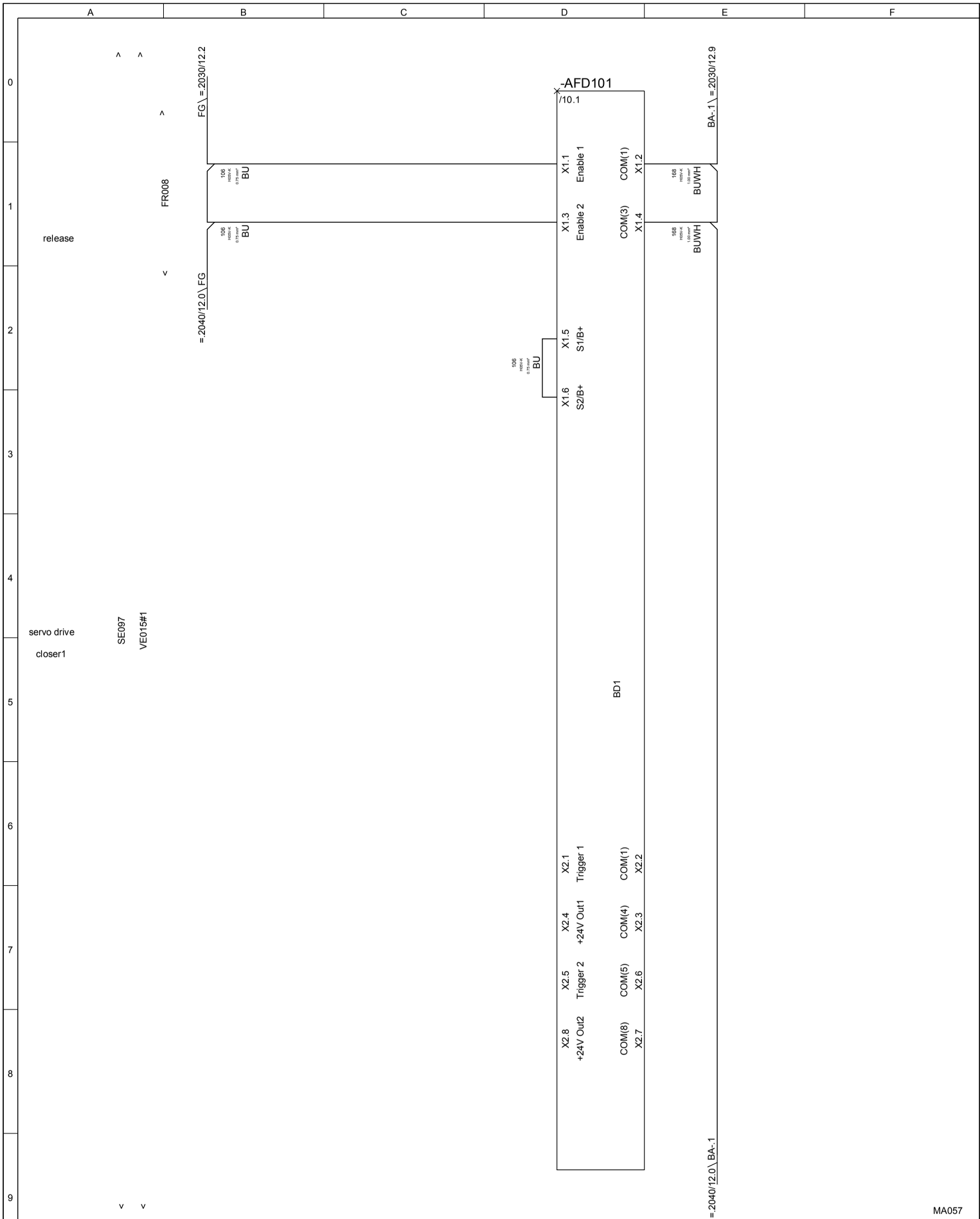


date	19.04.2013	machine type filler	KRONES	closer1	equi. K123989	+SK1	=FU1.2035
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 10 228/348
		version/ 02		SFT_FUG0_201301 20/01570			

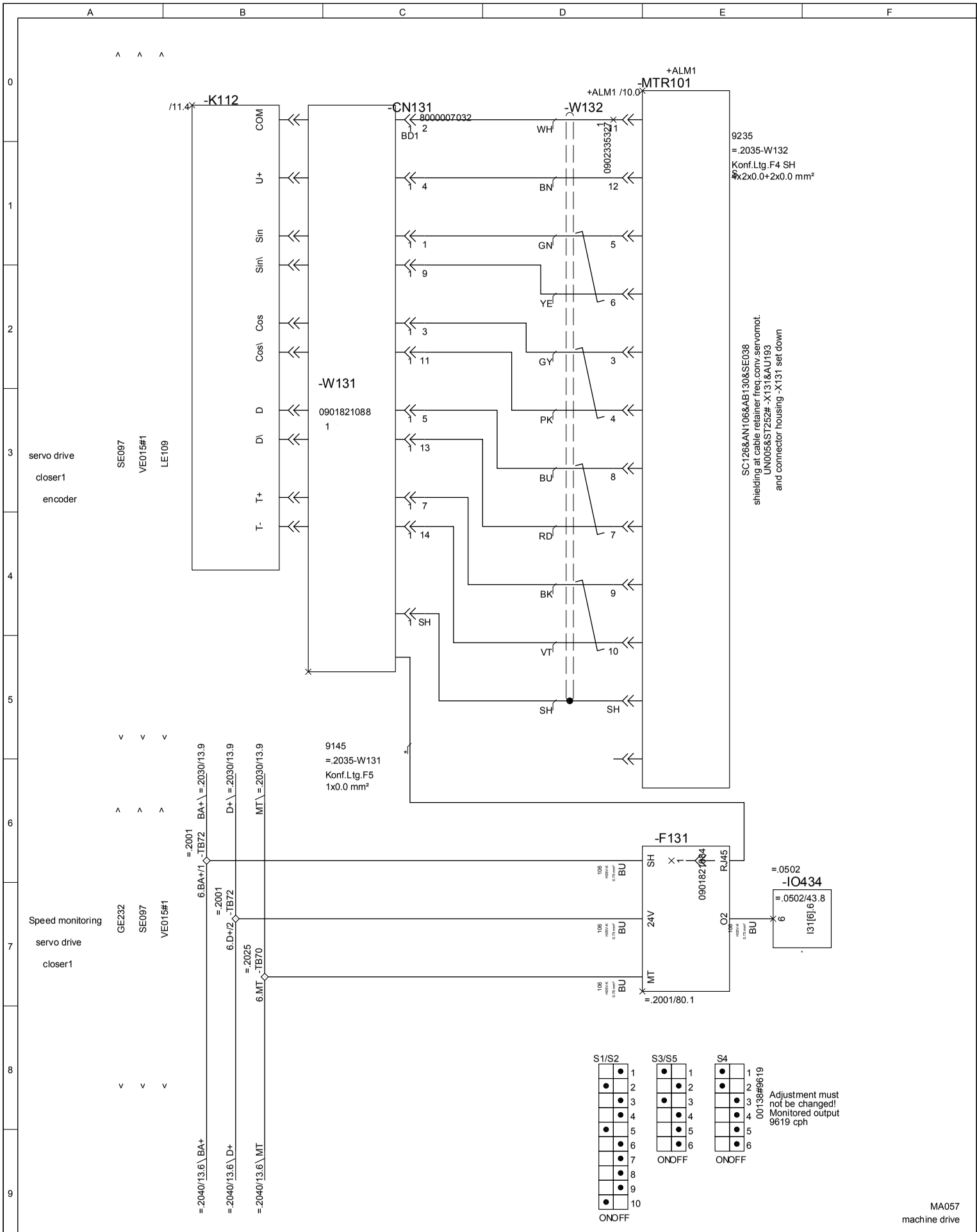


MA057
machine drive

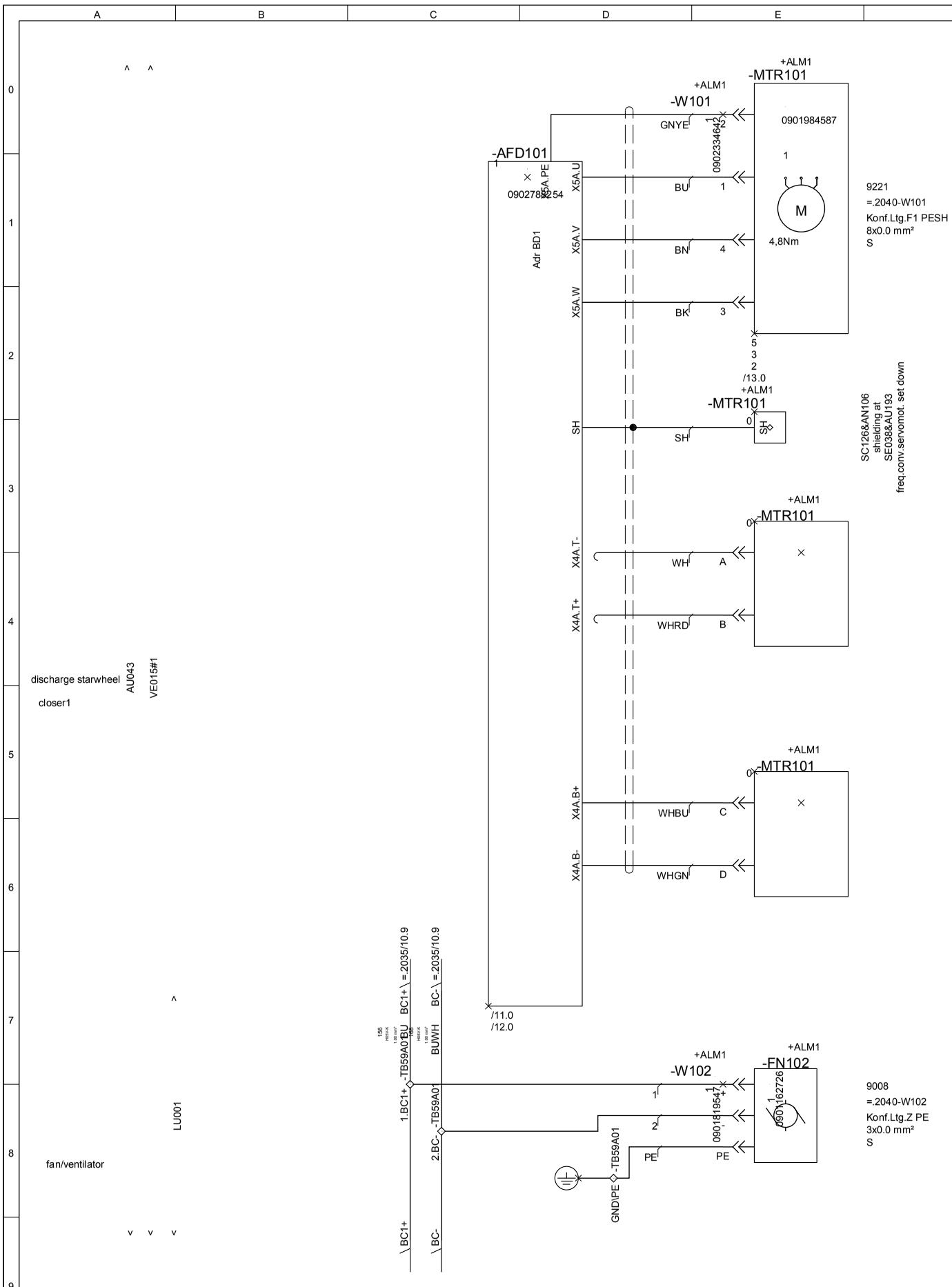
date	19.04.2013	machine type filler	KRONES	closer1	equi. K123989	+SK1	=FU1.2035
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 11 229/348
		version/ 02		SFT_FUG0_201301 20/01570			



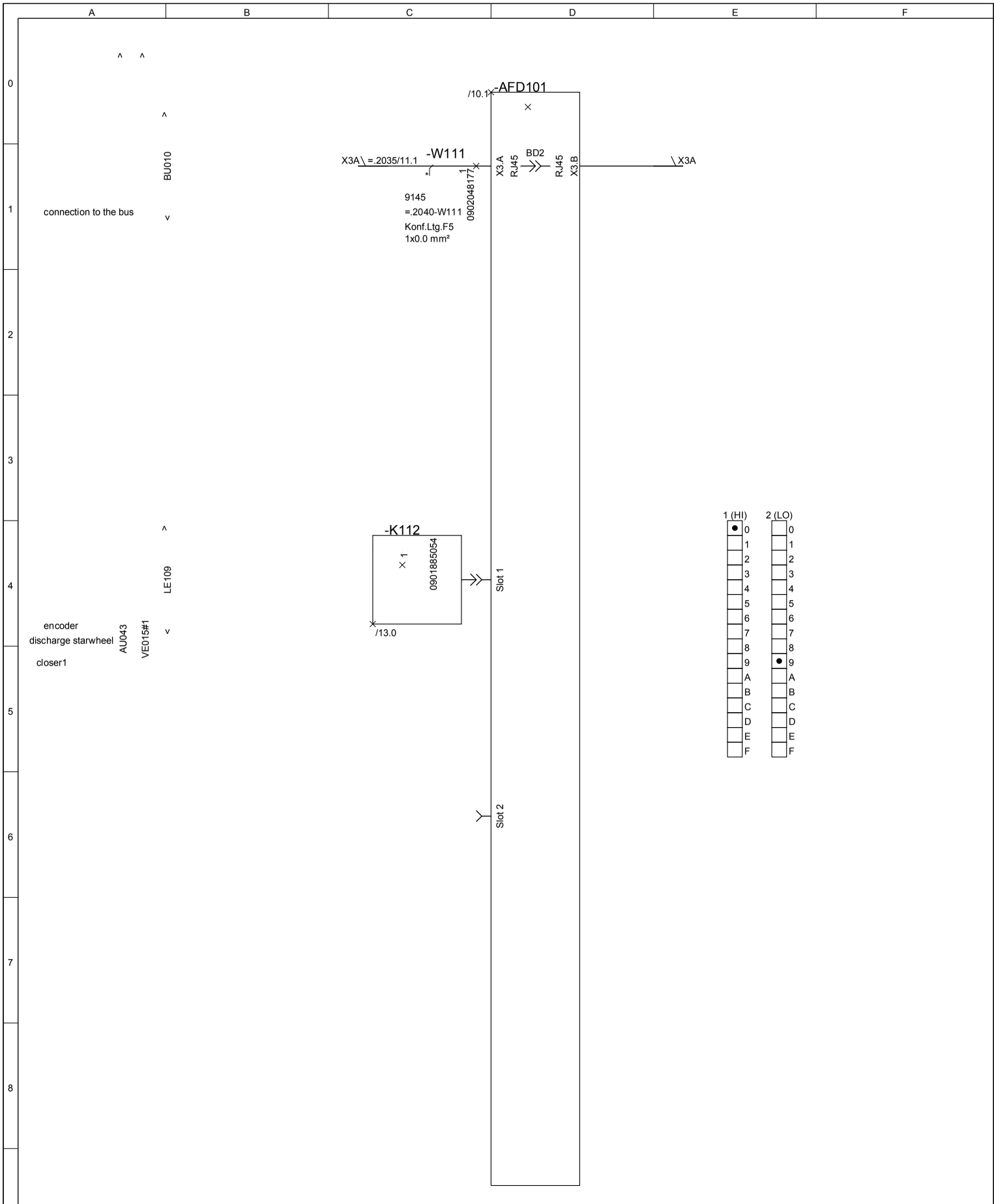
date	18.04.2013	machine type filler	KRONES	closer1	equi. K123989	+SK1	=FU1.2035
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 12 230/348
		version/ 02		SFT_FUG0_201301 20/01570			



date	18.04.2013	machine type	filler	closer1	equi. K123989	+SK1	=FU1.2035
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 13 231/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 20/01570			

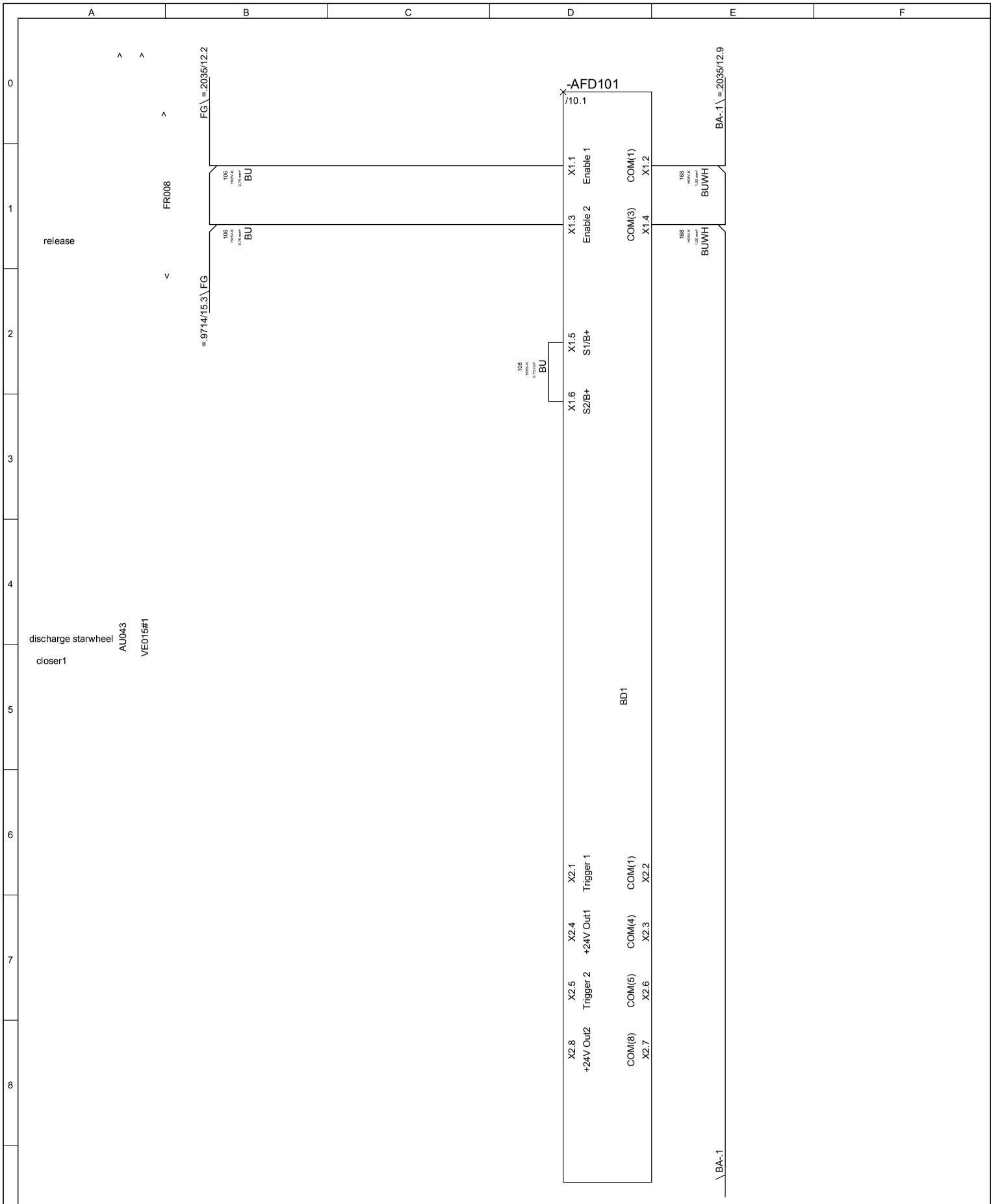


date	19.04.2013	machine type filler	KRONES	discharge starwheel	equi. K123989	+SK1	=FU1.2040
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 10 232/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 20/01532			

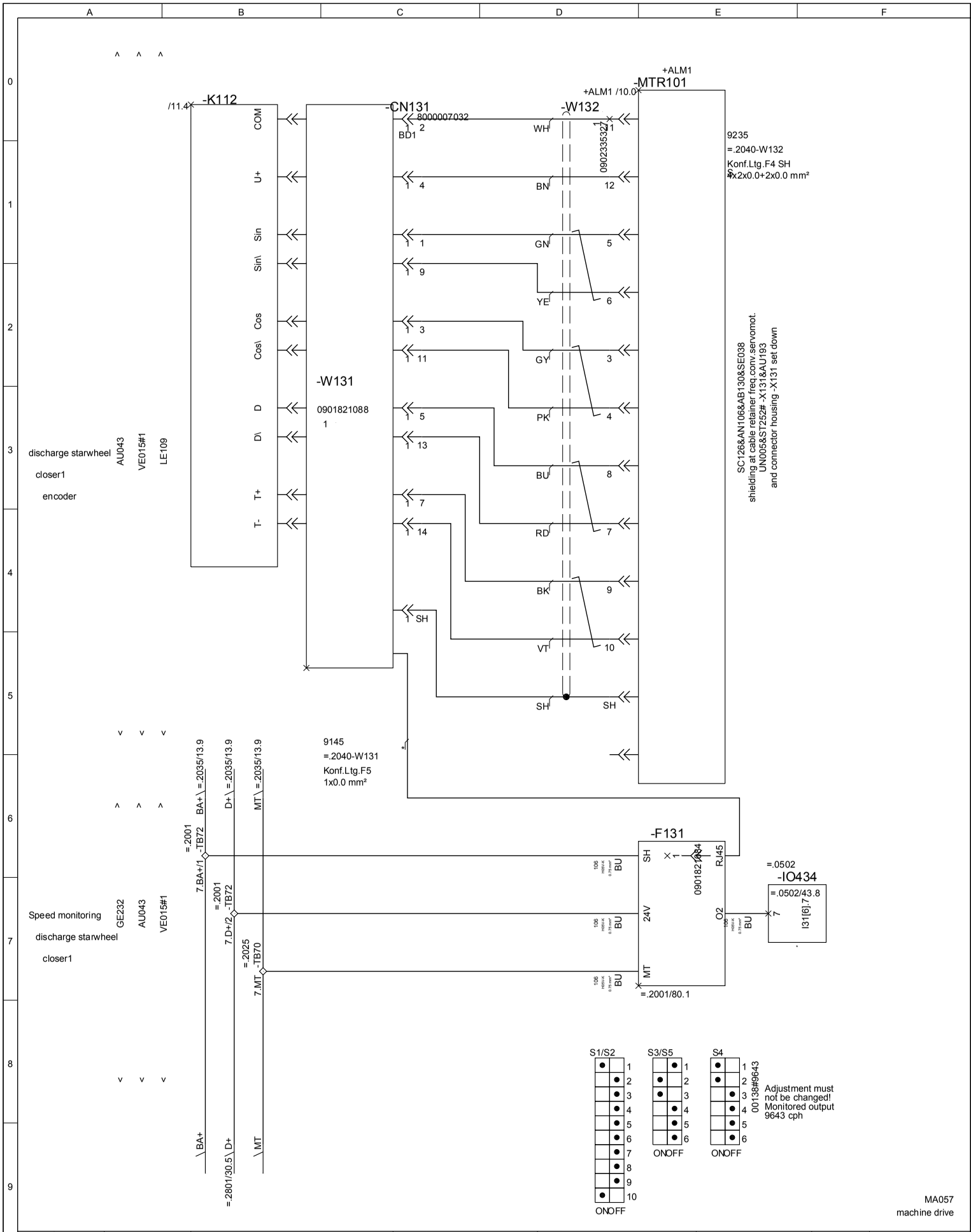


MA057
machine drive

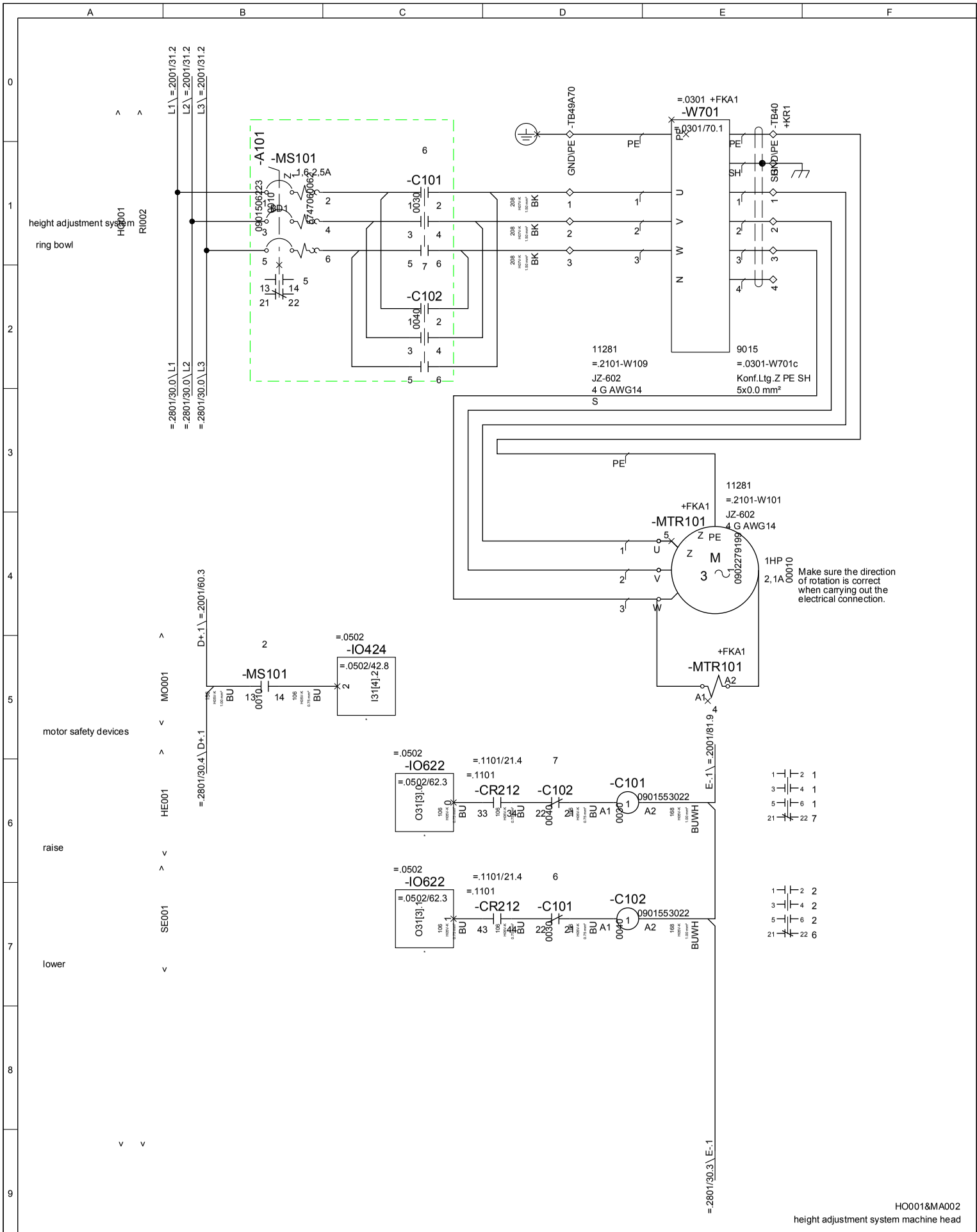
date	19.04.2013	machine type filler	KRONES	discharge starwheel	equi. K123989	+SK1	=FU1.2040
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 11 233/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 20/01532			



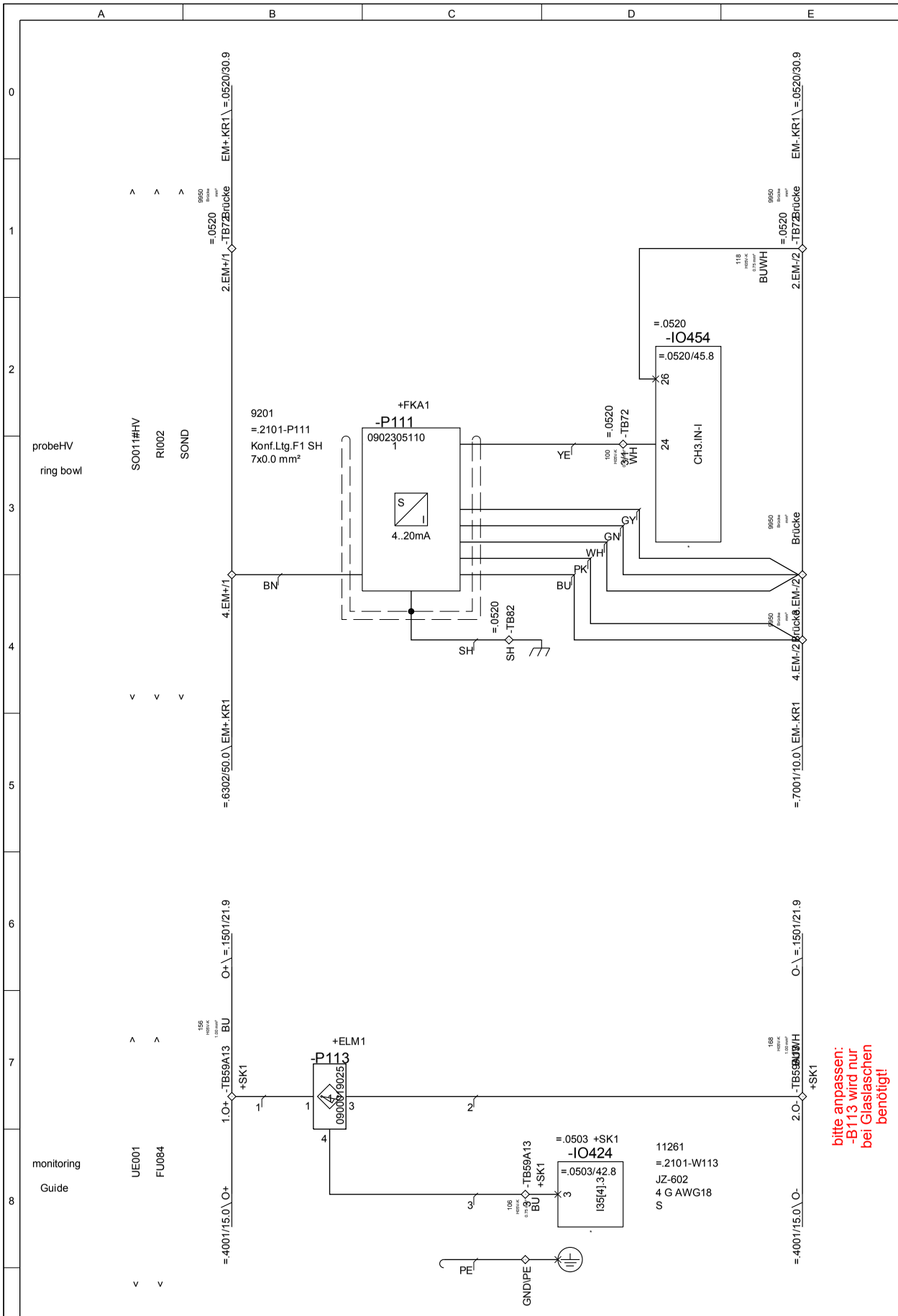
date	18.04.2013	machine type filler	KRONES	discharge starwheel	equi. K123989	+SK1	=FU1.2040
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 12 234/348
		version/ 02		SFT_FUG0_201301 20/01532			



date	19.04.2013	machine type	filler	discharge starwheel	equi. K123989	+SK1	=FU1.2040
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 13 235/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 20/01532			

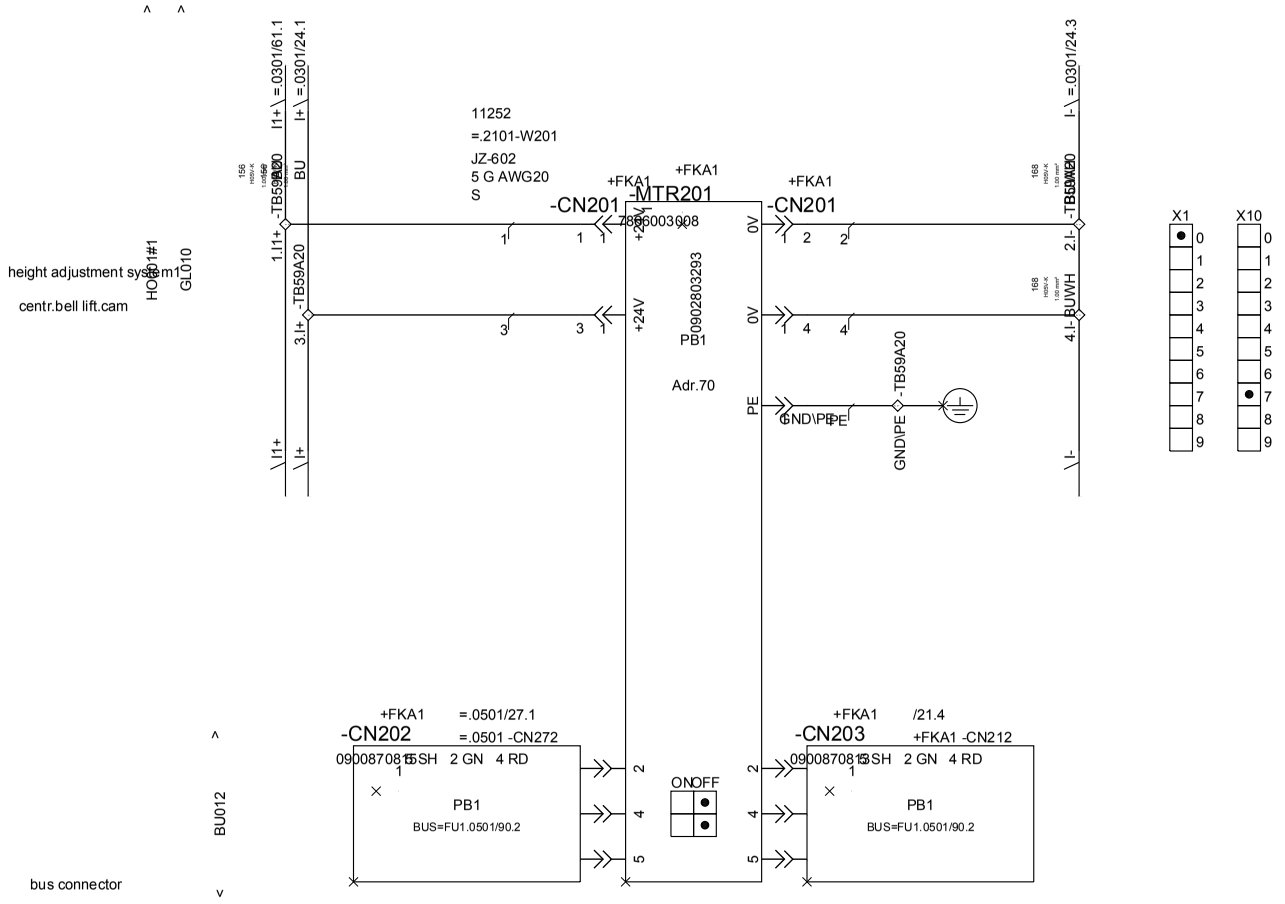


date	26.04.2013	machine type filler	KRONES	height adjustment system	equi. K123989	+SK1	=FU1.2101
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 10 236/348
		version/ 02		SFT_FUG0_201301 21/01021			



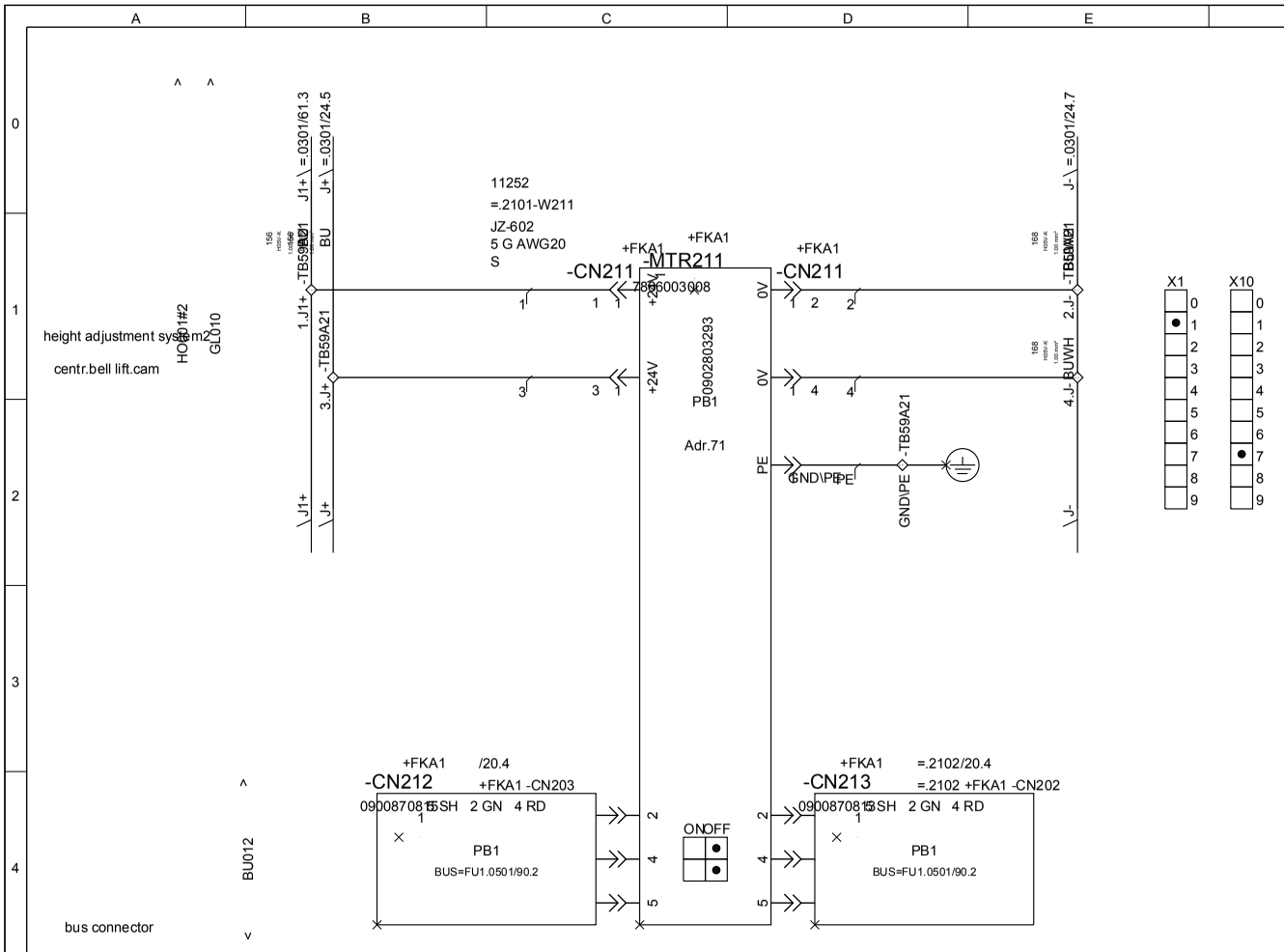
date	18.04.2013	machine type	filler	probe	equi. K123989	+KR1	=FU1.2101
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 11 237/348
				Lagunitas Brewing Company			
		version/	02	SFT_FUG0_201301 21/01021			

KRONES



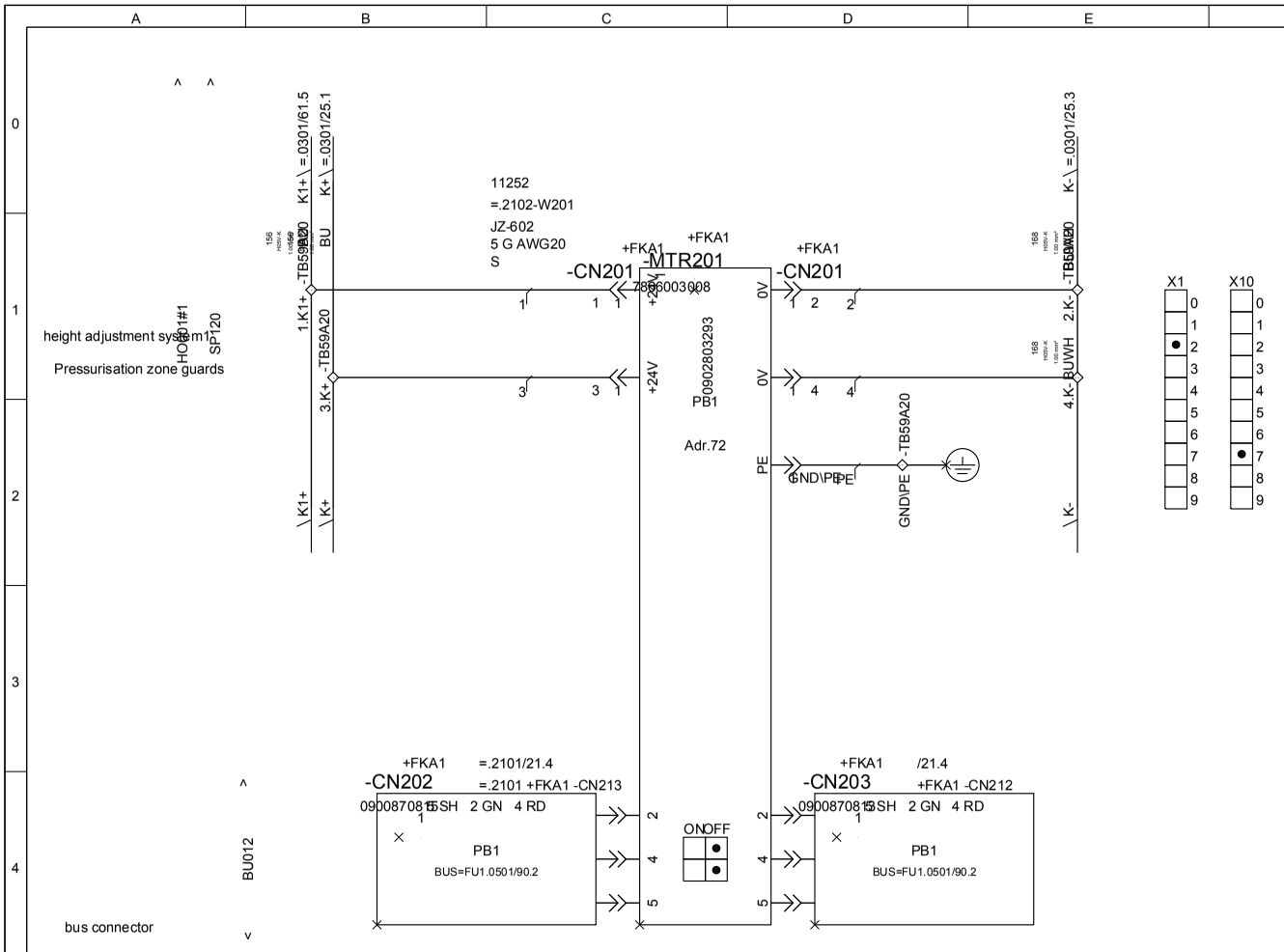
HO001&MA002
height adjustment system machine head

date	19.04.2013	machine type	filler	centr.bell lift.cam	equi. K123989	+SK1	=FU1.2101
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 20 238/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 21/01021			



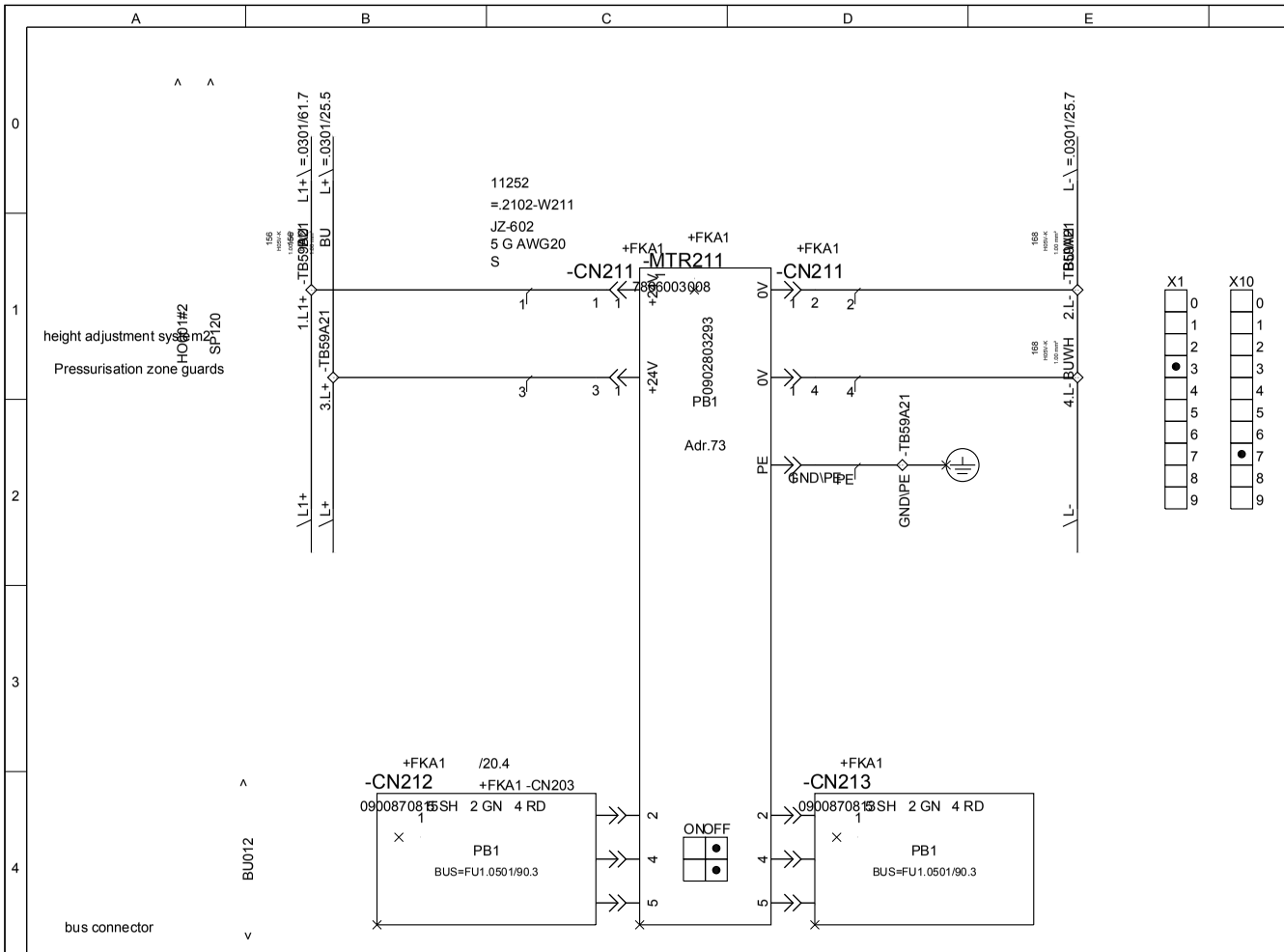
HO001&MA002
height adjustment system machine head

date	19.04.2013	machine type filler	KRONES	centr.bell lift.cam	equi. K123989	+SK1	=FU1.2101
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 21 239/348
		version/ 02		SFT_FUG0_201301 21/01021			



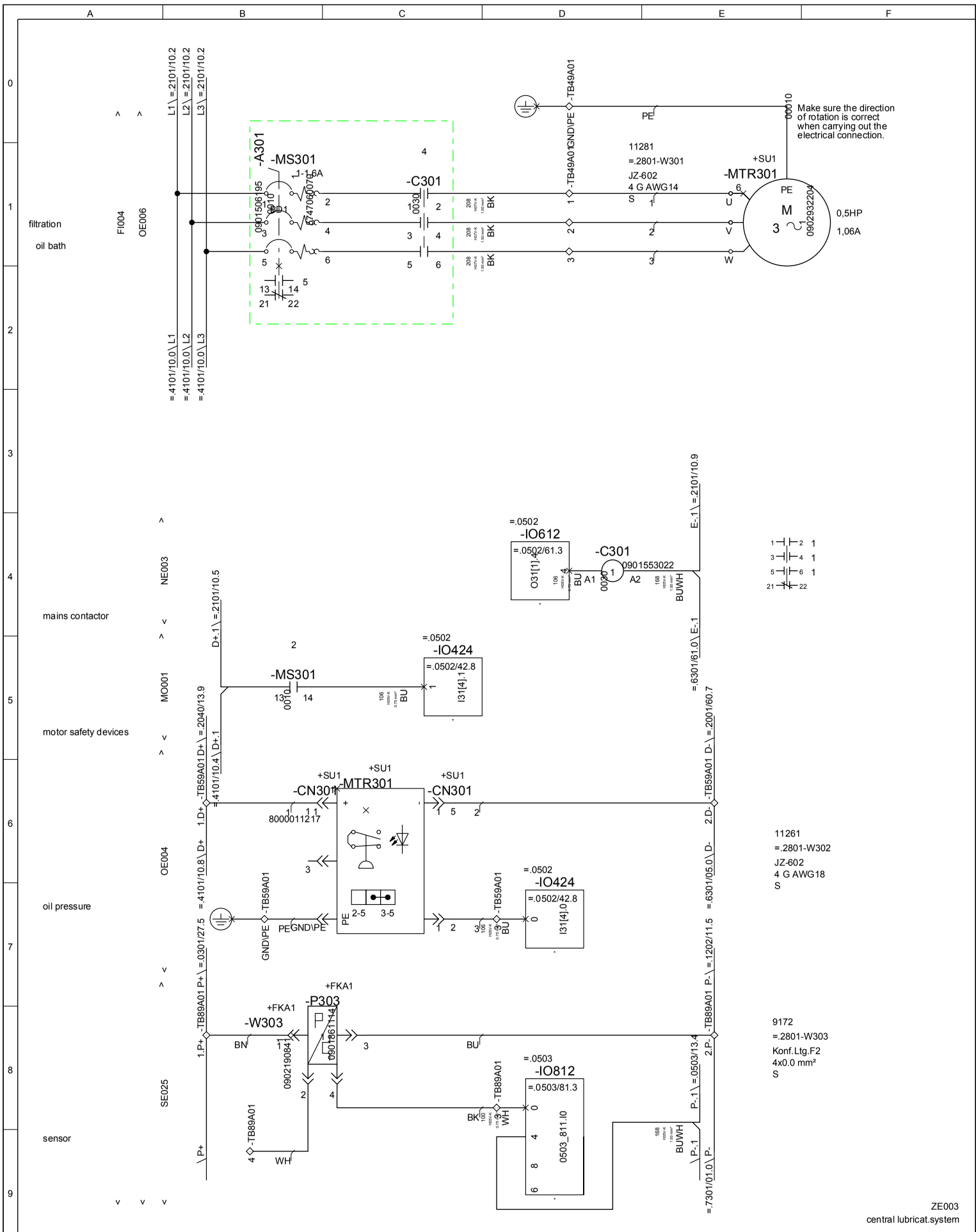
HO001&MA002
height adjustment system machine head

date	26.04.2013	machine type	filler	Pressurisation zone guards	equi. K123989	+SK1	=FU1.2102
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 20 240/348
				Lagunitas Brewing Company			
		version/	02	SFT_FUG0_201301 21/01022			

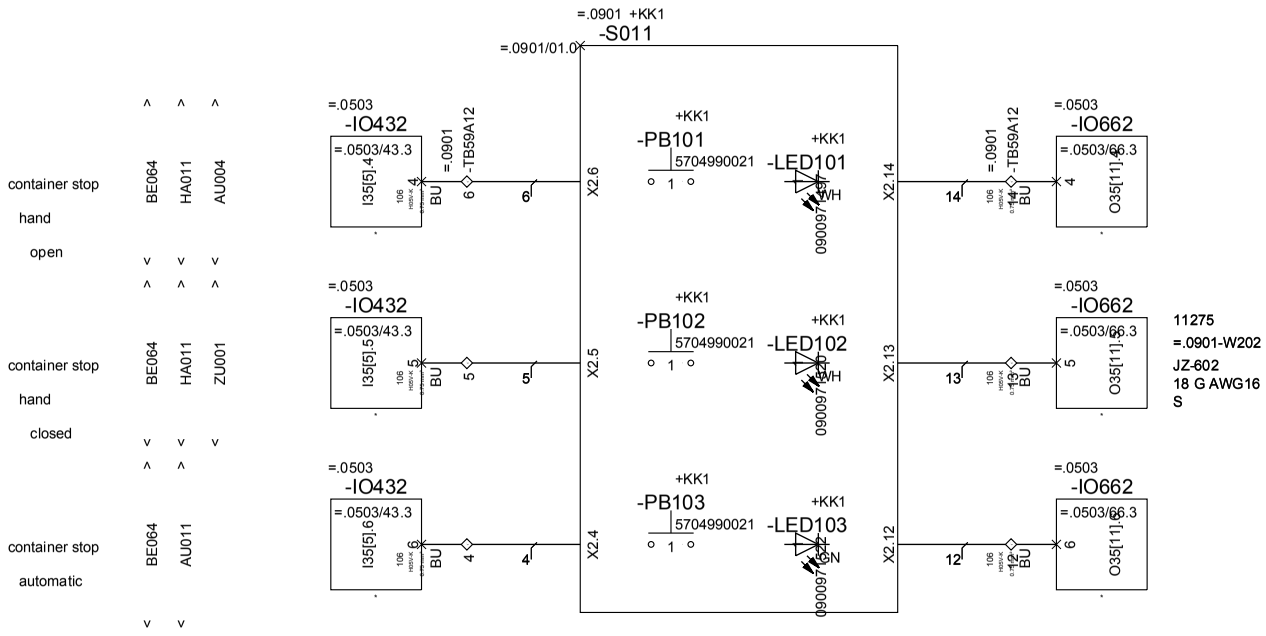


HO001&MA002
height adjustment system machine head

date	26.04.2013	machine type filler	KRONES	Pressurisation zone guards	equi. K123989	+SK1	=FU1.2102
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 21 241/348
		version/ 02		SFT_FUG0_201301 21/01022			

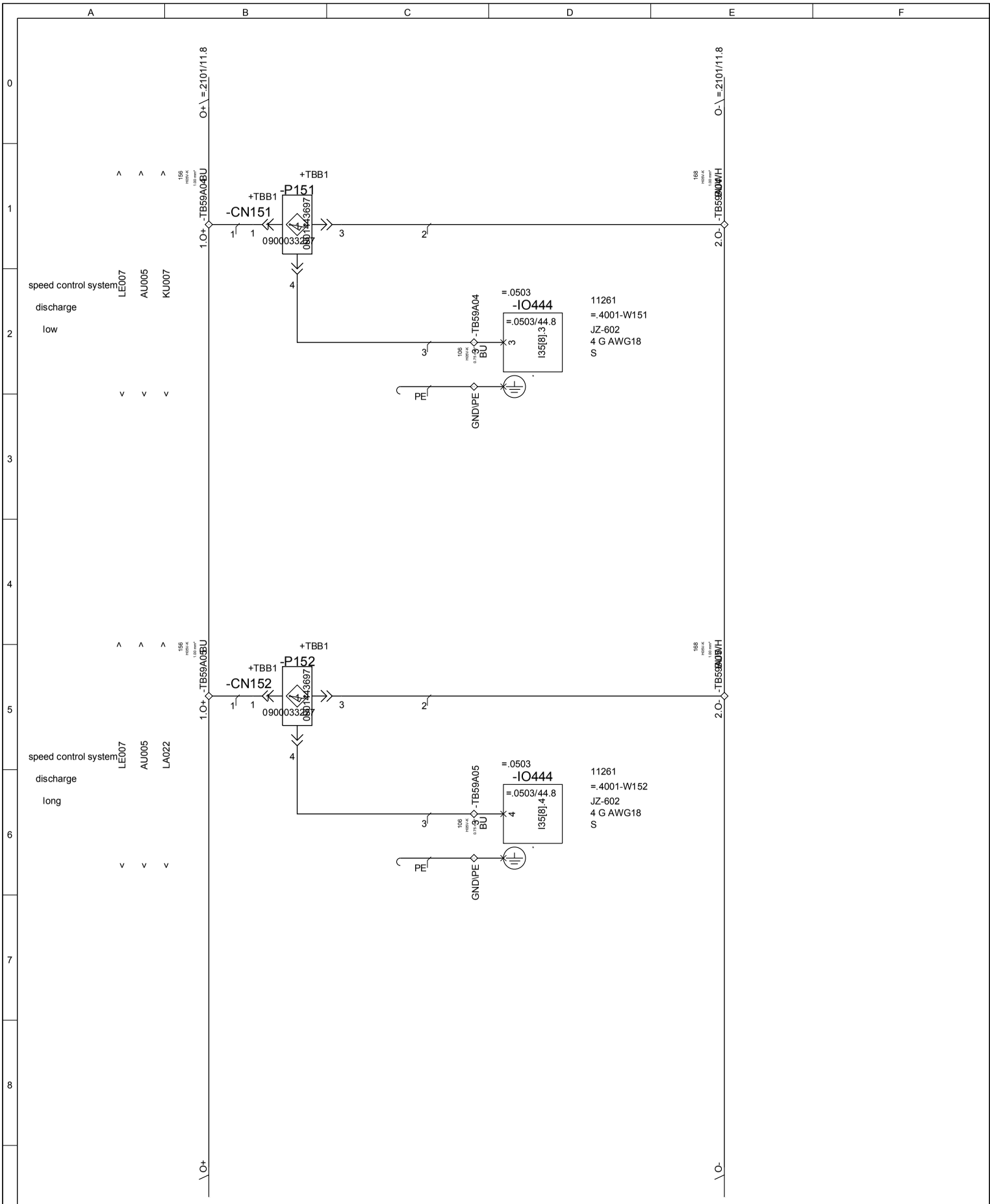


date	19.04.2013	machine type	filler	filtration	equi. K123989	+SK1	=FU1.2801
eng.	Krupka			client			
CAD	Krupka	machine model	MODULFILL HRS	Lagunitas Brewing Company	K123989-001	STR	sheet 30 242/348
		version/	02	SFT_FUG0_201301 28/01021			



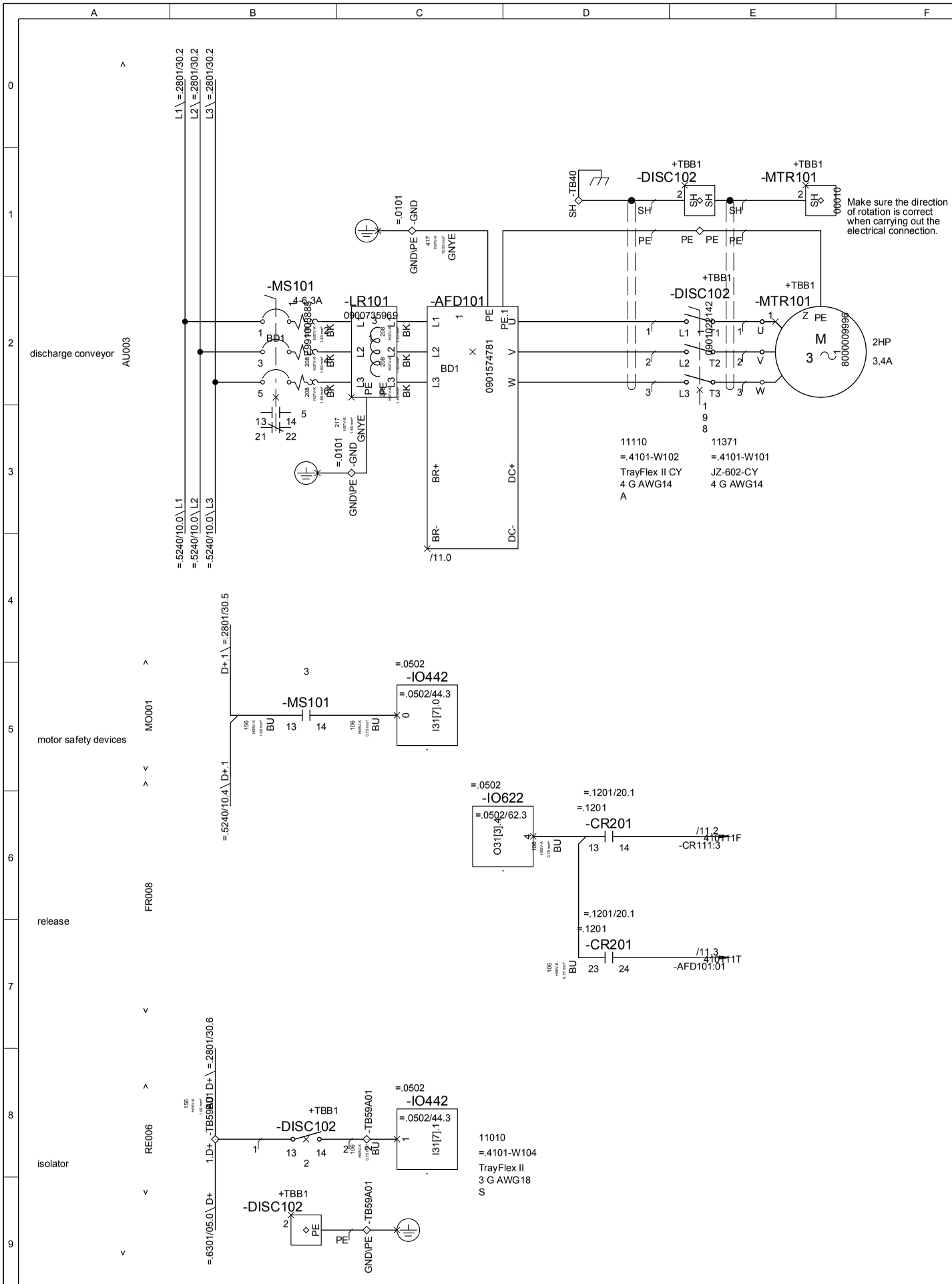
LE007&MA063
speed control system machine control

date	18.04.2013	machine type filler	KRONES	control elements	equi. K123989	+SK1	=FU1.4001
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 10 243/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 40/01025			

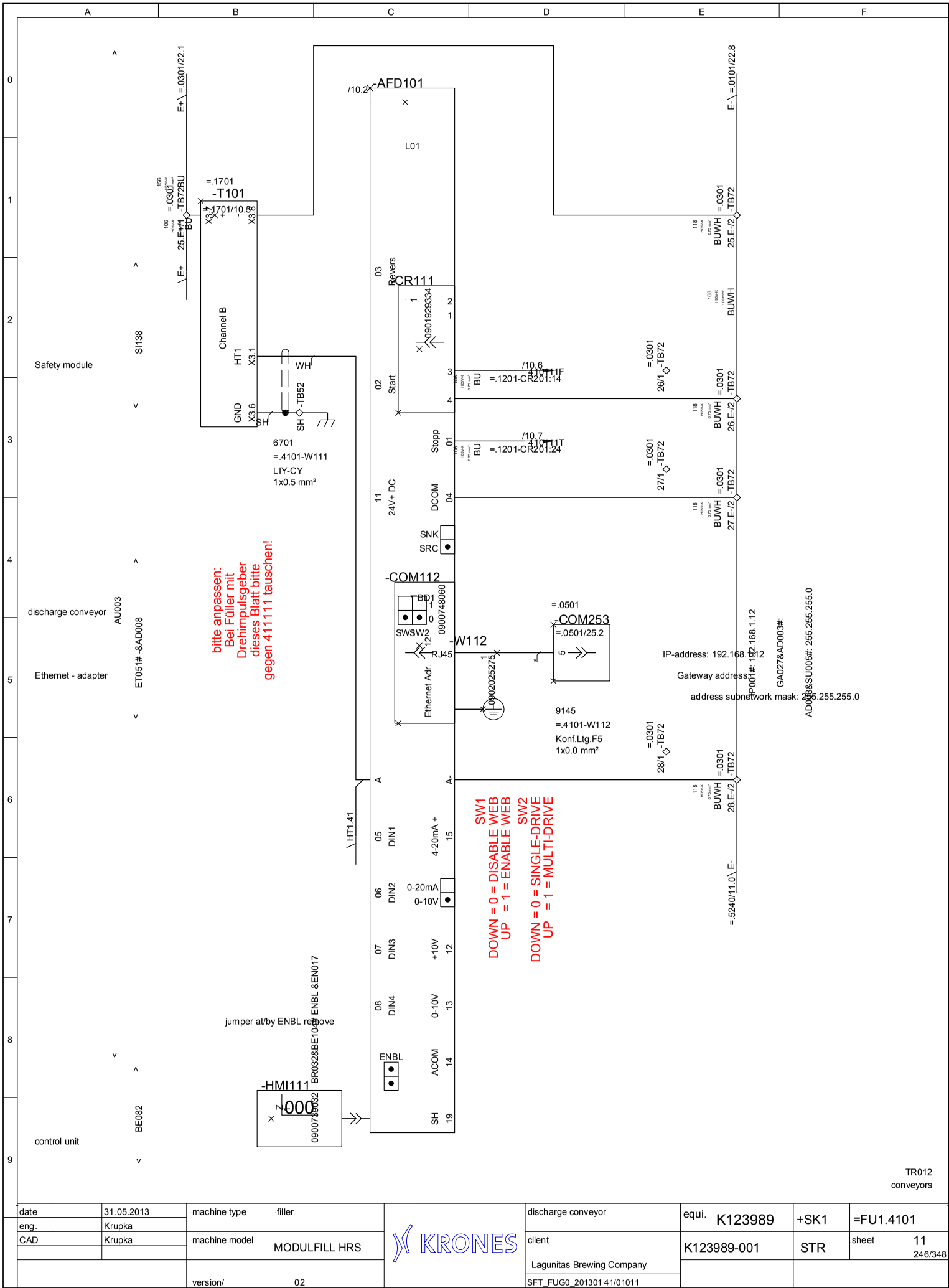


LE007&MA063
speed control system machine control

date	19.04.2013	machine type filler	KRONES	back-up-switch	equi. K123989	+SK1	=FU1.4001
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 15 244/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 40/01025			

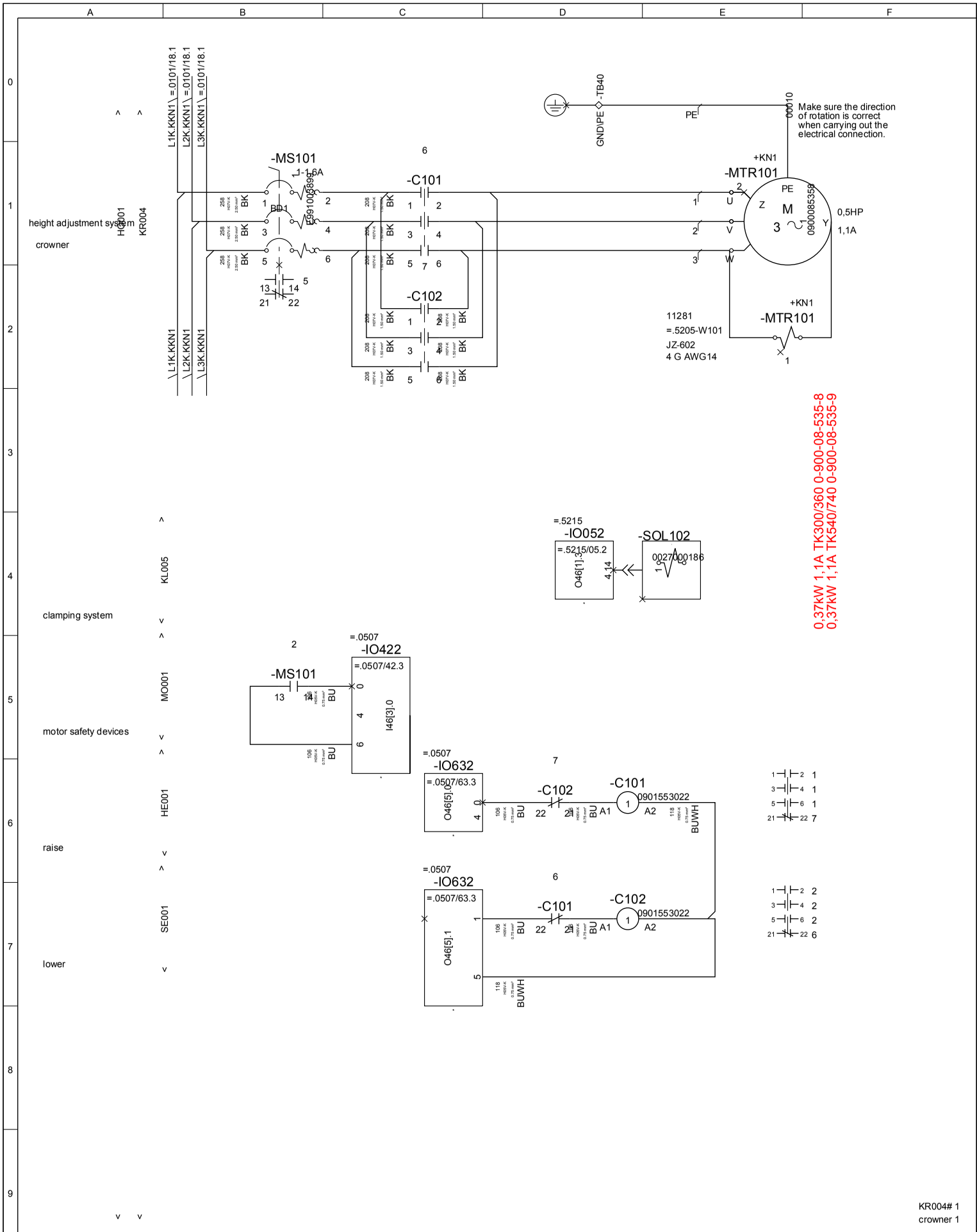


date	23.04.2013	machine type filler	KRONES	discharge conveyor	equi. K123989	+SK1	=FU1.4101
eng.	Krupka			client	K123989-001	STR	sheet 10 245/348
CAD	Krupka	machine model MODULFILL HRS		Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 41/01011			



date	31.05.2013	machine type	filler	discharge conveyor	equi. K123989	+SK1	=FU1.4101
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 11
				Lagunitas Brewing Company			246/348
		version/	02	SFT_FUG0_201301 41/01011			

KRONES

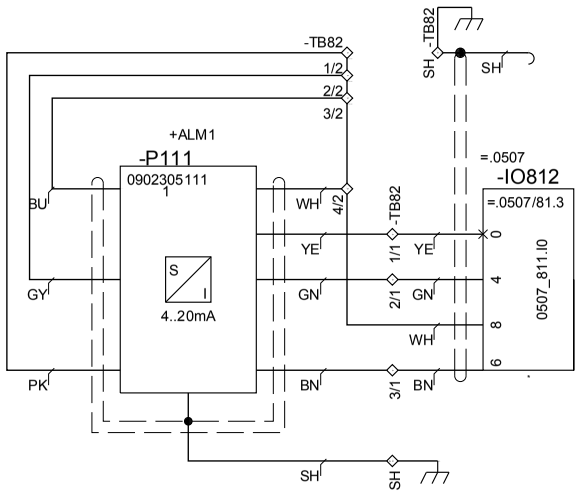


date	19.04.2013	machine type filler	KRONES	height adjustment system	equi. K123989	+KKN1	=FU1.5205
eng.	Krupka			client	K123989-001	STR	sheet 10 247/348
CAD	Krupka	machine model MODULFILL HRS		Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 52/01005			

probe SO011 HO001 KR004

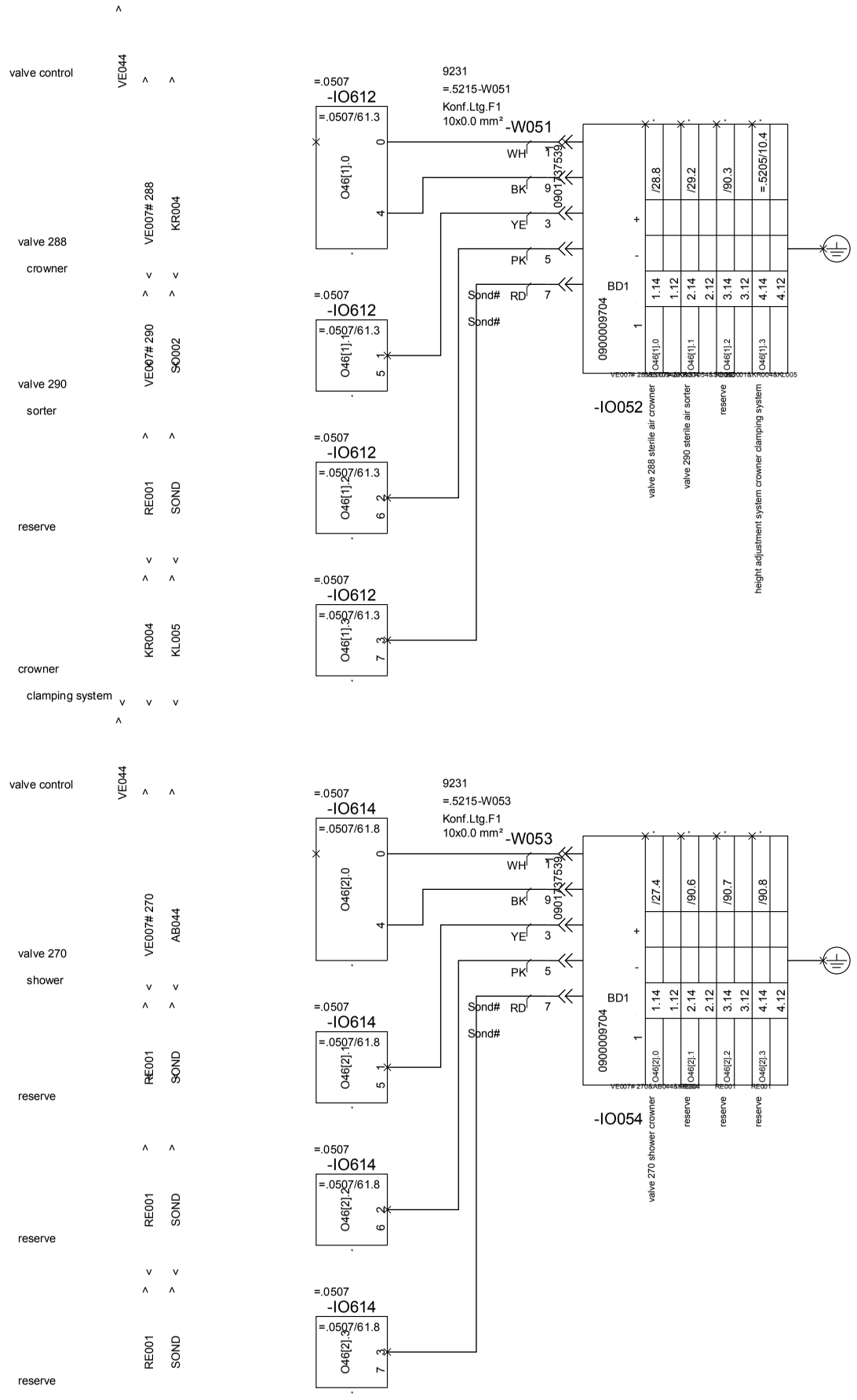
height adjustment system

crowner



KR004# 1
crowner 1

date	19.04.2013	machine type filler	KRONES	probe	equi. K123989	+KKN1	=FU1.5205
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 11 248/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 52/01005			



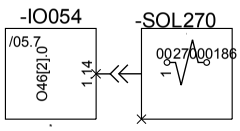
date	19.04.2013	machine type	filler	valve block	equi. K123989	+KKN1	=FU1.5215
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 05 249/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 52/01015			

KRONES

valve 270
shower
crowner

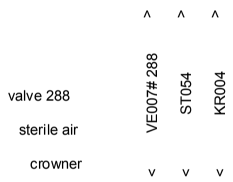
VE007# 270 ^ v
AB044 ^ v
KR004 ^ v

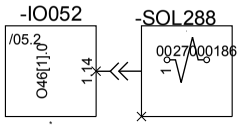
Dieses Ventil nur bei Kaltwasser verwenden



KR004# 1
crowner 1

date	18.04.2013	machine type filler	KRONES	valve 270	equi. K123989	+KKN1	=FU1.5215
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 27 250/348
		version/ 02		SFT_FUG0_201301 52/01015			



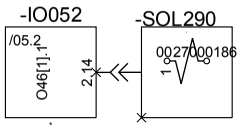


KR004# 1
crowner 1

date	19.04.2013	machine type filler	KRONES	valve 288	equi. K123989	+KKN1	=FU1.5215
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 28 251/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 52/01015			

valve 290
sterile air
sorter

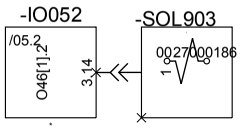
VE007# 290
ST054
SO002

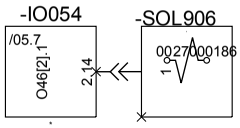


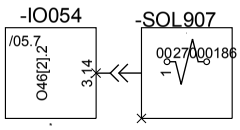
KR004# 1
crowner 1

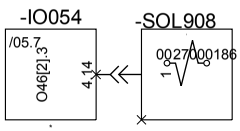
date	18.04.2013	machine type filler	KRONES	valve 290	equi. K123989	+KKN1	=FU1.5215
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 29 252/348
		version/ 02		SFT_FUG0_201301 52/01015			

reserve RE001



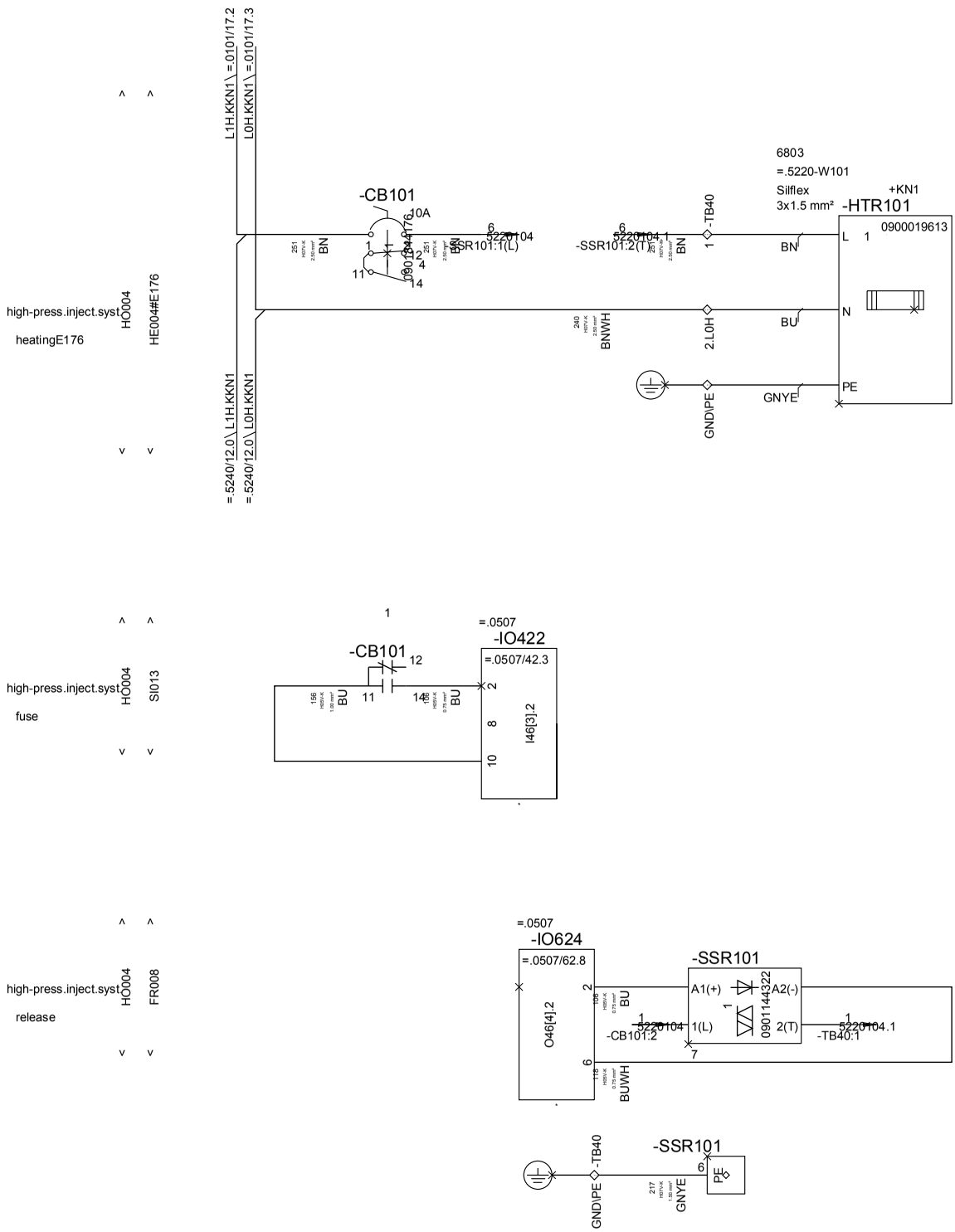






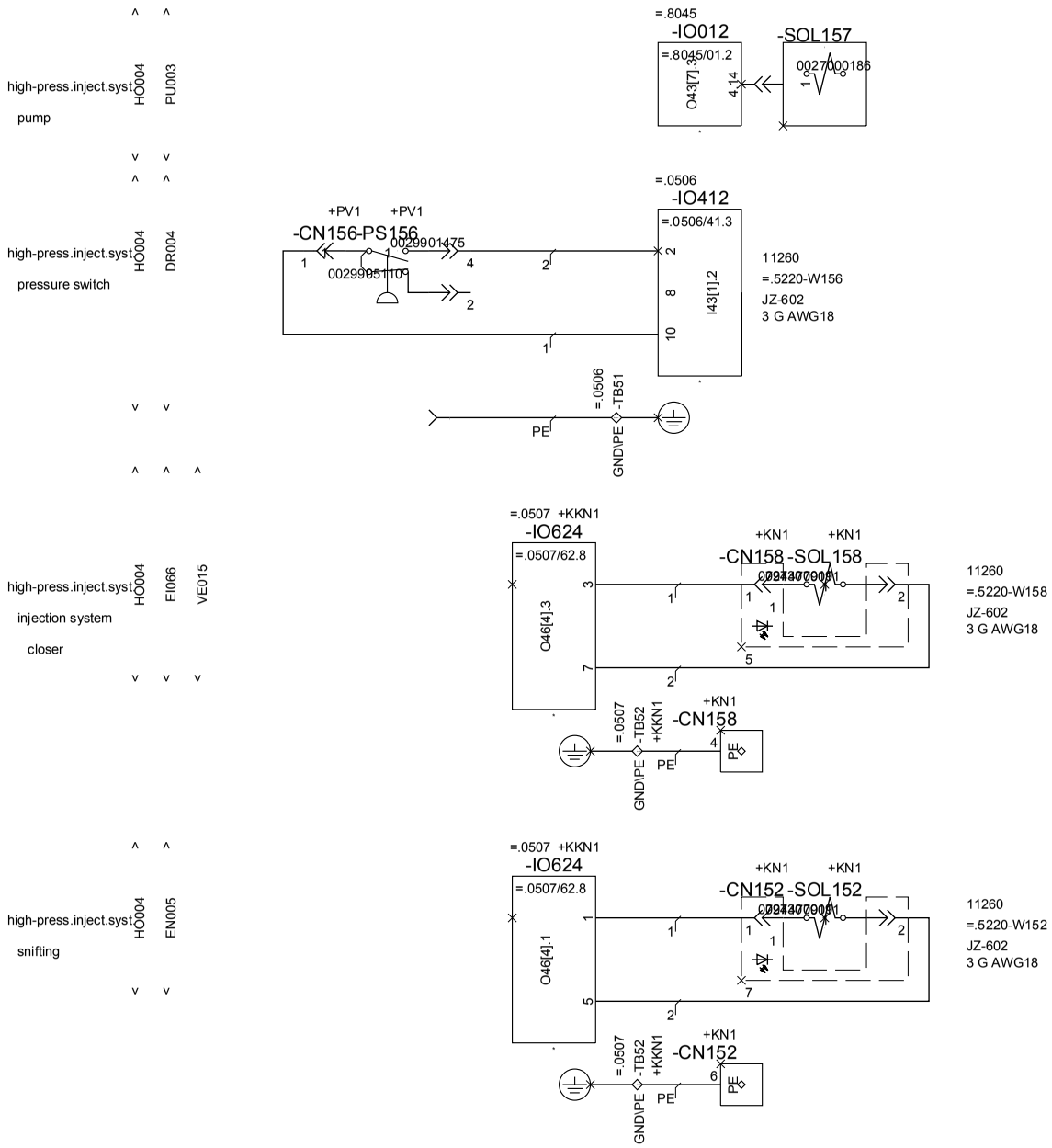
KR004# 1
crowner 1

date	19.04.2013	machine type filler	KRONES	reserve	equi. K123989	+KKN1	=FU1.5215
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 90 253/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 52/01015			



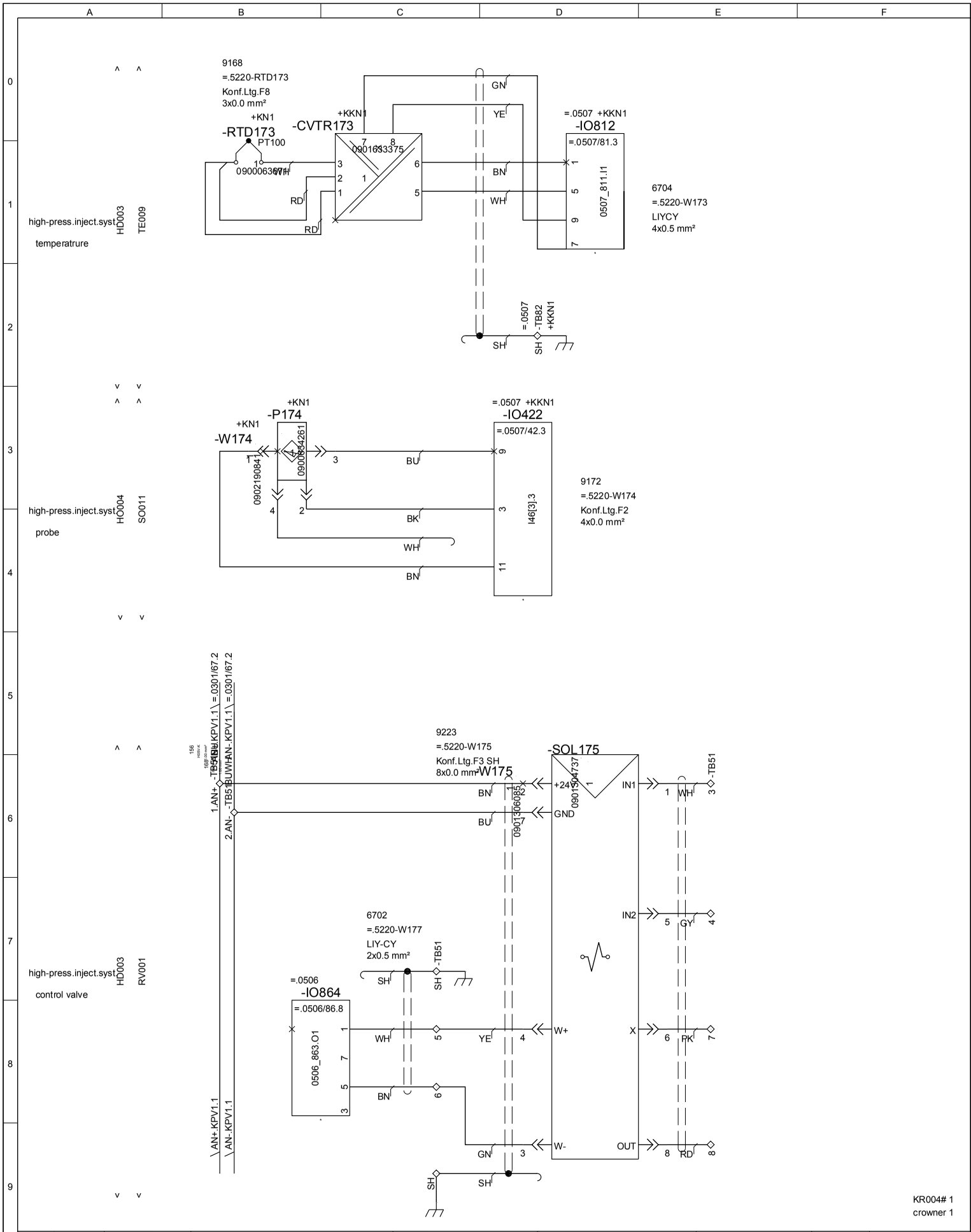
KR004# 1
crowner 1

date	23.04.2013	machine type filler	KRONES	high-press.inject.syst.	equi. K123989	+KKN1	=FU1.5220
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 10 254/348
		version/ 02		SFT_FUG0_201301 52/01020			

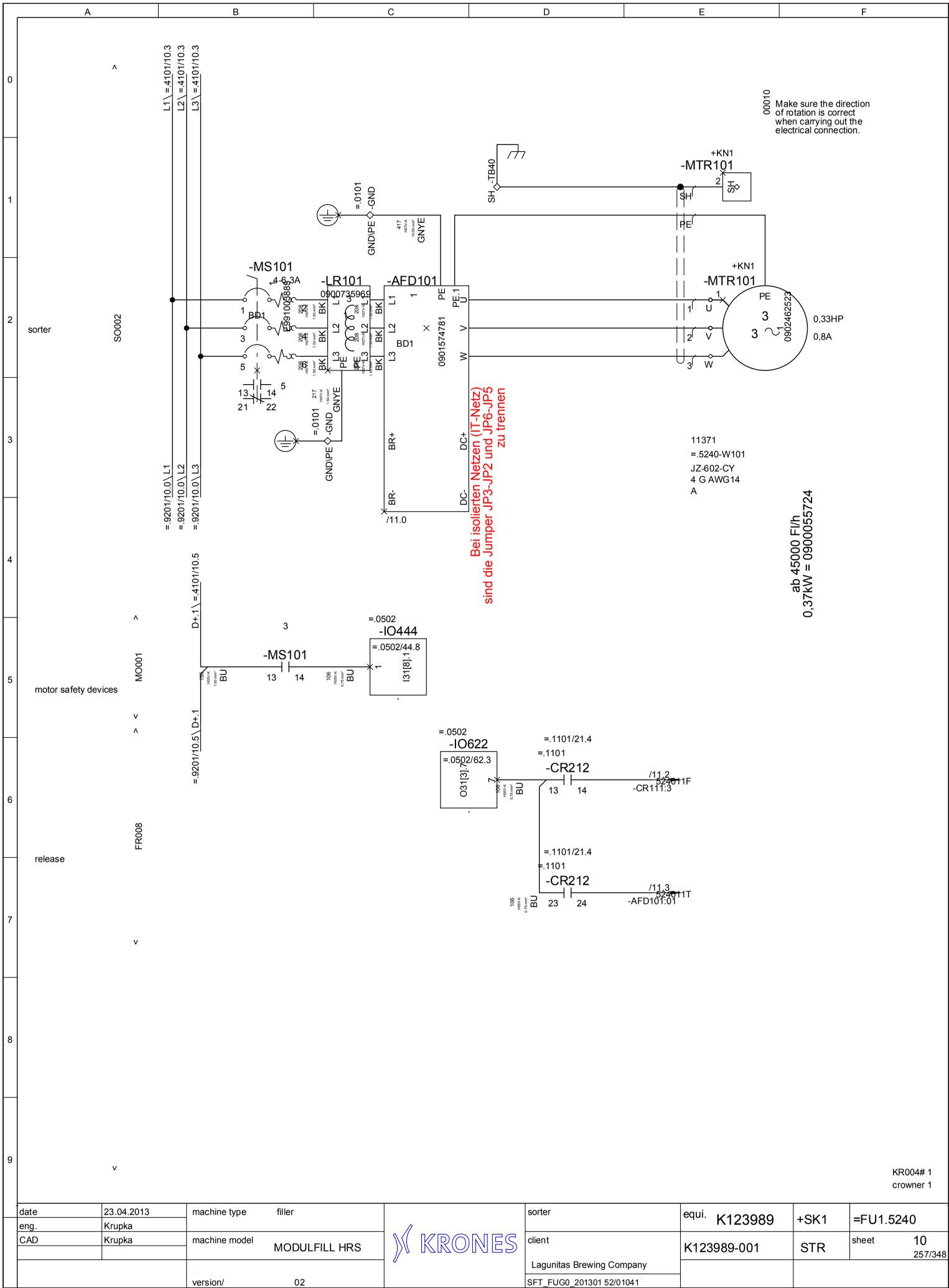


KR004# 1
crowner 1

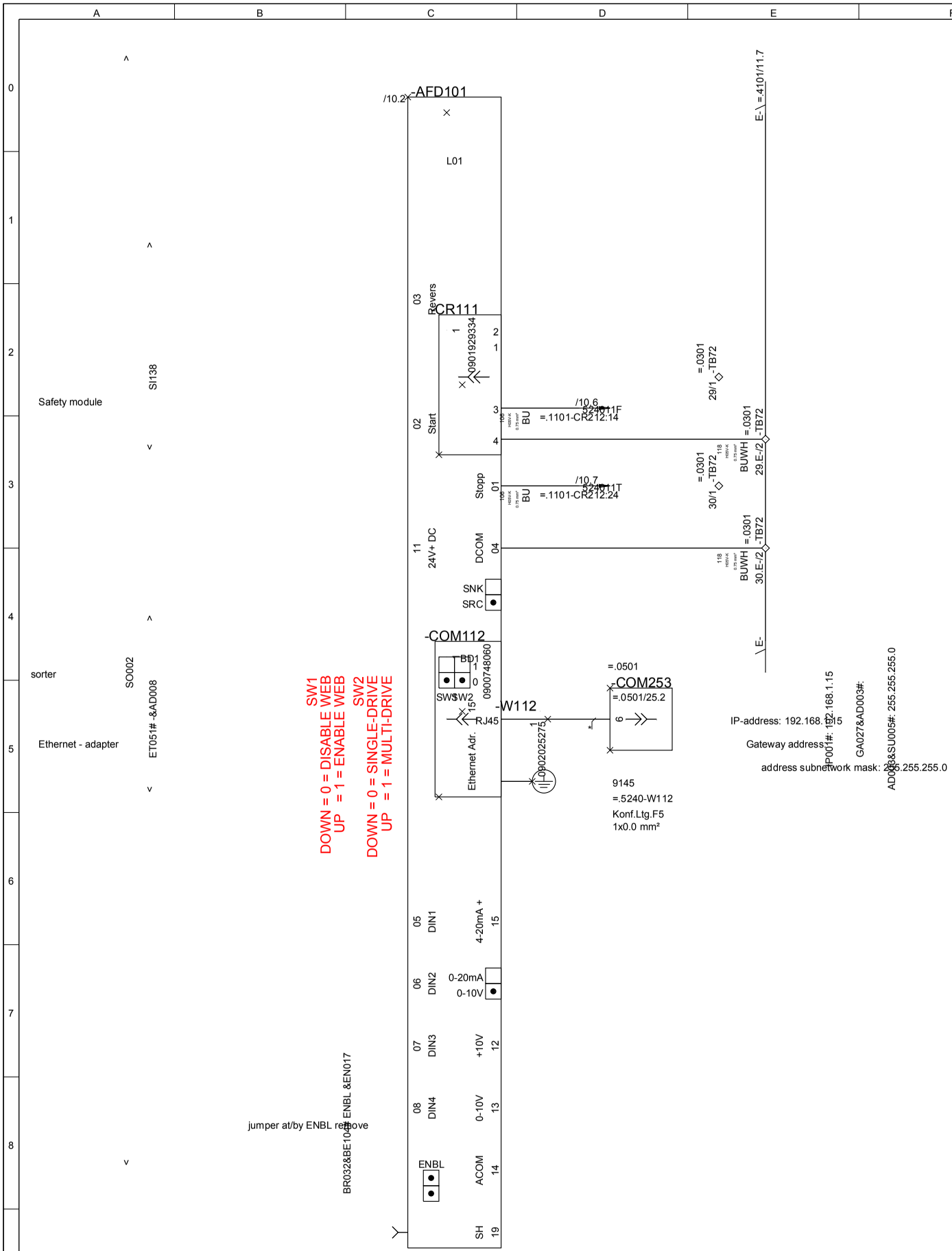
date	19.04.2013	machine type filler	KRONES	high-press.inject.syst.	equi. K123989	+KPV1	=FU1.5220
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 15 255/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 52/01020			



date	27.08.2013	machine type filler	KRONES	controlHDE	equi. K123989	+KPV1	=FU1.5220
eng.	Krupka						
CAD	Skala	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 17 256/348
		version/ 02		SFT_FUG0_201301 52/01020			

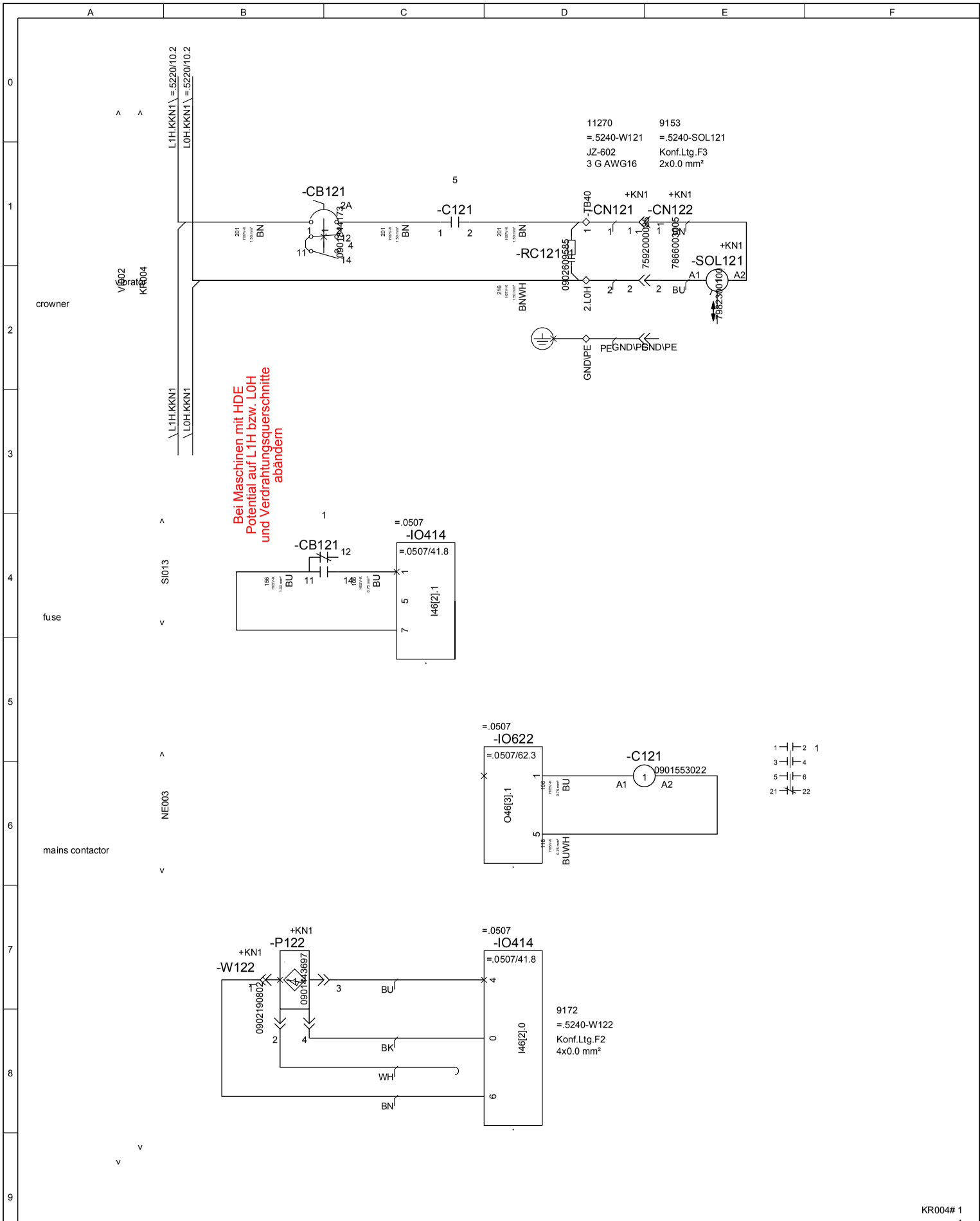


date	23.04.2013	machine type	filler	sorter	equi. K123989	+SK1	=FU1.5240
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 10 257/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 52/01041			



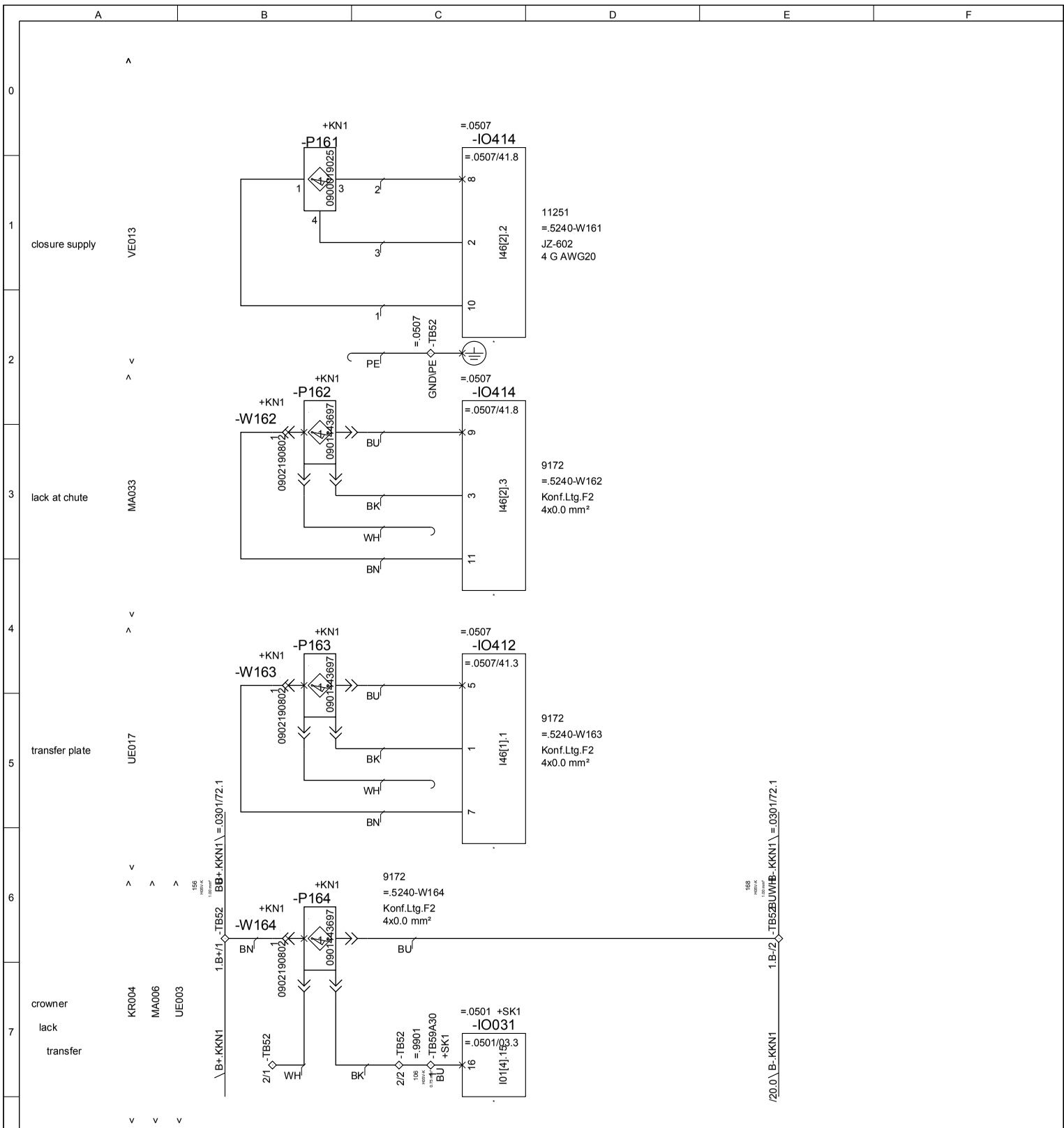
date	31.05.2013	machine type	filler	sorter	equi. K123989	+SK1	=FU1.5240
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 11 258/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 52/01041			

KRONES



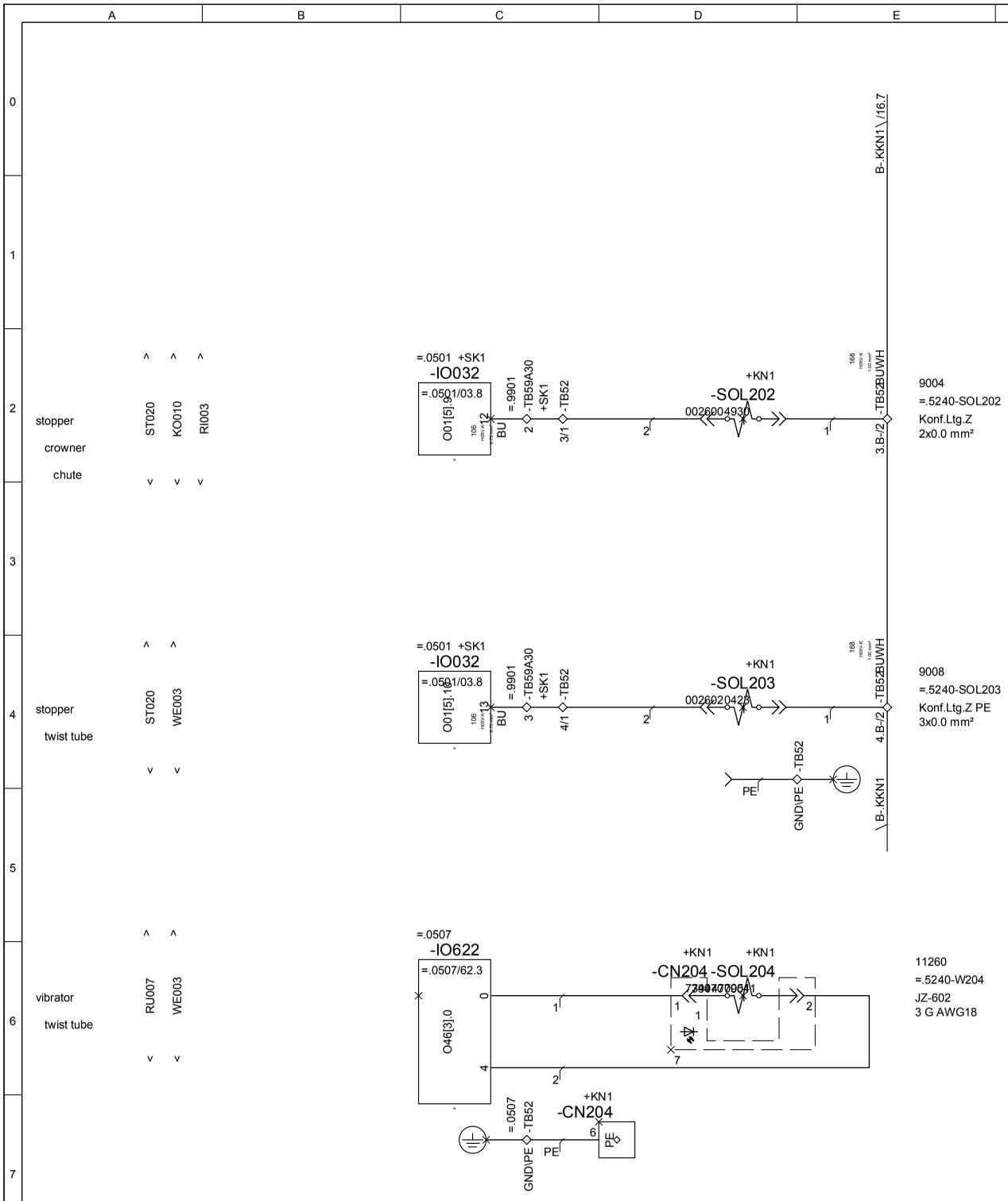
KR004# 1
crowner 1

date	19.04.2013	machine type filler	KRONES	vibrator	equi. K123989	+KKN1	=FU1.5240
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 12 259/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 52/01041			



KR004# 1
crowner 1

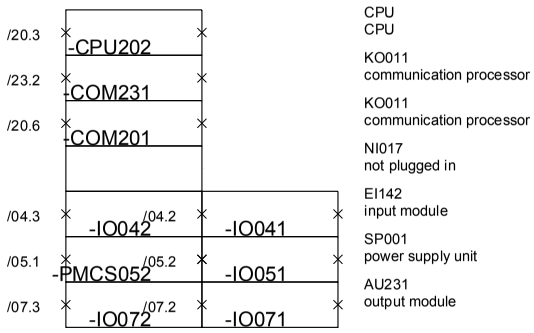
date	18.04.2013	machine type filler	KRONES	sensors	equi. K123989	+KKN1	=FU1.5240
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 16 260/348
		version/ 02		SFT_FUG0_201301 52/01041			



KR004# 1
crowner 1

date	18.04.2013	machine type filler	KRONES	valves	equi. K123989	+KKN1	=FU1.5240
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 20 261/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 52/01041			

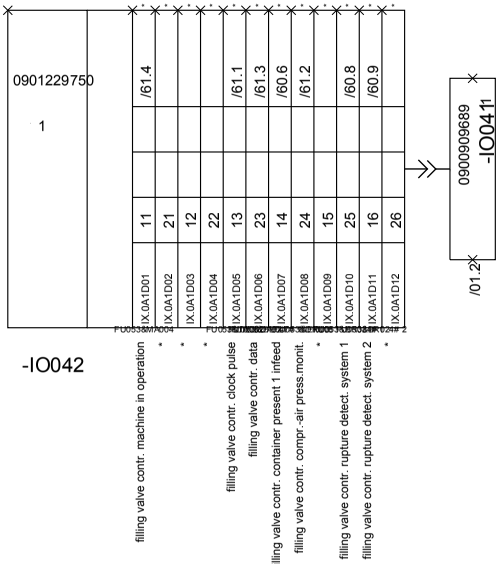
plug-in slot assignm. ST047



Werden noch Ein- bzw. Ausgänge benötigt bitte Mischmodul (09014444323) verwenden!

ST015&EL001
control unit electronic components

date	31.05.2013	machine type filler	KRONES	rack structure X20	equi. K123989	+SK1	=FU1.6301
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 01 262/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 63/01011			

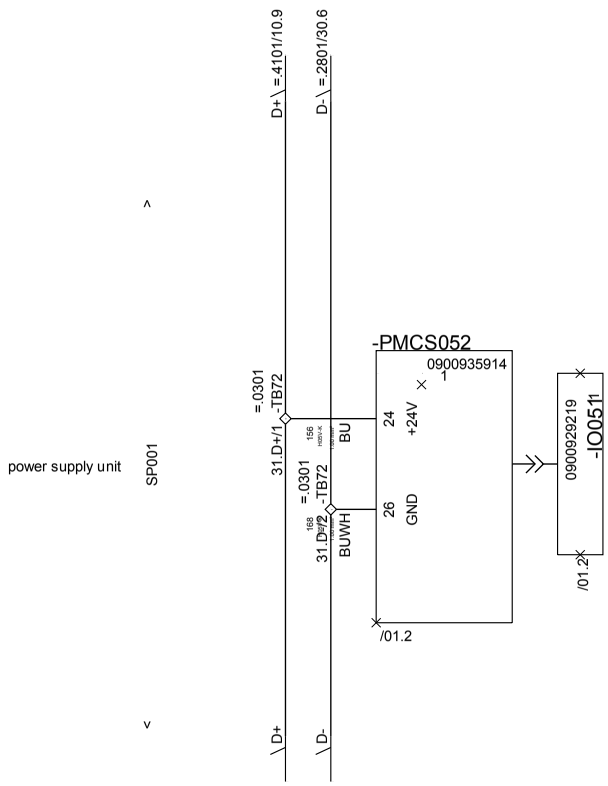


EI142

input module

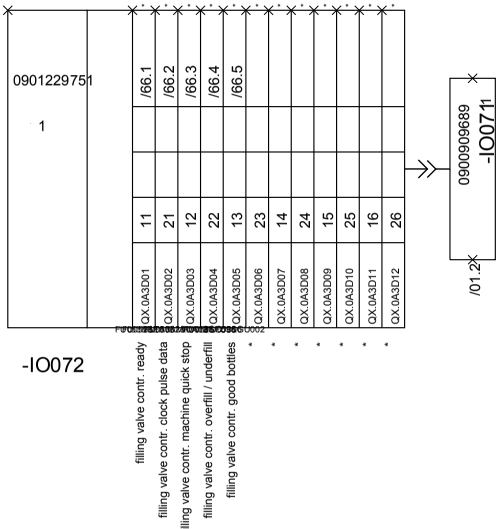
ST015&EL001
control unit electronic components

date	18.04.2013	machine type filler	KRONES	input modules	equi. K123989	+SK1	=FU1.6301
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 04 263/348
		version/ 02		SFT_FUG0_201301 63/01011			



ST015&EL001
control unit electronic components

date	18.04.2013	machine type filler	KRONES	extension	equi. K123989	+SK1	=FU1.6301
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 05 264/348
		version/ 02		SFT_FUG0_201301 63/01011			

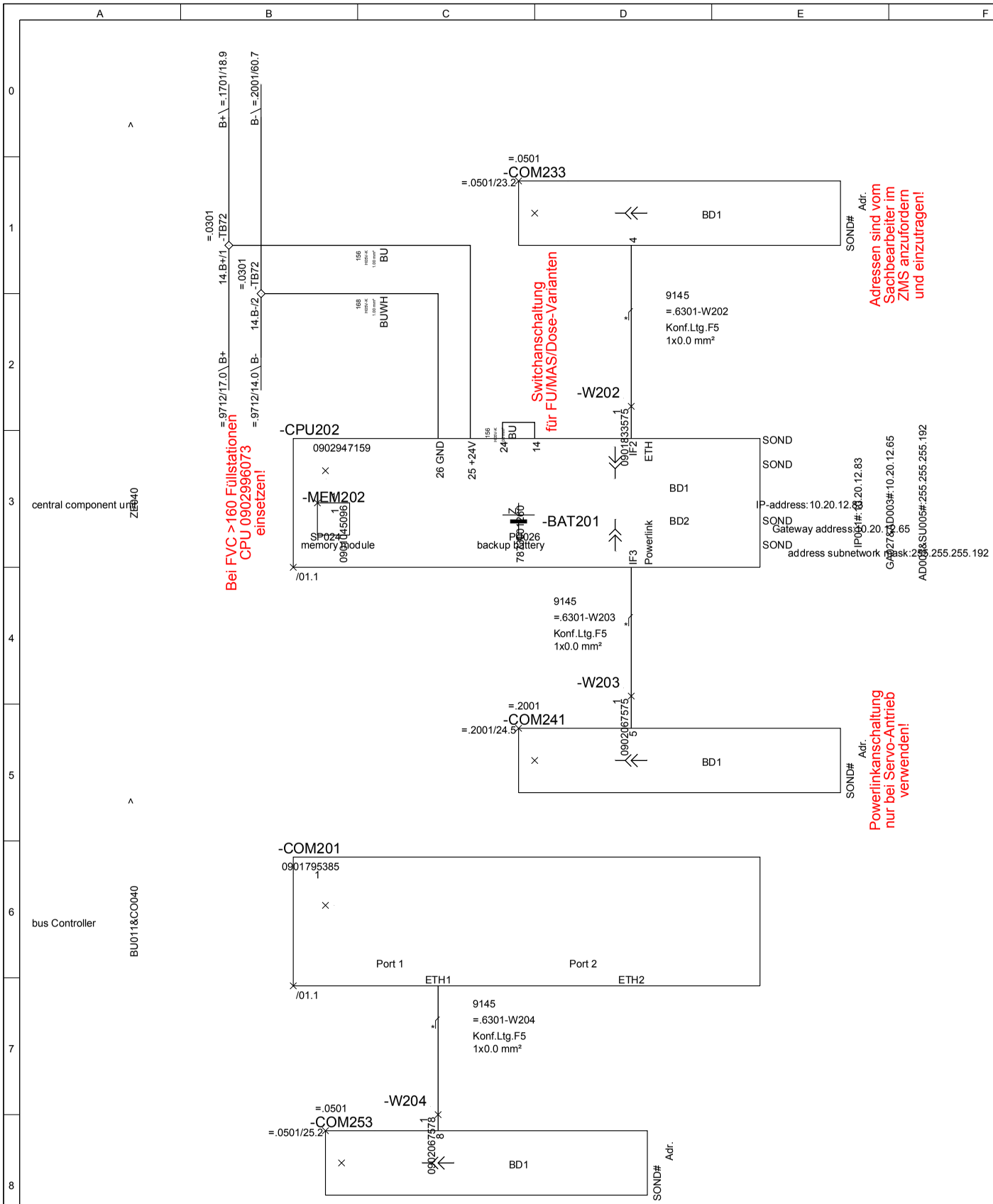


AU231

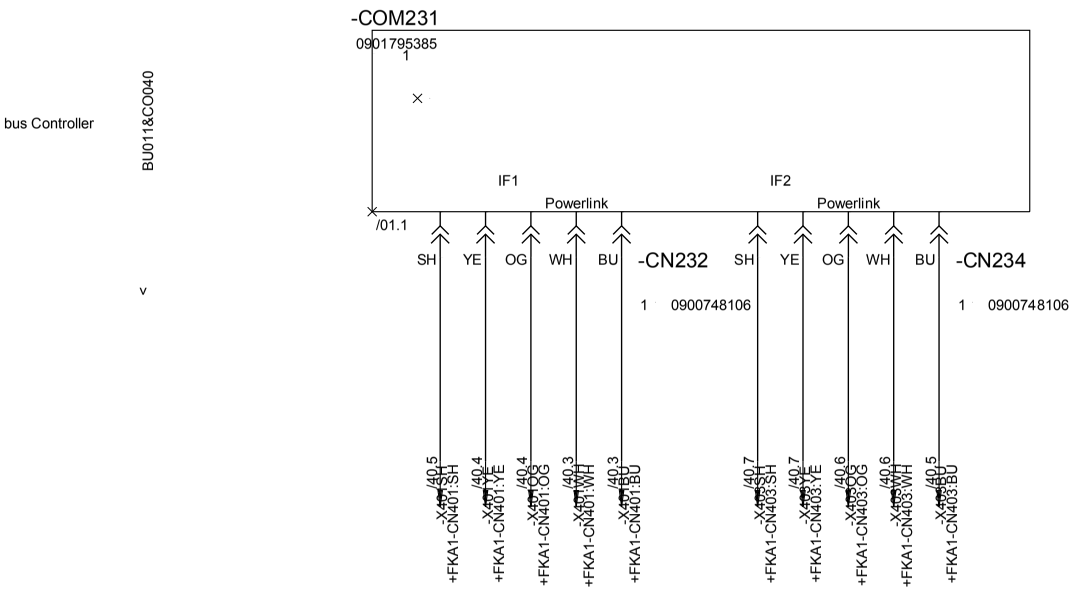
output module

ST015&EL001
control unit electronic components

date	18.04.2013	machine type filler	KRONES	output module	equi. K123989	+SK1	=FU1.6301
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 07 265/348
		version/ 02		SFT_FUG0_201301 63/01011			



date	31.05.2013	machine type filler	KRONES	CPU	equi. K123989	+SK1	=FU1.6301
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 20 266/348
		version/ 02		SFT_FUG0_201301 63/01011			

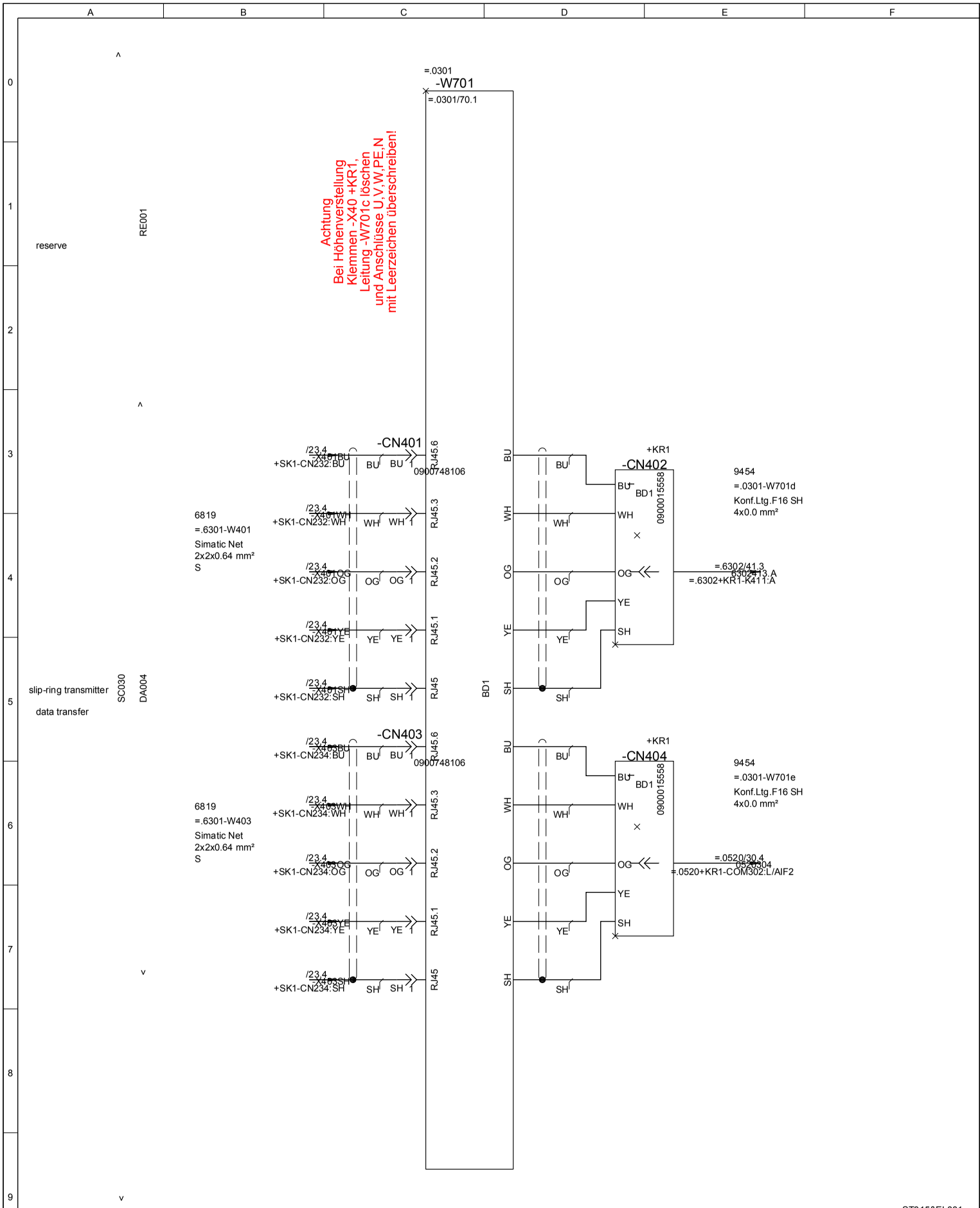


bus Controller

BU0118&CO040

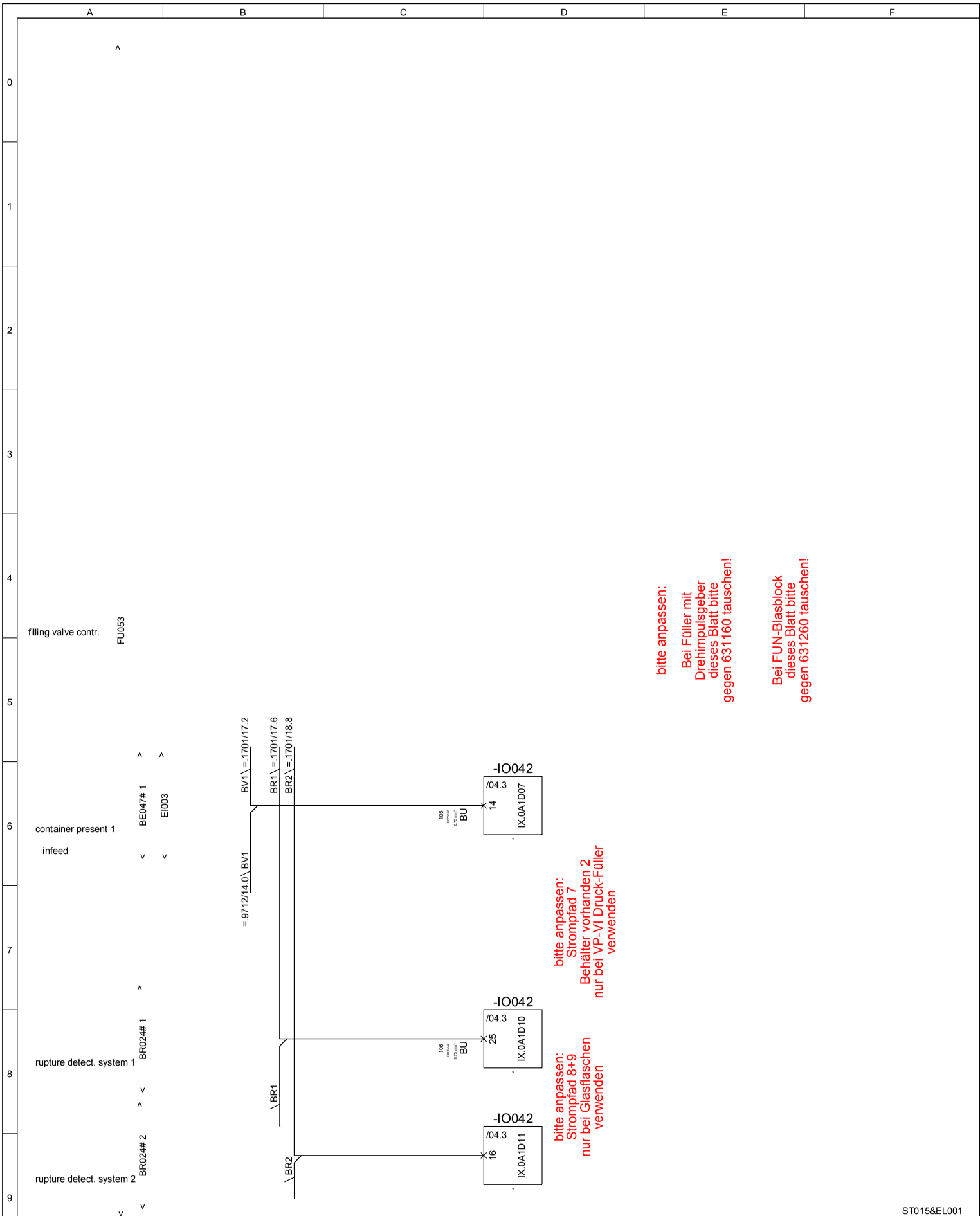
ST015&EL001
control unit electronic components

date	18.04.2013	machine type filler	KRONES	bus Controller	equi. K123989	+SK1	=FU1.6301
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 23 267/348
		version/ 02		SFT_FUG0_201301 63/01011			

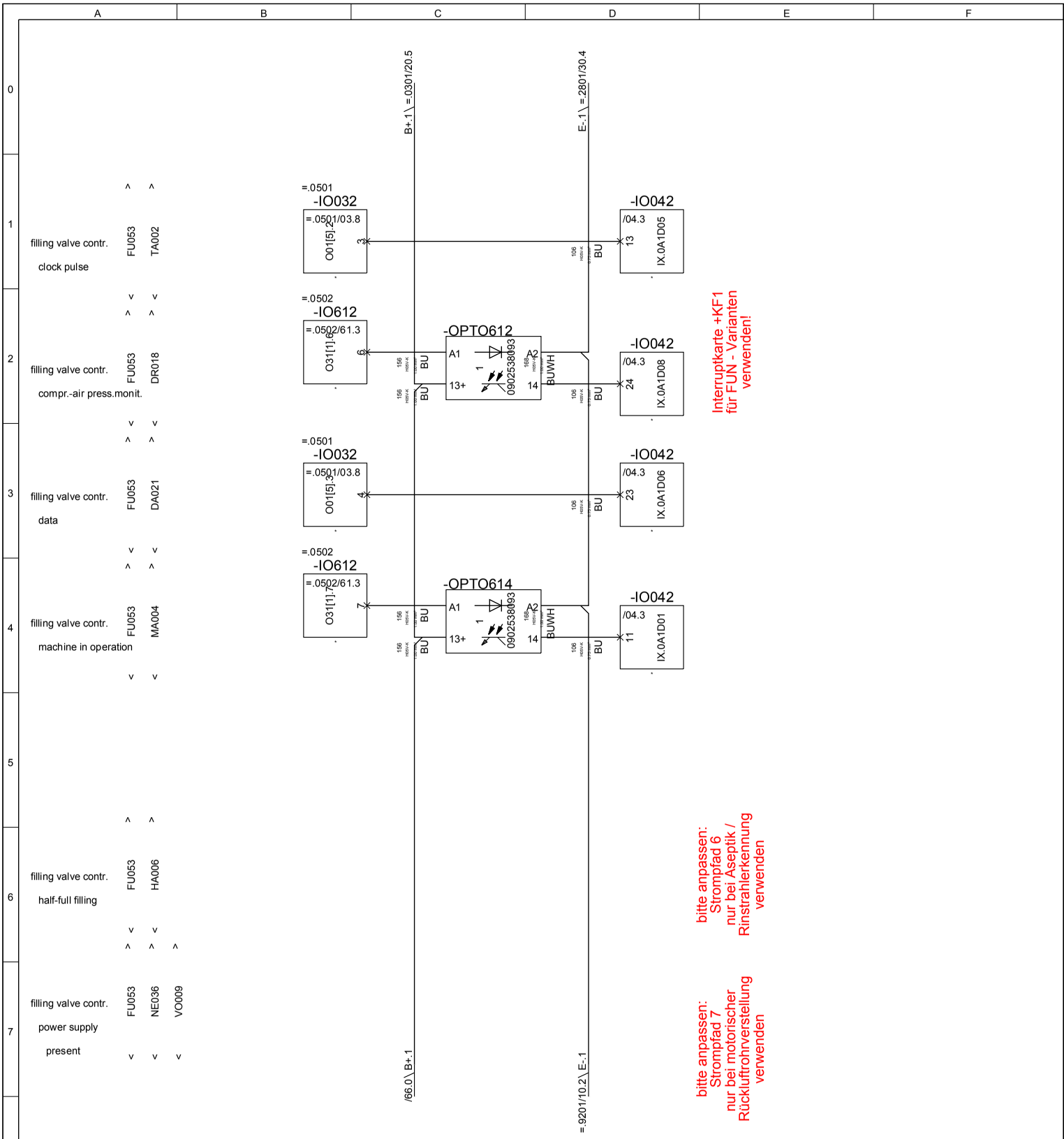


ST015&EL001
control unit electronic components

date	22.04.2013	machine type	filler	slip ring	equi. K123989	+FKA1	=FU1.6301
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 40 268/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 63/01011			



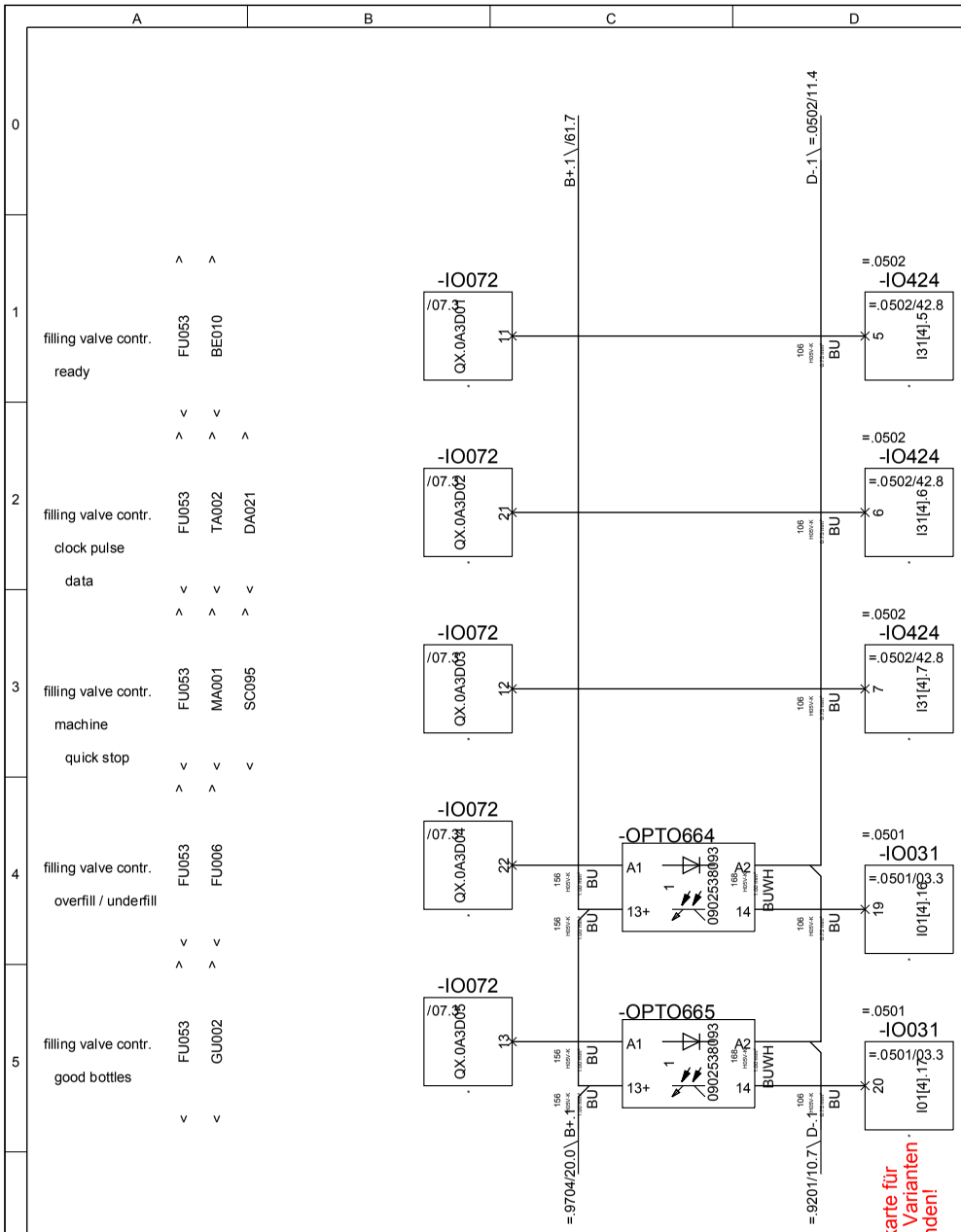
date	22.04.2013	machine type	filler	digital inputs	equi. K123989	+SK1	=FU1.6301
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 60 269/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 63/01011			



ST015&EL001
control unit electronic components

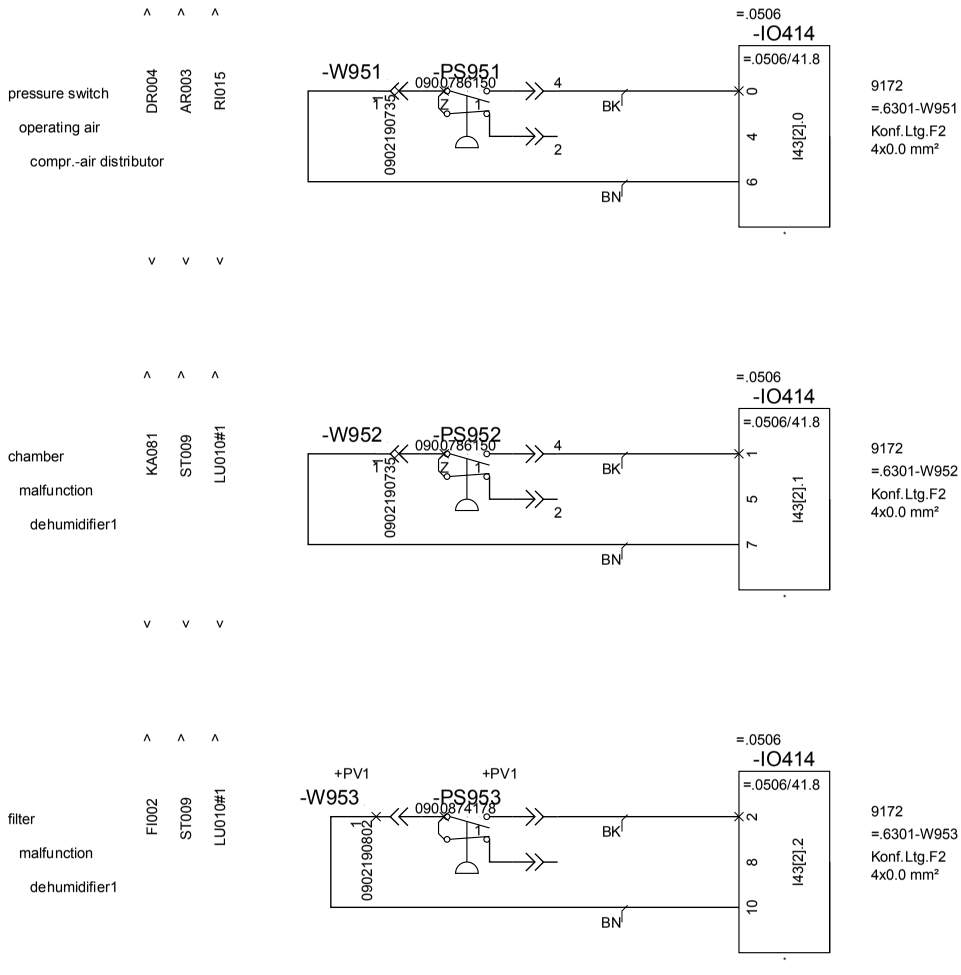
date	22.04.2013	machine type	filler	digital inputs	equi. K123989	+SK1	=FU1.6301
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 61 270/348
				Lagunitas Brewing Company			
		version/	02	SFT_FUG0_201301 63/01011			

KRONES



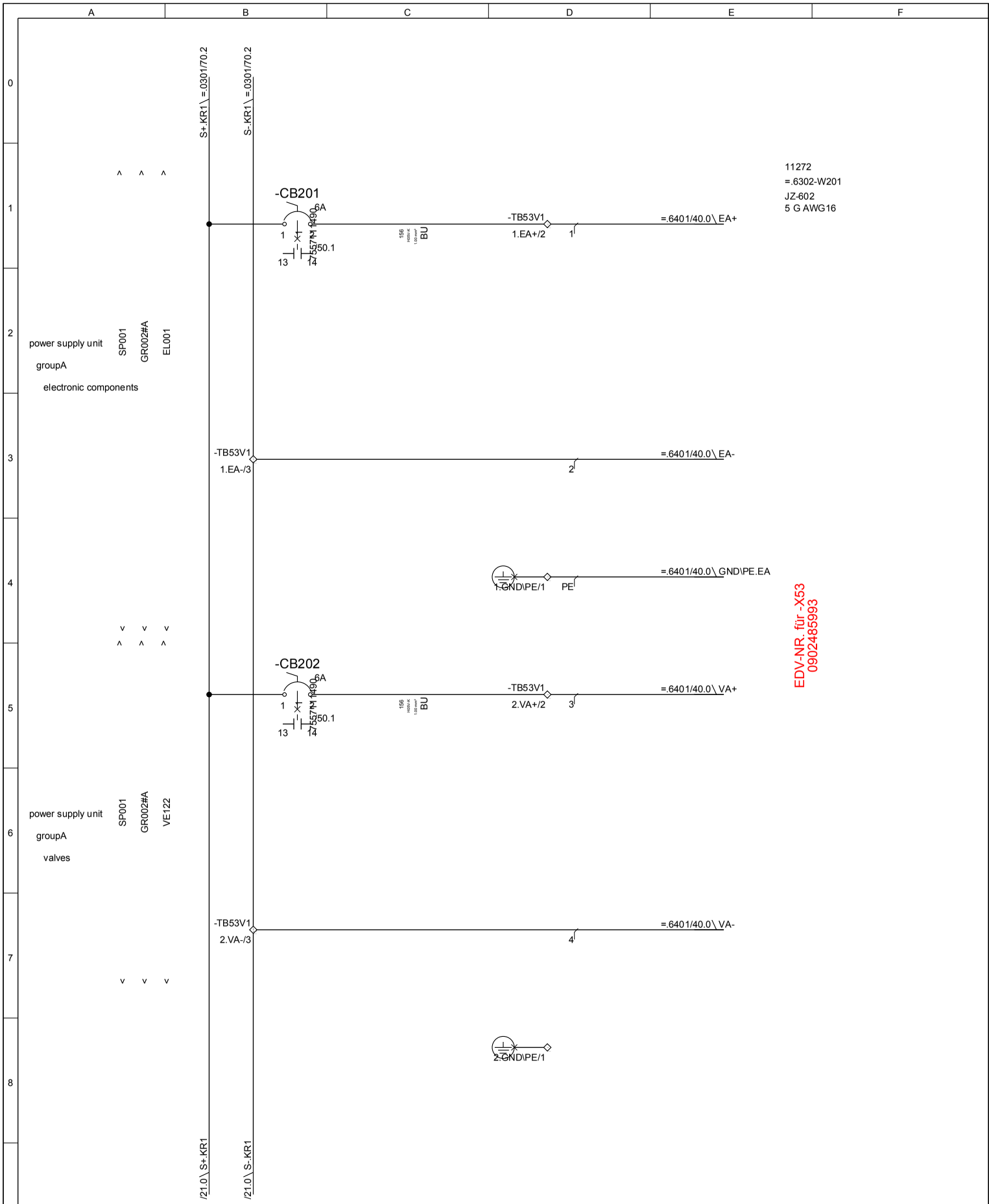
ST015&EL001
control unit electronic components

date	22.04.2013	machine type filler	KRONES	digital outputs	equi. K123989	+SK1	=FU1.6301
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 66 271/348
		version/ 02		SFT_FUG0_201301 63/01011			

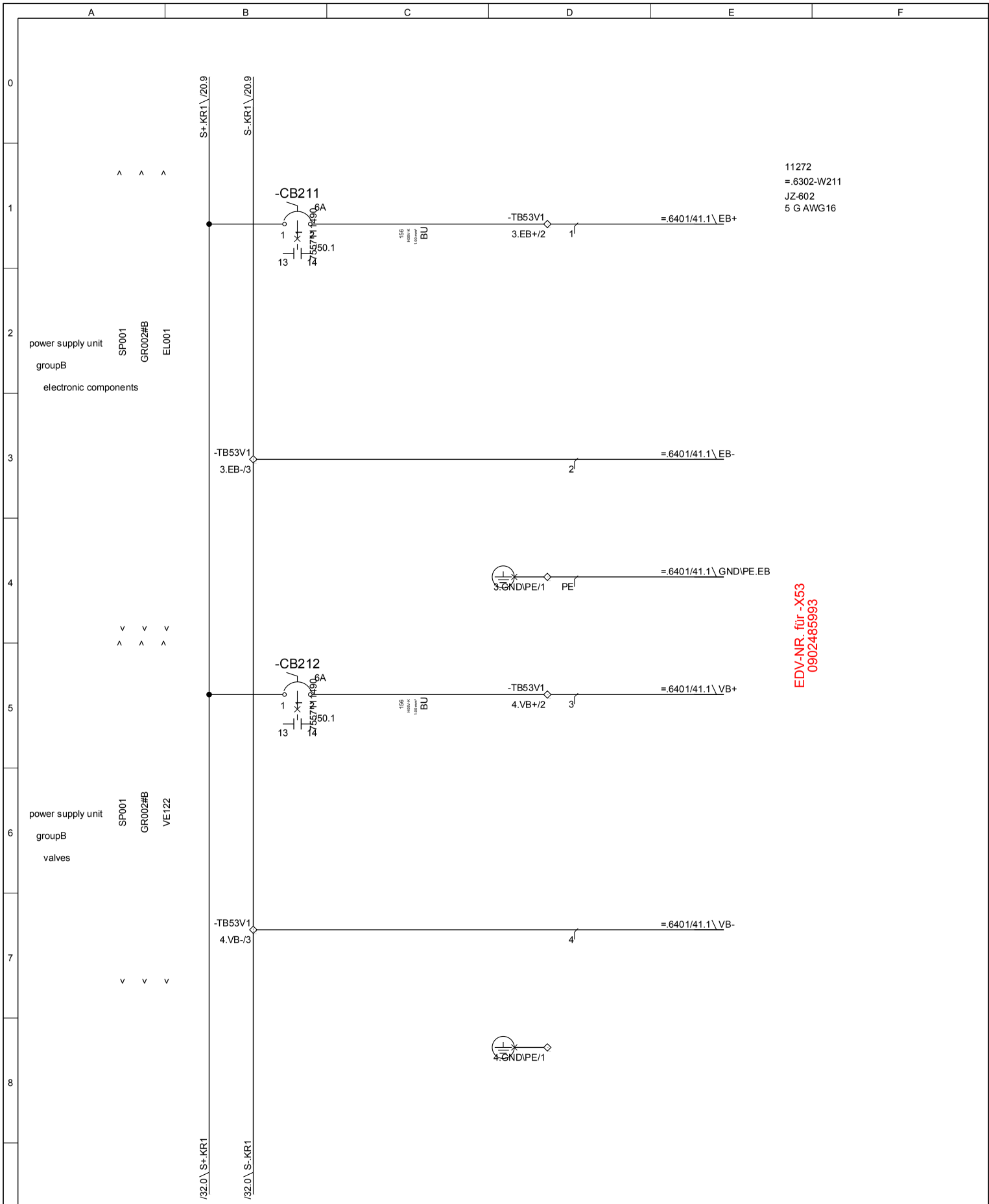


ST015&EL001
control unit electronic components

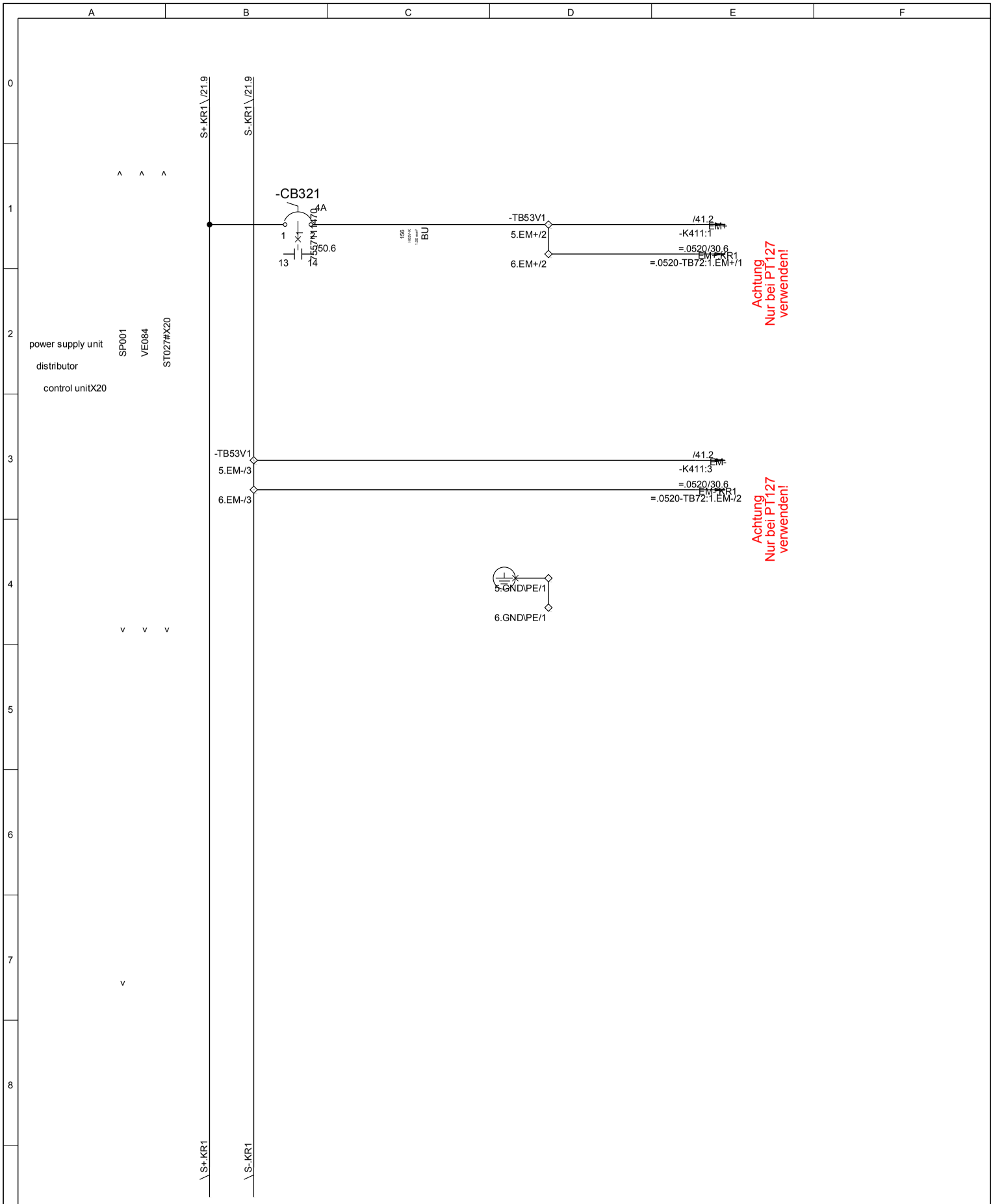
date	18.04.2013	machine type filler	KRONES	control elements	equi. K123989	+KPV1	=FU1.6301
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 95 272/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 63/01011			



date	23.04.2013	machine type filler	KRONES	control voltage MUX	equi. K123989	+KR1	=FU1.6302
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 20 273/348
		version/ 02		SFT_FUG0_201301 63/01021			



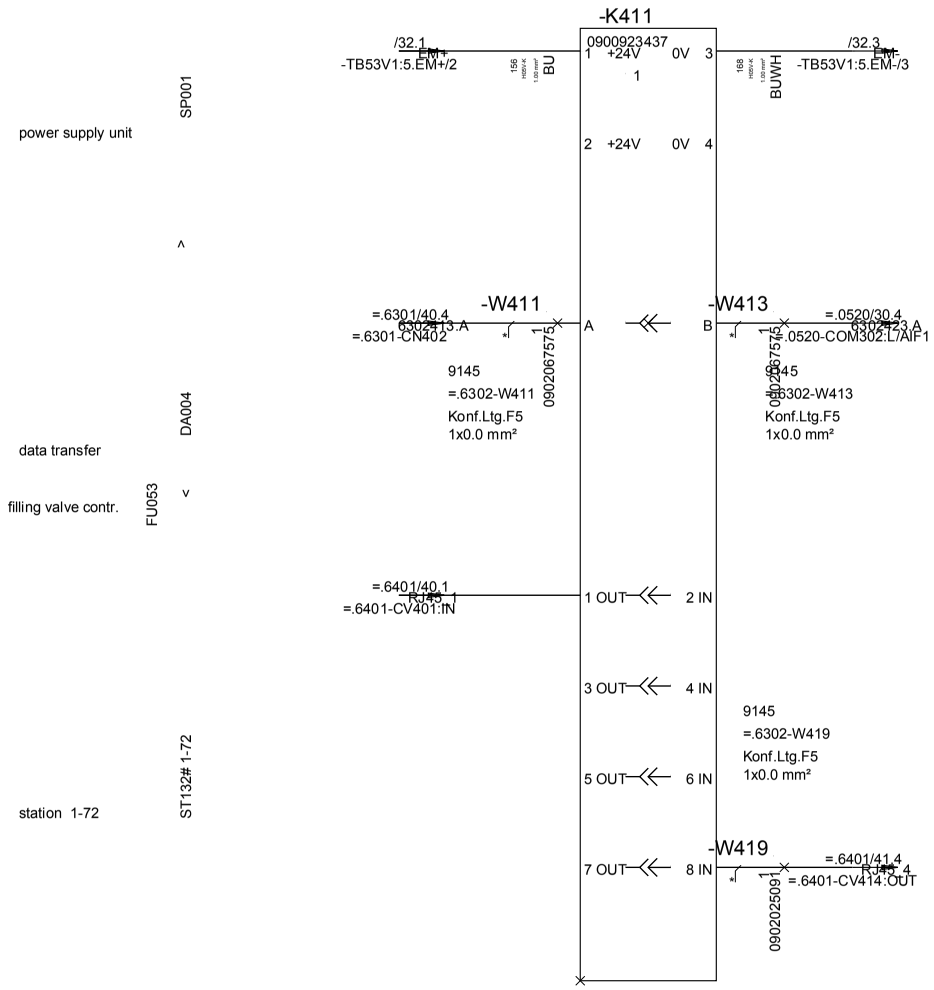
date	23.04.2013	machine type filler	KRONES	control voltage MUX	equi. K123989	+KR1	=FU1.6302
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 21 274/348
		version/ 02		SFT_FUG0_201301 63/01021			



ST015&EL001
control unit electronic components

date	22.04.2013	machine type	filler	control voltage MUX	equi. K123989	+KR1	=FU1.6302
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 32 275/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 63/01021			

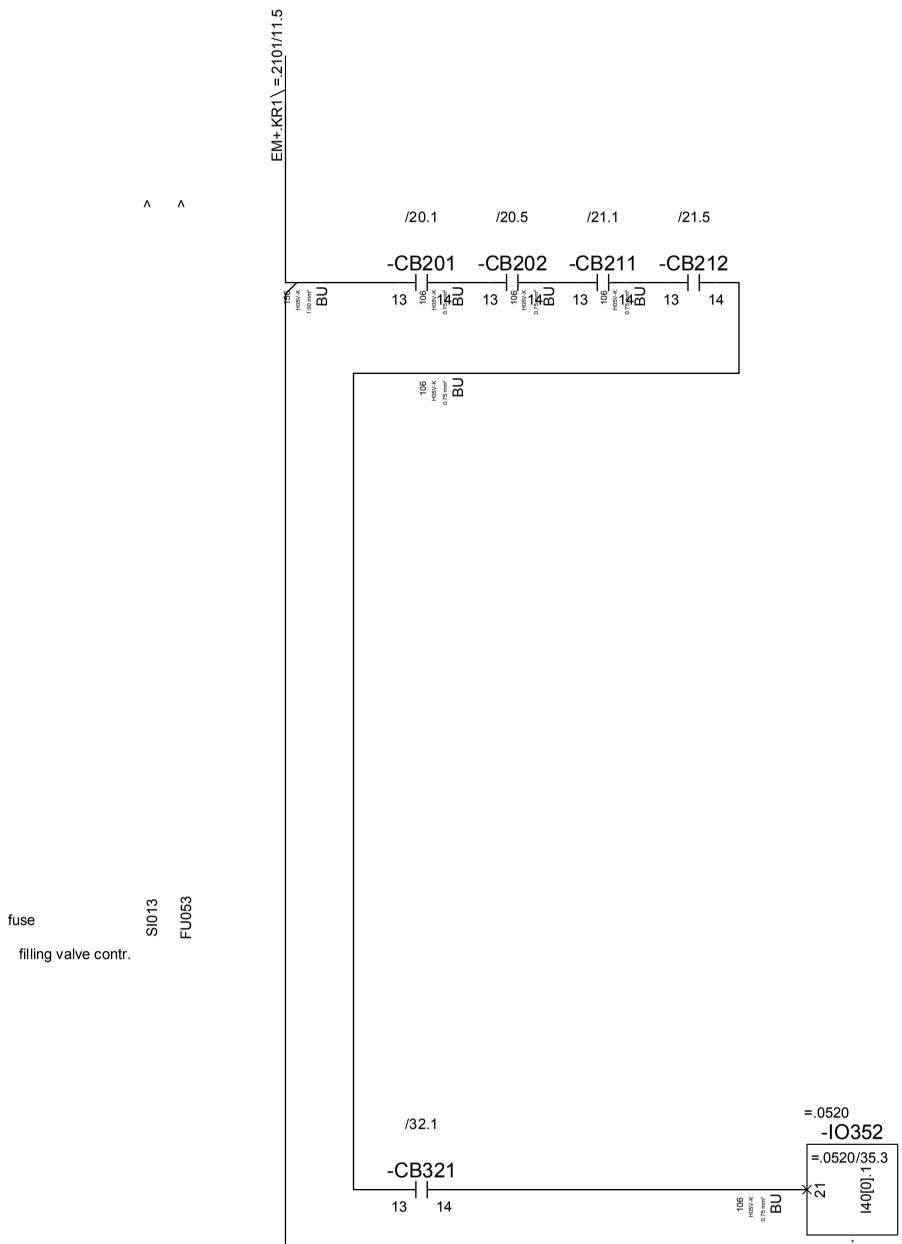
KRONES



EDV-Nr. für -W419
bei rundem E-Turm:0901833579 (5m)
bei allen anderen 0902025091 (2m)

ST015&EL001
control unit electronic components

date	22.04.2013	machine type filler	KRONES	distributor	equi. K123989	+KR1	=FU1.6302
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 41 276/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 63/01021			



ST015&EL001
control unit electronic components

date	23.04.2013	machine type	filler	control voltage MUX	equi. K123989	+KR1	=FU1.6302
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 50 277/348
				Lagunitas Brewing Company			
		version/	02	SFT_FUG0_201301 63/01021			

KRONES

SO011#01-06 probe01-06		
VE127 valve block	ST191 plugging slot	SO011 probe
K401	01	K601
	02	
	03	
	04	K602
	05	
	06	
	07	K603
	08	
	09	
	10	K604
	11	
	12	
	13	K605
	14	
	15	
	16	K606

SO011#12-16 probe12-16		
VE127 valve block	ST191 plugging slot	SO011 probe
K403	01	
	02	K612
	03	
	04	
	05	K613
	06	
	07	
	08	K614
	09	
	10	
	11	K615
	12	
	13	
	14	K616
	15	
	16	

SO011#23-27 probe23-27		
VE127 valve block	ST191 plugging slot	SO011 probe
K405	01	
	02	
	03	K623
	04	
	05	
	06	K624
	07	
	08	
	09	K625
	10	
	11	
	12	K626
	13	
	14	
	15	K627
	16	

SO011#33-38 probe33-38		
VE127 valve block	ST191 plugging slot	SO011 probe
K407	01	K633
	02	
	03	
	04	K634
	05	
	06	
	07	K635
	08	
	09	
	10	K636
	11	
	12	
	13	K637
	14	
	15	
	16	K638

SO011#07-11 probe07-11		
VE127 valve block	ST191 plugging slot	SO011 probe
K402	01	
	02	
	03	K607
	04	
	05	
	06	K608
	07	
	08	
	09	K609
	10	
	11	
	12	K610
	13	
	14	
	15	K611
	16	

SO011#17-22 probe17-22		
VE127 valve block	ST191 plugging slot	SO011 probe
K404	01	K617
	02	
	03	
	04	K618
	05	
	06	
	07	K619
	08	
	09	
	10	K620
	11	
	12	
	13	K621
	14	
	15	
	16	K622

SO011#28-32 probe28-32		
VE127 valve block	ST191 plugging slot	SO011 probe
K406	01	
	02	K628
	03	
	04	
	05	K629
	06	
	07	
	08	K630
	09	
	10	
	11	K631
	12	
	13	
	14	K632
	15	
	16	

SO011#39-43 probe39-43		
VE127 valve block	ST191 plugging slot	SO011 probe
K408	01	
	02	
	03	K639
	04	
	05	
	06	K640
	07	
	08	
	09	K641
	10	
	11	
	12	K642
	13	
	14	
	15	K643
	16	

date	18.04.2013	machine type	filler
eng.	Krupka		
CAD	Krupka	machine model	MODULFILL HRS
version/	02	plug-in slot assignm.	
client	Lagunitas Brewing Company	equi.	K123989
SFT_FUG0_201301 64/00233			K123989-001
		+KR1	LEG
		=FU1.6401	sheet 01 278/348

FU053&EL011
filling valve contr. electronic

SO011#76-80 probe76-80		
VE127 valve block	ST191 plugging slot	SO011 probe
K415	01	
	02	K676
	03	
	04	
	05	K677
	06	
	07	
	08	K678
	09	
	10	
	11	K679
	12	
	13	
	14	K680
	15	
	16	

SO011#65-70 probe65-70		
VE127 valve block	ST191 plugging slot	SO011 probe
K413	01	K665
	02	
	03	
	04	K666
	05	
	06	
	07	K667
	08	
	09	
	10	K668
	11	
	12	
	13	K669
	14	
	15	
	16	K670

SO011#55-59 probe55-59		
VE127 valve block	ST191 plugging slot	SO011 probe
K411	01	
	02	
	03	K655
	04	
	05	
	06	K656
	07	
	08	
	09	K657
	10	
	11	
	12	K658
	13	
	14	
	15	K659
	16	

SO011#44-48 probe44-48		
VE127 valve block	ST191 plugging slot	SO011 probe
K409	01	
	02	K644
	03	
	04	
	05	K645
	06	
	07	
	08	K646
	09	
	10	
	11	K647
	12	
	13	
	14	K648
	15	
	16	

SO011#81-86 probe81-86		
VE127 valve block	ST191 plugging slot	SO011 probe
K416	01	K681
	02	
	03	
	04	K682
	05	
	06	
	07	K683
	08	
	09	
	10	K684
	11	
	12	
	13	K685
	14	
	15	
	16	K686

SO011#71-75 probe71-75		
VE127 valve block	ST191 plugging slot	SO011 probe
K414	01	
	02	
	03	K671
	04	
	05	
	06	K672
	07	
	08	
	09	K673
	10	
	11	
	12	K674
	13	
	14	
	15	K675
	16	

SO011#60-64 probe60-64		
VE127 valve block	ST191 plugging slot	SO011 probe
K412	01	
	02	K660
	03	
	04	
	05	K661
	06	
	07	
	08	K662
	09	
	10	
	11	K663
	12	
	13	
	14	K664
	15	
	16	

SO011#49-54 probe49-54		
SO011 probe	ST191 plugging slot	VE127 valve block
K649	01	K410
	02	
	03	
K650	04	
	05	
	06	
K651	07	
	08	
	09	
K652	10	
	11	
	12	
K653	13	
	14	
	15	
K654	16	

date 18.04.2013
eng. Krupka
CAD Krupka
machine type filler
machine model MODULFILL HRS
version/ 02
KRONES
plug-in slot assignm.
client Lagunitas Brewing Company
SFT_FUG0_201301 64/00233
equi. K123989
K123989-001
+KR1 =FU1.6401
LEG
sheet 02
279/348
FU053&EL011
filling valve contr. electronic

date	18.04.2013	machine type	filler
eng.	Krupka		
CAD	Krupka	machine model	MODULFILL HRS
version/	02	plug-in slot assignm.	
client	Lagunitas Brewing Company		
SFT_FUG0_201301 64/00233		equi.	K123989
			K123989-001
		+KR1	
		LEG	
		=FU1.6401	
		sheet	03
			280/348

KRONES

FU053&EL011
filling valve contr. electronic

~~SO011#87-91~~
probe87-91

~~VE127~~ valve block	~~ST191~~ plugging slot	~~SO011~~ probe
K417	01	
	02	
	03	K687
	04	
	05	
	06	K688
	07	
	08	
	09	K689
	10	
	11	
	12	K690
	13	
	14	
	15	K691
	16	

~~SO011#97-102~~
probe97-102

~~VE127~~ valve block	~~ST191~~ plugging slot	~~SO011~~ probe
K419	01	K697
	02	
	03	
	04	K698
	05	
	06	
	07	K699
	08	
	09	
	10	K700
	11	
	12	
	13	K701
	14	
	15	
	16	K702

~~SO011#108-112~~
probe108-112

~~VE127~~ valve block	~~ST191~~ plugging slot	~~SO011~~ probe
K421	01	
	02	K708
	03	
	04	
	05	K709
	06	
	07	
	08	K710
	09	
	10	
	11	K711
	12	
	13	
	14	K712
	15	
	16	

~~SO011#119-123~~
probe119-123

~~VE127~~ valve block	~~ST191~~ plugging slot	~~SO011~~ probe
K423	01	
	02	
	03	K719
	04	
	05	
	06	K720
	07	
	08	
	09	K721
	10	
	11	
	12	K722
	13	
	14	
	15	K723
	16	

~~SO011#92-96~~
probe92-96

~~VE127~~ valve block	~~ST191~~ plugging slot	~~SO011~~ probe
K418	01	
	02	K692
	03	
	04	
	05	K693
	06	
	07	
	08	K694
	09	
	10	
	11	K695
	12	
	13	
	14	K696
	15	
	16	

~~SO011#103-107~~
probe103-107

~~VE127~~ valve block	~~ST191~~ plugging slot	~~SO011~~ probe
K420	01	
	02	
	03	K703
	04	
	05	
	06	K704
	07	
	08	
	09	K705
	10	
	11	
	12	K706
	13	
	14	
	15	K707
	16	

~~SO011#113-118~~
probe113-118

~~VE127~~ valve block	~~ST191~~ plugging slot	~~SO011~~ probe
K422	01	K713
	02	
	03	
	04	K714
	05	
	06	
	07	K715
	08	
	09	
	10	K716
	11	
	12	
	13	K717
	14	
	15	
	16	K718

~~SO011#124-128~~
probe124-128

~~VE127~~ valve block	~~ST191~~ plugging slot	~~SO011~~ probe
K424	01	
	02	K724
	03	
	04	
	05	K725
	06	
	07	
	08	K726
	09	
	10	
	11	K727
	12	
	13	
	14	K728
	15	
	16	

date	18.04.2013	machine type	filler
eng.	Krupka		
CAD	Krupka	machine model	MODULFILL HRS
version/	02	plug-in slot assignm.	
client	Lagunitas Brewing Company	equi.	K123989
SFT_FUG0_201301 64/00233			K123989-001
		+KR1	LEG
		=FU1.6401	sheet 04 281/348

FU053&EL011
filling valve contr. electronic

SO011#129-134
probe129-134

VE127 valve block	ST191 plugging slot	SO011 probe
K425	01	K729
	02	
	03	
	04	K730
	05	
	06	
	07	K731
	08	
	09	
	10	K732
	11	
	12	
	13	K733
	14	
	15	
	16	K734

SO011#140-144
probe140-144

VE127 valve block	ST191 plugging slot	SO011 probe
K427	01	
	02	K740
	03	
	04	
	05	K741
	06	
	07	
	08	K742
	09	
	10	
	11	K743
	12	
	13	
	14	K744
	15	
	16	

SO011#151-155
probe151-155

VE127 valve block	ST191 plugging slot	SO011 probe
K429	01	
	02	
	03	K751
	04	
	05	
	06	K752
	07	
	08	
	09	K753
	10	
	11	
	12	K754
	13	
	14	
	15	K755
	16	

SO011#161-166
probe161-166

VE127 valve block	ST191 plugging slot	SO011 probe
K431	01	K761
	02	
	03	
	04	K762
	05	
	06	
	07	K763
	08	
	09	
	10	K764
	11	
	12	
	13	K765
	14	
	15	
	16	K766

SO011#135-139
probe135-139

VE127 valve block	ST191 plugging slot	SO011 probe
K426	01	
	02	
	03	K735
	04	
	05	
	06	K736
	07	
	08	
	09	K737
	10	
	11	
	12	K738
	13	
	14	
	15	K739
	16	

SO011#145-150
probe145-150

VE127 valve block	ST191 plugging slot	SO011 probe
K428	01	K745
	02	
	03	
	04	K746
	05	
	06	
	07	K747
	08	
	09	
	10	K748
	11	
	12	
	13	K749
	14	
	15	
	16	K750

SO011#156-160
probe156-160

VE127 valve block	ST191 plugging slot	SO011 probe
K430	01	
	02	K756
	03	
	04	
	05	K757
	06	
	07	
	08	K758
	09	
	10	
	11	K759
	12	
	13	
	14	K760
	15	
	16	

SO011#167-171
probe167-171

VE127 valve block	ST191 plugging slot	SO011 probe
K432	01	
	02	
	03	K767
	04	
	05	
	06	K768
	07	
	08	
	09	K769
	10	
	11	
	12	K770
	13	
	14	
	15	K771
	16	

SO011#204-208
probe204-208

VE127 valve block	ST191 plugging slot	SO011 probe
K439	01	
	02	K804
	03	
	04	
	05	K805
	06	
	07	
	08	K806
	09	
	10	
	11	K807
	12	
	13	
	14	K808
	15	
	16	

SO011#193-198
probe193-198

VE127 valve block	ST191 plugging slot	SO011 probe
K437	01	K793
	02	
	03	
	04	K794
	05	
	06	
	07	K795
	08	
	09	
	10	K796
	11	
	12	
	13	K797
	14	
	15	
	16	K798

SO011#183-187
probe183-187

VE127 valve block	ST191 plugging slot	SO011 probe
K435	01	
	02	
	03	K783
	04	
	05	
	06	K784
	07	
	08	
	09	K785
	10	
	11	
	12	K786
	13	
	14	
	15	K787
	16	

SO011#172-176
probe172-176

VE127 valve block	ST191 plugging slot	SO011 probe
K433	01	
	02	K772
	03	
	04	
	05	K773
	06	
	07	
	08	K774
	09	
	10	
	11	K775
	12	
	13	
	14	K776
	15	
	16	

SO011#209-214
probe209-214

VE127 valve block	ST191 plugging slot	SO011 probe
K440	01	K809
	02	
	03	
	04	K810
	05	
	06	
	07	K811
	08	
	09	
	10	K812
	11	
	12	
	13	K813
	14	
	15	
	16	K814

SO011#199-203
probe199-203

VE127 valve block	ST191 plugging slot	SO011 probe
K438	01	
	02	
	03	K799
	04	
	05	
	06	K800
	07	
	08	
	09	K801
	10	
	11	
	12	K802
	13	
	14	
	15	K803
	16	

SO011#188-192
probe188-192

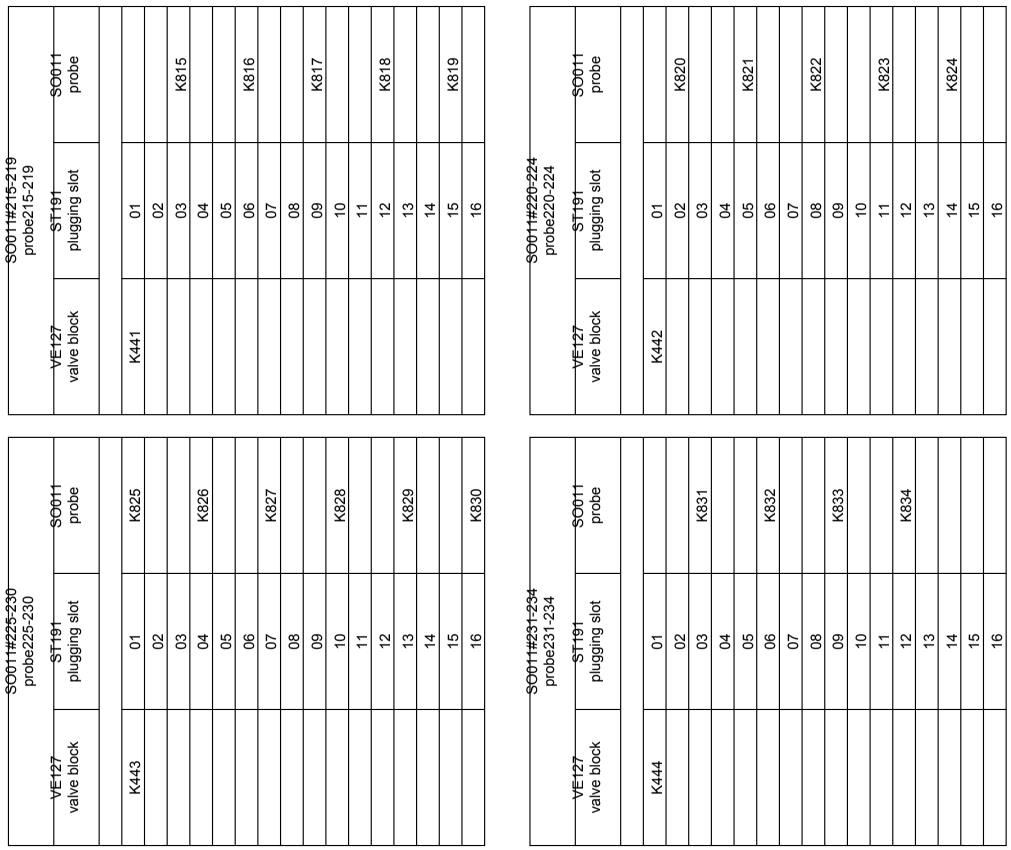
VE127 valve block	ST191 plugging slot	SO011 probe
K436	01	
	02	K788
	03	
	04	
	05	K789
	06	
	07	
	08	K790
	09	
	10	
	11	K791
	12	
	13	
	14	K792
	15	
	16	

SO011#177-182
probe177-182

VE127 valve block	ST191 plugging slot	SO011 probe
K434	01	K777
	02	
	03	
	04	K778
	05	
	06	
	07	K779
	08	
	09	
	10	K780
	11	
	12	
	13	K781
	14	
	15	
	16	K782

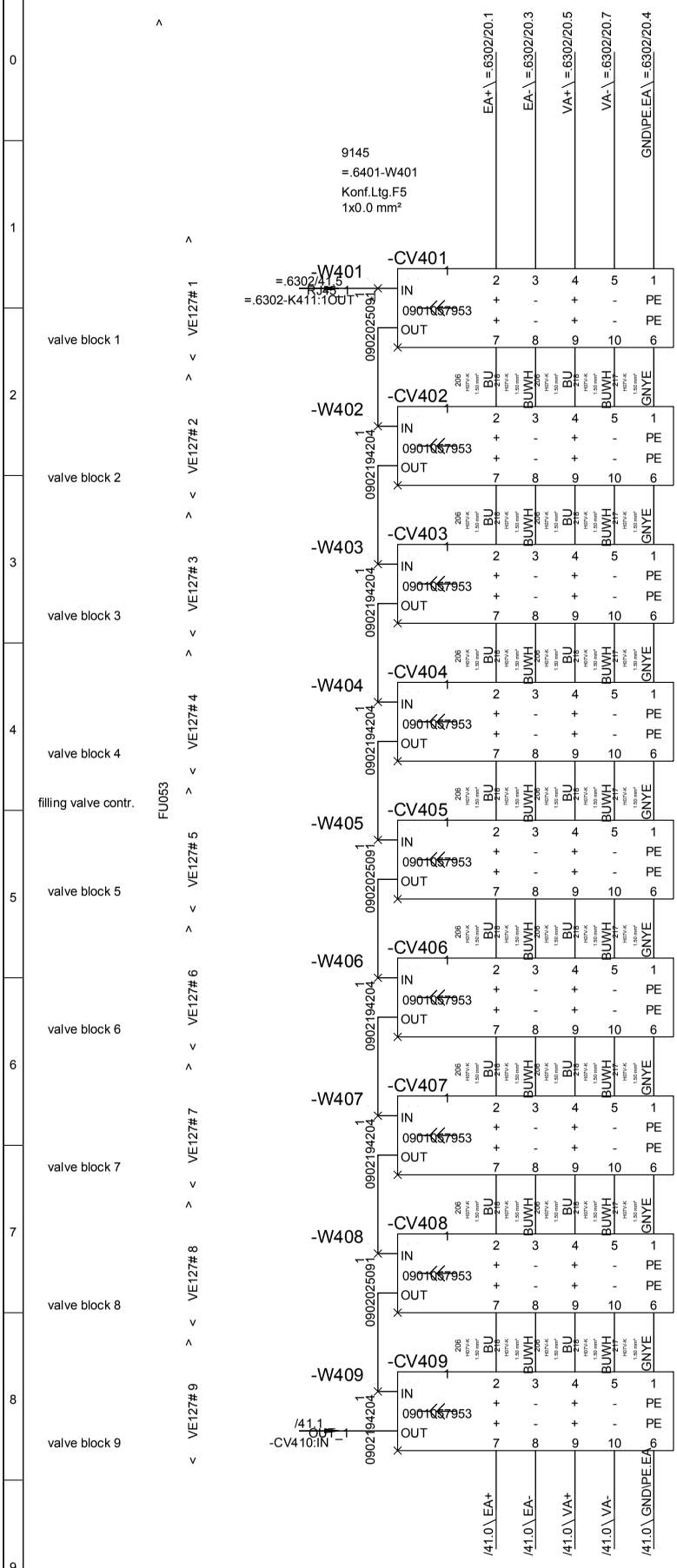
FU053&EL011
filling valve contr. electronic

date 18.04.2013
eng. Krupka
CAD Krupka
machine type filler
machine model MODULFILL HRS
version/ 02
KRONES
plug-in slot assignm.
client Lagunitas Brewing Company
SFT_FUG0_201301 64/00233
equi. K123989
K123989-001
+KR1
LEG
=FU1.6401
sheet 05
282/348



FU053&EL011
filling valve contr. electronic

date	18.04.2013	machine type filler	KRONES	plug-in slot assignm.	equi. K123989	+KR1	=FU1.6401
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	LEG	sheet 06 283/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 64/00233			

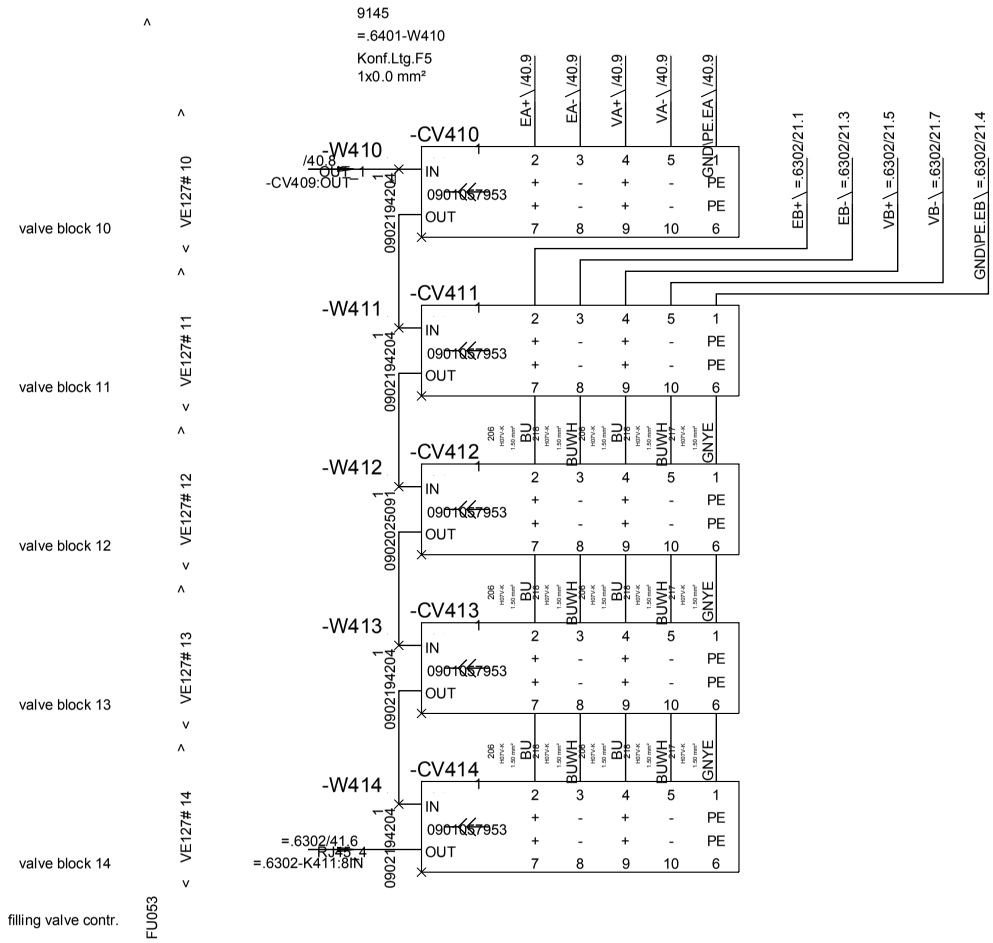


valve block 1 — VE127# 1
valve block 2 — VE127# 2
valve block 3 — VE127# 3
valve block 4 — VE127# 4
filling valve contr. — FU053
valve block 5 — VE127# 5
valve block 6 — VE127# 6
valve block 7 — VE127# 7
valve block 8 — VE127# 8
valve block 9 — VE127# 9

FU053&EL011
filling valve contr. electronic

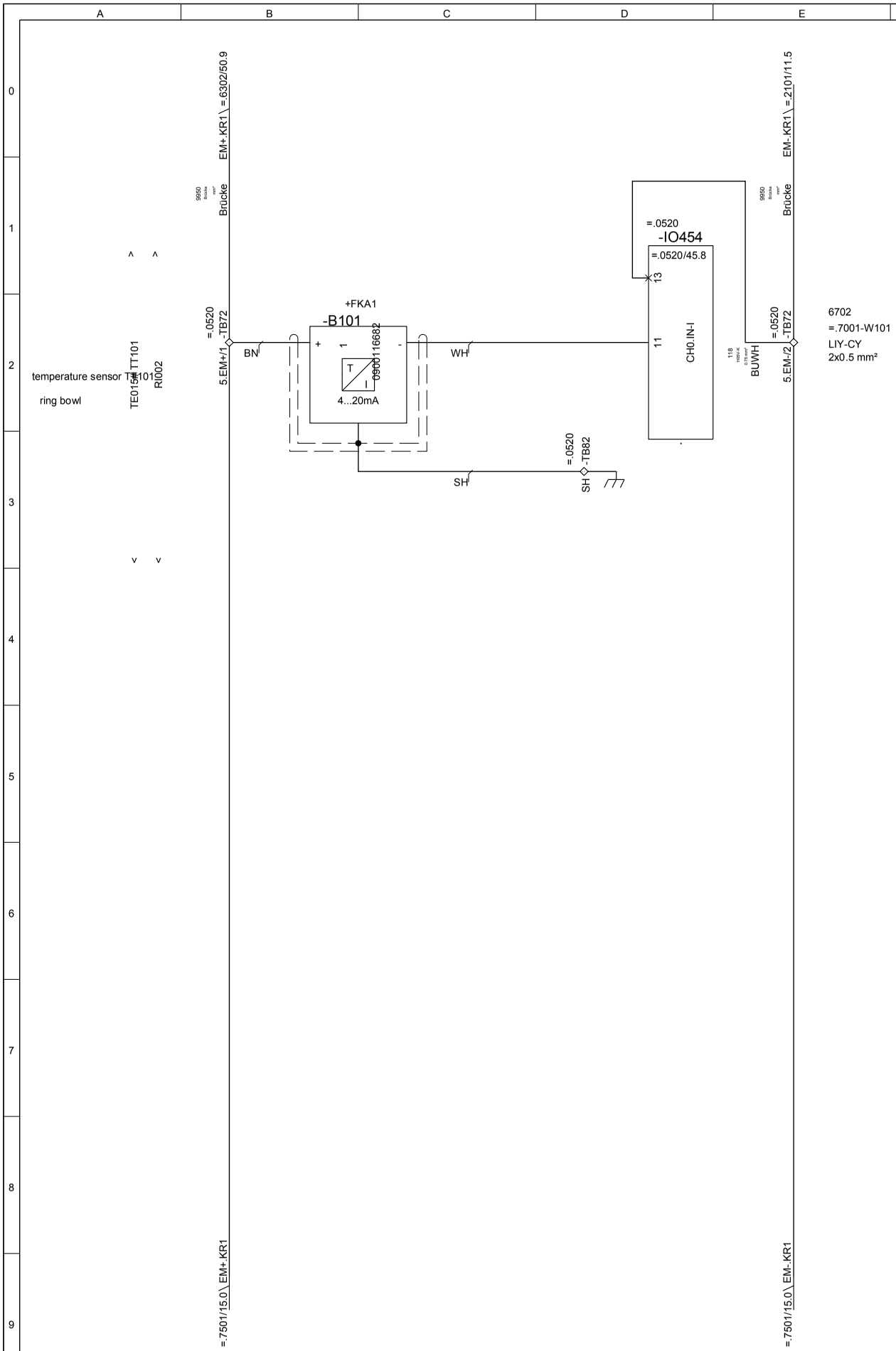
date	18.04.2013	machine type	filler	valve block	equi. K123989	+KR1	=FU1.6401
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 40 284/348
				Lagunitas Brewing Company			
		version/	02	SFT_FUG0_201301 64/00009			

KRONES

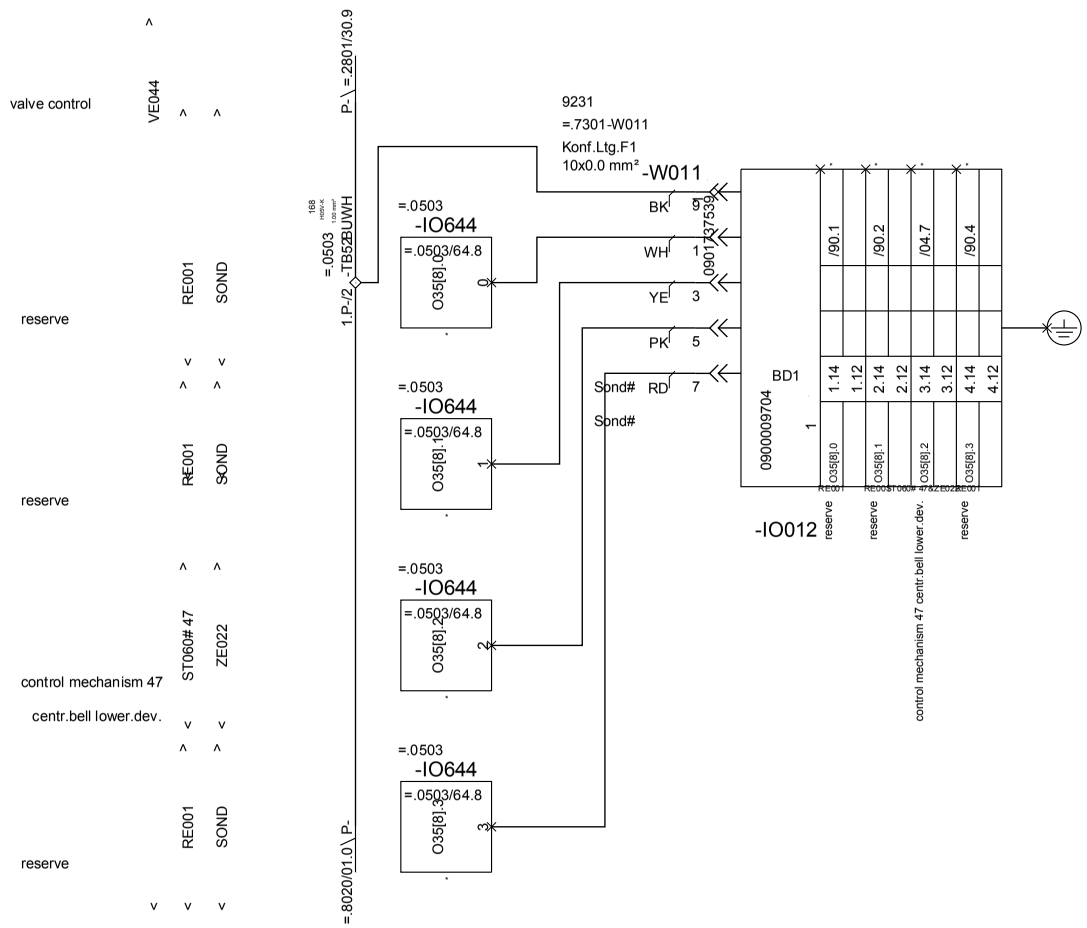


FU053&EL011
filling valve contr. electronic

date	23.04.2013	machine type filler	KRONES	valve block	equi. K123989	+KR1	=FU1.6401
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 41 285/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 64/00014			



date	18.04.2013	machine type filler	KRONES	temperature sensor TT101	equi. K123989	+KR1	=FU1.7001
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 10 286/348
		version/ 02		SFT_FUG0_201301 70/01011			



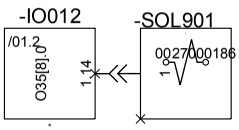
SB001
control mechanisms

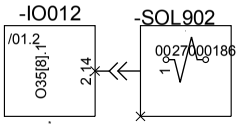
date	22.04.2013	machine type	filler	valve block	equi. K123989	+SK1	=FU1.7301
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 01 287/348
				Lagunitas Brewing Company			
		version/	02	SFT_FUG0_201301 73/01022			

KRONES

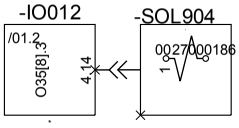
SB001
control mechanisms

date	18.04.2013	machine type	filler	control mechanism 47	equi. K123989	+SK1	=FU1.7301
eng.	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 04 288/348
CAD	Krupka	version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 73/01022			



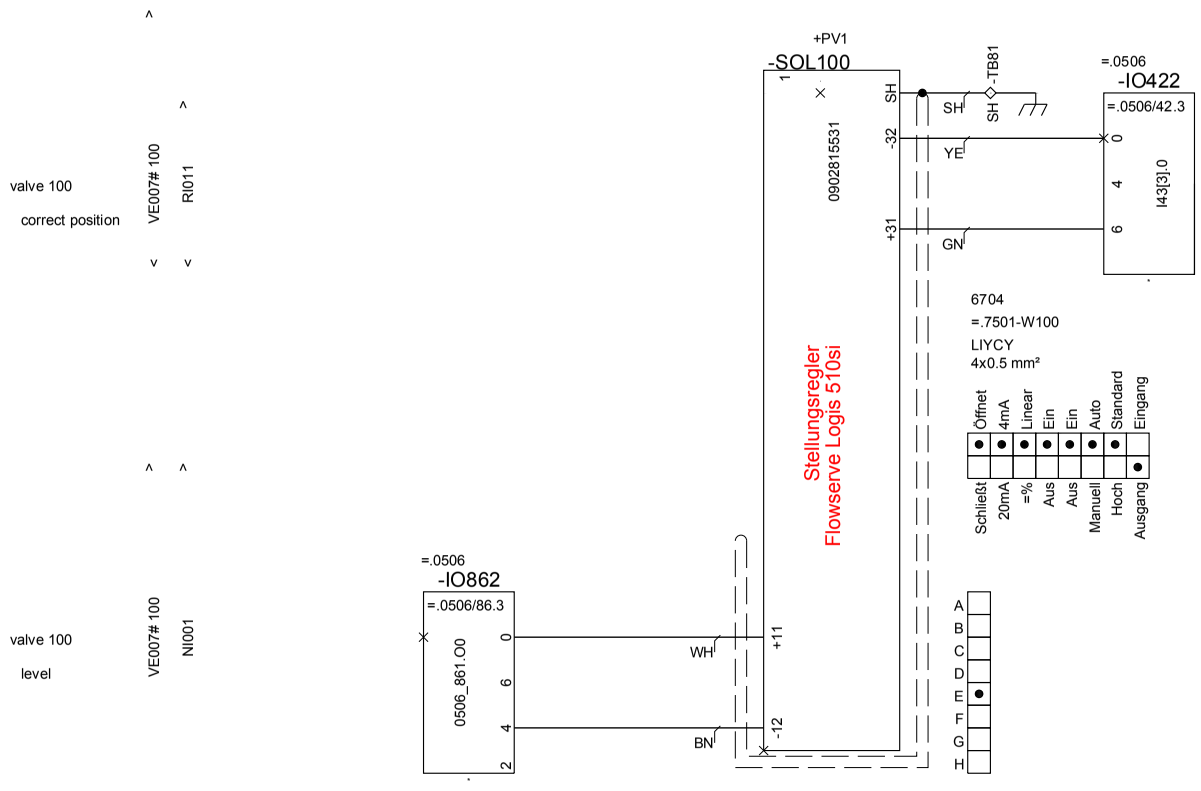


reserve RE001

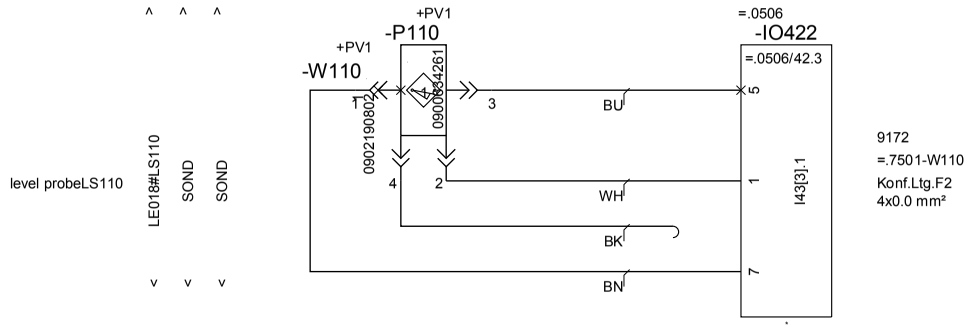


SB001
control mechanisms

date	22.04.2013	machine type filler	KRONES	reserve	equi. K123989	+SK1	=FU1.7301
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 90 289/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 73/01022			

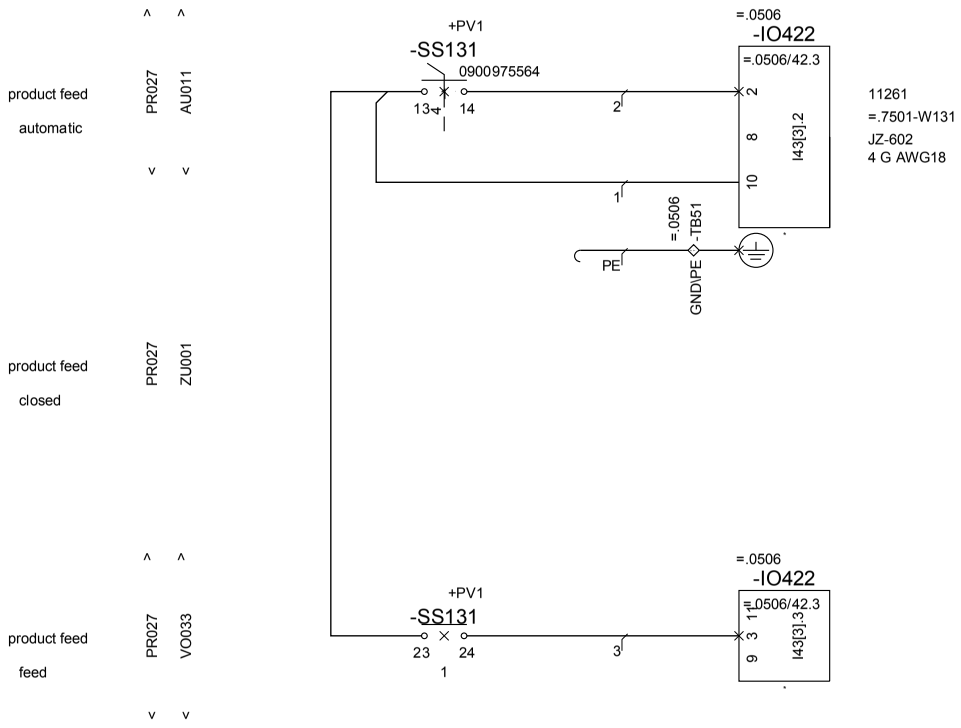


date	22.04.2013	machine type filler		valve 100	equi. K123989	+KPV1	=FU1.7501
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS	KRONES	client Lagunitas Brewing Company	K123989-001	STR	sheet 10 290/348
		version/ 02		SFT_FUG0_201301 75/01135			



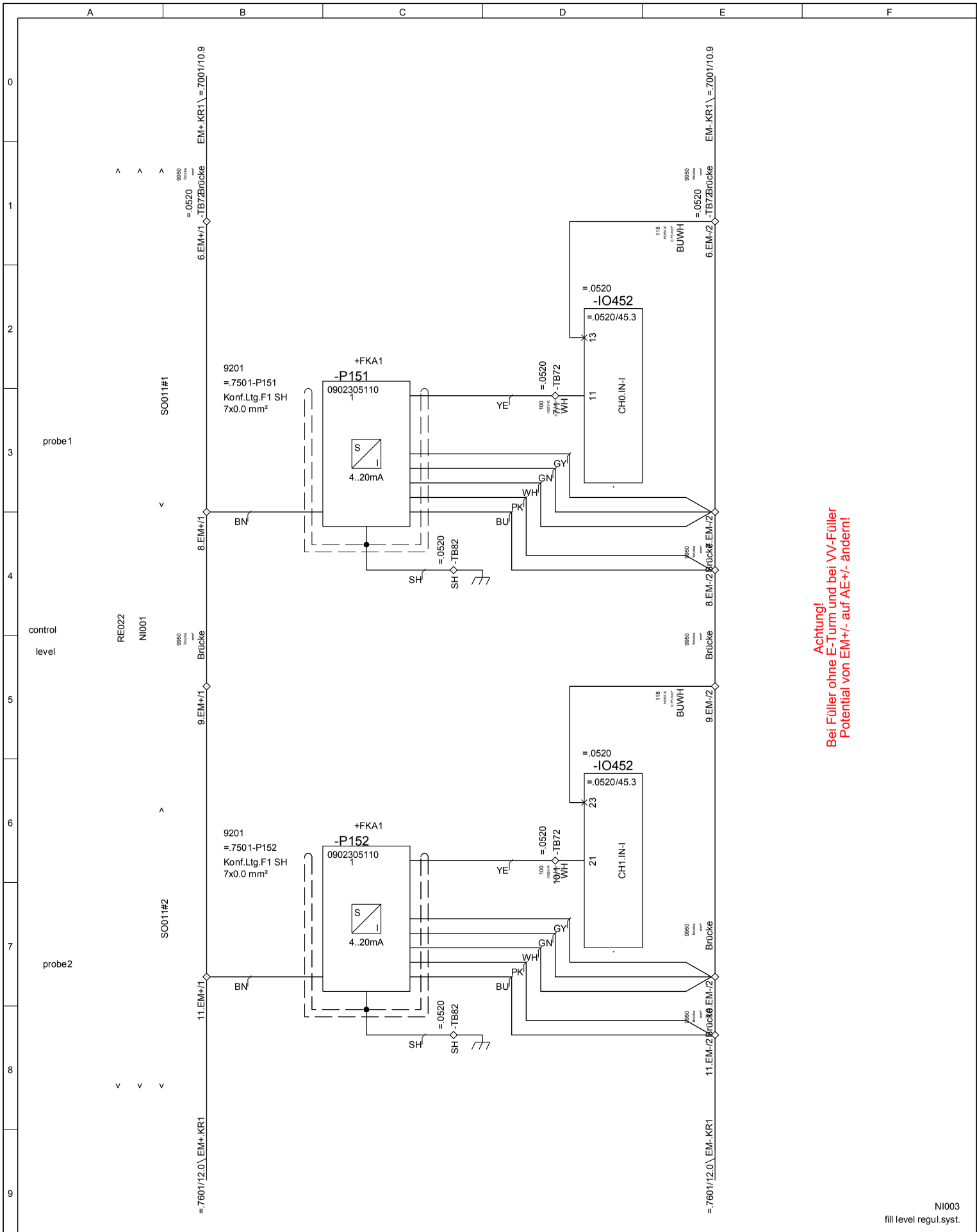
NI003
fill level regul.syst.

date	18.04.2013	machine type filler	KRONES	level probeLS110	equi. K123989	+KPV1	=FU1.7501
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 11 291/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 75/01135			



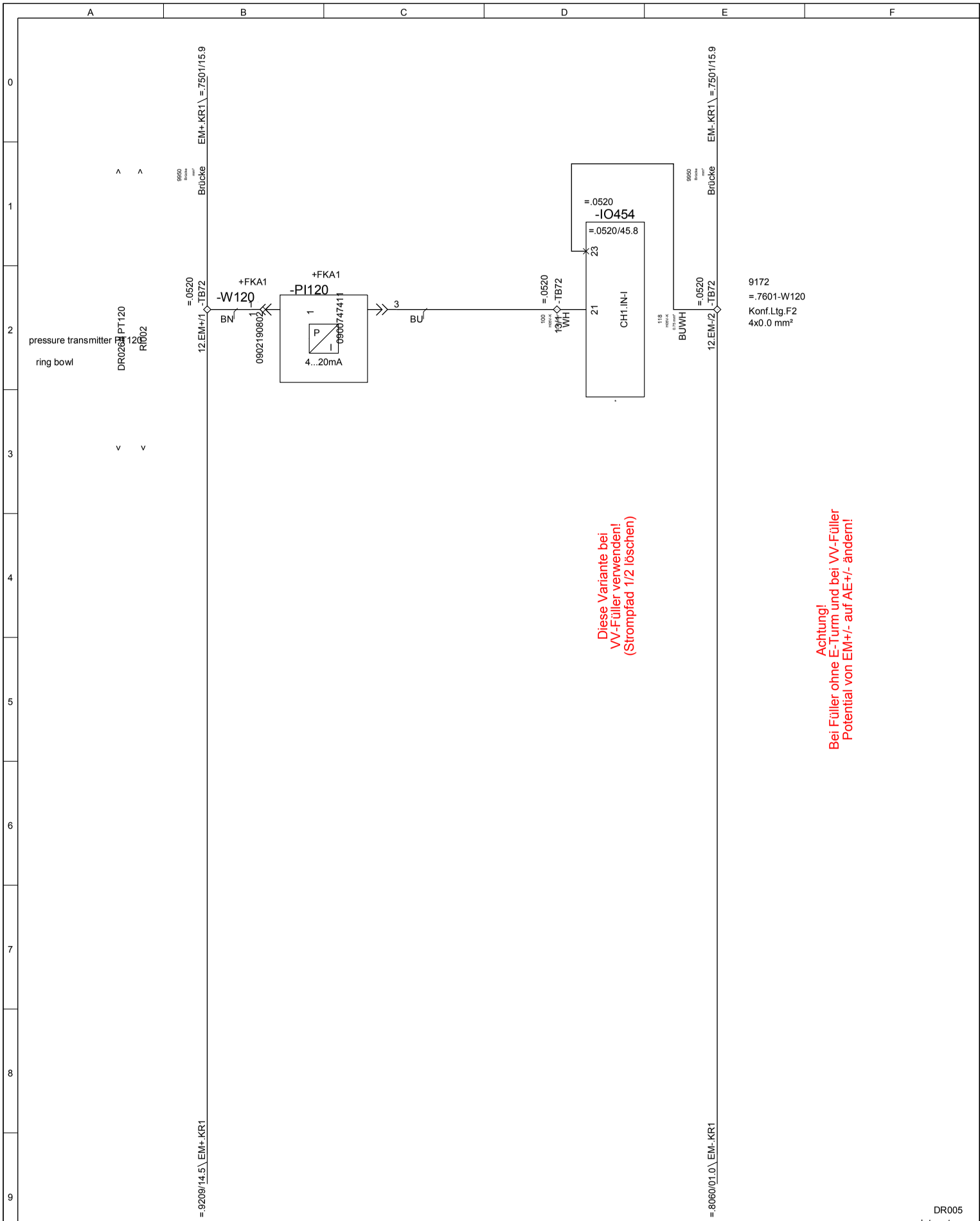
NI003
fill level regul.syst.

date	18.04.2013	machine type filler	KRONES	control elements	equi. K123989	+KPV1	=FU1.7501
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 13 292/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 75/01135			

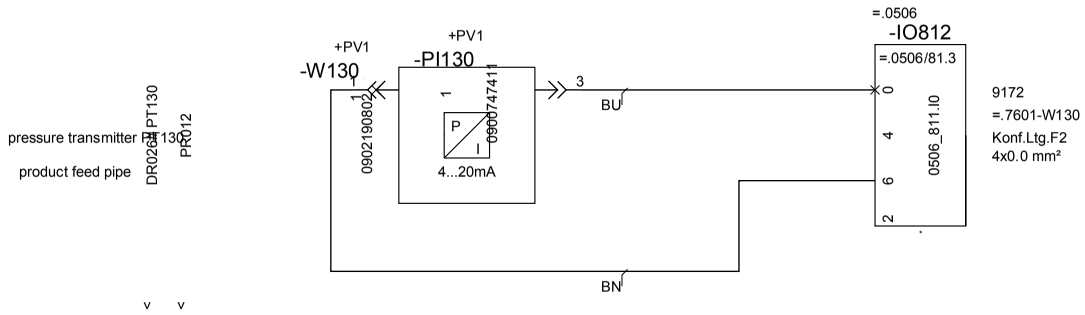


date	18.04.2013	machine type	filler	control	equi. K123989	+KR1	=FU1.7501
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 15 293/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 75/01135			

KRONES

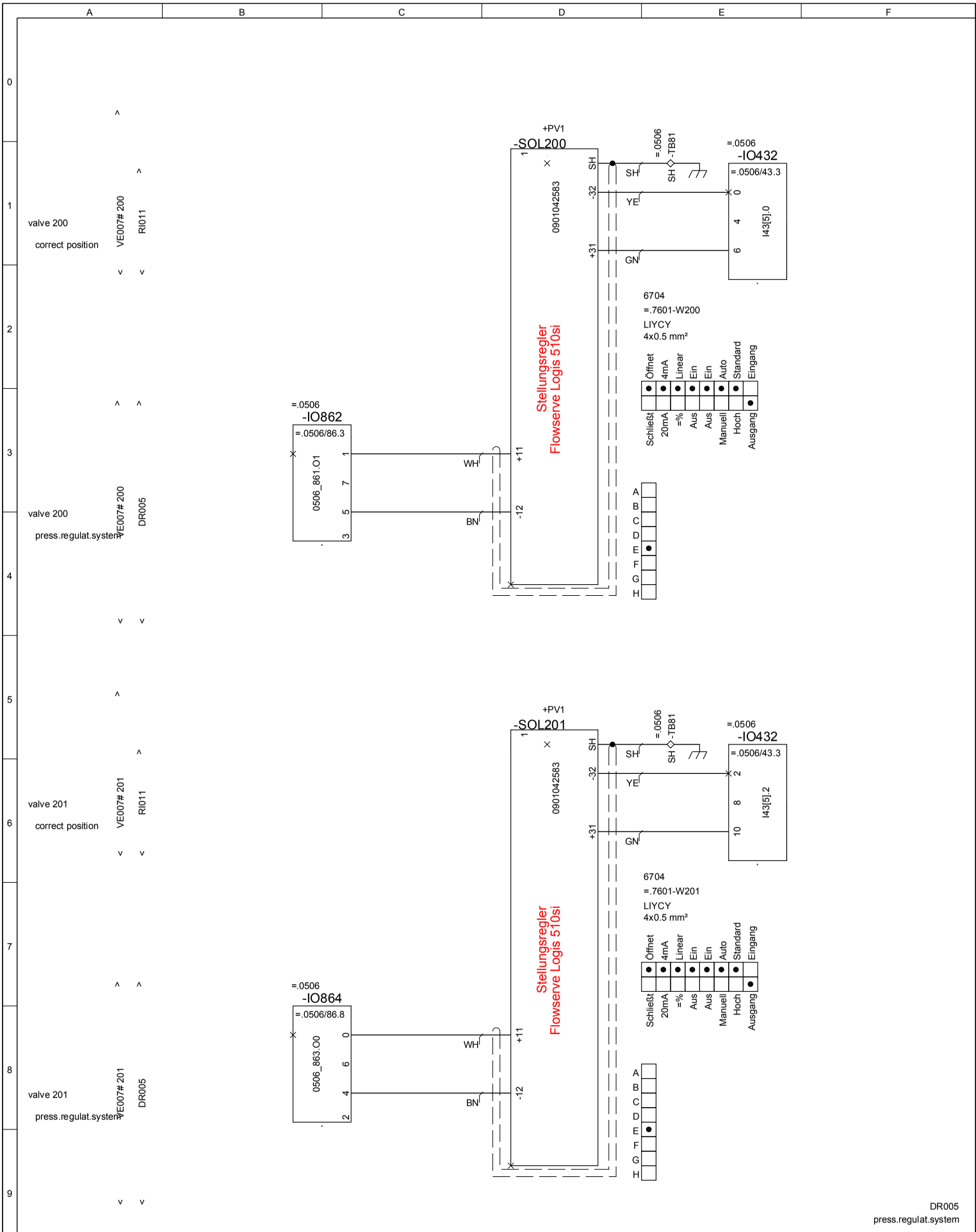


date	22.04.2013	machine type filler	KRONES	pressure transmitter PT120	equi. K123989	+KR1	=FU1.7601
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 12 294/348
		version/ 02		SFT_FUG0_201301 76/01132			

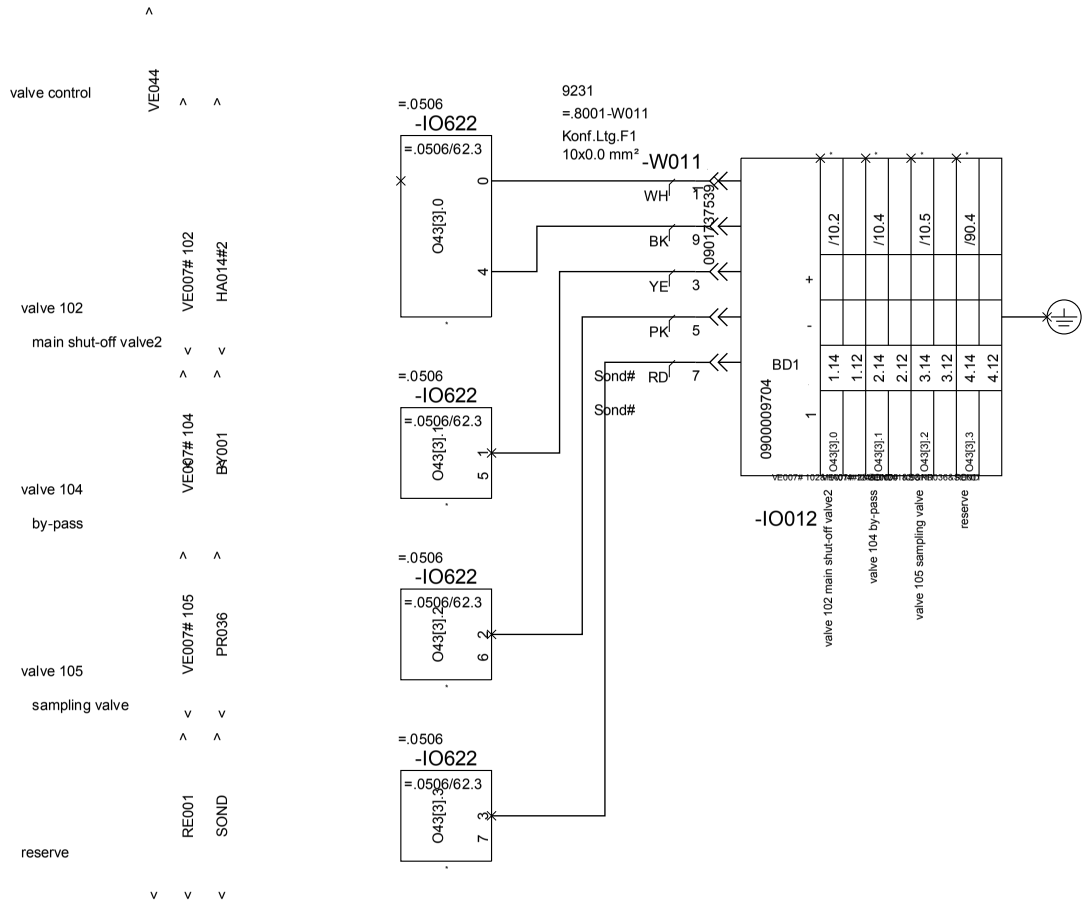


DR005
press.regulat.system

date	18.04.2013	machine type filler	KRONES	pressure transmitter PT130	equi. K123989	+KPV1	=FU1.7601
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 13 295/348
		version/ 02		SFT_FUG0_201301 76/01132			



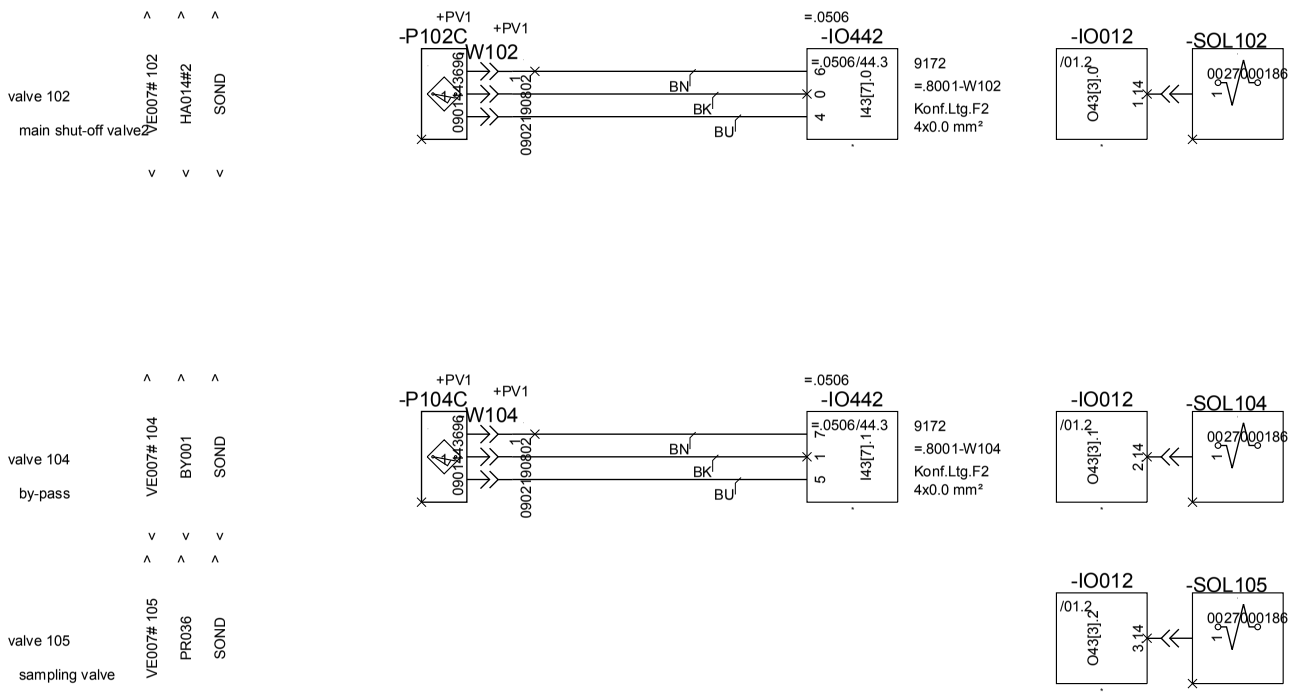
date	22.04.2013	machine type filler	KRONES	valve 200,201	equi. K123989	+KPV1	=FU1.7601
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 20 296/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 76/01132			



VE044
valve control

date	18.04.2013	machine type	filler	valve block	equi. K123989	+KPV1	=FU1.8001
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 01 297/348
				Lagunitas Brewing Company			
		version/	02	SFT_FUG0_201301 80/01001			

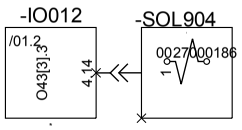
KRONES



VE044
valve control

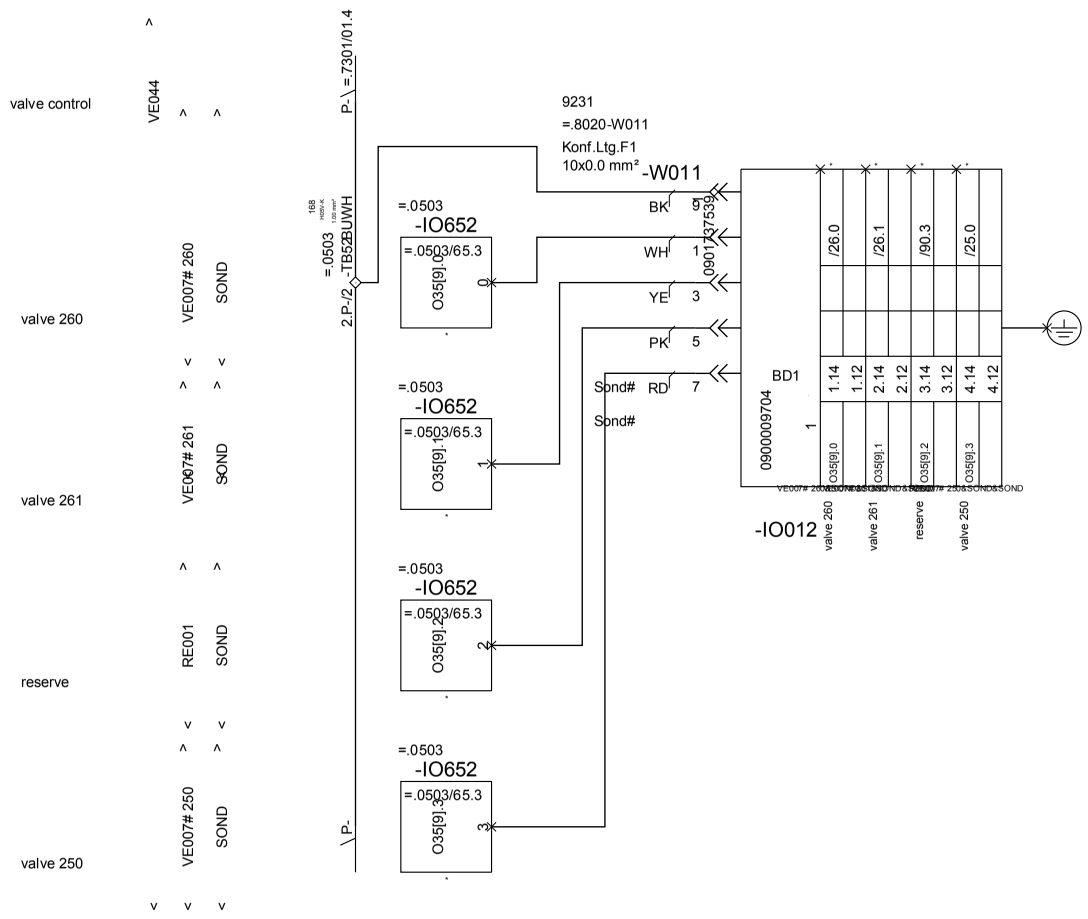
date	18.04.2013	machine type filler	KRONES	valve 102-105	equi. K123989	+KPV1	=FU1.8001
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 10 298/348
		version/ 02		SFT_FUG0_201301 80/01001			

reserve RE001



VE044
valve control

date	22.04.2013	machine type filler	KRONES	reserve	equi. K123989	+KPV1	=FU1.8001
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 90 299/348
		version/ 02		SFT_FUG0_201301 80/01001			



VE044
valve control

date	22.04.2013	machine type filler	KRONES	valve block	equi. K123989	+SK1	=FU1.8020
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 01 300/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 80/01021			

valve 250

VE007# 250

SOND

SOND

-IO012

/01.2

O35[9].3

4.14

-SOL250

00270.00186

1

3

VE044
valve control

date	18.04.2013	machine type filler		valve 250	equi. K123989	+SK1	=FU1.8020
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS	KRONES	client Lagunitas Brewing Company	K123989-001	STR	sheet 25 301/348
		version/ 02		SFT_FUG0_201301 80/01021			

valve 260

VE007# 260

SOND

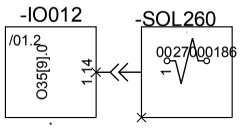
SOND

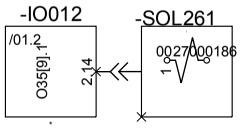
valve 261

VE007# 261

SOND

SOND



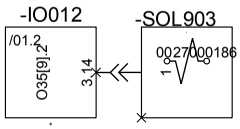


VE044
valve control

date	22.04.2013	machine type filler	KRONES	valve 260-261	equi. K123989	+SK1	=FU1.8020
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 26 302/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 80/01021			

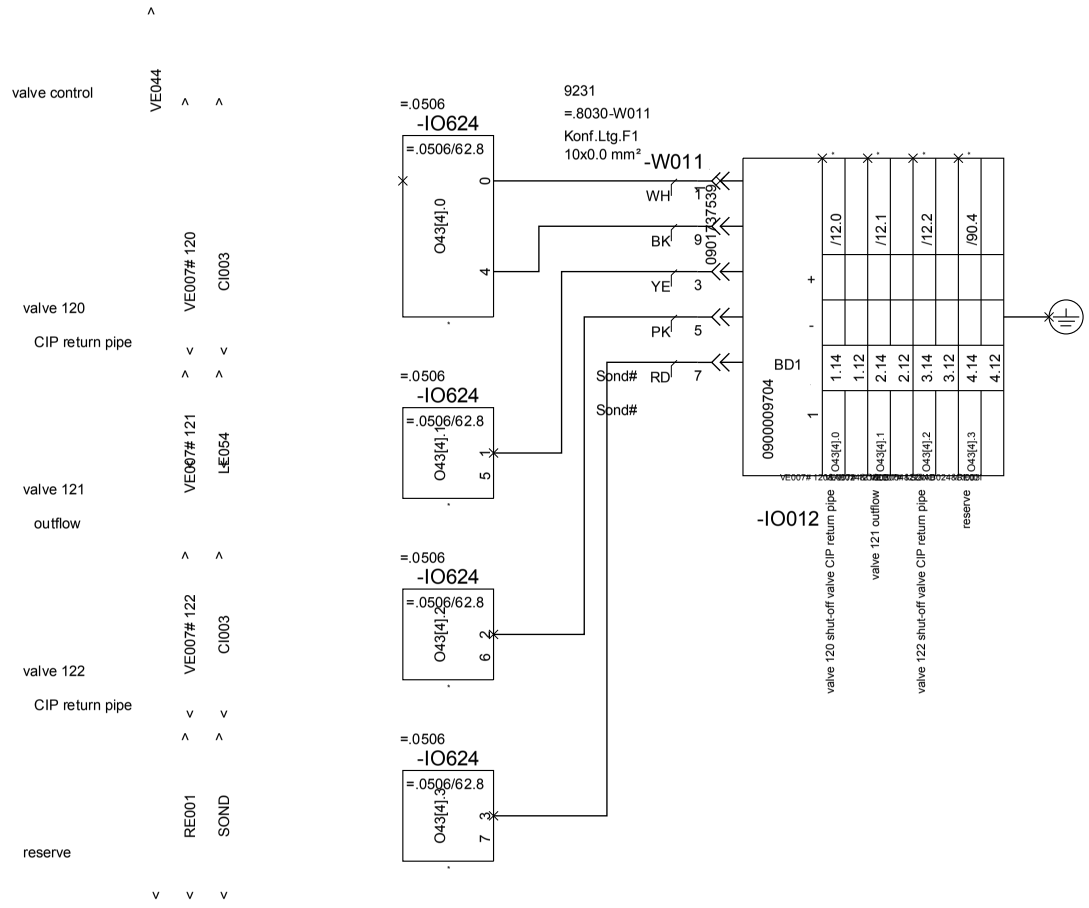
reserve

RE001



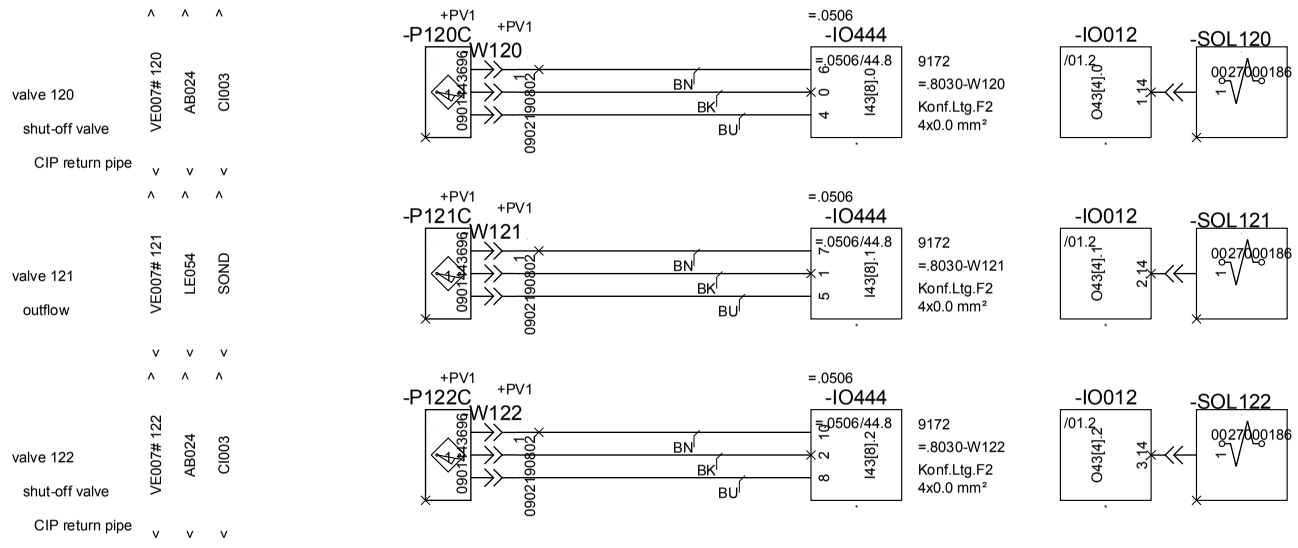
VE044
valve control

date	22.04.2013	machine type filler	KRONES	reserve	equi. K123989	+SK1	=FU1.8020
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 90 303/348
		version/ 02		SFT_FUG0_201301 80/01021			



VE044
valve control

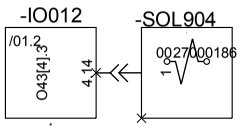
date	18.04.2013	machine type filler	KRONES	valve block	equi. K123989	+KPV1	=FU1.8030
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 01 304/348
		version/ 02		SFT_FUG0_201301 80/01030			



VE044
valve control

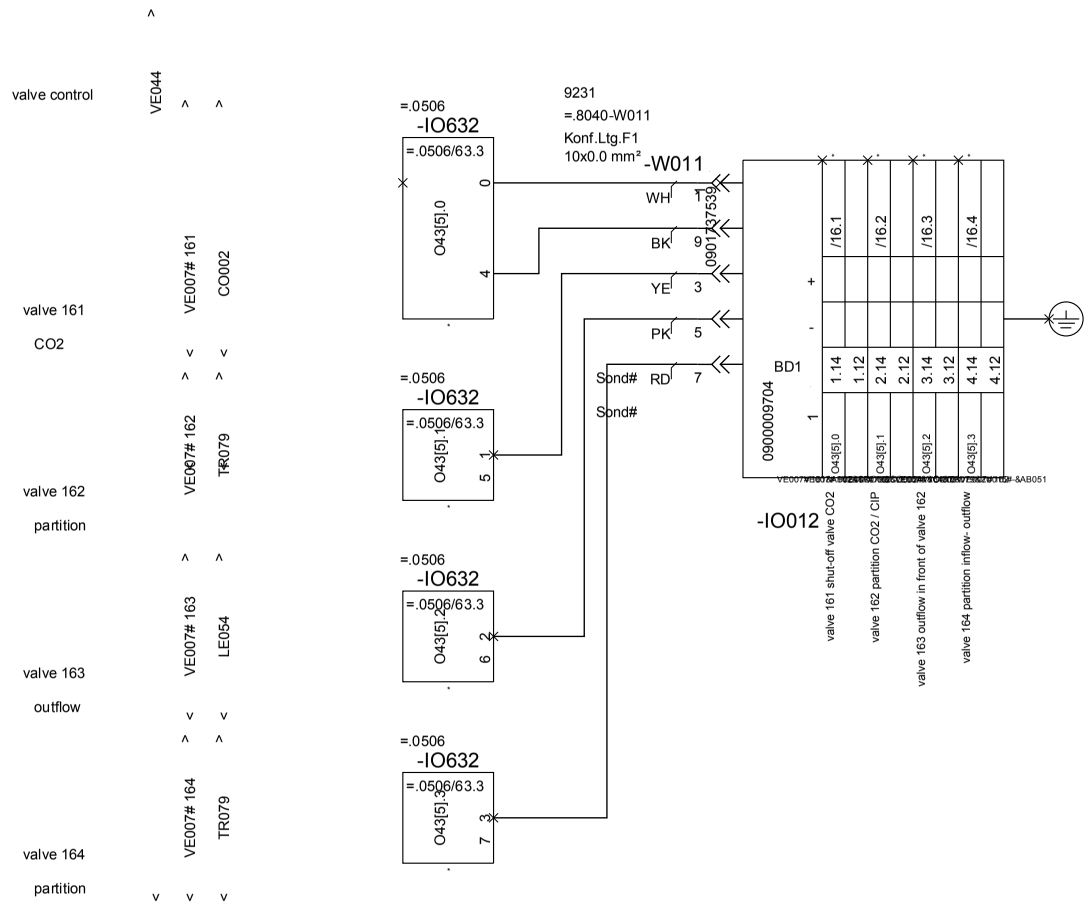
date	18.04.2013	machine type filler	KRONES	valve 120-122	equi. K123989	+KPV1	=FU1.8030
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 12 305/348
		version/ 02		SFT_FUG0_201301 80/01030			

reserve RE001



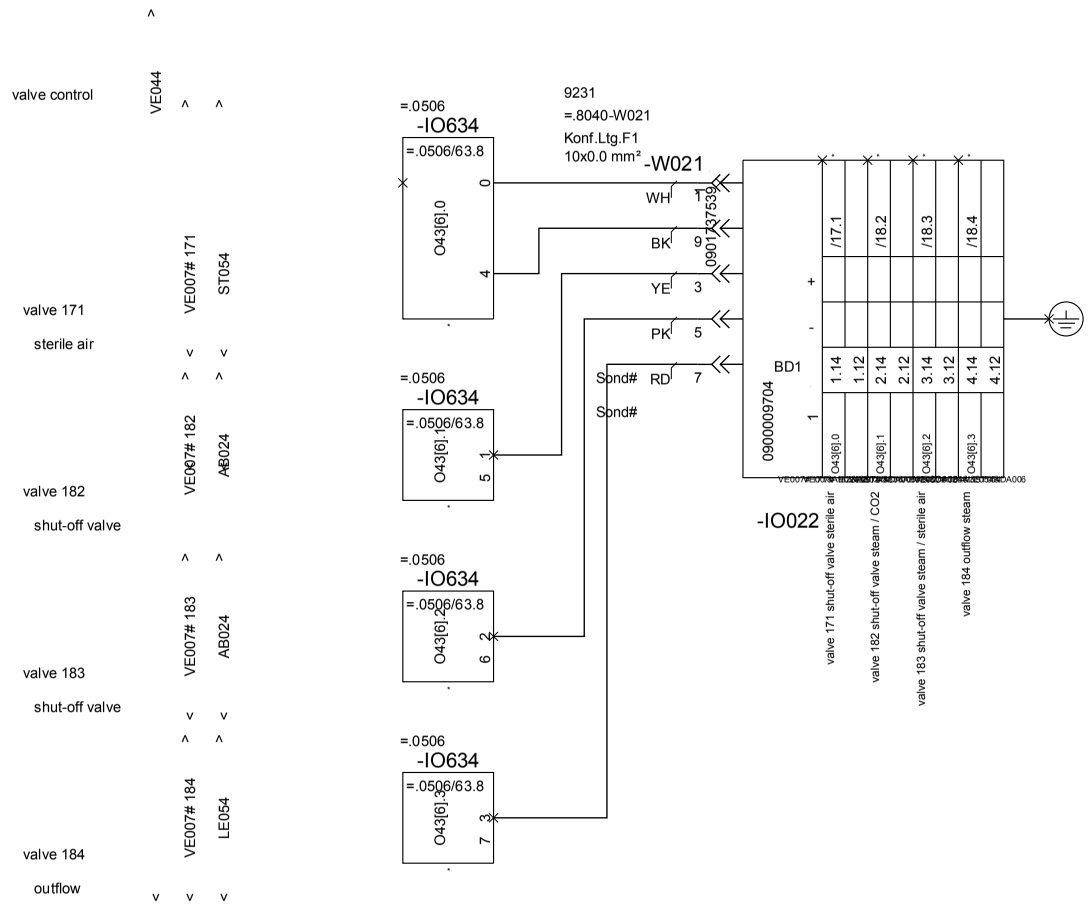
VE044
valve control

date	22.04.2013	machine type filler	KRONES	reserve	equi. K123989	+KPV1	=FU1.8030
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 90 306/348
		version/ 02		SFT_FUG0_201301 80/01030			



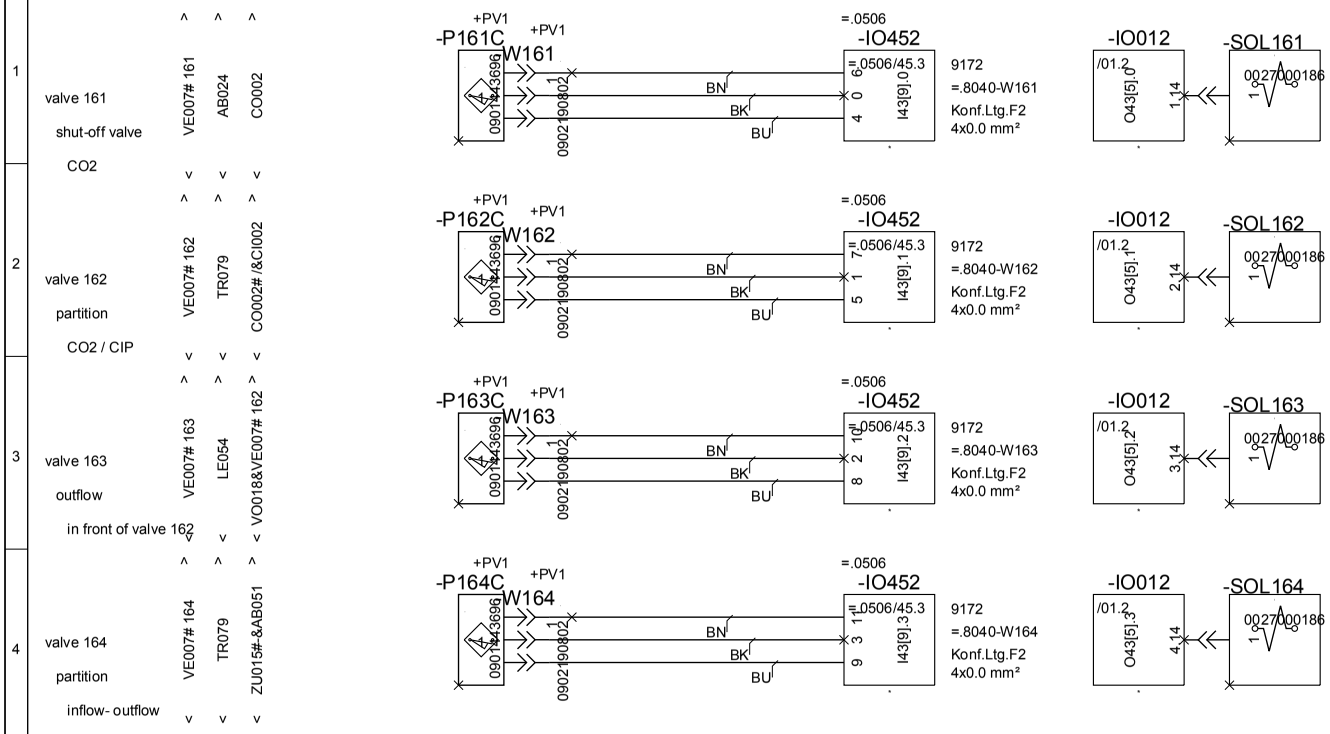
VE044
valve control

date	18.04.2013	machine type	filler	valve block	equi. K123989	+KPV1	=FU1.8040
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 01 307/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 80/01040			



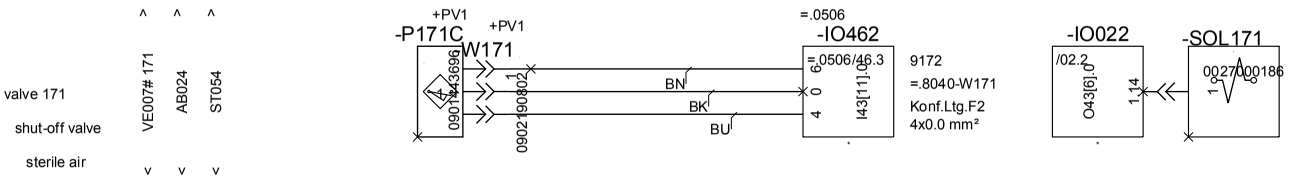
VE044
valve control

date	18.04.2013	machine type filler	KRONES	valve block	equi. K123989	+KPV1	=FU1.8040
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 02 308/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 80/01040			



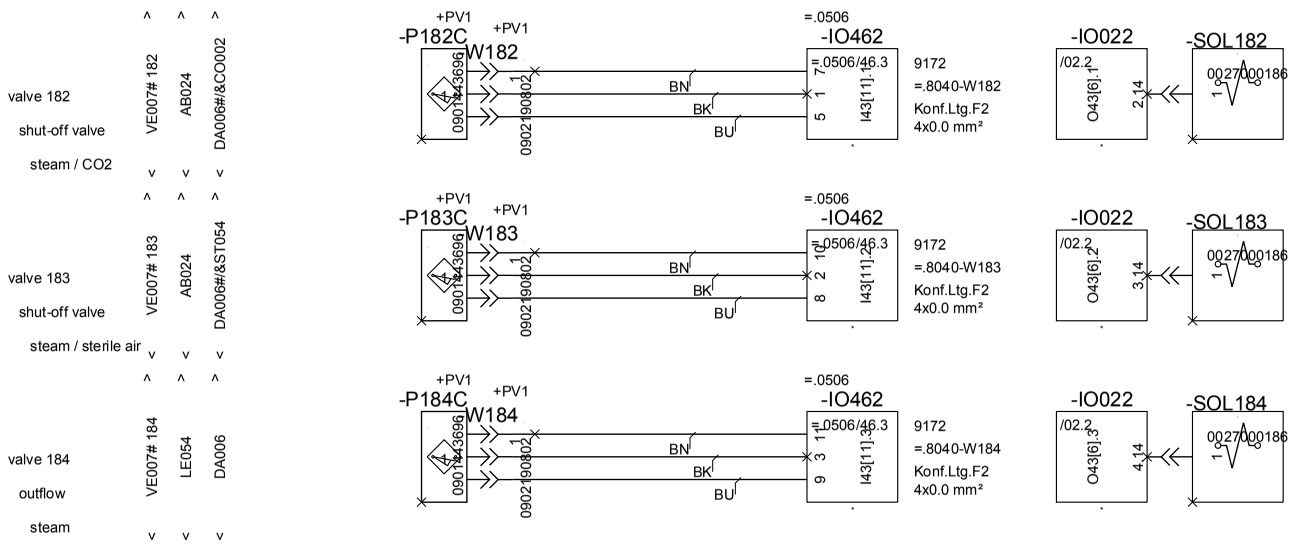
VE044
valve control

date	18.04.2013	machine type filler	KRONES	valve 161-164	equi. K123989	+KPV1	=FU1.8040
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 16 309/348
		version/ 02		SFT_FUG0_201301 80/01040			



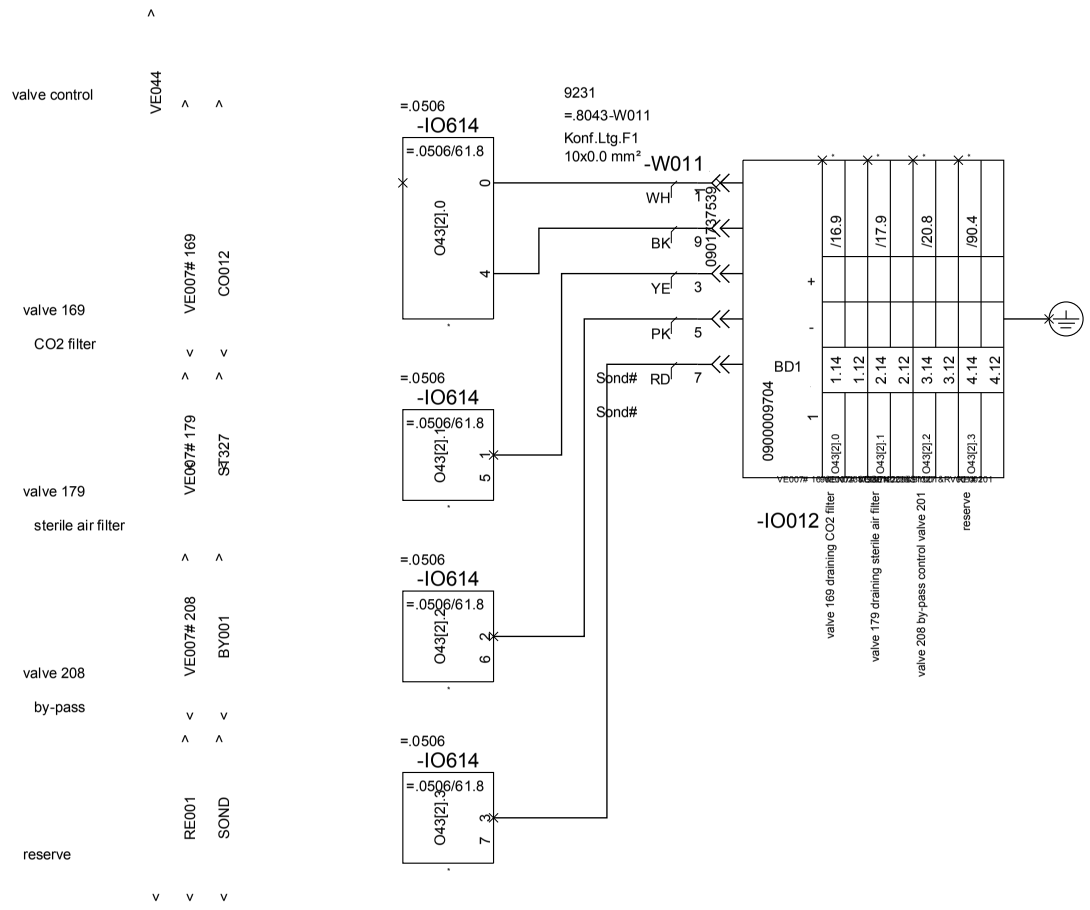
VE044
valve control

date	18.04.2013	machine type filler	KRONES	valve 171	equi. K123989	+KPV1	=FU1.8040
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 17 310/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 80/01040			



VE044
valve control

date	18.04.2013	machine type filler	KRONES	valve 182-184	equi. K123989	+KPV1	=FU1.8040
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 18 311/348
		version/ 02		SFT_FUG0_201301 80/01040			



VE044
valve control

date	22.04.2013	machine type	filler	valve block	equi. K123989	+KPV1	=FU1.8043
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 01 312/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 80/01043			

valve 169
draining
CO2 filter

^ VE007# 169 v
^ EN023 v
^ CO012 v

-IO012
/01.2
O43[2].0
1.14

-SOL169
0027000186
1
3

VE044
valve control

date	22.04.2013	machine type filler	KRONES	valve 169	equi. K123989	+KPV1	=FU1.8043
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 16 313/348
		version/ 02		SFT_FUG0_201301 80/01043			

	A	B	C	D	E	F
0						
1						
2						
3						
4						
5						
6						
7						
8						
9						

valve 179
draining
sterile air filter

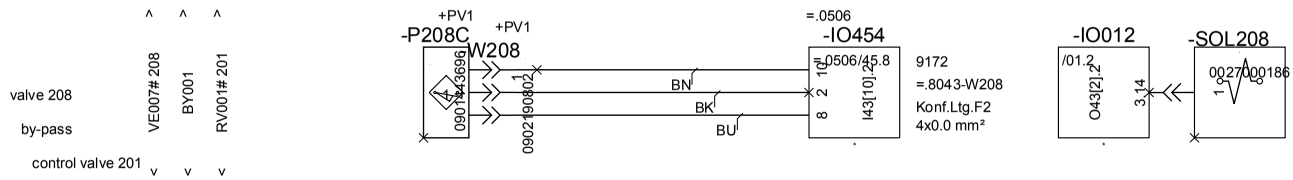
^ VE007# 179 v
^ EN023 v
^ ST327 v

-IO012
/01.2
O43[2].1
2.14

-SOL179
00270000186
1
3

VE044
valve control

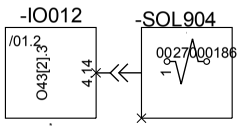
date	22.04.2013	machine type filler	KRONES	valve 179	equi. K123989	+KPV1	=FU1.8043
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 17 314/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 80/01043			



VE044
valve control

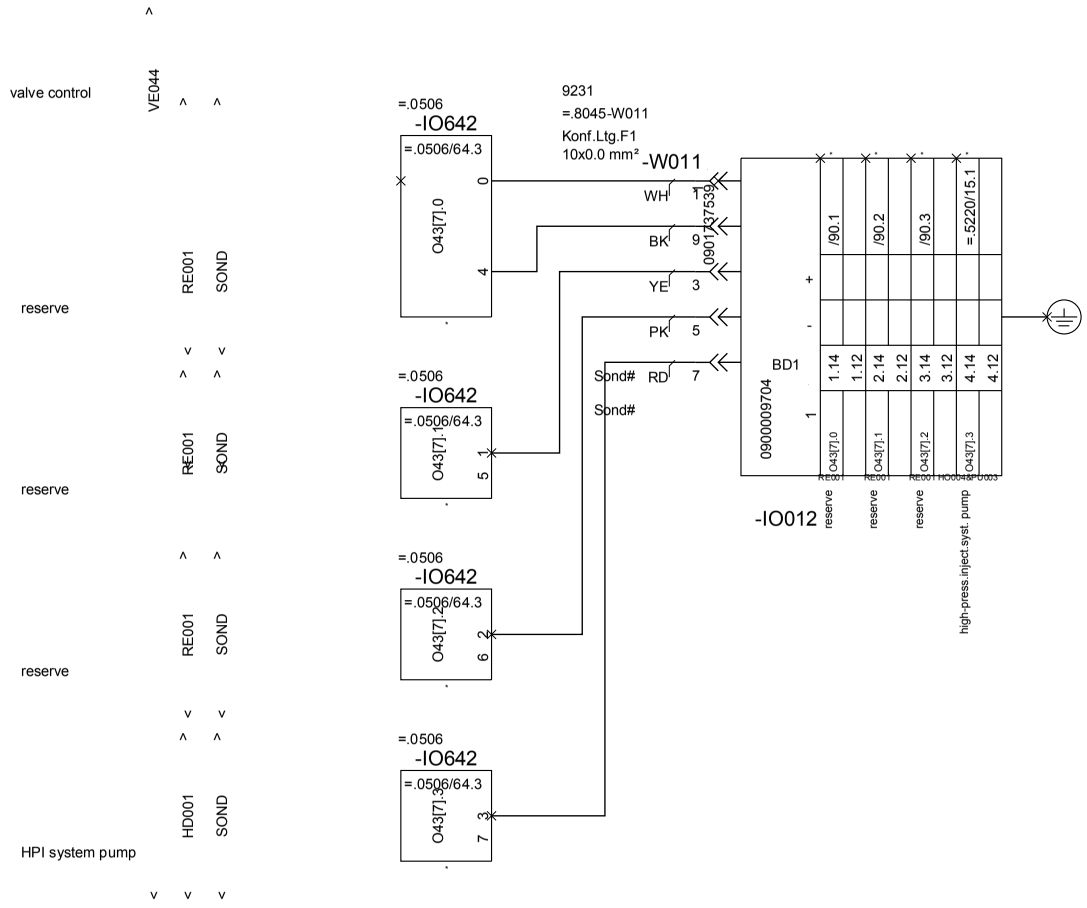
date	18.04.2013	machine type filler	KRONES	valve 208	equi. K123989	+KPV1	=FU1.8043
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 20 315/348
		version/ 02		SFT_FUG0_201301 80/01043			

reserve RE001



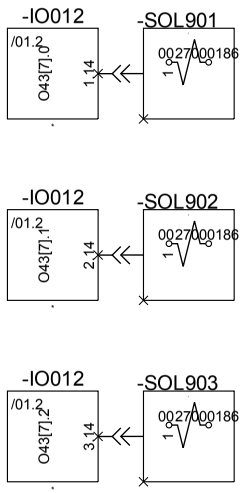
VE044
valve control

date	22.04.2013	machine type filler	KRONES	reserve	equi. K123989	+KPV1	=FU1.8043
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 90 316/348
		version/ 02		SFT_FUG0_201301 80/01043			



VE044
valve control

date	22.04.2013	machine type filler	KRONES	valve block	equi. K123989	+KPV1	=FU1.8045
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 01 317/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 80/01045			

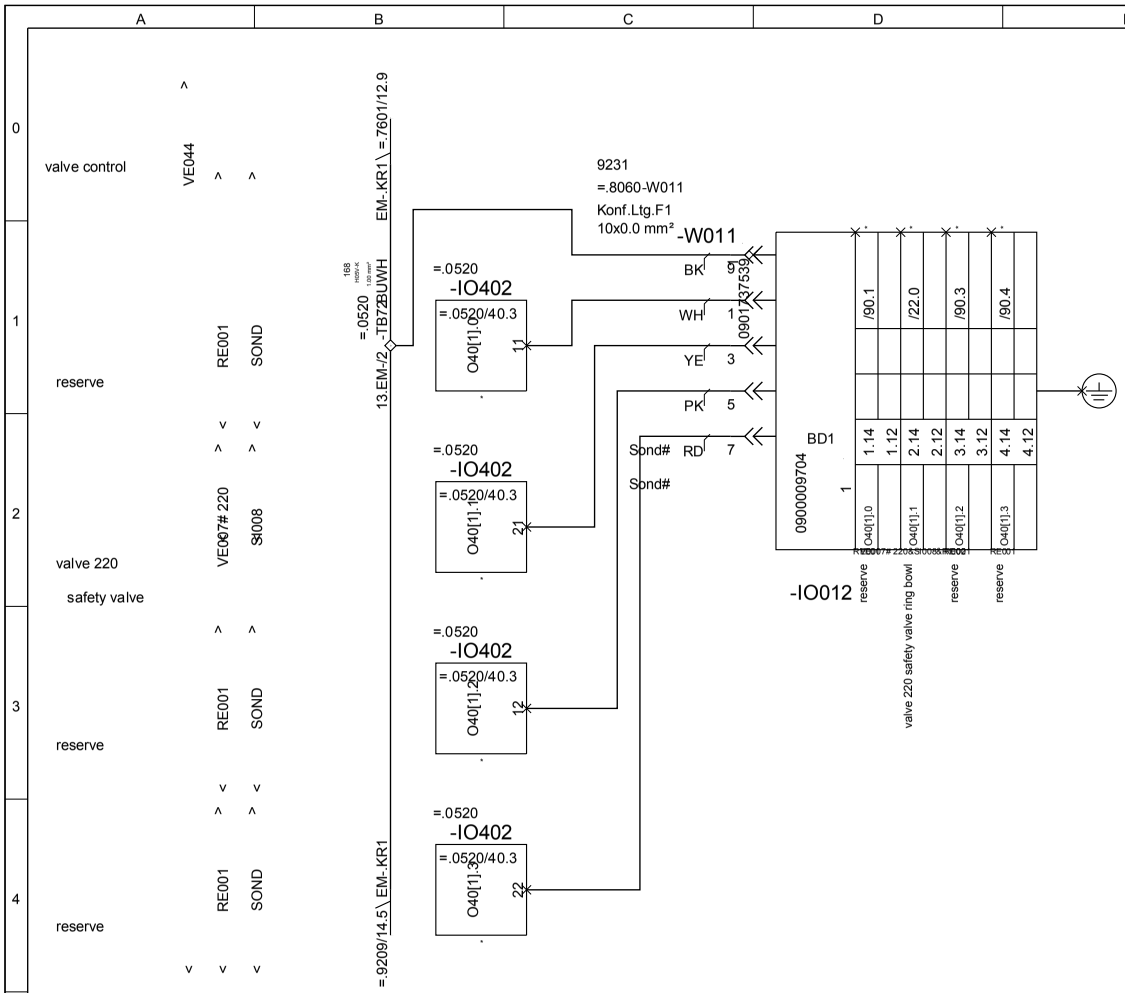


reserve

RE001

VE044
valve control

date	22.04.2013	machine type filler	KRONES	reserve	equi. K123989	+KPV1	=FU1.8045
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 90 318/348
		version/ 02		SFT_FUG0_201301 80/01045			



VE044
valve control

date	18.04.2013	machine type filler	KRONES	valve block	equi. K123989	+KR1	=FU1.8060
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 01 319/348
		version/ 02		SFT_FUG0_201301 80/01060			

valve 220

safety valve

ring bowl

VE007# 220

SI008

RI002

-IO012

/01.2

O40[1].1

2.14

-SOL220

00270.00186

1

3

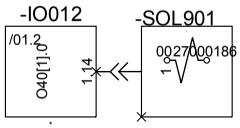
VE044

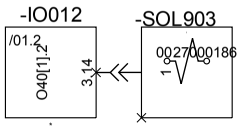
valve control

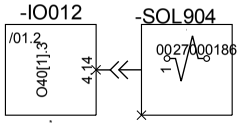
date	18.04.2013	machine type filler		valve 220	equi. K123989	+KR1	=FU1.8060
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS	KRONES	client	K123989-001	STR	sheet 22 320/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 80/01060			

reserve

RE001

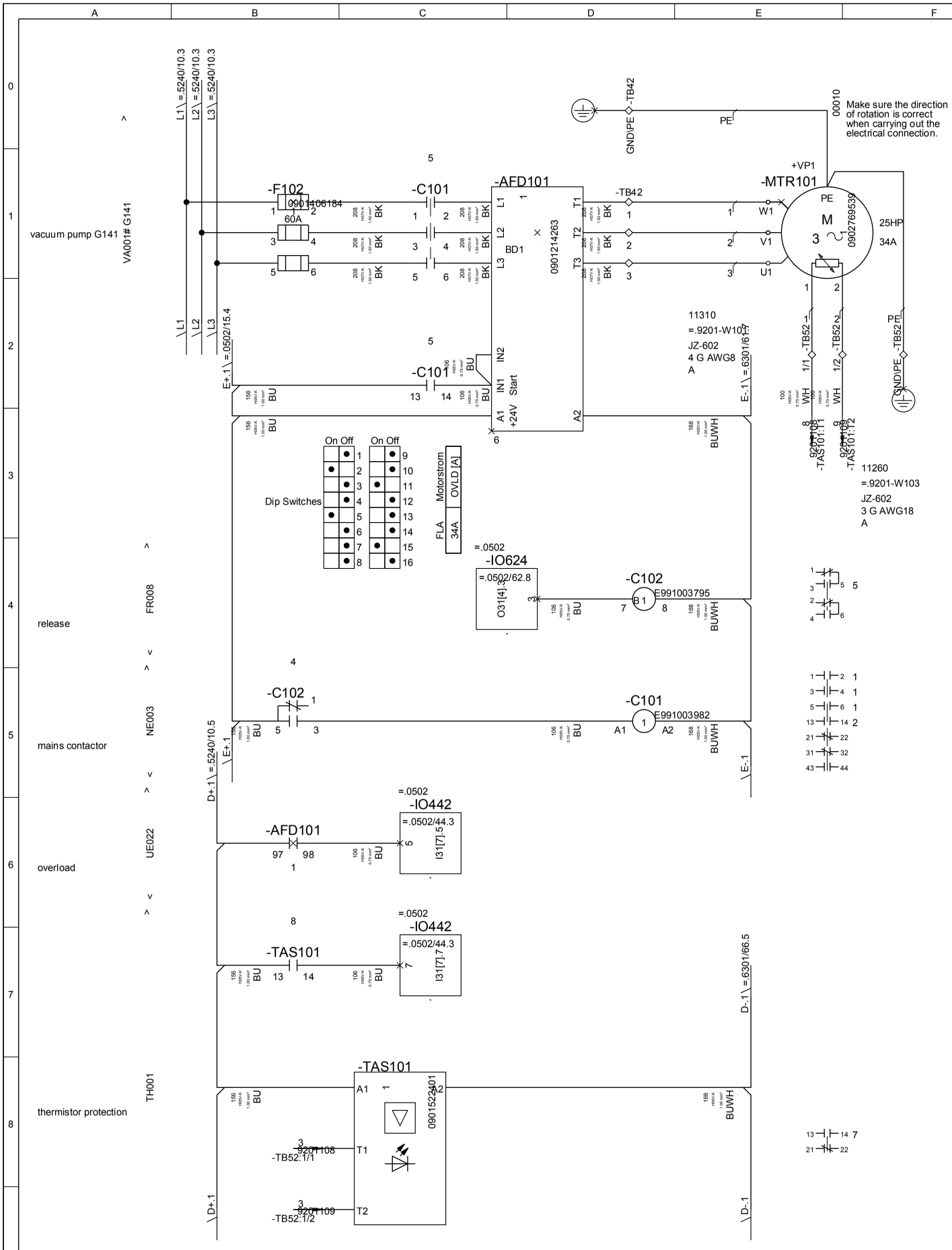




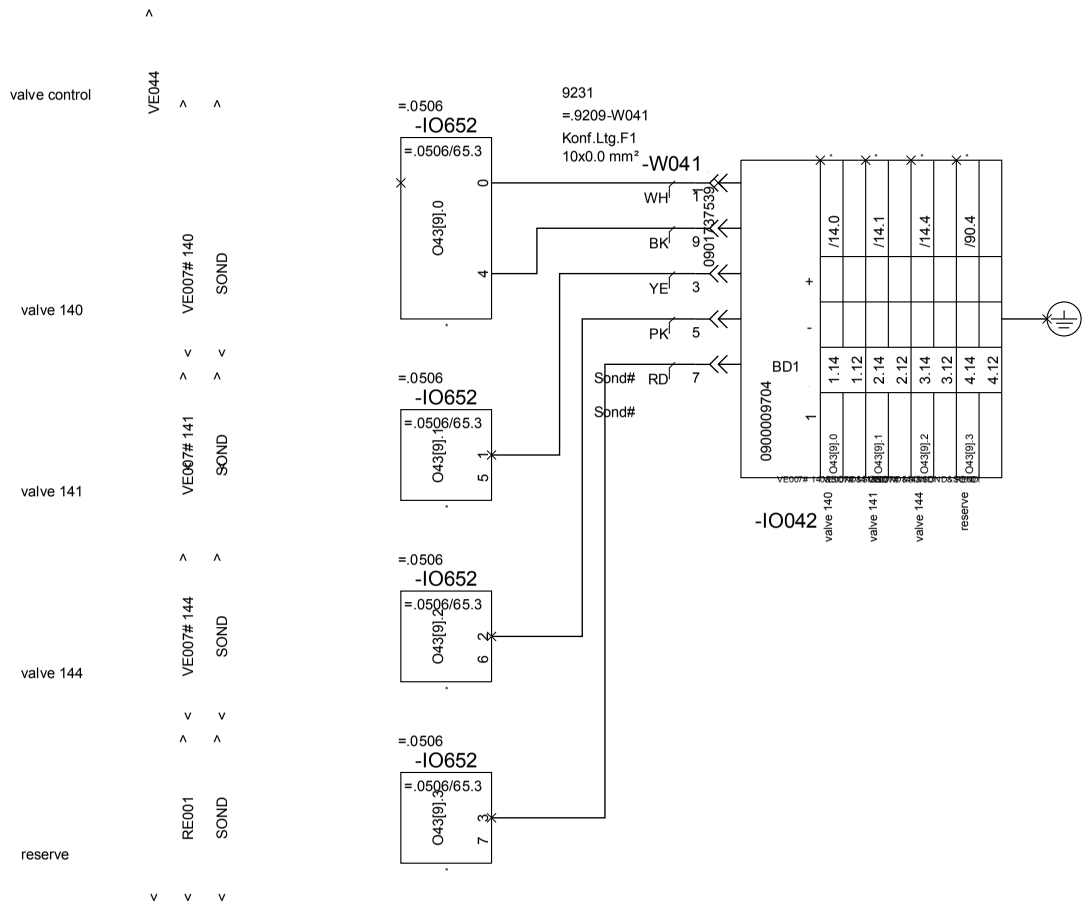


VE044
valve control

date	22.04.2013	machine type filler	KRONES	reserve	equi. K123989	+KR1	=FU1.8060
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 90 321/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 80/01060			

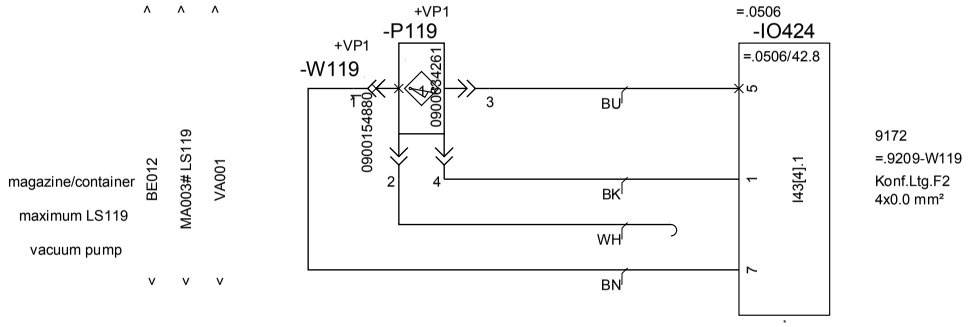


date	22.04.2013	machine type filler	KRONES	vacuum pumpG141	equi. K123989	+SK1	=FU1.9201
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 10 322/348
		version/ 02		SFT_FUG0_201301 92/01102			

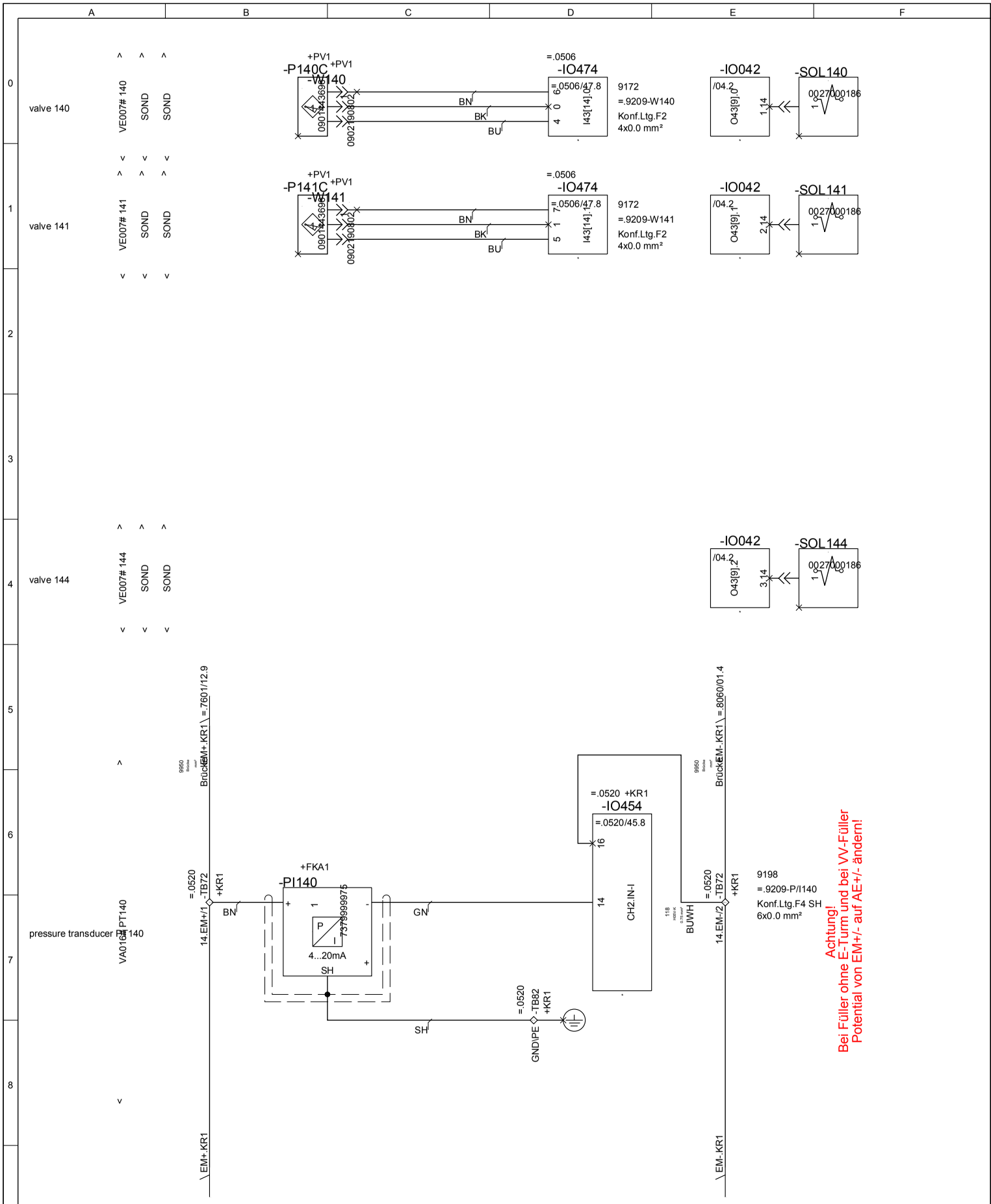


VA002
vacuum

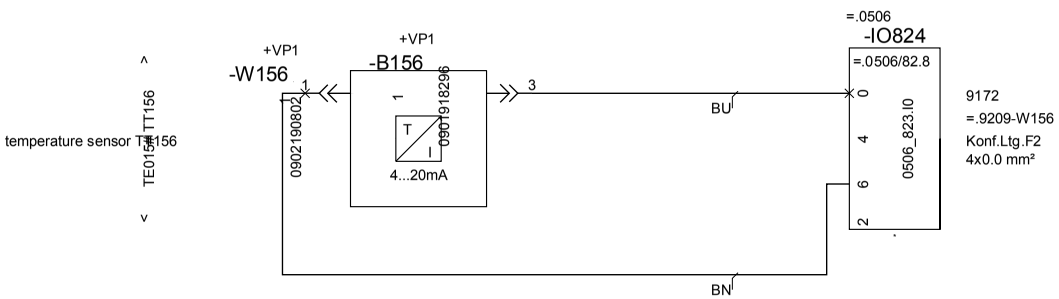
date	22.04.2013	machine type filler	KRONES	valve block	equi. K123989	+KPV1	=FU1.9209
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 04 323/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 92/01011			



date	22.04.2013	machine type filler	KRONES	level probeLS119	equi. K123989	+KPV1	=FU1.9209
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 11 324/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 92/01011			



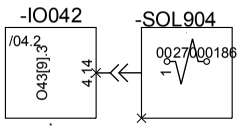
date	18.04.2013	machine type filler	KRONES	valve 140-144	equi. K123989	+KPV1	=FU1.9209
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 14 325/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 92/01011			



VA002
vacuum

date	27.08.2013	machine type filler	KRONES	temperature control TIS156	equi. K123989	+KPV1	=FU1.9209
eng.	Krupka						
CAD	Skala	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 15 326/348
		version/ 02		SFT_FUG0_201301 92/01011			

reserve RE001



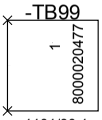
VA002
vacuum

date	22.04.2013	machine type filler	KRONES	reserve	equi. K123989	+KPV1	=FU1.9209
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 90 327/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 92/01011			

^ ^

=FM1

-TB99



=.1101/30.1
=.1101/30.5
=.9702/10.6
=.9702/10.6
=.9702/11.1

signal transmission SI022 KU001

customer

v v

SI022
signal transmission

date	22.04.2013	machine type filler	KRONES	customer	equi. K123989	+SK1	=FU1.9701
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 02 328/348
		version/ 02		SFT_FUG0_201301 97/01001			

^ ^

=FM4

-TB99

1

8000020477

=.9704/20.1
=.9704/20.1
=.9704/20.2

signal transmission SI022 BE068

container conveyor

v v

SI022
signal transmission

date	22.04.2013	machine type filler	KRONES	container conveyor	equi. K123989	+SS	=FU1.9701
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 04 329/348
		version/ 02		SFT_FUG0_201301 97/01001			

^ ^

=FM12

-A999

1

80000204477

=.9712/10.1
=.9712/10.6
=.9712/11.1
=.9712/11.6
=.9712/14.7
=.9712/14.1
=.9712/15.3
=.9712/17.2

signal transmission SI022 CH001

Checkmat

v v

SI022
signal transmission

date	26.04.2013	machine type filler	KRONES	Checkmat	equi. K123989	+SK1	=FU1.9701
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 12 330/348
		version/ 02		SFT_FUG0_201301 97/01001			

^ ^

=RI1.9708
-TB231
1
80000204477
=.9714/23.2

=RI1.9708
-TB235
1
80000204477
=.9714/23.8

signal transmission SI022 RI009

rinser

=RI1.9708
-TB99A01
1
80000204477
=.9714/10.2
=.9714/10.1
=.9714/10.6
=.9714/11.1

=RI1.9708
-TB99A02
1
80000204477
=.9714/15.1

=RI1.9708
-TB99A05
1
80000204477
=.9714/15.3

v v

SI022
signal transmission

date	23.04.2013	machine type filler	KRONES	rinser	equi. K123989	+SK1	=FU1.9701
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 14 331/348
		version/ 02		SFT_FUG0_201301 97/01001			

^ ^

=FM50
-X10
1
80000204477
=.9750/10.6
=.9750/10.6

=FM50
-X90
1
80000204477
=.9750/10.1
=.9750/11.1

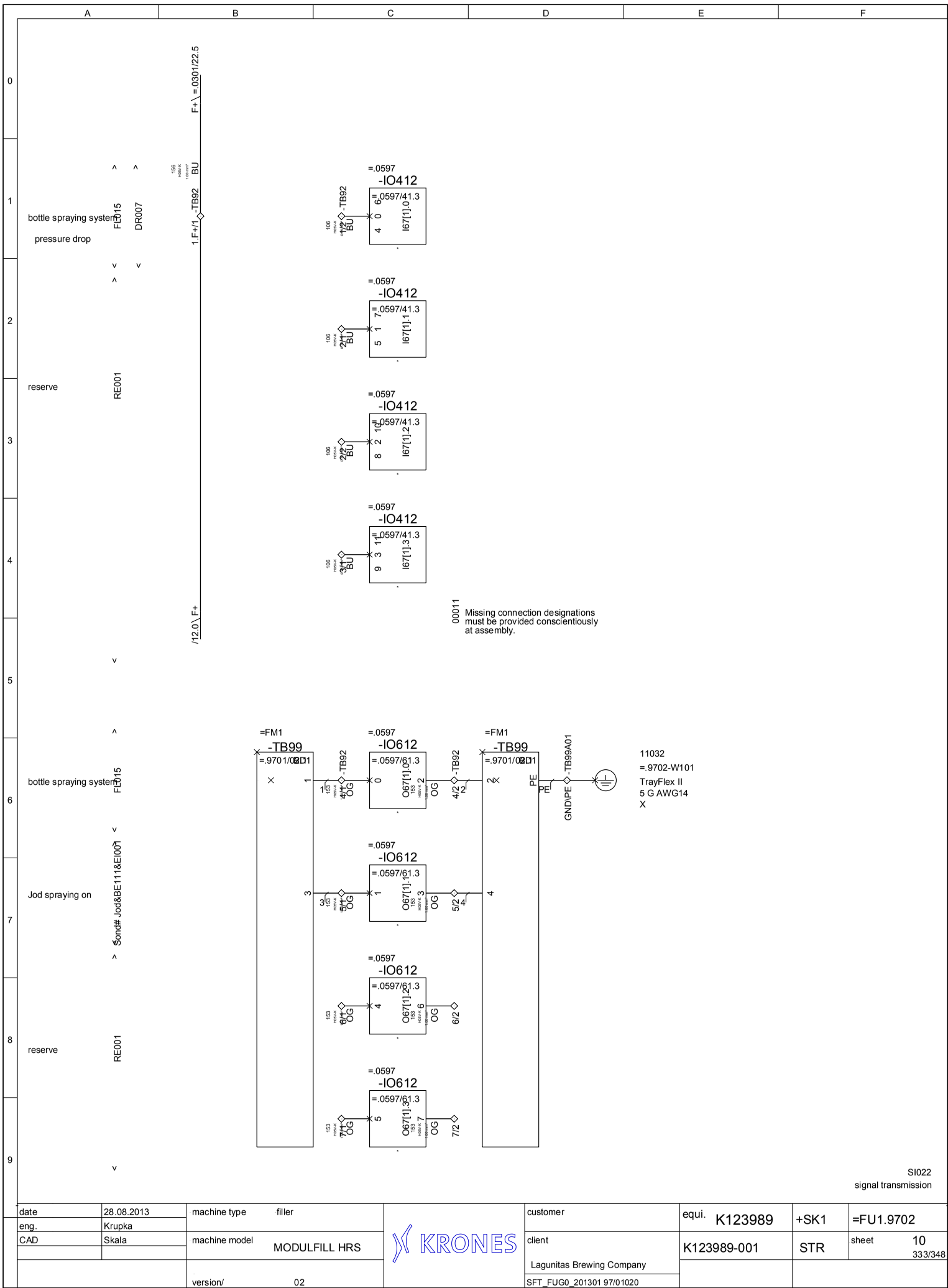
signal transmission
closure supply1
SI022
VE013#1

=FM50
-X95
1
80000204477
=.9750/11.6
=.9750/11.6

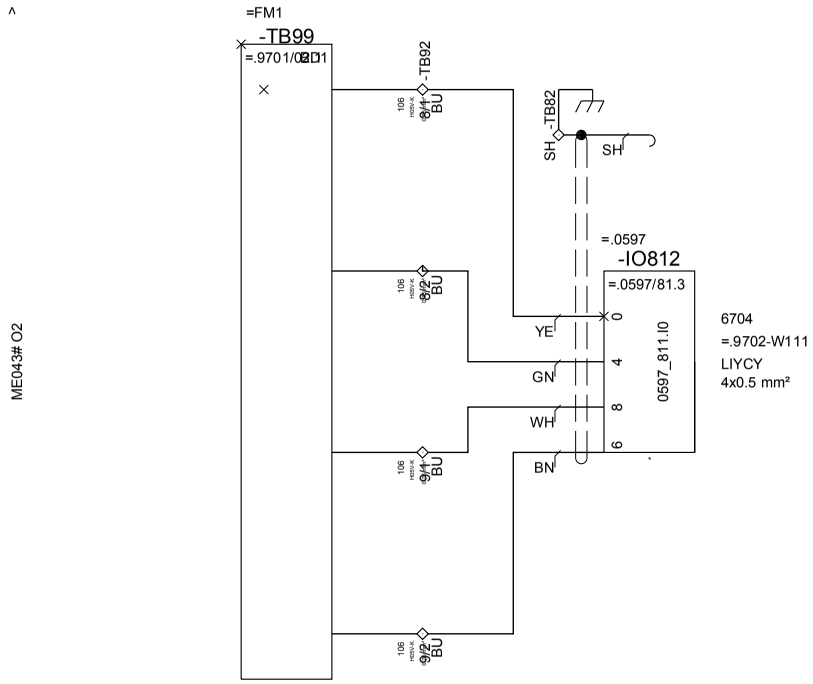
v v

SI022
signal transmission

date	23.04.2013	machine type filler		closure supply1	equi. K123989	+SS	=FU1.9701
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS	KRONES	client	K123989-001	STR	sheet 50 332/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 97/01001			



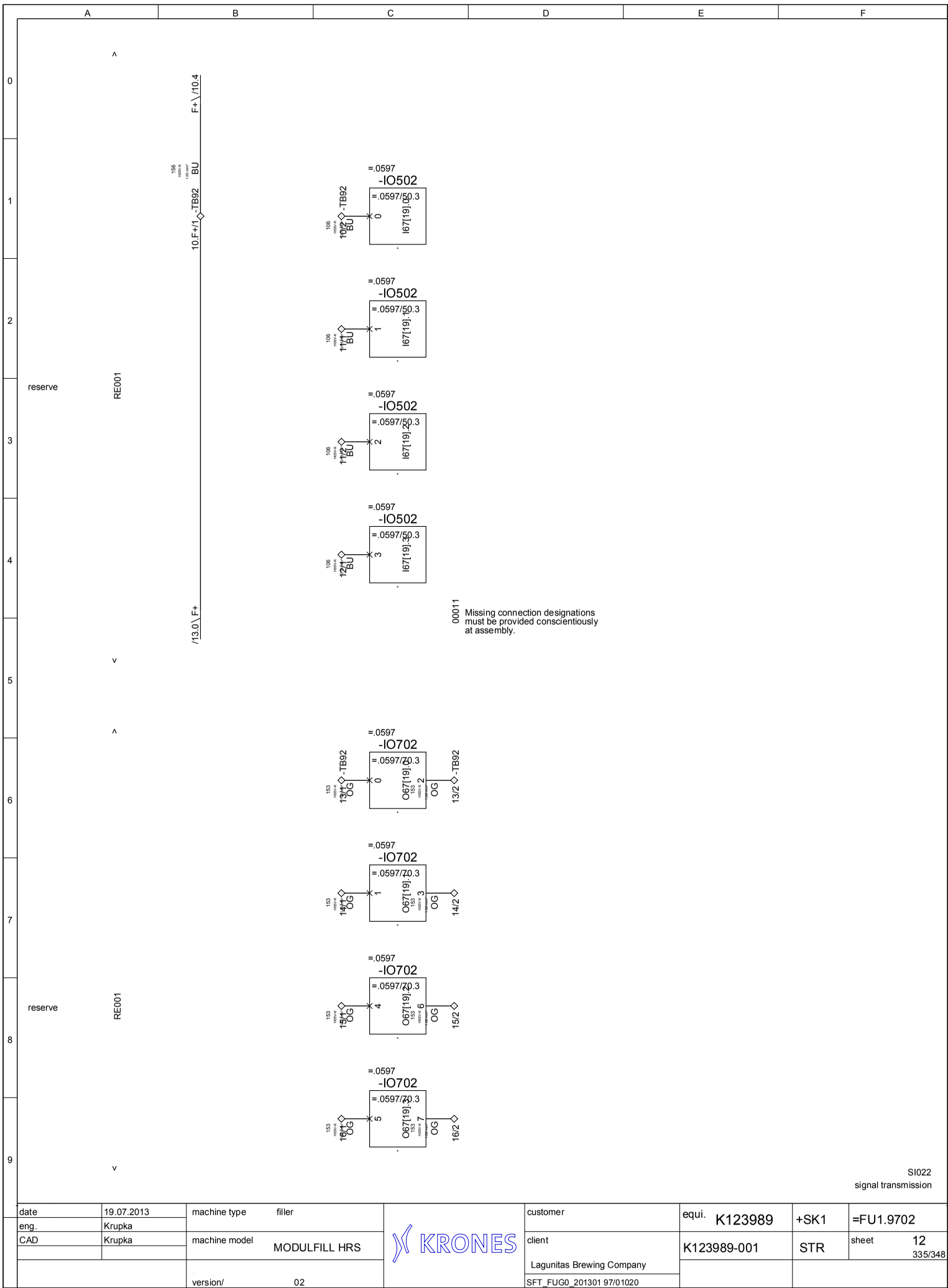
date	28.08.2013	machine type filler	KRONES	customer	equi. K123989	+SK1	=FU1.9702
eng.	Krupka						
CAD	Skala	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 10 333/348
		version/ 02		SFT_FUG0_201301 97/01020			

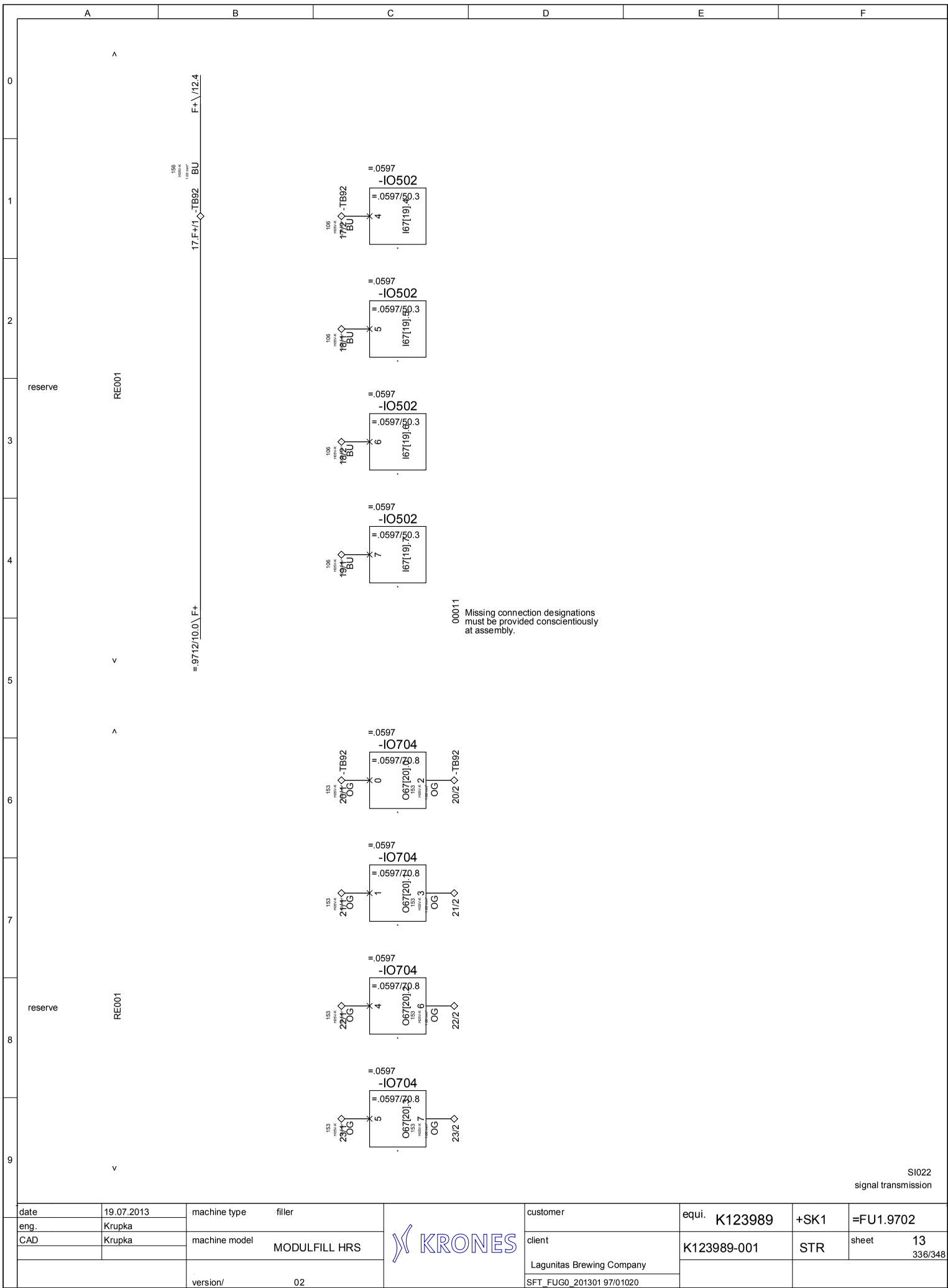


00011
Missing connection designations must be provided conscientiously at assembly.

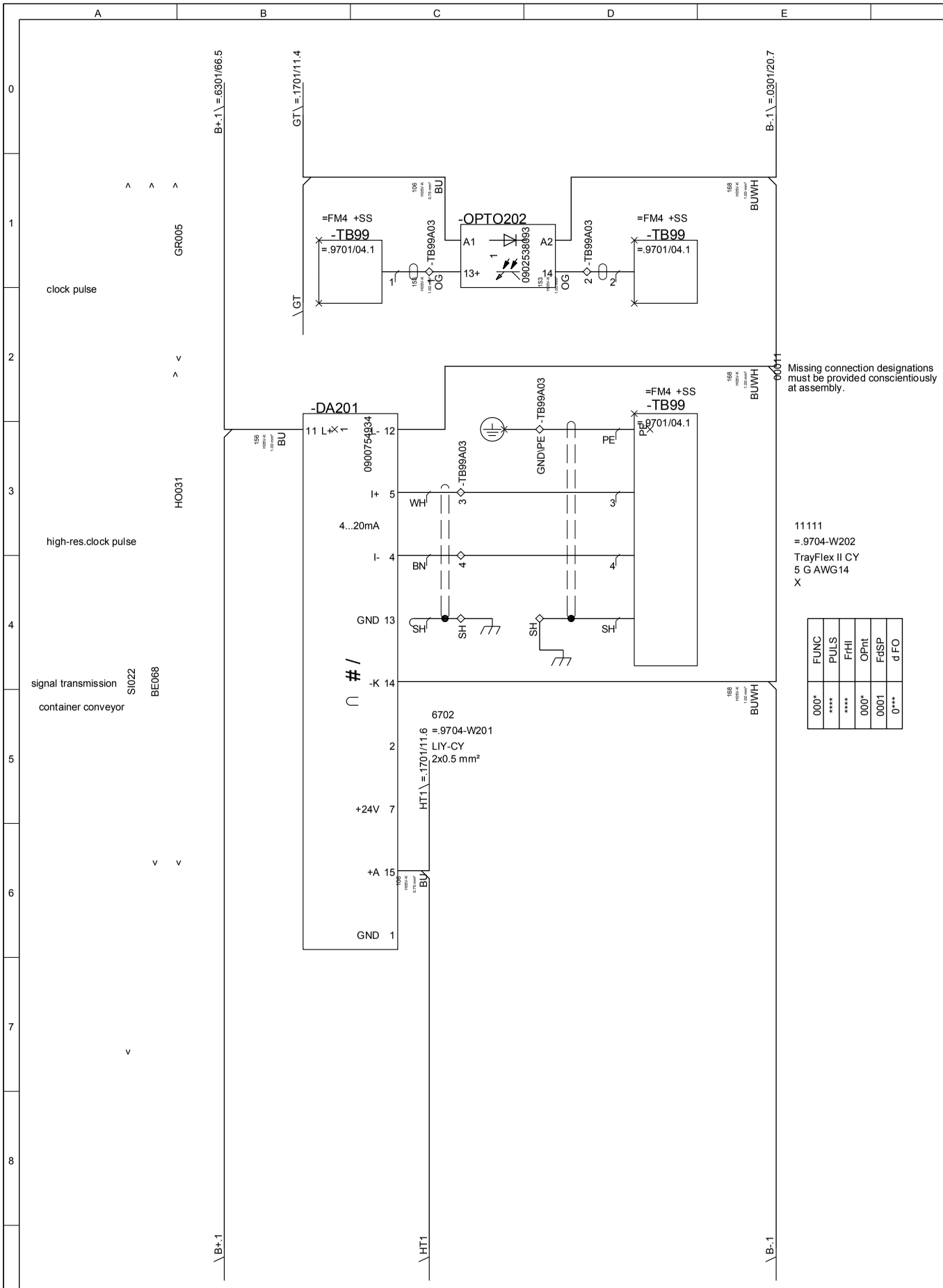
SI022
signal transmission

date	23.04.2013	machine type filler	KRONES	customer	equi. K123989	+SK1	=FU1.9702
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 11 334/348
		version/ 02		SFT_FUG0_201301 97/11124			


A
B
C
D
E
F
0
1
2
3
4
5
6
7
8
9
F+ \ /10.4
10.F+/1 -TB92
/13.0 \ F+
reserve
RE001
=.0597
-IO502
=.0597/50.3
I67[19].0
I67[19].1
I67[19].2
I67[19].3
00011
Missing connection designations
must be provided conscientiously
at assembly.
=.0597
-IO702
=.0597/70.3
O67[19].2
O67[19].3
O67[19].6
O67[19].7
SI022
signal transmission
date 19.07.2013
eng. Krupka
CAD Krupka
machine type filler
machine model MODULFILL HRS
version/ 02
KRONES
customer
client Lagunitas Brewing Company
SFT_FUG0_201301 97/01020
equi. K123989
K123989-001
+SK1
STR
=FU1.9702
sheet 12
335/348

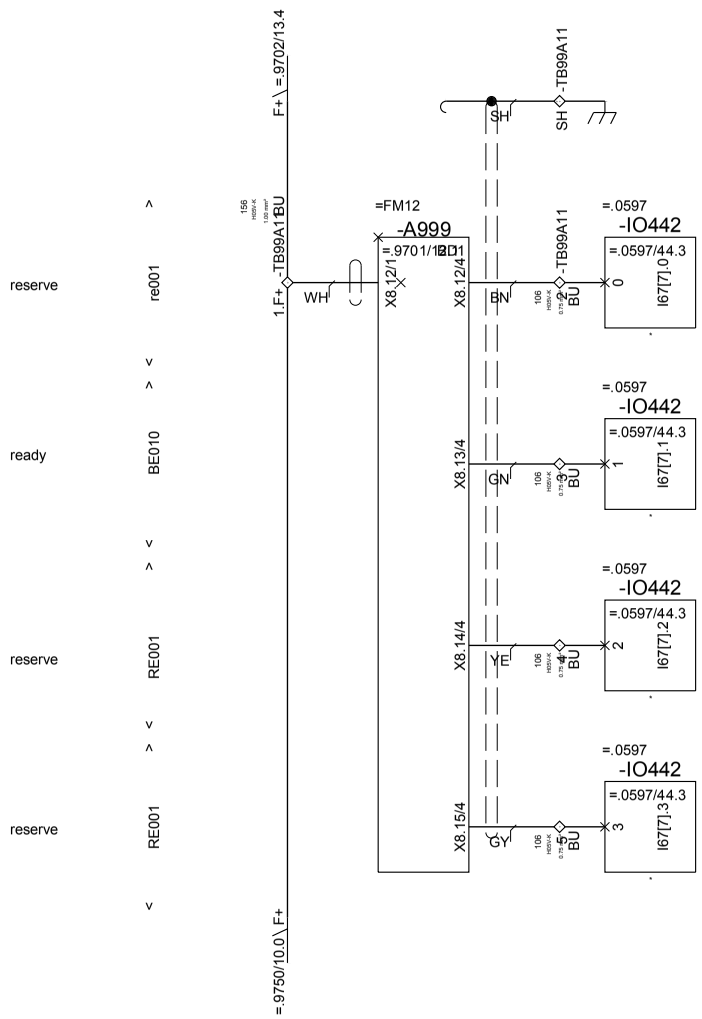


date	19.07.2013	machine type filler	KRONES	customer	equi. K123989	+SK1	=FU1.9702
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 13 336/348
		version/ 02		SFT_FUG0_201301 97/01020			



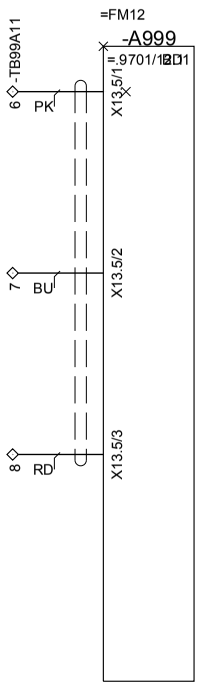
SI022
signal transmission

date	22.04.2013	machine type	filler	container conveyor	equi. K123989	+SK1	=FU1.9704
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 20 337/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 97/01041			



6709
=.9712-W101
LIYCY
16x0.5 mm²
S

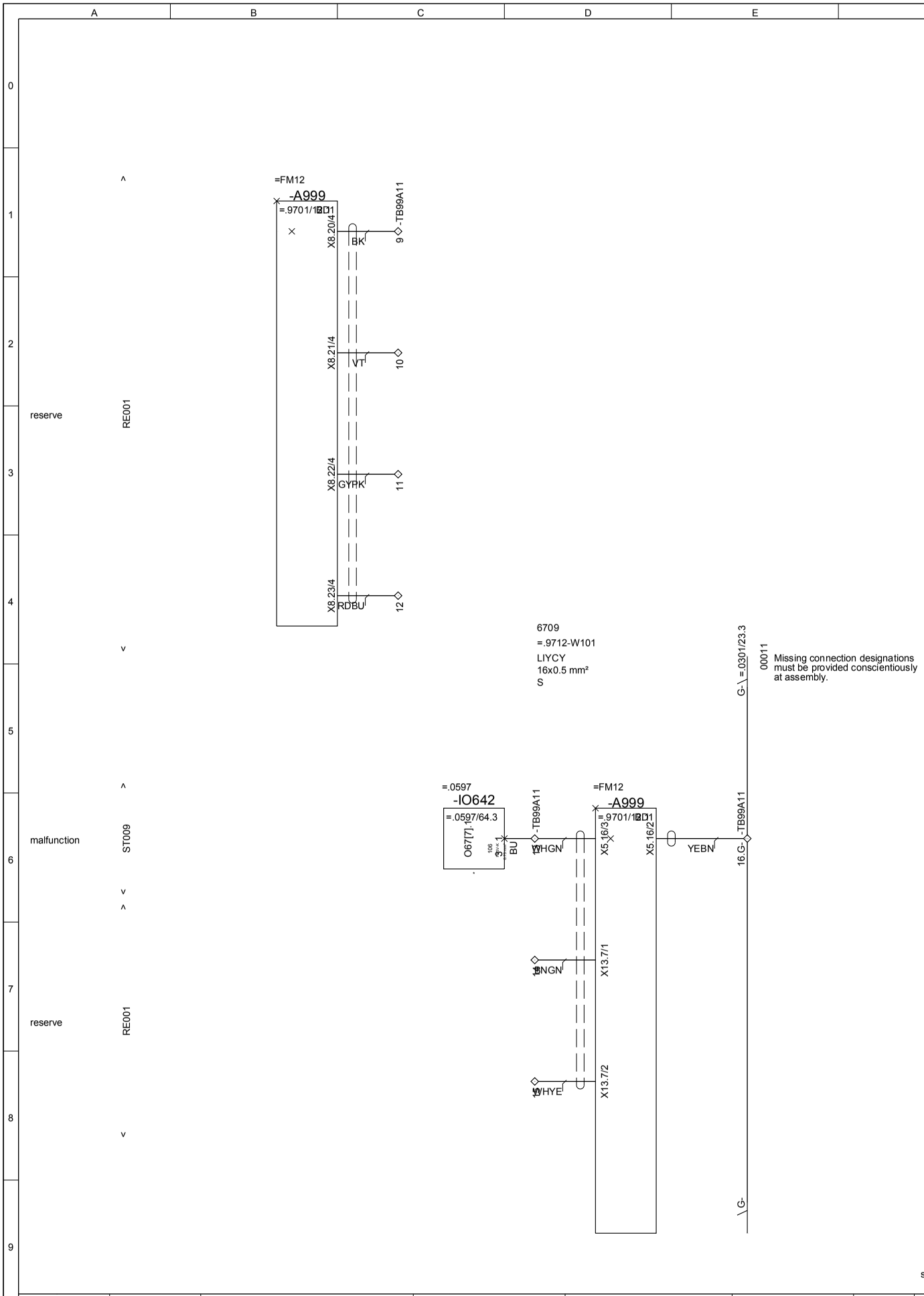
00011
Missing connection designations must be provided conscientiously at assembly.

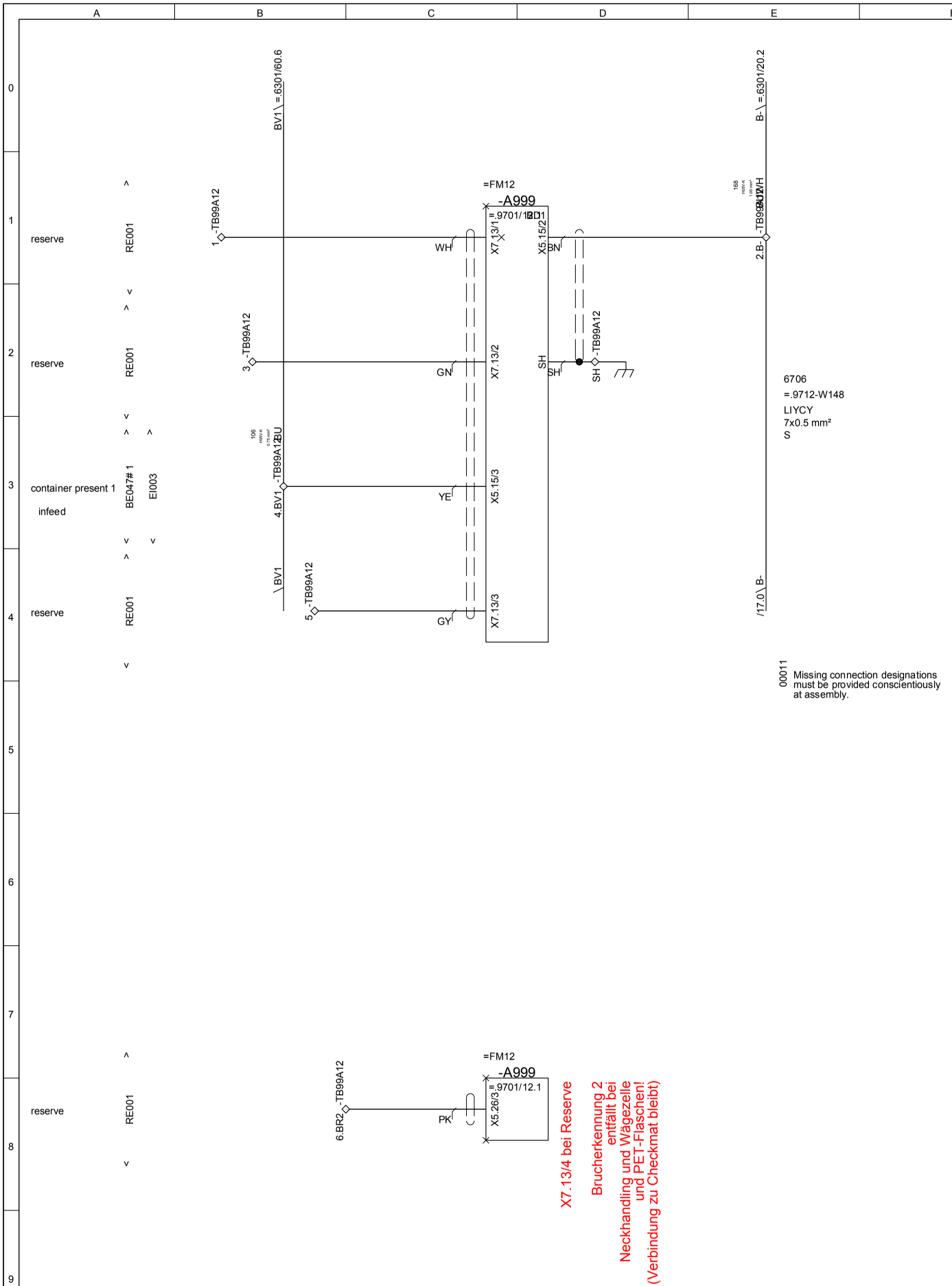


reserve re001
ready BE010
reserve RE001
reserve RE001
reserve RE001

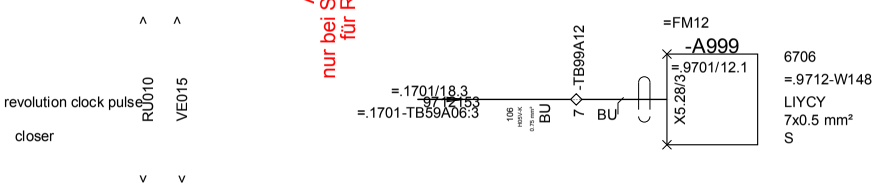
SI022
signal transmission

date	27.08.2013	machine type filler	KRONES	Checkmat	equi. K123989	+SK1	=FU1.9712
eng.	Krupka						
CAD	Skala	machine model MODULFILL HRS		client	K123989-001	STR	sheet 10 338/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 97/11124			


A
B
C
D
E
F
0
1
2
3
4
5
6
7
8
9
reserve
RE001
malfunction
ST009
reserve
RE001
=FM12
-A999
=.9701/12
X8.20/4
BK
9
-TB99A11
X8.21/4
VT
10
X8.22/4
GYRK
11
X8.23/4
RDBU
12
6709
=.9712-W101
LIYCY
16x0.5 mm²
S
=.0597
-IO642
=.0597/64.3
O67[7.1]
BU
-TB99A11
YHGN
=FM12
-A999
=.9701/12
X5.16/3
X5.16/2
YEBN
-TB99A11
16
G-
=.0301/23.3
00011
Missing connection designations
must be provided conscientiously
at assembly.
BNGN
X13.7/1
WHYE
X13.7/2
G-
SI022
signal transmission
date
27.08.2013
eng.
Krupka
CAD
Skala
machine type
filler
machine model
MODULFILL HRS
version/
02
KRONES
Checkmat
client
Lagunitas Brewing Company
SFT_FUG0_201301 97/11124
equi.
K123989
K123989-001
+SK1
STR
=FU1.9712
sheet
11
339/348



date	23.04.2013	machine type filler	KRONES	Checkmat	equi. K123989	+SK1	=FU1.9712
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 14 340/348
		version/ 02		SFT_FUG0_201301 97/11124			



Ausgangsbit -K082
nur bei Servo-Schraubverschliesser
für Rundentakt verwenden!

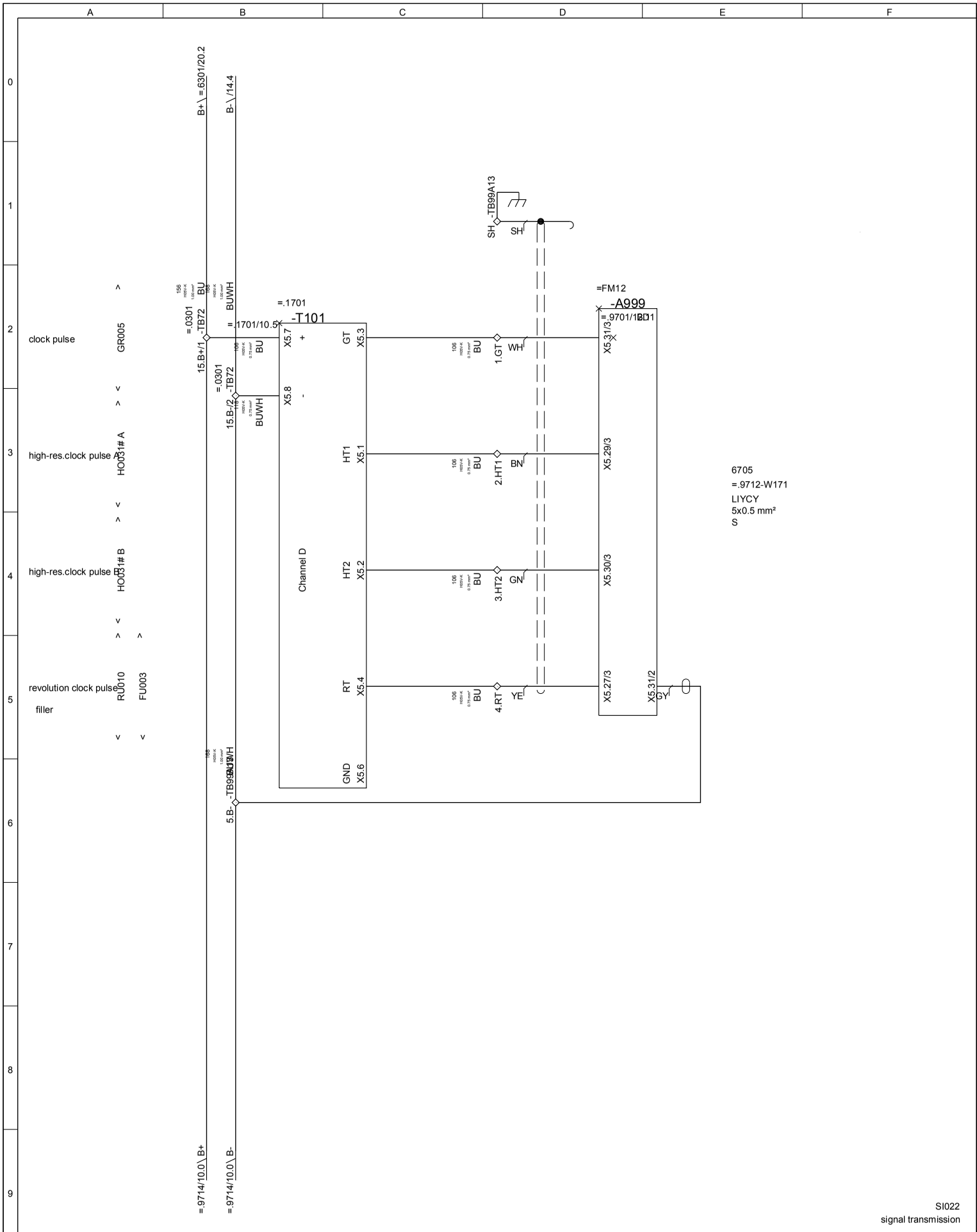
Bei Metall-Schraubverschluss
+KKN auf +KSV
und +KN auf +SV abändern!

Bei KRONES-Verschliesser
nicht benötigte
Komponenten löschen,
Verkabelung zwischen
X99A12 und INS bleibt!

00011
Missing connection designations
must be provided conscientiously
at assembly.

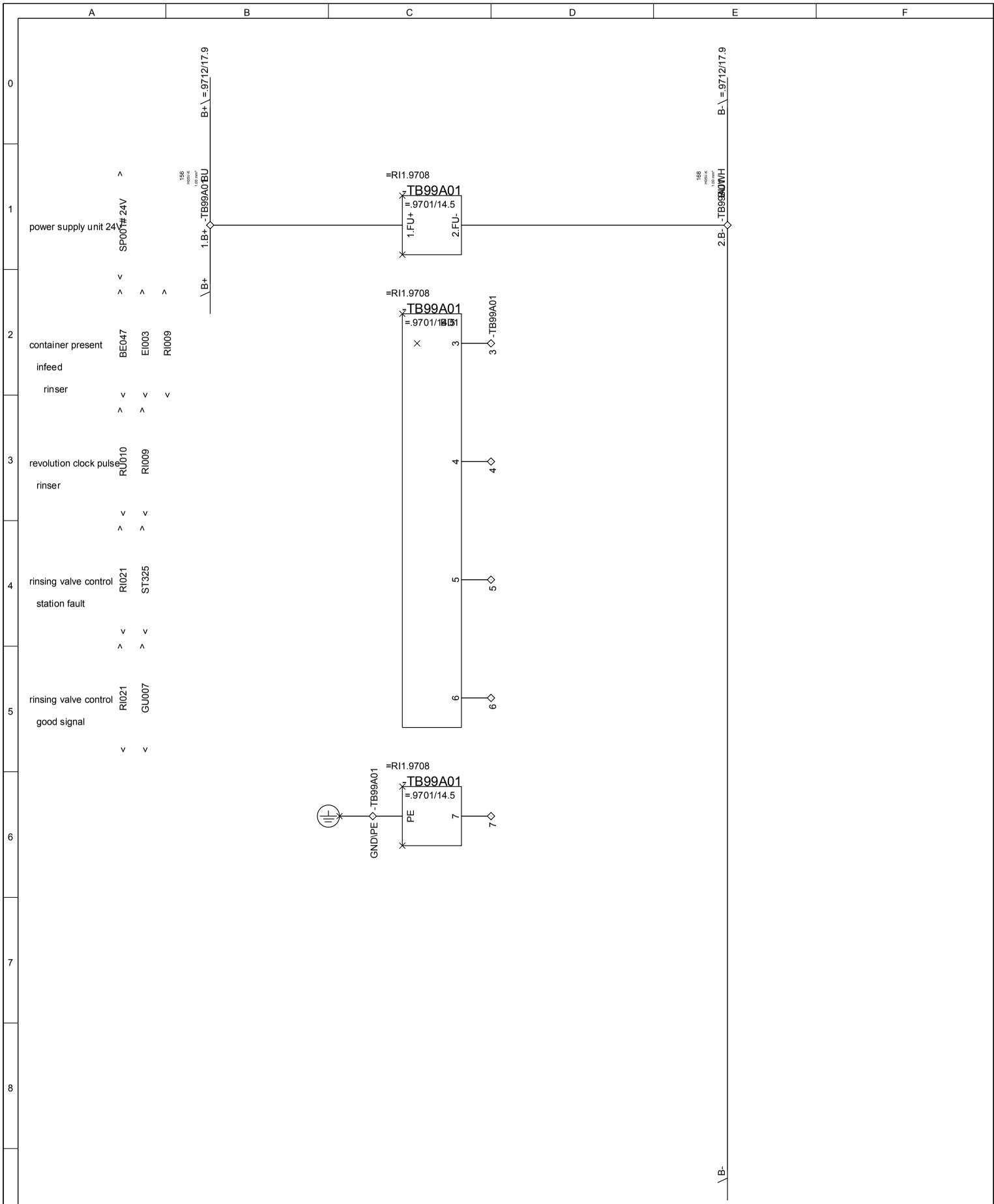
SI022
signal transmission

date	23.04.2013	machine type filler	KRONES	Checkmat	equi. K123989	+SK1	=FU1.9712
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 15 341/348
		version/ 02		SFT_FUG0_201301 97/11124			



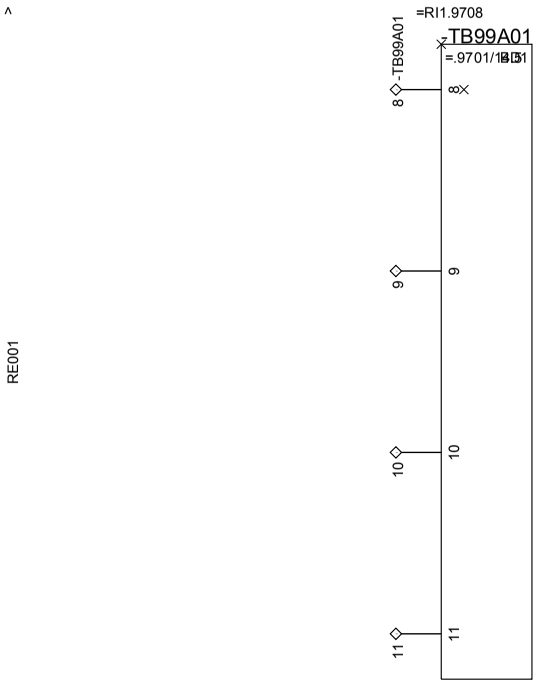
date	23.04.2013	machine type	filler	Checkmat	equi. K123989	+SK1	=FU1.9712
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 17 342/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 97/11124			

KRONES



SI022
signal transmission

date	23.04.2013	machine type filler	KRONES	rinser	equi. K123989	+SK1	=FU1.9714
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 10 343/348
		version/ 02		SFT_FUG0_201301 97/01141			

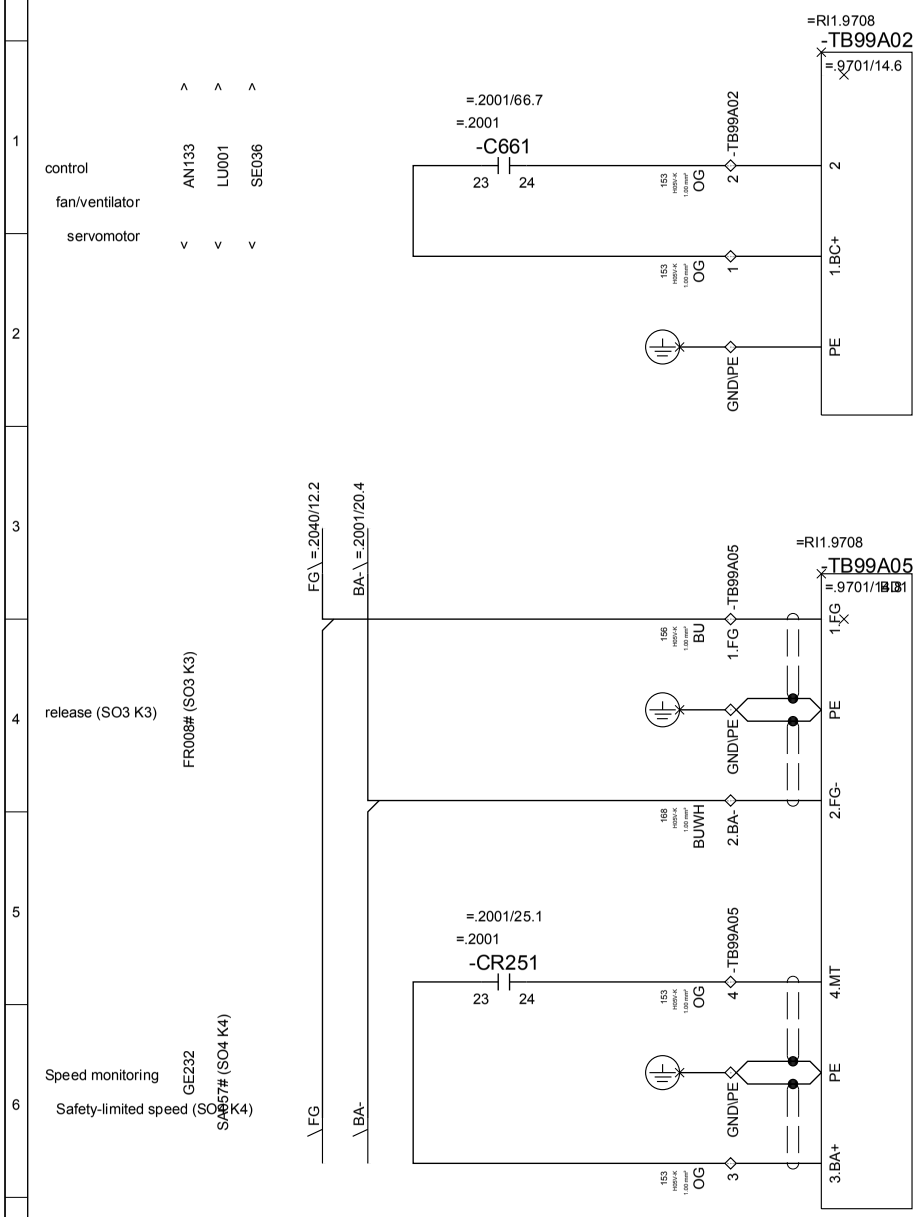


reserve

RE001

SI022
signal transmission

date	23.04.2013	machine type filler	KRONES	rinser	equi. K123989	+SK1	=FU1.9714
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	STR	sheet 11 344/348
		version/ 02		SFT_FUG0_201301 97/01141			



SI022
signal transmission

date	23.04.2013	machine type filler	KRONES	rinser	equi. K123989	+SK1	=FU1.9714
eng.	Krupka						
CAD	Krupka	machine model MODULFILL HRS		client	K123989-001	STR	sheet 15 345/348
				Lagunitas Brewing Company			
		version/ 02		SFT_FUG0_201301 97/01141			

Ethernet
level 3

ET051
LE175# 3

control unit
rinser

ST027
RI009

connection

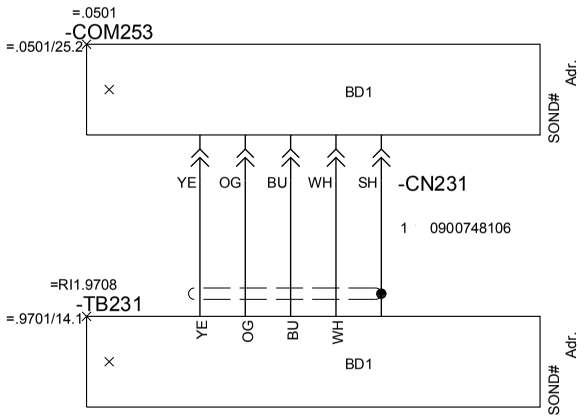
AN125

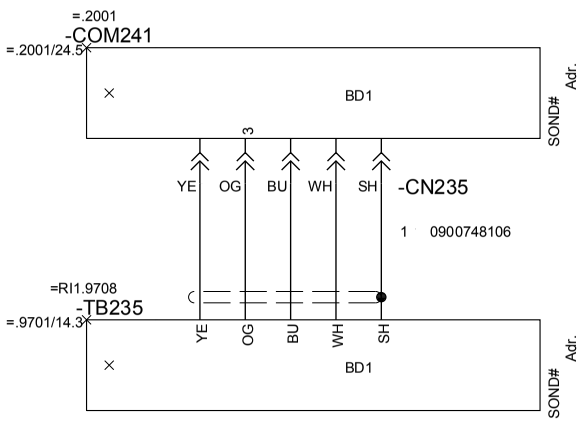
Powerlink

PO502

servo control

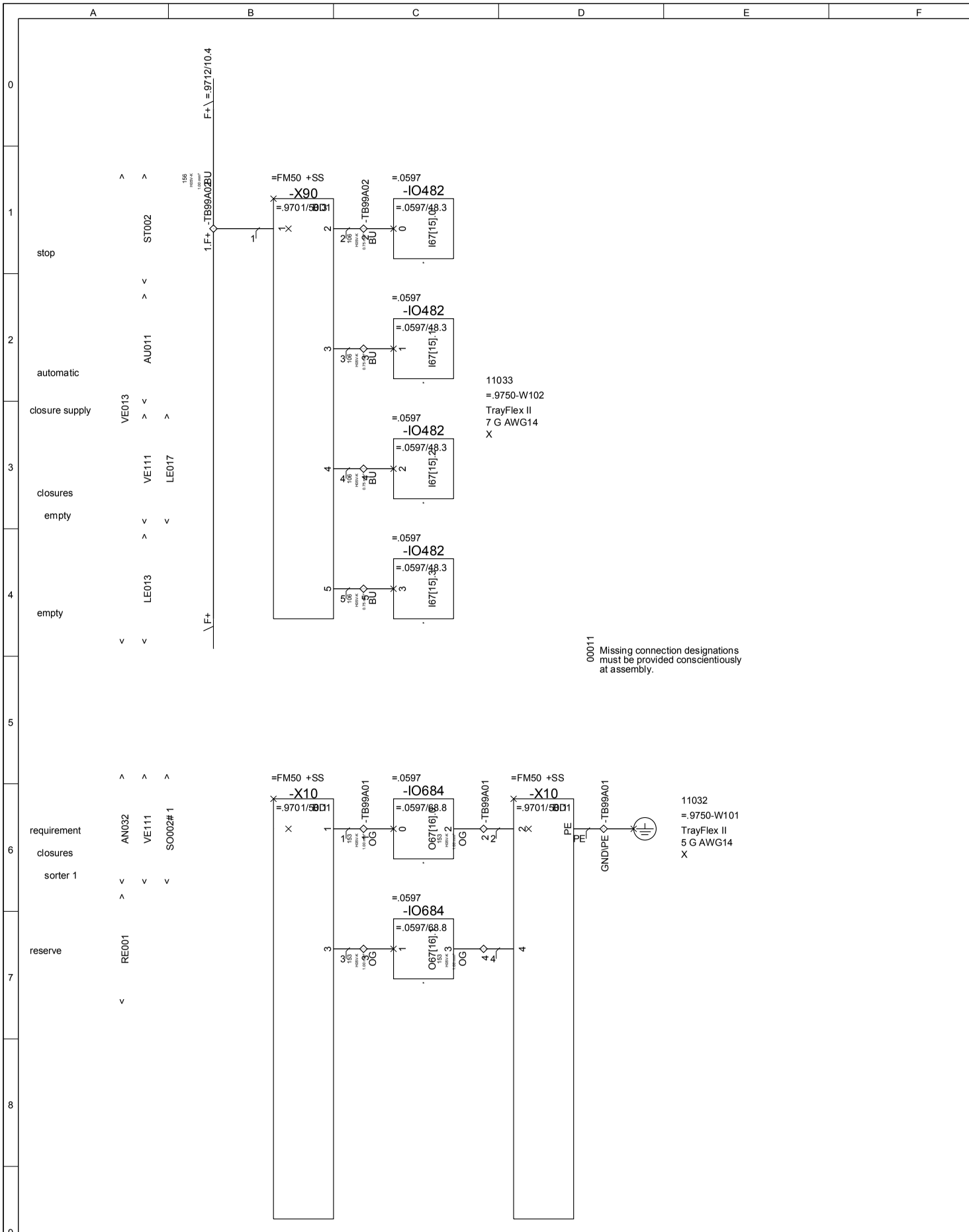
SE035



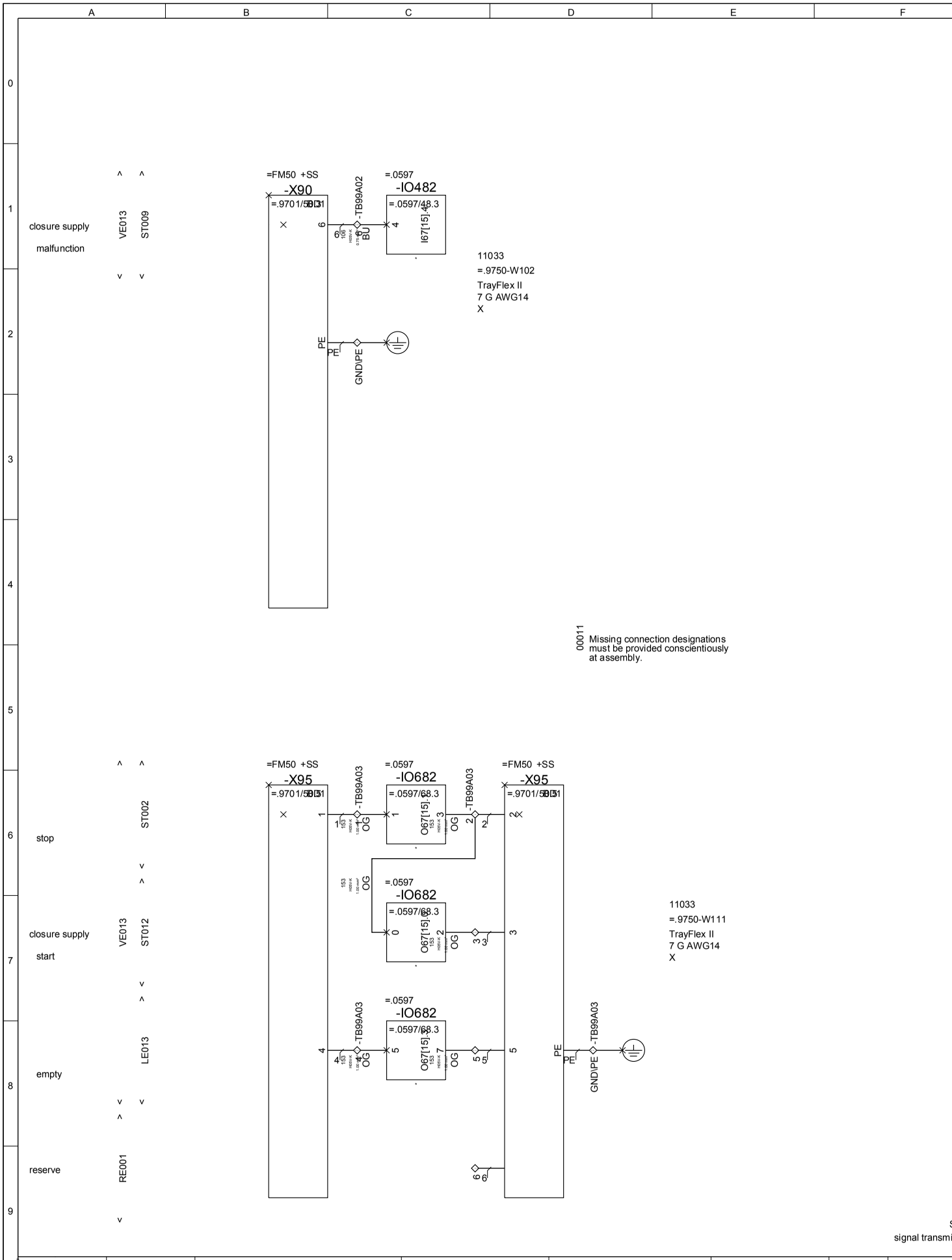


SI022
signal transmission

date	23.04.2013	machine type	filler	connection	equi. K123989	+SK1	=FU1.9714
eng.	Krupka						
CAD	Krupka	machine model	MODULFILL HRS	client	K123989-001	STR	sheet 23 346/348
		version/	02	Lagunitas Brewing Company			
				SFT_FUG0_201301 97/01141			



date	27.08.2013	machine type filler	KRONES	closure supply	equi. K123989	+SK1	=FU1.9750
eng.	Krupka						
CAD	Skala	machine model MODULFILL HRS		client	K123989-001	STR	sheet 10 347/348
		version/ 02		Lagunitas Brewing Company			
				SFT_FUG0_201301 97/01501			


A
B
C
D
E
F
0
1
2
3
4
5
6
7
8
9
closure supply
malfunction
VE013
ST009
=FM50 +SS
-X90
=.9701/5
=.0597
-IO482
=.0597/48.3
-TB99A02
I67[15]
11033
=.9750-W102
TrayFlex II
7 G AWG14
X
PE
GND\PE
00011
Missing connection designations must be provided conscientiously at assembly.
stop
ST002
closure supply
start
VE013
ST012
=FM50 +SS
-X95
=.9701/5
=.0597
-IO682
=.0597/68.3
-TB99A03
O67[15]
OG
11033
=.9750-W111
TrayFlex II
7 G AWG14
X
empty
LE013
reserve
RE001
SI022
signal transmission
date 30.04.2013
eng. Krupka
CAD Krupka
machine type filler
machine model MODULFILL HRS
version/ 02
KRONES
closure supply
client Lagunitas Brewing Company
SFT_FUG0_201301 97/01501
equi. K123989
K123989-001
+SK1
STR
=FU1.9750
sheet 11
348/348

	B	C	D	F
	LIYCY 4x0.5 mm² 0.0 =.5220-W173	JZ-602 7 G AWG12 0.0 =.0101-W181 JZ-602 7 G AWG12 0.0 =.0101-W182 THHN GN 1 X AWG8 0.0 =.0101-W907 JZ-602 7 G AWG14 0.0 =.0301-W721 JZ-602 3 G AWG18 0.0 =.5220-W152 JZ-602 3 G AWG18 0.0 =.5220-W158 JZ-602 4 G AWG20 0.0 =.5240-W161 JZ-602 3 G AWG18 0.0 =.5240-W204	* *
		=FU1.0101 -TB21 +KKN1	
		1 ====== r	
	=FU1.0101 +KKN1 -TB21 GND\PE =FU1.0101 +KKN1 -TB21 GND\PE	2 GND\PE r L R	STR=FU1.0101/90.7
	=FU1.0101 +KKN1 -TB21 GND\PE =FU1.0101 +KKN1 -TB21 GND\PE	3 GND\PE r L R	STR=FU1.0101/90.7
		4 ------ r	
		5 ====== r	
	=FU1.0101 +KKN1 -TB21 GND\PE	6 GND\PE r	=FU1.0101 +SK1 -GND GND\PE GN STR=FU1.0101/90.7
		7 ------ r	
		8 ====== r	
	=FU1.0101 +KKN1 -TB21 GND\PE	9 GND\PE r	STR=FU1.0101/90.7
		10 ------ r	
		=FU1.0101 -TB41 +KKN1	
		1 ====== r	
	=FU1.5205 +KKN1-MS101	12 1.L1K r	=FU1.0101 +SK1 -TB41 1.L1K 1 STR=FU1.0101/18.1 L1K
	=FU1.5205 +KKN1-MS101	33 2.L2K r	=FU1.0101 +SK1 -TB41 2.L2K 2 STR=FU1.0101/18.1 L2K
	=FU1.5205 +KKN1-MS101	54 3.L3K r	=FU1.0101 +SK1 -TB41 3.L3K 3 STR=FU1.0101/18.1 L3K
		5 4 r	=FU1.0101 +SK1 -TB41 4 4 STR=FU1.0101/18.2
		6 5 r	=FU1.0101 +SK1 -TB41 5 5 R
		7 6 r	=FU1.0101 +SK1 -TB41 6 6 R
		8 7 r	=FU1.0101 +SK1 -TB41 7 1 R
		9 8 r	=FU1.0101 +SK1 -TB41 8 2 R
		10 9 r	=FU1.0101 +SK1 -TB41 9 3 R
		11 10 r	=FU1.0101 +SK1 -TB41 10 4 R
	=FU1.5220 +KKN1-CB101	12 11.L1H r	=FU1.0101 +SK1 -TB41 11.L1H 5 STR=FU1.0101/17.2 L1H
	=FU1.5220 +KKN1 -TB40 2.L0H	13 12.L0H r	=FU1.0101 +SK1 -TB41 12.L0H 6 STR=FU1.0101/17.3 L0H
		14 PE r	=FU1.0101 +SK1 -TB41 PE PE R
		15 GND\PE r	=FU1.0101 +SK1 -TB41 GND\PE PE STR=FU1.0101/18.2
		16 ------ r	
		=FU1.0301 -TB52 +KKN1	
		1 ====== r	
	=FU1.5240 +KKN1 -TB52 1.B+/1	12 1.B+/1 r	=FU1.0301 +SK1 -TB59A30 1.B+ 1 STR=FU1.0301/72.1 B+
	=FU1.5240 +KKN1 -TB52 1.B-/2	23 1.B-/2 r	=FU1.0301 +SK1 -TB59A30 2.B- 2 STR=FU1.0301/72.1 B-
	=FU1.0507 +KKN1-COM012 6/V+	41 2.V+/1 r	=FU1.0301 +SK1 -TB59A30 3.V+ 3 STR=FU1.0301/72.2 V+
	=FU1.0507 +KKN1-COM012 4/C-	52 2.V-/2 r	=FU1.0301 +SK1 -TB59A30 4.V- 4 STR=FU1.0301/72.2 V-
	=FU1.0507 +KKN1-CN151 6	63 3.V1+/1 r	=FU1.0301 +SK1 -TB59A30 5.V1+ 5 STR=FU1.0301/72.2 V1+
		7 3/2 r	=FU1.0301 +SK1 -TB59A30 6 6 STR=FU1.0301/72.2
		8 GND\PE r	=FU1.0301 +SK1 -TB59A30 GND\PE PE STR=FU1.0301/72.3
		9 r	
		10 ------ r	
		=FU1.0507 -TB52 +KKN1	
		1 ====== r	
	=FU1.0507 +KKN1-COM012 2/GND	21 GND\PE r	STR=FU1.0507/01.3
		3 r	
	=FU1.0507 +KKN1-CN151 2	41 GND\PE r	STR=FU1.0507/15.2
		5 GND\PE r	=FU1.5220 +KN1 -CN158 PE PE STR=FU1.5220/15.5
		6 GND\PE r	=FU1.5220 +KN1 -CN152 PE PE STR=FU1.5220/15.7
		7 GND\PE r	=FU1.5240 +KN1 -P161 / PE STR=FU1.5240/16.2
		8 GND\PE r	=FU1.5240 +KN1 -CN204 PE PE STR=FU1.5240/20.7
		9 r	
		10 ------ r	
		=FU1.0507 -TB82 +KKN1	
SH	=FU1.0507 +KKN1 -IO812 /	1 SH r	STR=FU1.5220/17.2

date	29.08.2013	machine type filler	KRONES	terminal strip +KKN1	equi. K123989	+KKN1	KKN1
eng.	Krupka						
CAD	Skala	machine model MODULFILL HRS		client	K123989-001	VBV	sheet 01 1/56
				Lagunitas Brewing Company			
		version/ 02					999

Cable		
JZ-602 5 G AWG14	0.0	=.9901-W1001
LIYCY 4x0.5 mm²	0.0	=.5205-W111
Konf.Ltg.F1 SH 7x0.0 mm²	0.0	=.5205-P111
JZ-602 4 G AWG14	0.0	=.5205-W101
Silflex 3x1.5 mm²	0.0	=.5220-W101
Konf.Ltg.Z 2x0.0 mm²	0.0	=.5240-SOL202
Konf.Ltg.Z PE 3x0.0 mm²	0.0	=.5240-SOL203
JZ-602 3 G AWG16	0.0	=.5240-W121
Konf.Ltg.F2 4x0.0 mm²	0.0	=.5240-W164

=FU1.5205
-TB40 +KKN1

Core	Source	Terminal	Designation	Destination	Core	Reference
		1	======			
		2	GND\PE	=FU1.5205 +KN1 -MTR101 PE	PE	STR=FU1.5205/10.0
		3	------			

=FU1.5205
-TB82 +KKN1

Core	Source	Terminal	Designation	Destination	Core	Reference
		1	======			
YE	=FU1.0507 +KKN1 -IO812 02	2	1/1	=FU1.5205 +ALM1 -P111	YE	STR=FU1.5205/11.4
		3	1/2	=FU1.5205 +ALM1 -P111	PK	STR=FU1.5205/11.3
GN	=FU1.0507 +KKN1 -IO812 44	4	2/1	=FU1.5205 +ALM1 -P111	GN	STR=FU1.5205/11.4
		5	2/2	=FU1.5205 +ALM1 -P111	GY	STR=FU1.5205/11.3
BN	=FU1.0507 +KKN1 -IO812 66	6	3/1	=FU1.5205 +ALM1 -P111	BN	STR=FU1.5205/11.5
		7	3/2	=FU1.5205 +ALM1 -P111	BU	STR=FU1.5205/11.3
		8	4/1			
WH	=FU1.0507 +KKN1 -IO812 89	9	4/2	=FU1.5205 +ALM1 -P111	WH	STR=FU1.5205/11.4
		10	------			
		11	SH	=FU1.5205 +ALM1 -P111	SH	STR=FU1.5205/11.5
SH	=FU1.0507 +KKN1 -IO812 _/_	12	SH			STR=FU1.5205/11.3

=FU1.5220
-TB40 +KKN1

Core	Source	Terminal	Designation	Destination	Core	Reference
		1	======			
	=FU1.5220 +KKN1-SSR101 2(T)	2	1	=FU1.5220 +KN1 -HTR101 L	BN	STR=FU1.5220/10.1
	=FU1.0101 +KKN1 -TB41 12.L0H =FU1.5240 +KKN1 -TB40 2.L0H	3 L	2.L0H	=FU1.5220 +KN1 -HTR101 N R	BU	STR=FU1.5220/10.2 L0H
	=FU1.5220 +KKN1-SSR101 PE	4	GND\PE			STR=FU1.5220/10.7
		5	GND\PE	=FU1.5220 +KN1 -HTR101 PE	GNYE	STR=FU1.5220/10.2
		6	------			

=FU1.5240
-TB40 +KKN1

Core	Source	Terminal	Designation	Destination	Core	Reference
		1	======			
	=FU1.5240 +KKN1 -RC121 2 =FU1.5240 +KKN1 -C121 2	2 L	1	=FU1.5240 +KN1 -CN121 1 R	1	STR=FU1.5240/12.1
	=FU1.5240 +KKN1 -RC121 =FU1.5220 +KKN1 -TB40 2.L0H	3 L C	2.L0H	=FU1.5240 +KN1 -CN121 2 R c	2	STR=FU1.5240/12.2 L0H
		4	GND\PE	=FU1.5240 +KN1 -CN121 GND\PE	PE	STR=FU1.5240/12.2
		5	------			

=FU1.5240
-TB52 +KKN1

Core	Source	Terminal	Designation	Destination	Core	Reference
		1	======			
	=FU1.0301 +KKN1 -TB52 1.B+/1	2	1.B+/1	=FU1.5240 +KN1 -P164	BN	STR=FU1.5240/16.6 B+
	=FU1.0301 +KKN1 -TB52 1.B-/2	3	1.B-/2	=FU1.5240 +KN1 -P164	BU	STR=FU1.5240/16.6 B-
		4	2/1	=FU1.5240 +KN1 -P164	WH	STR=FU1.5240/16.7
1	=FU1.9901 +SK1-TB59A30 15	5	2/2	=FU1.5240 +KN1 -P164	BK	STR=FU1.5240/16.7
2	=FU1.9901 +SK1-TB59A30 26	6	3/1	=FU1.5240 +KN1 -SOL202	2	STR=FU1.5240/20.2
		7	3.B-/2	=FU1.5240 +KN1 -SOL202	1	STR=FU1.5240/20.2 B-
3	=FU1.9901 +SK1-TB59A30 38	8	4/1	=FU1.5240 +KN1 -SOL203	2	STR=FU1.5240/20.4
		9	4.B-/2	=FU1.5240 +KN1 -SOL203	1	STR=FU1.5240/20.4 B-
4	=FU1.9901 +SK1-TB59A30 4	10	5/1			R
		11	5/2			
PE	=FU1.9901 +SK1-TB59A30 PE	12	PE			R
		13				
		14	GND\PE	=FU1.5240 +KN1 -SOL203 _/_	PE	STR=FU1.5240/20.4
		15				
		16	------			

date	29.08.2013	machine type filler	KRONES	terminal strip +KKN1	equi. K123989	+KKN1	KKN1
eng.	Krupka	machine model MODULFILL HRS		client	K123989-001	VBV	sheet 02 2/56
CAD	Skala	version/ 02		Lagunitas Brewing Company			999

Cable no.	Cable type	Cross-section	Cable
21	LIY-CY 2x0.5 mm²	0.0	=.5220-W177
20	Konf.Ltg.F3 SH 8x0.0 mm²	0.0	=.5220-W175
1	THHN GN 1 X AWG8	0.0	=.0101-W906
2	TrayFlex II 7 G AWG14	0.0	=.0301-W671
3	JZ-602 3 G AWG18	0.0	=.5220-W156
4	Konf.Ltg.F3 SH 8x0.0 mm²	0.0	=.5220-W175
5	LIY-CY 2x0.5 mm²	0.0	=.5220-W177
6	LIYCY 4x0.5 mm²	0.0	=.7501-W100
7	JZ-602 4 G AWG18	0.0	=.7501-W131
8	LIYCY 4x0.5 mm²	0.0	=.7601-W200
9	LIYCY 4x0.5 mm²	0.0	=.7601-W201

=FU1.0101 -TB21 +KPV1

Internal target	Terminal	Designation	External target	Wire	Reference
	1	======			
	2	GND\PE	=FU1.0101 +KPV1 -TB21 GND\PE		STR=FU1.0101/90.6
	3	GND\PE	=FU1.0101 +SK1 -GND GND\PE	GN	STR=FU1.0101/90.6
=FU1.0101 +KPV1 -TB21 GND\PE	4	GND\PE			STR=FU1.0101/90.6

=FU1.0301 -TB51 +KPV1

Internal target	Terminal	Designation	External target	Wire	Reference
	1	======			
	2	1	=FU1.0301 +SK1 -TB59A20 1	1	STR=FU1.0301/67.1 AL+
	3	2	=FU1.0301 +SK1 -TB59A20 2	2	STR=FU1.0301/67.1 AL-
=FU1.0506 +KPV1-COM012 6/V	4	3.AM+	=FU1.0301 +SK1 -TB59A20 3.AM+	3	STR=FU1.0301/67.2AM+
=FU1.0506 +KPV1-COM012 4/C	5	4.AM-	=FU1.0301 +SK1 -TB59A20 4.AM-	4	STR=FU1.0301/67.2 AM-
=FU1.0506 +KPV1 -CN151 6 / =FU1.5220 +KPV1 -TB51 1.AN+	6	5.AN+	=FU1.0301 +SK1 -TB59A20 5.AN+	5	STR=FU1.0301/67.2AN+
=FU1.0506 +KPV1 -CN151 4 / =FU1.5220 +KPV1 -TB51 2.AN-	7	6.AN-	=FU1.0301 +SK1 -TB59A20 6.AN-	6	STR=FU1.0301/67.2 AN-
	8	GND\PE	=FU1.0301 +SK1 -TB59A20 GND\PE	PE	STR=FU1.0301/67.3
	9	------			

=FU1.0506 -TB51 +KPV1

Internal target	Terminal	Designation	External target	Wire	Reference
	1	======			
=FU1.0506 +KPV1-COM012 2/GND	2	GND\PE			STR=FU1.0506/01.3
=FU1.0506 +KPV1-PSU111 23	3	GND\PE			STR=FU1.0506/11.2
=FU1.0506 +KPV1 -CN151 24	4	GND\PE			STR=FU1.0506/15.2
	5	GND\PE	=FU1.5220 +PV1 -CN156 _/_	PE	STR=FU1.5220/15.3
	6	GND\PE	=FU1.7501 +PV1 -SS131 _/_	PE	STR=FU1.7501/13.2
	7	------			

=FU1.0506 -TB81 +KPV1

Internal target	Terminal	Designation	External target	Wire	Reference
	1	SH	=FU1.7601 +PV1 -SOL200 SH	SH	STR=FU1.7601/20.1
	2	SH	=FU1.7601 +PV1 -SOL201 SH	SH	STR=FU1.7601/20.5

=FU1.5220 -TB51 +KPV1

Internal target	Terminal	Designation	External target	Wire	Reference
	1	======			
=FU1.0301 +KPV1 -TB51 5.AN+	2	1.AN+	=FU1.5220 +KPV1 -SOL175 2	BN	STR=FU1.5220/17.6AN+
=FU1.0301 +KPV1 -TB51 6.AN-	3	2.AN-	=FU1.5220 +KPV1 -SOL175 7	BU	STR=FU1.5220/17.6 AN-
	4	3	=FU1.5220 +KPV1 -SOL175 1	WH	STR=FU1.5220/17.6
	5	4	=FU1.5220 +KPV1 -SOL175 5	GY	STR=FU1.5220/17.7
WH =FU1.0506 +KPV1 -IO864 16	6	5	=FU1.5220 +KPV1 -SOL175 4	YE	STR=FU1.5220/17.8
BN =FU1.0506 +KPV1 -IO864 57	7	6	=FU1.5220 +KPV1 -SOL175 3	GN	STR=FU1.5220/17.8
	8	7	=FU1.5220 +KPV1 -SOL175 6	PK	STR=FU1.5220/17.8
	9	8	=FU1.5220 +KPV1 -SOL175 8	RD	STR=FU1.5220/17.9
	10	------			
	11	SH	=FU1.0506 +KPV1 -IO864 _/_	SH	STR=FU1.5220/17.7
SH =FU1.5220 +KPV1-SOL175 _/_	12	SH			STR=FU1.5220/17.9

=FU1.7501 -TB81 +KPV1

Internal target	Terminal	Designation	External target	Wire	Reference
	1	SH	=FU1.7501 +PV1 -SOL100 SH	SH	STR=FU1.7501/10.5

date	29.08.2013	machine type	filler	terminal strip +KPV1	equi. K123989 / +KPV1 / KPV1
eng.	Krupka	machine model	MODULFILL HRS	client	K123989-001 / VBV / sheet 01
CAD	Skala	version/	02	Lagunitas Brewing Company	3/56

KRONES

999

Cable	Type	mm²	No.
Konf.Ltg.F1 10x0.0 mm²	0.0	=.8060-W011	23
Konf.Ltg.F1 SH 7x0.0 mm²	0.0	=.7501-P152	22
Konf.Ltg.F1 SH 7x0.0 mm²	0.0	=.7501-P151	21
Konf.Ltg.F1 SH 7x0.0 mm²	0.0	=.2101-P111	20
Konf.Ltg.Z PE 3x0.0 mm²	0.0	=.0301-W701a	1
Konf.Ltg.Z PE 3x0.0 mm²	0.0	=.0301-W701b	2
Konf.Ltg.F12 SH 2x0.0 mm²	0.0	=.0301-W701f	3
Konf.Ltg.F3 2x0.0 mm²	0.0	=.0301-W701g	4
Konf.Ltg.F1 SH 7x0.0 mm²	0.0	=.2101-P111	5
LIY-CY 2x0.5 mm²	0.0	=.7001-W101	6
Konf.Ltg.F1 SH 7x0.0 mm²	0.0	=.7501-P151	7
Konf.Ltg.F1 SH 7x0.0 mm²	0.0	=.7501-P152	8
Konf.Ltg.F2 4x0.0 mm²	0.0	=.7601-W120	9
Konf.Ltg.F4 SH 6x0.0 mm²	0.0	=.9209-P/I140	10

=FU1.0301 -TB52 +KR1

Internal target	Terminal	Designation	External target	Core	Reference
	1	======			
	2	1/1	=FU1.0301 +FKA1 -W701	WH	STR=FU1.0301/70.7
	3	1/2	=FU1.0301 +FKA1 -W701	BN	STR=FU1.0301/70.7
	4	2/1	=FU1.0301 +FKA1 -W701	BN	STR=FU1.0301/70.8
	5	2/2	=FU1.0301 +FKA1 -W701	BU	STR=FU1.0301/70.8
	6	------			
	7	SH	=FU1.0301 +FKA1 -W701	SH	STR=FU1.0301/70.7

=FU1.0301 -TB62 +KR1

Internal target	Terminal	Designation	External target	Core	Reference
	1	======			
=FU1.6302 +KR1 -CB201 12	2	1.S+	=FU1.0301 +FKA1 -W701	1	STR=FU1.0301/70.2 S+
=FU1.6302 +KR1 -TB53V1 1.EA-/3	3	2.S-	=FU1.0301 +FKA1 -W701	2	STR=FU1.0301/70.2 S-
	4	3	=FU1.0301 +FKA1 -W701	1	STR=FU1.0301/70.3
	5	4	=FU1.0301 +FKA1 -W701	2	STR=FU1.0301/70.3
=FU1.0301 +KR1 -TB62 GND\PE	6	GND\PE	=FU1.0301 +FKA1 -W701	PE	STR=FU1.0301/70.3 GND\PE
=FU1.0301 +KR1 -TB62 GND\PE	7	GND\PE	=FU1.0301 +FKA1 -W701	PE	STR=FU1.0301/70.2 GND\PE
	8	------			

=FU1.0520 -TB72 +KR1

Internal target	Terminal	Designation	External target	Core	Reference
	1	======			
=FU1.6302 +KR1 -TB53V1 6.EM+/2 =FU1.0520 +KR1-PMCS302 25	2	1.EM+/1			STR=FU1.0520/30.7EM+
=FU1.0520 +KR1-PMCS302 26 =FU1.6302 +KR1 -TB53V1 6.EM-/3	3	1.EM-/2			STR=FU1.0520/30.7 EM-
	4	2.EM+/1			STR=FU1.2101/11.1EM+
=FU1.0520 +KR1 -IO454 265	5	2.EM-/2			STR=FU1.2101/11.1 EM-
=FU1.0520 +KR1 -IO454 246	6	3/1	=FU1.2101 +FKA1 -P111	YE	STR=FU1.2101/11.3
WH =FU1.2101 +FKA1 -P111	7	3.EM-/2	=FU1.2101 +FKA1 -P111 =FU1.2101 +FKA1 -P111	GN GY	STR=FU1.2101/11.3 EM-
=FU1.6302 +KR1 -CB201 138	8	4.EM+/1	=FU1.2101 +FKA1 -P111	BN	STR=FU1.2101/11.3EM+
	9	4.EM-/2	=FU1.2101 +FKA1 -P111 =FU1.2101 +FKA1 -P111	BU PK	STR=FU1.2101/11.4 EM-
=FU1.6302 +KR1 -CB201 13	10	5.EM+/1	=FU1.7001 +FKA1 -B101 +	BN	STR=FU1.7001/10.2EM+
=FU1.0520 +KR1 -IO454 13	11	5.EM-/2			STR=FU1.7001/10.2 EM-
	12	6.EM+/1			STR=FU1.7501/15.1EM+
=FU1.0520 +KR1 -IO452 13	13	6.EM-/2			STR=FU1.7501/15.1 EM-
=FU1.0520 +KR1 -IO452 11	14	7/1	=FU1.7501 +FKA1 -P151	YE	STR=FU1.7501/15.3
WH =FU1.7501 +FKA1 -P151	15	7.EM-/2	=FU1.7501 +FKA1 -P151 =FU1.7501 +FKA1 -P151	GN GY	STR=FU1.7501/15.3 EM-
	16	8.EM+/1	=FU1.7501 +FKA1 -P151	BN	STR=FU1.7501/15.3EM+
	17	8.EM-/2	=FU1.7501 +FKA1 -P151 =FU1.7501 +FKA1 -P151	BU PK	STR=FU1.7501/15.4 EM-
	18	9.EM+/1			STR=FU1.7501/15.5EM+
=FU1.0520 +KR1 -IO452 23	19	9.EM-/2			STR=FU1.7501/15.5 EM-
=FU1.0520 +KR1 -IO452 2	20	10/1	=FU1.7501 +FKA1 -P152	YE	STR=FU1.7501/15.6
WH =FU1.7501 +FKA1 -P152	21	10.EM-/2	=FU1.7501 +FKA1 -P152 =FU1.7501 +FKA1 -P152	GY GN	STR=FU1.7501/15.7 EM-
	22	11.EM+/1	=FU1.7501 +FKA1 -P152	BN	STR=FU1.7501/15.7EM+
	23	11.EM-/2	=FU1.7501 +FKA1 -P152 =FU1.7501 +FKA1 -P152	BU PK	STR=FU1.7501/15.8 EM-
	24	12.EM+/1	=FU1.7601 +FKA1 -PI120 1	BN	STR=FU1.7601/12.2EM+
=FU1.0520 +KR1 -IO454 23	25	12.EM-/2			STR=FU1.7601/12.2 EM-
=FU1.0520 +KR1 -IO454 2	26	13/1	=FU1.7601 +FKA1 -PI120 3	BU	STR=FU1.7601/12.2
BK =FU1.8060 +KR1 -IO012 9	27	13.EM-/2			STR=FU1.8060/01.1 EM-
	28	14.EM+/1	=FU1.9209 +FKA1 -PI140 +	BN	STR=FU1.9209/14.7EM+
=FU1.0520 +KR1 -IO454 16	29	14.EM-/2			STR=FU1.9209/14.7 EM-
	30	------			

date	29.08.2013	machine type	filler	terminal strip +KR1	equi. K123989 +KR1 KR1
eng.	Krupka				
CAD	Skala	machine model	MODULFILL HRS	client	K123989-001 VBV sheet 01
		version/	02	Lagunitas Brewing Company	4/56

KRONES

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Cable		Target
JZ-602 5 G AWG16	0.0	=.6302-W211
JZ-602 5 G AWG16	0.0	=.6302-W201
Konf.Ltg.Z PE SH 5x0.0 mm²	0.0	=.0301-W701c
Konf.Ltg.Z PE SH 5x0.0 mm²	0.0	=.0301-W701c
Konf.Ltg.F1 SH 7x0.0 mm²	0.0	=.2101-P111
JZ-602 4 G AWG14	0.0	=.2101-W101
LIY-CY 2x0.5 mm²	0.0	=.7001-W101
Konf.Ltg.F1 SH 7x0.0 mm²	0.0	=.7501-P151
Konf.Ltg.F1 SH 7x0.0 mm²	0.0	=.7501-P152
Konf.Ltg.F4 SH 6x0.0 mm²	0.0	=.9209-P/I140

=FU1.0520 -TB82 +KR1

Terminal	Designation		Destination			Core	STR
1	SH	r	=FU1.2101	+FKA1 -P111		SH	STR=FU1.2101/11.4
2	SH	r	=FU1.7001	+FKA1 -B101		SH	STR=FU1.7001/10.3
3	SH	r	=FU1.7501	+FKA1 -P151		SH	STR=FU1.7501/15.4
4	SH	r	=FU1.7501	+FKA1 -P152		SH	STR=FU1.7501/15.8
5	======	r					
6	GND\PE	r	=FU1.9209	+FKA1 -PI140	SH	SH	STR=FU1.9209/14.7
7		r					
8	------	r					

=FU1.2101 -TB40 +KR1

Core	Source		Terminal	Designation		Destination			Core	STR
			1	======	r					
1	=FU1.0301	+FKA1 -W701	2	1	r	=FU1.2101	+FKA1 -MTR101	U	1	STR=FU1.2101/10.1
2	=FU1.0301	+FKA1 -W701	3	2	r	=FU1.2101	+FKA1 -MTR101	V	2	STR=FU1.2101/10.1
3	=FU1.0301	+FKA1 -W701	4	3	r	=FU1.2101	+FKA1 -MTR101	W	3	STR=FU1.2101/10.1
4	=FU1.0301	+FKA1 -W701	5	4	r					STR=FU1.2101/10.2
PE	=FU1.0301	+FKA1 -W701	6	GND\PE	r	=FU1.2101	+FKA1 -MTR101	PE	PE	STR=FU1.2101/10.0
			7	------	r					
			8	SH	r	=FU1.0301	+FKA1 -W701		SH	STR=FU1.2101/10.1

=FU1.6302 -TB53V1 +KR1

Core	Source			Terminal	Designation		Destination			STR
				1	======	r				
PE	=FU1.6401	+KR1 -CV401	12	1	GND\PE/1	r				STR=FU1.6302/20.4 GND\PE
1	=FU1.6401	+KR1 -CV401	23	2	1.EA+/2	r	=FU1.6302	+KR1 -CB201	2	STR=FU1.6302/20.1 EA+
2	=FU1.6401 =FU1.0301	+KR1 -CV401 +KR1 -TB62	34 2.S- L	3	1.EA-/3	r R				STR=FU1.6302/20.3 S-
			5	2	GND\PE/1	r				STR=FU1.6302/20.8
3	=FU1.6401	+KR1 -CV401	46	4	2.VA+/2	r	=FU1.6302	+KR1 -CB202	2	STR=FU1.6302/20.5 VA+
4	=FU1.6401	+KR1 -CV401	57	5	2.VA-/3	r				STR=FU1.6302/20.7 S-
PE	=FU1.6401	+KR1 -CV411	18	6	3.GND\PE/1	r				STR=FU1.6302/21.4 GND\PE
1	=FU1.6401	+KR1 -CV411	29	7	3.EB+/2	r	=FU1.6302	+KR1 -CB211	2	STR=FU1.6302/21.1 EB+
2	=FU1.6401	+KR1 -CV411	30	8	3.EB-/3	r				STR=FU1.6302/21.3 S-
			1	9	4.GND\PE/1	r				STR=FU1.6302/21.8
3	=FU1.6401	+KR1 -CV411	42	10	4.VB+/2	r	=FU1.6302	+KR1 -CB212	2	STR=FU1.6302/21.5 VB+
4	=FU1.6401	+KR1 -CV411	53	11	4.VB-/3	r				STR=FU1.6302/21.7 S-
	=FU1.6302	+KR1 -TB53V1	6.GND\PE/1	14	5.GND\PE/1	r				STR=FU1.6302/32.4
	=FU1.6302 =FU1.6302	+KR1 -CB321 +KR1 -TB53V1 6.EM+/2	2 L	15	5.EM+/2	r R	=FU1.6302	+KR1 -K411	1	STR=FU1.6302/32.1
	=FU1.6302	+KR1 -K411	3	16	5.EM-/3	r				STR=FU1.6302/32.3 S-
	=FU1.6302	+KR1 -TB53V1	5.GND\PE/1	17	6.GND\PE/1	r				STR=FU1.6302/32.4
	=FU1.6302 =FU1.0520	+KR1 -TB53V1 5.EM+/2 +KR1 -TB72 1.EM+/1	4 L	18	6.EM+/2	r R				STR=FU1.6302/32.1
	=FU1.0520	+KR1 -TB72	1.EM-/2	19	6.EM-/3	r				STR=FU1.6302/32.3 S-
				20	------	r				

date	29.08.2013	machine type	filler	terminal strip +KR1	equi. K123989	+KR1	KR1
eng.	Krupka	machine model	MODULFILL HRS	client	K123989-001	VBV	sheet 02
CAD	Skala	version/	02	Lagunitas Brewing Company			5/56

KRONES

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		B	C	D	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	F
					JZ-602 5 G AWG14 0.0	JZ-602 5 G AWG14 0.0	THHN GN 1 X AWG4 0.0	THHN GN 1 X AWG4 0.0	THHN GN 1 X AWG6 0.0	THHN GN 1 X AWG8 0.0	THHN GN 1 X AWG6 0.0	THHN GN 1 X AWG8 0.0	THHN GN 1 X AWG8 0.0											* *
					=0101-W221	=0101-W222	=0101-W901	=0101-W902	=0101-W903	=0101-W904	=0101-W905	=0101-W906	=0101-W907											
0			* =FU1.0101 -GND +SK1																					
1																								
2			1 GND\PE r																					STR=FU1.0101/GND\PE
			2 GND\PE r	=FU1.0101 +SK1 -T151 0V																				STR=FU1.0101/15.3 L0B
			3 GND\PE r	=FU1.0101 +SK1 -T151 PE																				STR=FU1.0101/15.3
			4 GND\PE r	=FU1.0101 +SK1 -T171 0V																				STR=FU1.0101/17.3 L0H
			5 GND\PE r	=FU1.0101 +SK1 -T171 PE																				STR=FU1.0101/17.3
			6 GND\PE r	=FU1.0301 +SK1 -TB67 2.GND\PE																				STR=FU1.0301/10.1 -
			7 GND\PE r	=FU1.0301 +SK1 -PSU101 PE																				STR=FU1.0301/10.3
			8 GND\PE r	=FU1.0301 +SK1 -TB68\21GND\PE																				STR=FU1.0301/11.1 -
			9 GND\PE r	=FU1.0301 +SK1 -PSU111 PE																				STR=FU1.0301/11.3
			10 GND\PE r	=FU1.0301 +SK1 -TB62 GND\PE																				STR=FU1.0301/70.2
			11 GND\PE r	=FU1.0302 +SK1 -TB67 3.-																				STR=FU1.0302/10.2 -
			12 GND\PE r	=FU1.0501 +SK1 -PSU011 PE																				STR=FU1.0501/01.2
			13 GND\PE r	=FU1.0501 +SK1 -IO011 PE																				STR=FU1.0501/01.5
			14 GND\PE r	=FU1.0501 +SK1 -COM233 1																				STR=FU1.0501/23.3
			15 GND\PE r	=FU1.0501 +SK1 -COM243 1																				STR=FU1.0501/24.3
			16 GND\PE r	=FU1.0501 +SK1 -COM253 1																				STR=FU1.0501/25.3
			17 GND\PE r	=FU1.0502 +SK1 -COM012 2/GND																				STR=FU1.0502/01.3
			18 GND\PE r	=FU1.0502 +SK1 -PSU111 2																				STR=FU1.0502/11.2
			19 GND\PE r	=FU1.0502 +SK1 -CN151 2																				STR=FU1.0502/15.2
			20 GND\PE r	=FU1.0503 +SK1 -COM012 2/GND																				STR=FU1.0503/01.3
			21 GND\PE r	=FU1.0503 +SK1 -COM052 2/GND																				STR=FU1.0503/05.3
			22 GND\PE r	=FU1.0503 +SK1 -PSU111 2																				STR=FU1.0503/11.2
			23 GND\PE r	=FU1.0503 +SK1 -PSU131 2																				STR=FU1.0503/13.2
			24 GND\PE r	=FU1.0597 +SK1 -COM012 2/GND																				STR=FU1.0597/01.3
			25 GND\PE r	=FU1.0597 +SK1 -CN151 2																				STR=FU1.0597/15.2
			26 GND\PE r	=FU1.0601 +SK1 -COM102 PE																				STR=FU1.0601/10.7
			27 GND\PE r	=FU1.0901 +SK1 -MMI103 PE																				STR=FU1.0901/10.5
			28 GND\PE r	=FU1.0901 +SK1 -MMI103 PE																				STR=FU1.0901/10.6
			29 GND\PE r	=FU1.2001 +SK1 -COM241 PE																				STR=FU1.2001/24.7
			30 GND\PE r	=FU1.2001 +SK1 -LR311 X1.PE																				STR=FU1.2001/31.2
			31 GND\PE r	=FU1.2001 +SK1 -LR311 PE																				STR=FU1.2001/31.2
			32 GND\PE r	=FU1.2001 +SK1 -PSU311 PE																				STR=FU1.2001/31.2
			33 GND\PE r	=FU1.2001 +SK1 -THRL311 PE																				STR=FU1.2001/31.3
			34 GND\PE r	=FU1.4101 +SK1 -AFD101 PE																				STR=FU1.4101/10.1
			35 GND\PE r	=FU1.4101 +SK1 -LR101 PE																				STR=FU1.4101/10.3
			36 GND\PE r	=FU1.5240 +SK1 -AFD101 PE																				STR=FU1.5240/10.1
			37 GND\PE r	=FU1.0101 +SK1 -GND901			GN																	STR=FU1.0101/90.1
			38 GND\PE r	=FU1.0101 +SK1 -GND902				GN																STR=FU1.0101/90.2
			39 GND\PE r	=FU1.0101 +SK1 -GND903					GN															STR=FU1.0101/90.3
			40 GND\PE r	=FU1.0901 +KK1 -MMI102						GN														STR=FU1.0101/90.4
			41 GND\PE r	=FU1.0101 +FKA1 -GND905							GN													STR=FU1.0101/90.5
			42 GND\PE r	=FU1.0101 +KPV1 -TB21 GND\PE								GN												STR=FU1.0101/90.6
			43 GND\PE r	=FU1.0101 +KKN1 -TB21 GND\PE									GN											STR=FU1.0101/90.7
			44 GND\PE r	=FU1.5240 +SK1 -LR101 PE																				STR=FU1.5240/10.3
6																								
			* =FU1.0101 -TB40 +SK1																					
7			1 ====== r																					
		=FU1.0101 +SK1 -C221 22	1	r	=FU1.0101 +SK1 -F221 A1	1																		STR=FU1.0101/22.1
			3	2 r	=FU1.0101 +SK1 -F222 A1		1																	STR=FU1.0101/22.2
		=FU1.0104 +SK1 -TB10 5.L0A	3.L0A	r	=FU1.0101 +SK1 -F221 A2	2																		STR=FU1.0101/22.1 L0A
		=FU1.0201 +SK1 -TB40 2.L0A	4.L0A	r	=FU1.0101 +SK1 -F222 A2		2																	STR=FU1.0101/22.2 L0A
			6 GND\PE r	=FU1.0101 +SK1 -F222 _/_			PE																	STR=FU1.0101/22.4
			7 GND\PE r	=FU1.0101 +SK1 -F221 _/_	PE																			STR=FU1.0101/22.3
			8 ------ r																					
8																								
9			*																					

date	29.08.2013	machine type filler	KRONES	terminal strip +SK1	equi. K123989	+SK1	SK1
eng.	Krupka						
CAD	Skala	machine model MODULFILL HRS		client	K123989-001	VBV	sheet 01 6/56
				Lagunitas Brewing Company			
		version/ 02					999

	B	C	D	1	2	3	4	5	6	7	8	F
				JZ-602 7 G AWG12 0.0	JZ-602 7 G AWG12 0.0	JZ-602 5 G AWG14 0.0	JZ-602 5 G AWG14 0.0	Konf.Ltg.Z 2x0.0 mm² 0.0	Konf.Ltg.Z 2x0.0 mm² 0.0	Konf.Ltg.Z PE 7x0.0 mm² 0.0	Oelflex 191 3x2.5 mm² 0.0	* *
				=.0101-W181	=.0101-W182	=.0101-W221	=.0101-W222	=.0201-W101	=.0201-W102	=.0201-W151	=.0201-W251	
		*										
		=FU1.0101 -TB41 +SK1										
		1 ====== r										
	=FU1.0101 +SK1 -F181	2 1.L1K r	=FU1.0101 +KKN1 -TB41 1.L1K	1								STR=FU1.0101/18.1 L1K
	=FU1.0101 +SK1 -F181	4 2.L2K r	=FU1.0101 +KKN1 -TB41 2.L2K	2								STR=FU1.0101/18.1 L2K
	=FU1.0101 +SK1 -F181	6 3.L3K r	=FU1.0101 +KKN1 -TB41 3.L3K	3								STR=FU1.0101/18.1 L3K
		5 4 r	=FU1.0101 +KKN1 -TB41 4	4								STR=FU1.0101/18.2
		6 5 r	=FU1.0101 +KKN1 -TB41 5	5								R
		7 6 r	=FU1.0101 +KKN1 -TB41 6	6								R
		8 7 r	=FU1.0101 +KKN1 -TB41 7		1							R
		9 8 r	=FU1.0101 +KKN1 -TB41 8		2							R
		10 9 r	=FU1.0101 +KKN1 -TB41 9		3							R
		11 10 r	=FU1.0101 +KKN1 -TB41 10		4							R
	=FU1.0101 +SK1 -CB174	22 11.L1H r	=FU1.0101 +KKN1 -TB41 11.L1H		5							STR=FU1.0101/17.2 L1H
	=FU1.0101 +SK1 -T171	0V3 12.L0H r	=FU1.0101 +KKN1 -TB41 12.L0H		6							STR=FU1.0101/17.3 L0H
		14 PE r	=FU1.0101 +KKN1 -TB41 PE		PE							R
		15 GND\PE r	=FU1.0101 +KKN1 -TB41 GND\PE	PE								STR=FU1.0101/18.2
		16 ------ r										
		=FU1.0101 -TB52 +SK1										
		1 ====== r										
	=FU1.0301 +SK1 -CB212	22 1.D+/1 r	=FU1.0101 +SK1 -F221 21		3							STR=FU1.0101/22.3 D+
	=FU1.0502 +SK1 -IO412	53 1/2 r	=FU1.0101 +SK1 -F221 22		4							STR=FU1.0101/22.3
		24 2.D+/1 r	=FU1.0101 +SK1 -F222 21			3						STR=FU1.0101/22.4 D+
	=FU1.0502 +SK1 -IO412	65 2/2 r	=FU1.0101 +SK1 -F222 22			4						STR=FU1.0101/22.4
	=FU1.0201 +SK1 -TB52 1.D+/16	3 3.D+/1 r	=FU1.0101 +SK1 -SS221 13									STR=FU1.0101/22.6 D+
	=FU1.0101 +SK1 -SS221 14	7 3/2 r	=FU1.0502 +SK1 -IO412 7									STR=FU1.0101/22.6
		8 ------ r										
		=FU1.0104 -TB10 +SK1										
		1 ====== r										
	=FU1.0101 +SK1 -CB154	22 1.L1B r										STR=FU1.0104/10.1 L1B
	=FU1.0104 +SK1 -CB101	13 2.L1 r										STR=FU1.0104/10.1 L1
		4 3.L1 r										STR=FU1.0104/10.1 L1
	=FU1.0101 +SK1 -T151	0V5 4.L0B r										STR=FU1.0104/10.1 L0B
	=FU1.0101 +SK1 -TB40 3.L0A	6 5.L0 r										STR=FU1.0104/10.1 L0
		7 6.L0 r										STR=FU1.0104/10.1 L0
	=FU1.0104 +SK1 -CB101 28	7.L1A r	=FU1.0101 +SK1 -C221 1									STR=FU1.0104/10.3
		9 GND\PE r										STR=FU1.0104/10.3 GND\PE
		10 ------ r										
		=FU1.0201 -TB40 +SK1										
		1 ====== r										
	=FU1.0101 +SK1 -C221	12 1.L1A r	=FU1.0201 +SK1 -FL101 L		1							STR=FU1.0201/10.1 L1A
	=FU1.0101 +SK1 -TB40 4.L0A =FU1.0201 +SK1 -TB40 4.L0A	3 2.L0A r L R	=FU1.0201 +SK1 -FL101 N		2							STR=FU1.0201/10.1 L0A
	=FU1.0201 +SK1 -TB40 9.L1A	4 3.L1A r	=FU1.0201 +SK1 -FL102 L			1						STR=FU1.0201/10.3 L1A
	=FU1.0201 +SK1 -TB40 2.L0A	5 4.L0A r L R	=FU1.0201 +SK1 -FL102 N =FU1.0201 +SK1 -TB40 10.L0A			2						STR=FU1.0201/10.3 L0A
	=FU1.0201 +SK1 -MS151	26 5 r	=FU1.0201 +SK1 -AC151 1				1					STR=FU1.0201/15.1
	=FU1.0201 +SK1 -MS151	47 6 r	=FU1.0201 +SK1 -AC151 2				2					STR=FU1.0201/15.1
	=FU1.0201 +SK1 -MS151	68 7 r	=FU1.0201 +SK1 -AC151 3				3					STR=FU1.0201/15.1
		9 8 r	=FU1.0201 +SK1 -AC151 _/_				6					STR=FU1.0201/15.2
	=FU1.0201 +SK1 -TB40 3.L1A	10 9.L1A r L R	=FU1.0201 +SK1 -A251 HOT					1				STR=FU1.0201/25.1 L1A
	=FU1.0201 +SK1 -TB40 4.L0A	11 10.L0A r L R	=FU1.0201 +SK1 -A251 NEUTRAL					2				STR=FU1.0201/25.2 L0A
		12 GND\PE r	=FU1.0201 +SK1 -AC151 PE				PE					STR=FU1.0201/15.2
		13 GND\PE r	=FU1.0201 +SK1 -A251 GROUND				PE					STR=FU1.0201/25.2
		14 ------ r										
		*										

date	29.08.2013	machine type filler	KRONES	terminal strip +SK1	equi. K123989	+SK1	SK1
eng.	Krupka						
CAD	Skala	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	VBV	sheet 02 7/56
		version/ 02					999

	B	C	D	1 Konf.Ltg.Z PE 7x0.0 mm²	2 TrayFlex II 7 G AWG14	3 JZ-602 4 G AWG8	4 JZ-602 7 G AWG14	F
				0.0 =.0201-W151	0.0 =.0301-W671	0.0 =.0301-W701	0.0 =.0301-W721	* *
		=FU1.0201 -TB51 +SK1						
1		1 ======						
2	=FU1.0301 +SK1 -CB202 2 =FU1.0301 +SK1-TB59A30 1.B+	2 1.B+	=FU1.0201 +SK1 -FN152 +					STR=FU1.0201/15.4 B+
3	=FU1.0301 +SK1 -TB67 3.B- =FU1.0301 +SK1-TB59A30 2.B-	3 2.B-	=FU1.0201 +SK1 -FN152 -					STR=FU1.0201/15.4 B-
4		4 GND\PE	=FU1.0201 +SK1 -FN152 PE					STR=FU1.0201/15.4
5		5 ------						
		=FU1.0201 -TB52 +SK1						
1		1 ======						
2	=FU1.0101 +SK1 -TB52 3.D+/1 =FU1.0301 +SK1 -TB72 20.D+/1	2 1.D+/1	=FU1.0201 +SK1 -AC151 8	4				STR=FU1.0201/15.3 D+
3	=FU1.0502 +SK1 -IO422 03	3 1/2	=FU1.0201 +SK1 -AC151 9	5				STR=FU1.0201/15.3
4		4 ------						
		=FU1.0301 -TB59A20 +SK1						
1		1 ======						
2		2 1	=FU1.0301 +KPV1 -TB51 1	1				STR=FU1.0301/67.1 AL+
3		3 2	=FU1.0301 +KPV1 -TB51 2	2				STR=FU1.0301/67.1 AL-
4	=FU1.0301 +SK1 -CB391 24	4 3.AM+	=FU1.0301 +KPV1 -TB51 3.AM+	3				STR=FU1.0301/67.2AM+
5	=FU1.0301 +SK1 -TB67 29.AM-	5 4.AM-	=FU1.0301 +KPV1 -TB51 4.AM-	4				STR=FU1.0301/67.2AM-
6	=FU1.0301 +SK1 -CB392 26	6 5.AN+	=FU1.0301 +KPV1 -TB51 5.AN+	5				STR=FU1.0301/67.2AN+
7	=FU1.0301 +SK1 -TB67 31.AN-	7 6.AN-	=FU1.0301 +KPV1 -TB51 6.AN-	6				STR=FU1.0301/67.2 AN-
8		8 GND\PE	=FU1.0301 +KPV1 -TB51 GND\PE	PE				STR=FU1.0301/67.3
9		9 ------						
		=FU1.0301 -TB59A30 +SK1						
1		1 ======						
2	=FU1.0201 +SK1 -TB51 1.B+ =FU1.0301 +SK1 -TB72 6.B+/1	2 1.B+	=FU1.0301 +KKN1 -TB52 1.B+/1	1				STR=FU1.0301/72.1 B+
3	=FU1.0201 +SK1 -TB51 2.B- =FU1.0301 +SK1 -TB72 2.B-/2	3 2.B-	=FU1.0301 +KKN1 -TB52 1.B-/2	2				STR=FU1.0301/72.1 B-
4	=FU1.0301 +SK1 -CB302 24	4 3.V+	=FU1.0301 +KKN1 -TB52 2.V+/1	3				STR=FU1.0301/72.2 V+
5	=FU1.0301 +SK1 -TB67 27.V-	5 4.V-	=FU1.0301 +KKN1 -TB52 2.V-/2	4				STR=FU1.0301/72.2 V-
6	=FU1.1101 +SK1 -CR211 54	6 5.V1+	=FU1.0301 +KKN1 -TB52 3.V1+/1	5				STR=FU1.0301/72.2 V1+
7		7 6	=FU1.0301 +KKN1 -TB52 3/2	6				STR=FU1.0301/72.2
8		8 GND\PE	=FU1.0301 +KKN1 -TB52 GND\PE	PE				STR=FU1.0301/72.3
9		9 ------						
		=FU1.0301 -TB62 +SK1						
1		1 ======						
2	=FU1.0301 +SK1 -CB451 22	2 1.S+	=FU1.0301 +FKA1 -W701 +	1				STR=FU1.0301/70.2 S+
3	=FU1.0301 +SK1 -TB68V1 3.S-	3 2.S-	=FU1.0301 +FKA1 -W701 -	2				STR=FU1.0301/70.2 S-
4		4 3	=FU1.0301 +FKA1 -W701 _/_	3				STR=FU1.0301/70.4
5	=FU1.0101 +SK1 -GND GND\PE	5 GND\PE	=FU1.0301 +FKA1 -W701 PE	PE				STR=FU1.0301/70.2
6		6 ------						

date	29.08.2013	machine type filler	KRONES	terminal strip +SK1	equi. K123989	+SK1	SK1
eng.	Krupka						
CAD	Skala	machine model MODULFILL HRS		client	K123989-001	VBV	sheet 03 8/56
		version/ 02		Lagunitas Brewing Company			999

=FU1.0301 -TB67 +SK1

			1	======			
			2	------			
=FU1.0301	+SK1 -PSU101	M	3	1.-			STR=FU1.0301/10.2 -
=FU1.0101	+SK1 -GND	GND\PE	4	2.GND\PE			STR=FU1.0301/10.2 -
=FU1.0201	+SK1 -TB51	2.B-	5	3.B-			STR=FU1.0301/20.7 -
=FU1.9704	+SK1-OPTO202	A2	6	4.B-			STR=FU1.0301/20.7 -
			7	5.C-			STR=FU1.0301/21.3 C-
=FU1.0503	+SK1 -COM012	4/C	8	6.C-			STR=FU1.0301/21.3 C-
=FU1.0301	+SK1 -TB72	20.D-	9	7.D-			STR=FU1.0301/21.7 D-
=FU1.0502	+SK1 -PSU111	4	10	8.D-			STR=FU1.0301/21.7 -
=FU1.0301	+SK1 -TB72	1.E-	11	9.E-			STR=FU1.0301/22.3 -
=FU1.0101	+SK1 -C221	A2	12	10.E-			STR=FU1.0301/22.3 -
			13	11.F-			STR=FU1.0301/22.7 F-
=FU1.0597	+SK1 -COM012	4/C	14	12.F-			STR=FU1.0301/22.7 -
=FU1.9712	+SK1-TB99A11	16.G	15	13.G-			STR=FU1.0301/23.3 G-
=FU1.0597	+SK1 -CN151	4	16	14.G-			STR=FU1.0301/23.3 -
=FU1.2101	+SK1-TB59A20	2.I	17	15.I-			STR=FU1.0301/24.3 I-
			18	16.I-			STR=FU1.0301/24.3 I-
=FU1.2101	+SK1-TB59A21	2.J	19	17.J-			STR=FU1.0301/24.7 J-
			20	18.J-			STR=FU1.0301/24.7 -
=FU1.2102	+SK1-TB59A20	2.K	21	19.K-			STR=FU1.0301/25.3 K-
			22	20.K-			STR=FU1.0301/25.3 K-
=FU1.2102	+SK1-TB59A21	2.L	23	21.L-			STR=FU1.0301/25.7 L-
			24	22.L-			STR=FU1.0301/25.7 -
=FU1.1501	+SK1-TB59A14	2.O	25	23.O-			STR=FU1.0301/27.3 O-
=FU1.0503	+SK1 -COM052	4/C	26	24.O-			STR=FU1.0301/27.3 O-
=FU1.0901	+SK1-TB59A10	4.P	27	25.P-			STR=FU1.0301/27.7 P-
=FU1.0503	+SK1 -PSU131	4	28	26.P-			STR=FU1.0301/27.7 -
=FU1.0301	+SK1-TB59A30	4.V	29	27.V-			STR=FU1.0301/30.7 -
			30	28.V-			STR=FU1.0301/30.7 -
=FU1.0301	+SK1-TB59A20	4.AM	31	29.AM-			STR=FU1.0301/39.3 AM-
			32	30.AM-			STR=FU1.0301/39.3 AM-
=FU1.0301	+SK1-TB59A20	6.AN	33	31.AN-			STR=FU1.0301/39.7 AN-
			34	32.AN-			STR=FU1.0301/39.7 -
			35	------			
			36	======			

=FU1.0301 -TB68V1 +SK1

			1	======			
			2	------			
=FU1.0301	+SK1 -PSU111	M	3	1.-			STR=FU1.0301/11.2 -
=FU1.0101	+SK1 -GND	GND\PE	4	2.GND\PE			STR=FU1.0301/11.2 -
=FU1.0301	+SK1 -TB62	2.S-	5	3.S-			STR=FU1.0301/45.3 S-
			6	------			
			7	======			

date	29.08.2013	machine type	filler	terminal strip +SK1	equi. K123989	+SK1	SK1
eng.	Krupka						
CAD	Skala	machine model	MODULFILL HRS	client	K123989-001	VBV	sheet 04 9/56
		version/	02	Lagunitas Brewing Company			999

KRONES

=FU1.0301
-TB72 +SK1

	B	C	D	F
1		======		
2		1/1		
3	=FU1.0301 +SK1 -TB67 9.E-/1 =FU1.0301 +SK1 -TB72 25.E-/2	1.E-/2	=FU1.0101 +SK1 -PL221 X2	STR=FU1.0101/22.8 E-
4		2/1		STR=FU1.0501/03.0
5	=FU1.0301 +SK1-TB59A30 2.B-/1	2.B-/2	=FU1.0501 +SK1 -IO031 17	STR=FU1.0501/03.1 B-
6		3/1		STR=FU1.0501/03.0
7		3.B-/2	=FU1.0501 +SK1 -IO031 18	STR=FU1.0501/03.1 B-
8		4/1		STR=FU1.0501/03.0
9		4.B-/2	=FU1.0501 +SK1 -IO031 35	STR=FU1.0501/03.1 B-
10		5/1		STR=FU1.0501/03.0
11		5.B-/2	=FU1.0501 +SK1 -IO031 36	STR=FU1.0501/03.1 B-
12	=FU1.0301 +SK1-TB59A30 1.B+/1	6.B+/1	=FU1.0501 +SK1 -IO032 10 DC+	STR=FU1.0501/03.5 B+
13		6.B-/2	=FU1.0501 +SK1 -IO032 9 RTN	STR=FU1.0501/03.5 B-
14	=FU1.1501 +SK1-TB59A10 1.B+/1	7.B+/1	=FU1.0501 +SK1 -IO032 20 DC+	STR=FU1.0501/03.6 B+
15	=FU1.1501 +SK1-TB59A10 2.B-/1	7.B-/2	=FU1.0501 +SK1 -IO032 19 RTN	STR=FU1.0501/03.6 B-
16	=FU1.2025 +SK1 -K113 9/1	8.B+/1	=FU1.1501 +SK1 -TB59A10 1.B+	STR=FU1.1701/10.1 B+
17	=FU1.2025 +SK1 -K113 10/1	8.B-/2	=FU1.1501 +SK1 -TB59A10 2.B-	STR=FU1.1701/10.1 B-
18		9.B+/1		STR=FU1.1701/10.8 B+
19	=FU1.1701 +SK1 -T101 X1.6/9	9.B-/2		STR=FU1.1701/10.8 B-
20	=FU1.1701 +SK1 -T101 X1.7/9	10.B+/1		STR=FU1.1701/10.8 B+
21	=FU1.1701 +SK1 -T101 X1.8/1	10.B-/2		STR=FU1.1701/10.8 B-
22	=FU1.1701 +SK1 -T101 X2.7/2	11.B+/1	=FU1.1701 +SK1 -TB59A02 1.B+	STR=FU1.1701/11.1 B+
23	=FU1.1701 +SK1 -T101 X2.8/3	11.B-/2	=FU1.1701 +SK1 -TB59A02 2.B-	STR=FU1.1701/11.1 B-
24		12/1		STR=FU1.2001/60.5
25	=FU1.1701 +SK1-TB59A09 2.B-/1	12.B-/2	=FU1.2001 +SK1 -OPTO605 A2	STR=FU1.2001/60.5 B-
26		13/1		STR=FU1.2001/60.6
27	=FU1.2001 +SK1-OPTO606 A2/1	13.B-/2		STR=FU1.2001/60.6 B-
28	=FU1.1701 +SK1-TB59A09 1.B+/1	14.B+/1	=FU1.6301 +SK1 -CPU20225 +24V	STR=FU1.6301/20.1 B+
29	=FU1.9712 +SK1-TB99A12 2.B-/1	14.B-/2	=FU1.6301 +SK1 -CPU20226 GND	STR=FU1.6301/20.1 B-
30	=FU1.1701 +SK1 -T101 X5.7/9	15.B+/1	=FU1.9714 +SK1 -TB99A01 1.B+	STR=FU1.9712/17.2 B+
31	=FU1.9712 +SK1-TB99A12 2.B-/3	15.B-/2	=FU1.1701 +SK1 -T101 X5.8 =FU1.9712 +SK1 -TB99A13 5.B-	STR=FU1.9712/17.3 B-
32	=FU1.1701 +SK1 -T101 X2.5/2	16.FT/1	=FU1.0501 +SK1 -IO031 01	STR=FU1.1701/11.3 FT
33	=FU1.1701 +SK1 -T101 X2.3/3	16.GT/2	=FU1.0501 +SK1 -IO031 02	STR=FU1.1701/11.4 GT
34		17.FT/1		STR=FU1.1701/11.3 FT
35	=FU1.9704 +SK1-OPTO202 A1/5	17.GT/2		STR=FU1.1701/11.4 GT
36	=FU1.1701 +SK1 -T101 X2.4/9	18.RT/1	=FU1.0501 +SK1 -IO031 06	STR=FU1.1701/11.5
37	=FU1.1701 +SK1 -T101 X2.1/7	18.HT1/2		STR=FU1.1701/11.6 HT1
38		19.RT/1		STR=FU1.1701/11.5
39	=FU1.9704 +SK1 -DA201 15/9	19.HT1/2		STR=FU1.1701/11.6 HT1
40	=FU1.0201 +SK1 -TB52 1.D+/1 =FU1.0301 +SK1 -TB72 23.D+/1	20.D+/1	=FU1.2001 +SK1 -PMCS082 24	STR=FU1.2001/08.2 D+
41	=FU1.0301 +SK1 -TB67 7.D-/1 =FU1.0301 +SK1 -TB72 23.D-/2	20.D-/2	=FU1.2001 +SK1 -PMCS082 26	STR=FU1.2001/08.2 D-
42	=FU1.0302 +SK1 -CB201 2/2	21.BA+/1	=FU1.2001 +SK1 -PMCS102 24	STR=FU1.2001/10.2 BA+
43	=FU1.0302 +SK1 -TB67 4.BA-/1	21.BA-/2	=FU1.2001 +SK1 -PMCS102 26	STR=FU1.2001/10.2 BA-
44	=FU1.2001 +SK1-CPU20225 +24V/1	22.BA+/1	=FU1.2001 +SK1 -TB72 1.BA+/1	STR=FU1.2001/20.2 BA+
45	=FU1.9714 +SK1-TB99A05 2.BA-/1	22.BA-/2	=FU1.2001 +SK1 -CPU20226 GND	STR=FU1.2001/20.2 BA-
46	=FU1.0301 +SK1 -TB72 20.D+/1	23.D+/1	=FU1.2001 +SK1 -OPTO605 +13	STR=FU1.2001/60.5 D+
47	=FU1.0301 +SK1 -TB72 20.D-/2	23.D-/2	=FU1.2001 +SK1 -OPTO605 0V	STR=FU1.2001/60.5 D-
48	=FU1.2001 +SK1-OPTO606 +13/1	24.D+/1	=FU1.2001 +SK1 -TB72 1.D+/2	STR=FU1.2001/60.6 D+
49	=FU1.2801 +SK1-TB59A01 2.D-/1	24.D-/2	=FU1.2001 +SK1 -OPTO606 0V	STR=FU1.2001/60.6 D-
50	=FU1.1701 +SK1 -T101 X3.7/1	25.E+/1	=FU1.0301 +SK1 -CB221 2	STR=FU1.4101/11.1 E+
51	=FU1.1701 +SK1 -T101 X3.8/1	25.E-/2	=FU1.0301 +SK1 -TB72 1.E-/2	STR=FU1.4101/11.1 E-
52		26/1		STR=FU1.4101/11.2
53	=FU1.4101 +SK1 -CR111 4/3	26.E-/2		STR=FU1.4101/11.3 E-
54		27/1		STR=FU1.4101/11.3
55	=FU1.4101 +SK1 -AFD101 04/5	27.E-/2		STR=FU1.4101/11.3 E-
56		28/1		STR=FU1.4101/11.6
57	=FU1.4101 +SK1 -AFD101 A6/7	28.E-/2		STR=FU1.4101/11.6 E-
58		29/1		STR=FU1.5240/11.2
59	=FU1.5240 +SK1 -CR111 4/9	29.E-/2		STR=FU1.5240/11.3 E-

date	29.08.2013	machine type filler		terminal strip +SK1	equi. K123989	+SK1	SK1
eng.	Krupka		KRONES				
CAD	Skala	machine model MODULFILL HRS		client	K123989-001	VBV	sheet 05 10/56
		version/ 02		Lagunitas Brewing Company			999

	B	C	D	1 JZ-602 5 G AWG16	2 JZ-602 5 G AWG18	3 Konf.Ltg.F1 10x0.0 mm²	4 Konf.Ltg.F1 10x0.0 mm²	F
				0.0 =.0901-W102	0.0 =.0901-W501	0.0 =.7301-W011	0.0 =.8020-W011	* *
		=FU1.0301 -TB72 +SK1						
		60 30/1 r						STR=FU1.5240/11.3
	=FU1.5240 +SK1 -AFD101 04	61 30.E-/2 r						STR=FU1.5240/11.3 E-
	=FU1.4101 +SK1-TB59A01 1.D-	62 31.D+/1 r	=FU1.6301 +SK1 -PMCS052 24					STR=FU1.6301/05.2 D+
	=FU1.2801 +SK1-TB59A01 2.D-	63 31.D-/2 r	=FU1.6301 +SK1 -PMCS052 26					STR=FU1.6301/05.2 D-
		64 ------ r						
		=FU1.0302 -TB67 +SK1						
		1 ====== r						
		2 ------ r						
	=FU1.2001 +SK1 -PSU331 X3.3	1.- r						STR=FU1.0302/10.1 -
	=FU1.2001 +SK1 -PSU331 X2.1	2.- r						STR=FU1.0302/10.1 -
	=FU1.0101 +SK1 -GND GND\PE	3.- r						STR=FU1.0302/10.2 -
	=FU1.0301 +SK1 -TB72 21.BA-/2	4.BA- r						STR=FU1.0302/20.3 BA-
	=FU1.0501 +SK1 -PSU011 -7	5.BA- r						STR=FU1.0302/20.3 BA-
	=FU1.0901 +SK1 -MMI103 -8	6.BB- r						STR=FU1.0302/20.7 -
	=FU1.2010 +SK1-TB59A01 2.BC-	7.BC- r						STR=FU1.0302/21.3 BC-
		8.BC- r						STR=FU1.0302/21.3 BC-
		9.BD- r						STR=FU1.0302/21.7 BD-
	=FU1.2025 +SK1 -K171 22	10.BD- r						STR=FU1.0302/21.7 -
		11.BE- r						STR=FU1.0302/22.3 BE-
	=FU1.0501 +SK1-COM233 34	12.BE- r						STR=FU1.0302/22.3 BE-
	=FU1.0901 +SK1-TB59A10 2.BF-	13.BF- r						STR=FU1.0302/22.7 BF-
		14.BF- r						STR=FU1.0302/22.7 -
		17 ------ r						
		18 ====== r						
		=FU1.0503 -TB52 +SK1						
		1 ====== r						
		2 1/1 r						
	=FU1.2801 +SK1-TB89A01 2.P-3	1.P-/2 r	=FU1.7301 +SK1 -IO012 9	BK				STR=FU1.7301/01.1 P-
		4 2/1 r						
		5 2.P-/2 r	=FU1.8020 +SK1 -IO012 9	BK				STR=FU1.8020/01.1 P-
		6 ------ r						
		=FU1.0901 -TB59A01 +SK1						
		1 ====== r						
	=FU1.0503 +SK1 -IO212 62	1 r	=FU1.0901 +KK1 -S011 X3.9	1				STR=FU1.0901/50.2
	=FU1.0503 +SK1 -IO212 03	2 r	=FU1.0901 +KK1 -S011 X3.10	2				STR=FU1.0901/50.1
	=FU1.0503 +SK1 -IO212 74	3 r	=FU1.0901 +KK1 -S011 X3.11	3				STR=FU1.0901/50.3
	=FU1.0503 +SK1 -IO212 15	4 r	=FU1.0901 +KK1 -S011 X3.12	4				STR=FU1.0901/50.3
		6 GND\PE r	=FU1.0901 +KK1 -S011 _/_	PE				STR=FU1.0901/50.4
		7 ------ r						
		=FU1.0901 -TB59A10 +SK1						
		1 ====== r						
	=FU1.0302 +SK1 -CB222 2	1.BF+ r L R	=FU1.0901 +KK1 -MMI102 +	1				STR=FU1.0901/10.7 BF+
	=FU1.0302 +SK1 -TB67 13.BF-	2.BF- r L R	=FU1.0901 +KK1 -MMI102 -	2				STR=FU1.0901/10.8 BF-
	=FU1.1101 +SK1-TB59A01 9.O+ =FU1.0301 +SK1 -CB271 2	3.O+ r L R	=FU1.0901 +KK1 -S011 X2.1	3				STR=FU1.0901/20.1 O+
	=FU1.0901 +SK1-TB59A40 1.P- =FU1.0301 +SK1 -TB67 25.P-	4.P- r L R	=FU1.0901 +KK1 -S011 X2.18	4				STR=FU1.0901/20.1 P-
		6 GND\PE r	=FU1.0901 +KK1 -MMI102 PE	PE				STR=FU1.0901/10.9
		7 ------ r						

*

date	29.08.2013	machine type filler		terminal strip +SK1	equi. K123989	+SK1	SK1
eng.	Krupka		KRONES				
CAD	Skala	machine model MODULFILL HRS		client	K123989-001	VBV	sheet 06 11/56
				Lagunitas Brewing Company			
		version/ 02					999

	B	C	D	1 JZ-602 18 G AWG16 0.0	2 JZ-602 7 G AWG16 0.0	3 SPIKA 12x0.5 mm² 0.0	F
				=.0901-W202	=.0901-W401	=.1101-W101	* *
		=FU1.0901 -TB59A12 +SK1					
		1 ====== r					
		2 1 r	=FU1.0901 +KK1 -S011 _/_	1			STR=FU1.0901/20.4
		3 2 r	=FU1.0901 +KK1 -S011 X2.2	2			STR=FU1.0901/20.3
	=FU1.0503 +SK1 -IO432	34 3 r	=FU1.0901 +KK1 -S011 X2.3	3			STR=FU1.0901/20.2
	=FU1.0503 +SK1 -IO432	65 4 r	=FU1.0901 +KK1 -S011 X2.4	4			STR=FU1.4001/10.3
	=FU1.0503 +SK1 -IO432	56 5 r	=FU1.0901 +KK1 -S011 X2.5	5			STR=FU1.4001/10.2
	=FU1.0503 +SK1 -IO432	47 6 r	=FU1.0901 +KK1 -S011 X2.6	6			STR=FU1.4001/10.1
	=FU1.0503 +SK1 -IO432	08 7 r	=FU1.0901 +KK1 -S011 X2.7	7			STR=FU1.2001/12.1
	=FU1.0503 +SK1 -IO432	29 8 r	=FU1.0901 +KK1 -S011 X2.8	8			STR=FU1.2001/12.3
	=FU1.0503 +SK1 -IO432	10 9 r	=FU1.0901 +KK1 -S011 X2.9	9			STR=FU1.2001/12.2
	=FU1.0503 +SK1 -IO662	71 10 r	=FU1.0901 +KK1 -S011 X2.10	10			STR=FU1.0901/20.3
	=FU1.0503 +SK1 -IO662	32 11 r	=FU1.0901 +KK1 -S011 X2.11	11			STR=FU1.0901/20.2
	=FU1.0503 +SK1 -IO662	63 12 r	=FU1.0901 +KK1 -S011 X2.12	12			STR=FU1.4001/10.3
	=FU1.0503 +SK1 -IO662	54 13 r	=FU1.0901 +KK1 -S011 X2.13	13			STR=FU1.4001/10.2
	=FU1.0503 +SK1 -IO662	45 14 r	=FU1.0901 +KK1 -S011 X2.14	14			STR=FU1.4001/10.1
	=FU1.0503 +SK1 -IO662	06 15 r	=FU1.0901 +KK1 -S011 X2.15	15			STR=FU1.2001/12.1
	=FU1.0503 +SK1 -IO662	27 16 r	=FU1.0901 +KK1 -S011 X2.16	16			STR=FU1.2001/12.3
		18 17 r	=FU1.0901 +KK1 -S011 X2.17	17			STR=FU1.2001/12.2
		19 GND\PE r	=FU1.0901 +KK1 -S011 _/_	PE			STR=FU1.0901/20.4
		20 ----- r					
		=FU1.0901 -TB59A40 +SK1					
		1 ====== r					
	=FU1.1201 +SK1-TB59A01 8.P- =FU1.0901 +SK1-TB59A10 4.P-	2 1.P- r L R	=FU1.0901 +SU1 -CN401 0	1			STR=FU1.0901/40.3 P-
	=FU1.0503 +SK1 -IO642	13 2 r	=FU1.0901 +SU1 -CN401 1	2			STR=FU1.0901/40.3
	=FU1.0503 +SK1 -IO642	24 3 r	=FU1.0901 +SU1 -CN401 2	3			STR=FU1.0901/40.4
	=FU1.0503 +SK1 -IO642	35 4 r	=FU1.0901 +SU1 -CN401 3	4			STR=FU1.0901/40.5
	=FU1.0503 +SK1 -IO642	06 5 r	=FU1.0901 +SU1 -CN401 4	5			STR=FU1.0901/40.6
		7 6 r	=FU1.0901 +SU1 -CN401 _/_	6			STR=FU1.0901/40.7
		8 GND\PE r	=FU1.0901 +SU1 -CN401 _/_	PE			STR=FU1.0901/40.2
		9 ----- r					
		=FU1.1101 -TB59A01 +SK1					
		1 ====== r					
	=FU1.0503 +SK1 -IO216	102 1 r	=FU1.1101 +SU1 -PB101 11	1			STR=FU1.1101/10.2
	=FU1.0503 +SK1 -IO216	23 2 r	=FU1.1101 +SU1 -PB101 12	2			STR=FU1.1101/10.1
	=FU1.0503 +SK1 -IO216	114 3 r	=FU1.1101 +SU1 -PB101 21	3			STR=FU1.1101/10.3
	=FU1.0503 +SK1 -IO216	35 4 r	=FU1.1101 +SU1 -PB101 22	4			STR=FU1.1101/10.3
	=FU1.0503 +SK1 -IO218	66 5 r	=FU1.1201 +SU1 -PB114 13	5			STR=FU1.1201/11.8
	=FU1.0503 +SK1 -IO218	07 6 r	=FU1.1201 +SU1 -PB114 14	6			STR=FU1.1201/11.8
	=FU1.0503 +SK1 -IO218	78 7 r	=FU1.1201 +SU1 -PB114 23	7			STR=FU1.1201/11.8
	=FU1.0503 +SK1 -IO218	19 8 r	=FU1.1201 +SU1 -PB114 24	8			STR=FU1.1201/11.8
	=FU1.0901 +SK1-TB59A10 3.O+ =FU1.1201 +SK1-TB59A11 1.O+	10 9.O+ r L R	=FU1.0901 +SU1 -SS203 13	9			STR=FU1.0901/20.6 O+
	=FU1.0503 +SK1 -IO434	01 10 r	=FU1.0901 +SU1 -SS203 14	10			STR=FU1.0901/20.6
	=FU1.0503 +SK1 -IO434	12 11 r	=FU1.0901 +SU1 -SS203 24	11			STR=FU1.0901/20.8
		13 GND\PE r	=FU1.1201 +SU1 -PB114 _/_	PE			STR=FU1.1201/11.9
		14 ----- r					

date	29.08.2013	machine type filler	KRONES	terminal strip +SK1	equi. K123989	+SK1	SK1
eng.	Krupka						
CAD	Skala	machine model MODULFILL HRS		client	K123989-001	VBV	sheet 07 12/56
		version/ 02		Lagunitas Brewing Company			999

Cable	Cross-section	Length	Designation
JZ-602 5 G AWG18		0.0	=.1101-W151
SPIKA 12x0.5 mm²		0.0	=.1101-W152
TrayFlex II 9 G AWG16		0.0	=.1201-W111

=FU1.1101 -TB59A02 +SK1

Target				Terminal		Target				Cable	Page
				1	======						
=FU1.0503	+SK1	-IO216	62		1	=FU1.1101	+SU1	-FT152	15	1	STR=FU1.1101/15.6
=FU1.0503	+SK1	-IO216	03		2	=FU1.1101	+SU1	-FT152	16	2	STR=FU1.1101/15.6
=FU1.0503	+SK1	-IO216	74		3	=FU1.1101	+SU1	-FT152	35	3	STR=FU1.1101/15.8
=FU1.0503	+SK1	-IO216	15		4	=FU1.1101	+SU1	-FT152	36	4	STR=FU1.1101/15.8
=FU1.0503	+SK1	-IO218	106		5	=FU1.1101	+SU1	-FT152	23	5	STR=FU1.1202/11.9
=FU1.0503	+SK1	-IO218	27		6	=FU1.1101	+SU1	-FT152	24	6	STR=FU1.1202/11.9
=FU1.0503	+SK1	-IO218	118		7	=FU1.1101	+SU1	-FT152	43	7	STR=FU1.1202/11.9
=FU1.0503	+SK1	-IO218	39		8	=FU1.1101	+SU1	-FT152	44	8	STR=FU1.1202/11.9
				10	9	=FU1.1101	+SU1	-FT152	_/_	9	STR=FU1.1202/11.7
				11	10	=FU1.1101	+SU1	-FT152	_/_	10	STR=FU1.1202/11.7
				12	11	=FU1.1101	+SU1	-FT152	_/_	11	STR=FU1.1202/11.8
				13	GND\PE	=FU1.1101	+SU1	-FT152	_/_	PE	STR=FU1.1202/11.8
				14	------						

=FU1.1101 -TB59A03 +SK1

Target				Terminal		Target				Cable	Page
				1	======						
=FU1.0503	+SK1	-IO214	62		1	=FU1.0901	+KK1	-S011	X3.3	1	STR=FU1.1101/15.2
=FU1.0503	+SK1	-IO214	03		2	=FU1.0901	+KK1	-S011	X3.4	2	STR=FU1.1101/15.1
=FU1.0503	+SK1	-IO214	74		3	=FU1.0901	+KK1	-S011	X3.5	3	STR=FU1.1101/15.3
=FU1.0503	+SK1	-IO214	15		4	=FU1.0901	+KK1	-S011	X3.6	4	STR=FU1.1101/15.3
				6	GND\PE	=FU1.0901	+KK1	-S011	_/_	PE	STR=FU1.1101/15.4
				7	------						

=FU1.1101 -TB99A02 +SK1

Target				Terminal		Target				Cable	Page
				1	======						
=FU1.0502	+SK1	-IO222	02		1	=FM1	+SK1	-TB99	**		STR=FU1.1101/30.1
=FU1.0502	+SK1	-IO222	63		2	=FM1	+SK1	-TB99	**		STR=FU1.1101/30.2
=FU1.0502	+SK1	-IO222	14		3	=FM1	+SK1	-TB99	**		STR=FU1.1101/30.3
=FU1.0502	+SK1	-IO222	75		4	=FM1	+SK1	-TB99	**		STR=FU1.1101/30.3
=FU1.1101	+SK1	-CR201	146		5	=FM1	+SK1	-TB99	**		STR=FU1.1101/30.5
=FU1.1101	+SK1	-CR201	137		6	=FM1	+SK1	-TB99	**		STR=FU1.1101/30.5
=FU1.1101	+SK1	-CR201	248		7	=FM1	+SK1	-TB99	**		STR=FU1.1101/30.6
=FU1.1101	+SK1	-CR201	239		8	=FM1	+SK1	-TB99	**		STR=FU1.1101/30.6
				10	GND\PE	=FM1	+SK1	-TB99	PE		STR=FU1.1101/30.7
				11	------						

=FU1.1201 -TB59A01 +SK1

Target				Terminal		Target				Cable	Page
				1	======						
=FU1.0503	+SK1	-IO226	62		1	=FU1.1201	+SU1	-LS111	11	1	STR=FU1.1201/11.2
=FU1.0503	+SK1	-IO226	03		2	=FU1.1201	+SU1	-LS111	12	2	STR=FU1.1201/11.1
=FU1.0503	+SK1	-IO226	74		3	=FU1.1201	+SU1	-LS111	21	3	STR=FU1.1201/11.2
=FU1.0503	+SK1	-IO226	15		4	=FU1.1201	+SU1	-LS111	22	4	STR=FU1.1201/11.1
=FU1.0503	+SK1	-IO228	66		5	=FU1.1201	+SU1	-LS111	41	5	STR=FU1.1201/11.3
=FU1.0503	+SK1	-IO228	07		6	=FU1.1201	+SU1	-LS111	42	6	STR=FU1.1201/11.3
=FU1.0503	+SK1	-IO632	28		7	=FU1.1201	+SU1	-LS111	A1	7	STR=FU1.1201/11.3
=FU1.1201 =FU1.0901	+SK1-TB59A11 +SK1-TB59A40		5.P- 1.P-	9 L	8.P- R	=FU1.1201	+SU1	-LS111	A2	8	STR=FU1.1201/11.3 P-
				10	GND\PE	=FU1.1201	+SU1	-LS111	_/_	PE	STR=FU1.1201/11.3
				11	------						

date	29.08.2013	machine type	filler	terminal strip +SK1	equi. K123989	+SK1	SK1
eng.	Krupka	machine model	MODULFILL HRS	client	K123989-001	VBV	sheet 08 13/56
CAD	Skala	version/	02	Lagunitas Brewing Company			999

Cable			
JZ-602 7 G AWG16	0.0	=.1201-W113	1
TrayFlex II 9 G AWG16	0.0	=.1201-W121	2
JZ-602 7 G AWG16	0.0	=.1201-W123	3
TrayFlex II 9 G AWG16	0.0	=.1201-W131	4

=FU1.1201 -TB59A02 +SK1

Source			Terminal	Target			Cable =.1201-W121	Reference
			1 ======					
=FU1.0503 +SK1 -IO226	102		1	=FU1.1201	+SU1 -LS121	11	1	STR=FU1.1201/12.2
=FU1.0503 +SK1 -IO226	23		2	=FU1.1201	+SU1 -LS121	12	2	STR=FU1.1201/12.1
=FU1.0503 +SK1 -IO226	114		3	=FU1.1201	+SU1 -LS121	21	3	STR=FU1.1201/12.2
=FU1.0503 +SK1 -IO226	35		4	=FU1.1201	+SU1 -LS121	22	4	STR=FU1.1201/12.1
=FU1.0503 +SK1 -IO228	106		5	=FU1.1201	+SU1 -LS121	41	5	STR=FU1.1201/12.3
=FU1.0503 +SK1 -IO228	27		6	=FU1.1201	+SU1 -LS121	42	6	STR=FU1.1201/12.3
=FU1.0503 +SK1 -IO632	38		7	=FU1.1201	+SU1 -LS121	A1	7	STR=FU1.1201/12.3
=FU1.1201 +SK1-TB59A12 =FU1.1201 +SK1-TB59A11	5.P- 5.P-	L	9 8.P-	=FU1.1201	+SU1 -LS121	A2	8	STR=FU1.1201/12.3 P-
			10 GND\PE	=FU1.1201	+SU1 -LS121	_/_	PE	STR=FU1.1201/12.3
			11 ------					

=FU1.1201 -TB59A03 +SK1

Source			Terminal	Target			Cable =.1201-W131	Reference
			1 ======					
=FU1.0503 +SK1 -IO232	62		1	=FU1.1201	+SU1 -LS131	11	1	STR=FU1.1201/13.2
=FU1.0503 +SK1 -IO232	03		2	=FU1.1201	+SU1 -LS131	12	2	STR=FU1.1201/13.1
=FU1.0503 +SK1 -IO232	74		3	=FU1.1201	+SU1 -LS131	21	3	STR=FU1.1201/13.2
=FU1.0503 +SK1 -IO232	15		4	=FU1.1201	+SU1 -LS131	22	4	STR=FU1.1201/13.1
=FU1.0503 +SK1 -IO234	66		5	=FU1.1201	+SU1 -LS131	41	5	STR=FU1.1201/13.3
=FU1.0503 +SK1 -IO234	07		6	=FU1.1201	+SU1 -LS131	42	6	STR=FU1.1201/13.3
=FU1.0503 +SK1 -IO632	48		7	=FU1.1201	+SU1 -LS131	A1	7	STR=FU1.1201/13.3
=FU1.1201 +SK1-TB59A13 =FU1.1201 +SK1-TB59A12	5.P- 5.P-	L	9 8.P-	=FU1.1201	+SU1 -LS131	A2	8	STR=FU1.1201/13.3 P-
			10 GND\PE	=FU1.1201	+SU1 -LS131	_/_	PE	STR=FU1.1201/13.3
			11 ------					

=FU1.1201 -TB59A11 +SK1

Source			Terminal	Target			Cable =.1201-W113	Reference
			1 ======					
=FU1.1101 +SK1-TB59A01 =FU1.1201 +SK1-TB59A12	9.O+ 1.O+	L	2 1.O+	=FU1.1201	+SU1 -PB112	13	1	STR=FU1.1201/11.4 O+
=FU1.0503 +SK1 -IO412	23		2	=FU1.1201	+SU1 -PB112	14	2	STR=FU1.1201/11.4
=FU1.0503 +SK1 -IO412	34		3	=FU1.1201	+SU1 -PB113	14	3	STR=FU1.1201/11.6
=FU1.0503 +SK1 -IO612	25		4	=FU1.1201	+SU1 -PL112	X1	4	STR=FU1.1201/11.4
=FU1.1201 +SK1-TB59A01 =FU1.1201 +SK1-TB59A02	8.P- 8.P-	L	6 5.P-	=FU1.1201	+SU1 -PL112	X2	5	STR=FU1.1201/11.4 P-
=FU1.0503 +SK1 -IO612	37		6	=FU1.1201	+SU1 -PL113	X1	6	STR=FU1.1201/11.6
			8 GND\PE	=FU1.1201	+SU1 -PB113	_/_	PE	STR=FU1.1201/11.6
			9 ------					

=FU1.1201 -TB59A12 +SK1

Source			Terminal	Target			Cable =.1201-W123	Reference
			1 ======					
=FU1.1201 +SK1-TB59A11 =FU1.1201 +SK1-TB59A13	1.O+ 1.O+	L	2 1.O+	=FU1.1201	+SU1 -PB122	13	1	STR=FU1.1201/12.4 O+
=FU1.0503 +SK1 -IO412	43		2	=FU1.1201	+SU1 -PB122	14	2	STR=FU1.1201/12.4
=FU1.0503 +SK1 -IO412	54		3	=FU1.1201	+SU1 -PB123	14	3	STR=FU1.1201/12.6
=FU1.0503 +SK1 -IO612	45		4	=FU1.1201	+SU1 -PL122	X1	4	STR=FU1.1201/12.4
=FU1.1201 +SK1-TB59A02 =FU1.1201 +SK1-TB59A03	8.P- 8.P-	L	6 5.P-	=FU1.1201	+SU1 -PL122	X2	5	STR=FU1.1201/12.4 P-
=FU1.0503 +SK1 -IO612	57		6	=FU1.1201	+SU1 -PL123	X1	6	STR=FU1.1201/12.6
			8 GND\PE	=FU1.1201	+SU1 -PB123	_/_	PE	STR=FU1.1201/12.6
			9 ------					

date	29.08.2013	machine type filler		terminal strip +SK1	equi. K123989	+SK1	SK1
eng.	Krupka	machine model MODULFILL HRS	KRONES	client	K123989-001	VBV	sheet 09 14/56
CAD	Skala	version/ 02		Lagunitas Brewing Company			999

Cable		Cross-section	Name
1	JZ-602 7 G AWG16	0.0	=.1201-W133
2	TrayFlex II 9 G AWG16	0.0	=.1202-W111
3	JZ-602 7 G AWG16	0.0	=.1202-W113
4	JZ-602 4 G AWG18	0.0	=.1501-W142
5	JZ-602 4 G AWG18	0.0	=.1501-W203

=FU1.1201 -TB59A13 +SK1

Internal target			Jumper	Terminal	Designation	External target			Conn.	Cable wire	Reference
				1	======						
=FU1.1201 =FU1.1202	+SK1-TB59A12 +SK1-TB59A11	1.O+ 1.O+	L	2	1.O+	=FU1.1201	+SU1	-PB132	13	1	STR=FU1.1201/13.4 O+
=FU1.0503	+SK1	-IO412	63	2	2	=FU1.1201	+SU1	-PB132	14	2	STR=FU1.1201/13.4
=FU1.0503	+SK1	-IO412	74	3	3	=FU1.1201	+SU1	-PB133	14	3	STR=FU1.1201/13.6
=FU1.0503	+SK1	-IO612	65	4	4	=FU1.1201	+SU1	-PL132	X1	4	STR=FU1.1201/13.4
=FU1.1201 =FU1.1202	+SK1-TB59A03 +SK1-TB59A01	8.P- 8.P-	L	6	5.P-	=FU1.1201	+SU1	-PL132	X2	5	STR=FU1.1201/13.4 P-
=FU1.0503	+SK1	-IO612	77	7	6	=FU1.1201	+SU1	-PL133	X1	6	STR=FU1.1201/13.6
				8	GND\PE	=FU1.1201	+SU1	-PB133	_/_	PE	STR=FU1.1201/13.6
				9	------						

=FU1.1202 -TB59A01 +SK1

Internal target			Jumper	Terminal	Designation	External target			Conn.	Cable wire	Reference
				1	======						
=FU1.0503	+SK1	-IO222	62	2	1	=FU1.1202	+SU1	-LS111	11	1	STR=FU1.1202/11.2
=FU1.0503	+SK1	-IO222	03	3	2	=FU1.1202	+SU1	-LS111	12	2	STR=FU1.1202/11.1
=FU1.0503	+SK1	-IO222	74	4	3	=FU1.1202	+SU1	-LS111	21	3	STR=FU1.1202/11.2
=FU1.0503	+SK1	-IO222	15	5	4	=FU1.1202	+SU1	-LS111	22	4	STR=FU1.1202/11.1
=FU1.0503	+SK1	-IO224	66	6	5	=FU1.1202	+SU1	-LS111	41	5	STR=FU1.1202/11.3
=FU1.0503	+SK1	-IO224	07	7	6	=FU1.1202	+SU1	-LS111	42	6	STR=FU1.1202/11.3
=FU1.0503	+SK1	-IO632	08	8	7	=FU1.1202	+SU1	-LS111	A1	7	STR=FU1.1202/11.3
=FU1.1202 =FU1.1201	+SK1-TB59A11 +SK1-TB59A13	5.P- 5.P-	L	9	8.P-	=FU1.1202	+SU1	-LS111	A2	8	STR=FU1.1202/11.3 P-
				10	GND\PE	=FU1.1202	+SU1	-LS111	_/_	PE	STR=FU1.1202/11.3
				11	------						

=FU1.1202 -TB59A11 +SK1

Internal target			Jumper	Terminal	Designation	External target			Conn.	Cable wire	Reference
				1	======						
=FU1.1201 =FU1.1501	+SK1-TB59A13 +SK1-TB59A14	1.O+ 1.O+	L	2	1.O+	=FU1.1202	+SU1	-PB112	13	1	STR=FU1.1202/11.4 O+
=FU1.0503	+SK1	-IO412	03	3	2	=FU1.1202	+SU1	-PB112	14	2	STR=FU1.1202/11.4
=FU1.0503	+SK1	-IO412	14	4	3	=FU1.1202	+SU1	-PB113	14	3	STR=FU1.1202/11.6
=FU1.0503	+SK1	-IO612	05	5	4	=FU1.1202	+SU1	-PL112	X1	4	STR=FU1.1202/11.4
=FU1.1202 =FU1.2801	+SK1-TB59A01 +SK1-TB89A01	8.P- 2.P-	L	6	5.P-	=FU1.1202	+SU1	-PL112	X2	5	STR=FU1.1202/11.4 P-
=FU1.0503	+SK1	-IO612	17	7	6	=FU1.1202	+SU1	-PL113	X1	6	STR=FU1.1202/11.6
				8	GND\PE	=FU1.1202	+SU1	-PB113	_/_	PE	STR=FU1.1202/11.6
				9	------						

=FU1.1501 -TB59A10 +SK1

Internal target			Jumper	Terminal	Designation	External target			Conn.	Cable wire	Reference
				1	======						
=FU1.0301 =FU1.0301	+SK1 -TB72 +SK1 -TB72	7.B+/1 8.B+/1	L	2	1.B+	=FU1.1501	+FKA1	-P142	1	1	STR=FU1.1501/14.2 B+
=FU1.0301 =FU1.0301	+SK1 -TB72 +SK1 -TB72	7.B-/2 8.B-/2	L	3	2.B-	=FU1.1501	+FKA1	-P142	3	2	STR=FU1.1501/14.2 B-
=FU1.0501	+SK1	-IO031	154	4	3	=FU1.1501	+FKA1	-P142	4	3	STR=FU1.1501/14.3
				5	GND\PE	=FU1.1501	+FKA1	-P142	_/_	PE	STR=FU1.1501/14.3
				6	------						

=FU1.1501 -TB59A14 +SK1

Internal target			Jumper	Terminal	Designation	External target			Conn.	Cable wire	Reference
				1	======						
=FU1.1501 =FU1.1202	+SK1-TB59A19 +SK1-TB59A11	1.O+ 1.O+	L	2	1.O+	=FU1.1501	+TBB1	-CN203	1	1	STR=FU1.1501/20.4 O+
=FU1.1501 =FU1.0301	+SK1-TB59A19 +SK1 -TB67	2.O- 23.O-	L	3	2.O-	=FU1.1501	+TBB1	-CN203	3	2	STR=FU1.1501/20.4 O-
=FU1.0503	+SK1	-IO424	14	4	3	=FU1.1501	+TBB1	-CN203	4	3	STR=FU1.1501/20.5
				5	GND\PE	=FU1.1501	+TBB1	-CN203	_/_	PE	STR=FU1.1501/20.5
				6	------						

date	29.08.2013	machine type	filler	terminal strip +SK1	equi. K123989	+SK1 / SK1
eng.	Krupka	machine model	MODULFILL HRS	client	K123989-001	VBV
CAD	Skala	version/	02	Lagunitas Brewing Company		sheet 10 15/56

999

Cable		
LIYCY 5x0.5 mm²	0.0	=.1701-W101
Konf.Ltg.F2 4x0.0 mm²	0.0	=.1501-W212R
Konf.Ltg.F2 4x0.0 mm²	0.0	=.1501-W212S
JZ-602 4 G AWG18	0.0	=.1701-W171
JZ-602 4 G AWG18	0.0	=.1701-W173
Konf.Ltg.F2 4x0.0 mm²	0.0	=.1701-W181

=FU1.1501
-TB59A19 +SK1

Internal target			Terminal	Designation	External target			Core	Cable	Remark
			1	======						
=FU1.1501 =FU1.1501	+SK1-TB59A20 +SK1-TB59A14	1.O+ 1.O+	2	1.O+	=FU1.1501	+TBB1 -P212S		BN		STR=FU1.1501/21.5 O+
=FU1.1501 =FU1.1501	+SK1-TB59A20 +SK1-TB59A14	2.O- 2.O-	3	2.O-	=FU1.1501	+TBB1 -P212S		BU		STR=FU1.1501/21.5 O-
			4	3	=FU1.1501	+TBB1 -P212S		BK		STR=FU1.1501/21.6
			5	4	=FU1.1501	+TBB1 -P212S		WH		STR=FU1.1501/21.6
			6	------						

=FU1.1501
-TB59A20 +SK1

Internal target			Terminal	Designation	External target			Core	Cable	Remark
			1	======						
=FU1.1501 =FU1.2101	+SK1-TB59A19 +SK1-TB59A13	1.O+ 1.O+	2	1.O+	=FU1.1501	+TBB1 -P212R		BN		STR=FU1.1501/21.7 O+
=FU1.1501 =FU1.2101	+SK1-TB59A19 +SK1-TB59A13	2.O- 2.O-	3	2.O-	=FU1.1501	+TBB1 -P212R		BU		STR=FU1.1501/21.7 O-
=FU1.0503	+SK1 -IO424	24	4	3	=FU1.1501	+TBB1 -P212R		BK		STR=FU1.1501/21.8
			5	4	=FU1.1501	+TBB1 -P212R		WH		STR=FU1.1501/21.8
			6	------						

=FU1.1701
-TB52 +SK1

Internal target			Terminal	Designation	External target			Core	Cable	Remark
SH =FU1.2025	+SK1 -AFD101	SH	1	SH						STR=FU1.1701/10.3

=FU1.1701
-TB59A02 +SK1

Internal target			Terminal	Designation	External target			Core	Cable	Remark
			1	======						
=FU1.1701 =FU1.0301	+SK1-TB59A04 +SK1 -TB72	1.B+ 11.B+/1	2	1.B+	=FU1.1701	+FKA1 -P171	1	1		STR=FU1.1701/17.1 B+
=FU1.0301 =FU1.1701	+SK1 -TB72 +SK1-TB59A04	11.B-/2 2.B-	3	2.B-	=FU1.1701	+FKA1 -P171	3	2		STR=FU1.1701/17.1 B-
=FU1.0501 =FU1.6301	+SK1 -IO031 +SK1 -IO042	04 14	4	3	=FU1.1701	+FKA1 -P171	4	3		STR=FU1.1701/17.2BV1
			5	GND\PE	=FU1.1701	+FKA1 -P171	_/_	PE		STR=FU1.1701/17.1
			6	------						

=FU1.1701
-TB59A04 +SK1

Internal target			Terminal	Designation	External target			Core	Cable	Remark
			1	======						
=FU1.1701 =FU1.1701	+SK1-TB59A02 +SK1-TB59A06	1.B+ 1.B+	2	1.B+	=FU1.1701	+FKA1 -P173	1	1		STR=FU1.1701/17.4 B+
=FU1.1701 =FU1.1701	+SK1-TB59A02 +SK1-TB59A06	2.B- 2.B-	3	2.B-	=FU1.1701	+FKA1 -P173	3	2		STR=FU1.1701/17.4 B-
=FU1.0501 =FU1.6301	+SK1 -IO031 +SK1 -IO042	05 25	4	3	=FU1.1701	+FKA1 -P173	4	3		STR=FU1.1701/17.5BR1
			5	GND\PE	=FU1.1701	+FKA1 -P173	_/_	PE		STR=FU1.1701/17.5
			6	------						

=FU1.1701
-TB59A06 +SK1

Internal target			Terminal	Designation	External target			Core	Cable	Remark
			1	======						
=FU1.1701 =FU1.1701	+SK1-TB59A04 +SK1-TB59A09	1.B+ 1.B+	2	1.B+	=FU1.1701	+ALM1 -P181		BN		STR=FU1.1701/18.1 B+
=FU1.1701 =FU1.1701	+SK1-TB59A04 +SK1-TB59A09	2.B- 2.B-	3	2.B-	=FU1.1701	+ALM1 -P181		BU		STR=FU1.1701/18.1 B-
=FU1.0501 =FU1.9712	+SK1 -IO031 +SK1-TB99A12	07 7	4	3	=FU1.1701	+ALM1 -P181		BK		STR=FU1.1701/18.2
			5	4	=FU1.1701	+ALM1 -P181		WH		STR=FU1.1701/18.2
			6	------						

date	29.08.2013	machine type: filler	terminal strip +SK1	equi. K123989	+SK1	SK1
eng.	Krupka	machine model: MODULFILL HRS	client: Lagunitas Brewing Company	K123989-001	VBV	sheet 11 16/56
CAD	Skala	version/ 02				999

KRONES

	B	C	D	F
	JZ-602-CY 3 G AWG14 0.0 =.2025-W171	JZ-602 4 G AWG18 0.0 =.1701-W184 / Konf.Ltg.Z PE 3x0.0 mm² 0.0 =.2010-W102 / Konf.Ltg.Z PE 3x0.0 mm² 0.0 =.2015-W102 / Konf.Ltg.Z PE 3x0.0 mm² 0.0 =.2020-W102	
		=FU1.1701 -TB59A09 +SK1		
		1 ======		
	=FU1.1701 +SK1-TB59A06 1.B+ / =FU1.0301 +SK1 -TB72 14.B+/1	2 1.B+	=FU1.1701 +FKA1 -P184 1	1 STR=FU1.1701/18.7 B+
	=FU1.1701 +SK1-TB59A06 2.B- / =FU1.0301 +SK1 -TB72 12.B-/2	3 2.B-	=FU1.1701 +FKA1 -P184 3	2 STR=FU1.1701/18.7 B-
	=FU1.0501 +SK1 -IO031 08 / =FU1.6301 +SK1 -IO042 16	4 3	=FU1.1701 +FKA1 -P184 4	3 STR=FU1.1701/18.8BR2
		5 GND\PE	=FU1.1701 +FKA1 -P184 _/_	PE STR=FU1.1701/18.7
		6 ------		
		=FU1.2001 -TB72 +SK1		
		1 ======		
	=FU1.2010 +SK1 -F131 SH2	2 1.BA+/1	=FU1.0301 +SK1 -TB72 22.BA+/1	STR=FU1.2010/13.6BA+
	=FU1.2010 +SK1 -F131 24V3	3 1.D+/2	=FU1.0301 +SK1 -TB72 24.D+/1	STR=FU1.2010/13.7 D+
	=FU1.2015 +SK1 -F131 SH4	4 2.BA+/1		STR=FU1.2015/13.6BA+
	=FU1.2015 +SK1 -F131 24V5	5 2.D+/2		STR=FU1.2015/13.7 D+
	=FU1.2020 +SK1 -F131 SH6	6 3.BA+/1		STR=FU1.2020/13.6BA+
	=FU1.2020 +SK1 -F131 24V7	7 3.D+/2		STR=FU1.2020/13.7 D+
	=FU1.2025 +SK1 -F131 SH8	8 4.BA+/1		STR=FU1.2025/13.6BA+
	=FU1.2025 +SK1 -F131 24V9	9 4.D+/2		STR=FU1.2025/13.7 D+
	=FU1.2030 +SK1 -F131 SH10	10 5.BA+/1		STR=FU1.2030/13.6BA+
	=FU1.2030 +SK1 -F131 24V11	11 5.D+/2		STR=FU1.2030/13.7 D+
	=FU1.2035 +SK1 -F131 SH12	12 6.BA+/1		STR=FU1.2035/13.6BA+
	=FU1.2035 +SK1 -F131 24V13	13 6.D+/2		STR=FU1.2035/13.7 D+
	=FU1.2040 +SK1 -F131 SH14	14 7.BA+/1		STR=FU1.2040/13.6BA+
	=FU1.2040 +SK1 -F131 24V15	15 7.D+/2	=FU1.2801 +SK1 -TB59A01 1.D+	STR=FU1.2040/13.7 D+
		16 ------		
		=FU1.2010 -TB59A01 +SK1		
		1 ======		
	=FU1.2015 +SK1-TB59A01 1.BC1+ / =FU1.2001 +SK1 -C661 14	2 1.BC1+	=FU1.2010 +ELM1 -FN102 +	1 STR=FU1.2010/10.8BC1+
	=FU1.0302 +SK1 -TB67 7.BC- / =FU1.2015 +SK1-TB59A01 2.BC-	3 2.BC-	=FU1.2010 +ELM1 -FN102 -	2 STR=FU1.2010/10.8 BC-
		4 GND\PE	=FU1.2010 +ELM1 -FN102 PE	PE STR=FU1.2010/10.8
		5 ------		
		=FU1.2015 -TB59A01 +SK1		
		1 ======		
	=FU1.2020 +SK1-TB59A01 1.BC1+ / =FU1.2010 +SK1-TB59A01 1.BC1+	2 1.BC1+	=FU1.2015 +ELM1 -FN102 +	1 STR=FU1.2015/10.8BC1+
	=FU1.2010 +SK1-TB59A01 2.BC- / =FU1.2020 +SK1-TB59A01 2.BC-	3 2.BC-	=FU1.2015 +ELM1 -FN102 -	2 STR=FU1.2015/10.8 BC-
		4 GND\PE	=FU1.2015 +ELM1 -FN102 PE	PE STR=FU1.2015/10.8
		5 ------		
		=FU1.2020 -TB59A01 +SK1		
		1 ======		
	=FU1.2025 +SK1-TB59A01 1.BC1+ / =FU1.2015 +SK1-TB59A01 1.BC1+	2 1.BC1+	=FU1.2020 +ELM1 -FN102 +	1 STR=FU1.2020/10.8BC1+
	=FU1.2015 +SK1-TB59A01 2.BC- / =FU1.2025 +SK1-TB59A01 2.BC-	3 2.BC-	=FU1.2020 +ELM1 -FN102 -	2 STR=FU1.2020/10.8 BC-
		4 GND\PE	=FU1.2020 +ELM1 -FN102 PE	PE STR=FU1.2020/10.8
		5 ------		
		=FU1.2025 -TB52 +SK1		
		1 ======		
PE	=FU1.2025 +SK1 -AFD101 _/_	2 GND\PE		STR=FU1.2025/17.6
		3		
		4 ------		
SH	=FU1.2025 +SK1 -AFD101 SH5	5 SH		STR=FU1.2025/17.6

date	29.08.2013	machine type filler	KRONES	terminal strip +SK1	equi. K123989	+SK1	SK1
eng.	Krupka						
CAD	Skala	machine model MODULFILL HRS		client Lagunitas Brewing Company	K123989-001	VBV	sheet 12 17/56
		version/ 02					999

Cable	Cross-section	Length	Name
Konf.Ltg.F2 4x0.0 mm²		0.0	=.2025-W102
Konf.Ltg.Z PE 3x0.0 mm²		0.0	=.2025-W104
Konf.Ltg.Z PE 3x0.0 mm²		0.0	=.2030-W102
Konf.Ltg.F2 4x0.0 mm²		0.0	=.2035-W102
Konf.Ltg.Z PE 3x0.0 mm²		0.0	=.2040-W102

=FU1.2025 -TB59A01 +SK1

Internal target	No.	Terminal	External target	Conn.	Wire	Reference
	1	======				
=FU1.2025 +SK1-TB59A04 1.BC1+ L =FU1.2020 +SK1-TB59A01 1.BC1+	2	1.BC1+	=FU1.2025 +FKA1 -CN102	1	BN	STR=FU1.2025/10.6 BC1+
=FU1.2025 +SK1-TB59A04 2.BC- L =FU1.2020 +SK1-TB59A01 2.BC-	3	2.BC-	=FU1.2025 +FKA1 -CN102	3	BU	STR=FU1.2025/10.6 BC-
	4	3	=FU1.2025 +FKA1 -CN102	2	WH	STR=FU1.2025/10.7
	5	4	=FU1.2025 +FKA1 -CN102	4	BK	STR=FU1.2025/10.7
	6	------				

=FU1.2025 -TB59A04 +SK1

Internal target	No.	Terminal	External target	Conn.	Wire	Reference
	1	======				
=FU1.2025 +SK1-TB59A01 1.BC1+ L =FU1.2030 +SK1-TB59A01 1.BC1+	2	1.BC1+	=FU1.2025 +FKA1 -FN104	+	1	STR=FU1.2025/10.8 BC1+
=FU1.2025 +SK1-TB59A01 2.BC- L =FU1.2030 +SK1-TB59A01 2.BC-	3	2.BC-	=FU1.2025 +FKA1 -FN104	-	2	STR=FU1.2025/10.8 BC-
	4	GND\PE	=FU1.2025 +FKA1 -FN104	PE	PE	STR=FU1.2025/10.9
	5	------				

=FU1.2025 -TB70 +SK1

Internal target	No.	Terminal	External target	Conn.	Wire	Reference
	1	======				
=FU1.2001 +SK1 -CR251 142	2	1.MT	=FU1.2010 +SK1 -F131	MT		STR=FU1.2010/13.7 MT
=FU1.2015 +SK1 -F131 MT	3	2.MT				STR=FU1.2015/13.7 MT
=FU1.2020 +SK1 -F131 MT	4	3.MT				STR=FU1.2020/13.7 MT
=FU1.2025 +SK1 -F131 MT	5	4.MT				STR=FU1.2025/13.7 MT
=FU1.2030 +SK1 -F131 MT	6	5.MT				STR=FU1.2030/13.7 MT
=FU1.2035 +SK1 -F131 MT	7	6.MT				STR=FU1.2035/13.7 MT
=FU1.2040 +SK1 -F131 MT	8	7.MT				STR=FU1.2040/13.7 MT
	9	------				

=FU1.2030 -TB59A01 +SK1

Internal target	No.	Terminal	External target	Conn.	Wire	Reference
	1	======				
=FU1.2035 +SK1-TB59A01 1.BC1+ L =FU1.2025 +SK1-TB59A04 1.BC1+	2	1.BC1+	=FU1.2030 +ALM1 -FN102	+	1	STR=FU1.2030/10.7 BC1+
=FU1.2025 +SK1-TB59A04 2.BC- L =FU1.2035 +SK1-TB59A01 2.BC-	3	2.BC-	=FU1.2030 +ALM1 -FN102	-	2	STR=FU1.2030/10.8 BC-
	4	GND\PE	=FU1.2030 +ALM1 -FN102	PE	PE	STR=FU1.2030/10.8
	5	------				

=FU1.2035 -TB59A01 +SK1

Internal target	No.	Terminal	External target	Conn.	Wire	Reference
	1	======				
=FU1.2040 +SK1-TB59A01 1.BC1+ L =FU1.2030 +SK1-TB59A01 1.BC1+	2	1.BC1+	=FU1.2035 +ALM1 -CN102	1	BN	STR=FU1.2035/10.8 BC1+
=FU1.2040 +SK1-TB59A01 2.BC- L =FU1.2030 +SK1-TB59A01 2.BC-	3	2.BC-	=FU1.2035 +ALM1 -CN102	3	BU	STR=FU1.2035/10.8 BC-
	4	3	=FU1.2035 +ALM1 -CN102	2	WH	STR=FU1.2035/10.9
	5	4	=FU1.2035 +ALM1 -CN102	4	BK	STR=FU1.2035/10.9
	6	------				

=FU1.2040 -TB59A01 +SK1

Internal target	No.	Terminal	External target	Conn.	Wire	Reference
	1	======				
=FU1.2035 +SK1-TB59A01 1.BC1+ L	2	1.BC1+	=FU1.2040 +ALM1 -FN102	+	1	STR=FU1.2040/10.7 BC1+
=FU1.2035 +SK1-TB59A01 2.BC- L	3	2.BC-	=FU1.2040 +ALM1 -FN102	-	2	STR=FU1.2040/10.8 BC-
	4	GND\PE	=FU1.2040 +ALM1 -FN102	PE	PE	STR=FU1.2040/10.8
	5	------				

date	29.08.2013	machine type: filler	KRONES	terminal strip +SK1	equi. K123989	+SK1 / SK1
eng.	Krupka	machine model: MODULFILL HRS		client: Lagunitas Brewing Company	K123989-001	VBV / sheet 13
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Cable	Cross-section	Designation
JZ-602 4 G AWG14	0.0	=.2101-W109
JZ-602 4 G AWG18	0.0	=.2101-W113
JZ-602 5 G AWG20	0.0	=.2101-W201
JZ-602 5 G AWG20	0.0	=.2101-W211
JZ-602 5 G AWG20	0.0	=.2102-W201
JZ-602 5 G AWG20	0.0	=.2102-W211
JZ-602 4 G AWG14	0.0	=.2801-W301

=FU1.2101 -TB49A70 +SK1

Source				Terminal		Target				Wire	Reference
				1	======						
=FU1.2101	+SK1	-C101	22	2	1	=FU1.0301	+FKA1	-W701	U	1	STR=FU1.2101/10.1
=FU1.2101	+SK1	-C101	43	3	2	=FU1.0301	+FKA1	-W701	V	2	STR=FU1.2101/10.1
=FU1.2101	+SK1	-C101	64	4	3	=FU1.0301	+FKA1	-W701	W	3	STR=FU1.2101/10.1
				5	GND\PE	=FU1.0301	+FKA1	-W701	PE	PE	STR=FU1.2101/10.0
				6	------						

=FU1.2101 -TB59A13 +SK1

Source				Terminal		Target				Wire	Reference
				1	======						
=FU1.4001 =FU1.1501	+SK1-TB59A04 +SK1-TB59A20		1.O+ 1.O+	2 L	1.O+	=FU1.2101	+ELM1	-P113	1	1	STR=FU1.2101/11.7 O+
=FU1.4001 =FU1.1501	+SK1-TB59A04 +SK1-TB59A20		2.O- 2.O-	3 L	2.O-	=FU1.2101	+ELM1	-P113	3	2	STR=FU1.2101/11.7 O-
=FU1.0503	+SK1	-IO424	34		3	=FU1.2101	+ELM1	-P113	4	3	STR=FU1.2101/11.8
				5	GND\PE	=FU1.2101	+ELM1	-P113	_/_	PE	STR=FU1.2101/11.8
				6	------						

=FU1.2101 -TB59A20 +SK1

Source				Terminal		Target				Wire	Reference
				1	======						
=FU1.1101	+SK1	-CR211	14	2	1.I1+	=FU1.2101	+FKA1	-CN201	1	1	STR=FU1.2101/20.1 I1+
=FU1.0301	+SK1	-TB67	15.I-	3	2.I-	=FU1.2101	+FKA1	-CN201	2	2	STR=FU1.2101/20.1 I-
=FU1.0301	+SK1	-CB241	24		3.I+	=FU1.2101	+FKA1	-CN201	3	3	STR=FU1.2101/20.1 I+
				5	4.I-	=FU1.2101	+FKA1	-CN201	4	4	STR=FU1.2101/20.1 I-
				6	GND\PE	=FU1.2101	+FKA1	-CN201	GND\PE	PE	STR=FU1.2101/20.2
				7	------						

=FU1.2101 -TB59A21 +SK1

Source				Terminal		Target				Wire	Reference
				1	======						
=FU1.1101	+SK1	-CR211	24	2	1.J1+	=FU1.2101	+FKA1	-CN211	1	1	STR=FU1.2101/21.1 J1+
=FU1.0301	+SK1	-TB67	17.J-	3	2.J-	=FU1.2101	+FKA1	-CN211	2	2	STR=FU1.2101/21.1 J-
=FU1.0301	+SK1	-CB242	24		3.J+	=FU1.2101	+FKA1	-CN211	3	3	STR=FU1.2101/21.1 J+
				5	4.J-	=FU1.2101	+FKA1	-CN211	4	4	STR=FU1.2101/21.1 J-
				6	GND\PE	=FU1.2101	+FKA1	-CN211	GND\PE	PE	STR=FU1.2101/21.2
				7	------						

=FU1.2102 -TB59A20 +SK1

Source				Terminal		Target				Wire	Reference
				1	======						
=FU1.1101	+SK1	-CR211	34	2	1.K1+	=FU1.2102	+FKA1	-CN201	1	1	STR=FU1.2102/20.1 K1+
=FU1.0301	+SK1	-TB67	19.K-	3	2.K-	=FU1.2102	+FKA1	-CN201	2	2	STR=FU1.2102/20.1 K-
=FU1.0301	+SK1	-CB251	24		3.K+	=FU1.2102	+FKA1	-CN201	3	3	STR=FU1.2102/20.1 K+
				5	4.K-	=FU1.2102	+FKA1	-CN201	4	4	STR=FU1.2102/20.1 K-
				6	GND\PE	=FU1.2102	+FKA1	-CN201	GND\PE	PE	STR=FU1.2102/20.2
				7	------						

=FU1.2102 -TB59A21 +SK1

Source				Terminal		Target				Wire	Reference
				1	======						
=FU1.1101	+SK1	-CR211	44	2	1.L1+	=FU1.2102	+FKA1	-CN211	1	1	STR=FU1.2102/21.1 L1+
=FU1.0301	+SK1	-TB67	21.L-	3	2.L-	=FU1.2102	+FKA1	-CN211	2	2	STR=FU1.2102/21.1 L-
=FU1.0301	+SK1	-CB252	24		3.L+	=FU1.2102	+FKA1	-CN211	3	3	STR=FU1.2102/21.1 L+
				5	4.L-	=FU1.2102	+FKA1	-CN211	4	4	STR=FU1.2102/21.1 L-
				6	GND\PE	=FU1.2102	+FKA1	-CN211	GND\PE	PE	STR=FU1.2102/21.2
				7	------						

=FU1.2801 -TB49A01 +SK1

Source				Terminal		Target				Wire	Reference
				1	======						
=FU1.2801	+SK1	-C301	22	2	1	=FU1.2801	+SU1	-MTR301	U	1	STR=FU1.2801/30.1
=FU1.2801	+SK1	-C301	43	3	2	=FU1.2801	+SU1	-MTR301	V	2	STR=FU1.2801/30.1
=FU1.2801	+SK1	-C301	64	4	3	=FU1.2801	+SU1	-MTR301	W	3	STR=FU1.2801/30.1
				5	GND\PE	=FU1.2801	+SU1	-MTR301	PE	PE	STR=FU1.2801/30.0
				6	------						

date	29.08.2013	machine type: filler	terminal strip +SK1	equi. K123989 | +SK1 | SK1
eng.	Krupka	machine model: MODULFILL HRS	client: Lagunitas Brewing Company	K123989-001 | VBV | sheet 14, 19/56
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Cable no.	Cable	Length	Type
20	=.4101-W102	0.0	TrayFlex II CY 4 G AWG14
21	=.4101-W111	0.0	LIY-CY 1x0.5 mm²
1	=.2801-W302	0.0	JZ-602 4 G AWG18
2	=.2801-W303	0.0	Konf.Ltg.F2 4x0.0 mm²
3	=.4001-W151	0.0	JZ-602 4 G AWG18
4	=.4001-W152	0.0	JZ-602 4 G AWG18
5	=.4101-W104	0.0	TrayFlex II 3 G AWG18
6	=.5240-W101	0.0	JZ-602-CY 4 G AWG14
7	=.9201-W101	0.0	JZ-602 4 G AWG8

=FU1.2801 -TB59A01 +SK1

Source	Terminal	Designation	Target	Core	Reference
	1	======			
=FU1.2001 +SK1 -TB72 7.D+/2 =FU1.4101 +SK1-TB59A01 1.D+	2	1.D+	=FU1.2801 +SU1 -CN301 1	1	STR=FU1.2801/30.6 D+
=FU1.0301 +SK1 -TB72 24.D-/2 =FU1.0301 +SK1 -TB72 31.D-/2	3	2.D-	=FU1.2801 +SU1 -CN301 5	2	STR=FU1.2801/30.6 D-
=FU1.0502 +SK1 -IO424 04	4	3	=FU1.2801 +SU1 -CN301 2	3	STR=FU1.2801/30.7
	5	GND\PE	=FU1.2801 +SU1 -CN301 GND\PE	PE	STR=FU1.2801/30.7
	6	------			

=FU1.2801 -TB89A01 +SK1

Source	Terminal	Designation	Target	Core	Reference
	1	======			
=FU1.0301 +SK1 -CB272 22	2	1.P+	=FU1.2801 +FKA1 -P303 1	BN	STR=FU1.2801/30.8 P+
=FU1.1202 +SK1-TB59A11 5.P- =FU1.0503 +SK1 -TB52 1.P-/2	3	2.P-	=FU1.2801 +FKA1 -P303 3	BU	STR=FU1.2801/30.8 P-
=FU1.0503 +SK1 -IO812 04	4	3	=FU1.2801 +FKA1 -P303 4	BK	STR=FU1.2801/30.8
	5	4	=FU1.2801 +FKA1 -P303 2	WH	STR=FU1.2801/30.9
	6	------			

=FU1.4001 -TB59A04 +SK1

Source	Terminal	Designation	Target	Core	Reference
	1	======			
=FU1.4001 +SK1-TB59A05 1.O+ =FU1.2101 +SK1-TB59A13 1.O+	2	1.O+	=FU1.4001 +TBB1 -CN151 1	1	STR=FU1.4001/15.1 O+
=FU1.4001 +SK1-TB59A05 2.O- =FU1.2101 +SK1-TB59A13 2.O-	3	2.O-	=FU1.4001 +TBB1 -CN151 3	2	STR=FU1.4001/15.1 O-
=FU1.0503 +SK1 -IO444 34	4	3	=FU1.4001 +TBB1 -CN151 4	3	STR=FU1.4001/15.2
	5	GND\PE	=FU1.4001 +TBB1 -CN151 _/_	PE	STR=FU1.4001/15.2
	6	------			

=FU1.4001 -TB59A05 +SK1

Source	Terminal	Designation	Target	Core	Reference
	1	======			
=FU1.4001 +SK1-TB59A04 1.O+	2	1.O+	=FU1.4001 +TBB1 -CN152 1	1	STR=FU1.4001/15.5 O+
=FU1.4001 +SK1-TB59A04 2.O-	3	2.O-	=FU1.4001 +TBB1 -CN152 3	2	STR=FU1.4001/15.5 O-
=FU1.0503 +SK1 -IO444 44	4	3	=FU1.4001 +TBB1 -CN152 4	3	STR=FU1.4001/15.6
	5	GND\PE	=FU1.4001 +TBB1 -CN152 _/_	PE	STR=FU1.4001/15.6
	6	------			

=FU1.4101 -TB40 +SK1

Source	Terminal	Designation	Target	Core	Reference
SH =FU1.4101 +TBB1-DISC102 SH	1	SH			STR=FU1.4101/10.1

=FU1.4101 -TB52 +SK1

Source	Terminal	Designation	Target	Core	Reference
SH =FU1.1701 +SK1 -T101 X3.6	1	SH			STR=FU1.4101/11.3

=FU1.4101 -TB59A01 +SK1

Source	Terminal	Designation	Target	Core	Reference
	1	======			
=FU1.0301 +SK1 -TB72 31.D+/1 =FU1.2801 +SK1-TB59A01 1.D+	2	1.D+	=FU1.4101 +TBB1 -DISC102 13	1	STR=FU1.4101/10.8 D+
=FU1.0502 +SK1 -IO442 13	3	2	=FU1.4101 +TBB1 -DISC102 14	2	STR=FU1.4101/10.8
	4	GND\PE	=FU1.4101 +TBB1 -DISC102 PE	PE	STR=FU1.4101/10.9
	5	------			

=FU1.5240 -TB40 +SK1

Source	Terminal	Designation	Target	Core	Reference
	1	SH	=FU1.5240 +KN1 -MTR101 SH	SH	STR=FU1.5240/10.1

=FU1.9201 -TB42 +SK1

Source	Terminal	Designation	Target	Core	Reference
	1	======			
=FU1.9201 +SK1 -AFD101 T1	2	1	=FU1.9201 +VP1 -MTR101 W1	1	STR=FU1.9201/10.1
=FU1.9201 +SK1 -AFD101 T2	3	2	=FU1.9201 +VP1 -MTR101 V1	2	STR=FU1.9201/10.1
=FU1.9201 +SK1 -AFD101 T3	4	3	=FU1.9201 +VP1 -MTR101 U1	3	STR=FU1.9201/10.1
	5	GND\PE	=FU1.9201 +VP1 -MTR101 PE	PE	STR=FU1.9201/10.0
	6	------			

date	29.08.2013	machine type	filler	terminal strip +SK1	equi. K123989 / +SK1 / SK1
eng.	Krupka	machine model	MODULFILL HRS	client	K123989-001 / VBV
CAD	Skala	version/	02	Lagunitas Brewing Company	sheet 15 20/56

KRONES

999

LIYCY 4x0.5 mm²	0.0	=.9702-W111		20
JZ-602 3 G AWG18	0.0	=.9201-W103		1
TrayFlex II 5 G AWG14	0.0	=.9702-W101		2

=FU1.9201 -TB52 +SK1

Target				Terminal	Designation		Target					Link
				1	======	r						
=FU1.9201	+SK1 -TAS101		T1	2	1/1	r	=FU1.9201	+VP1	-MTR101	1	1	STR=FU1.9201/10.2
=FU1.9201	+SK1 -TAS101		T2	3	1/2	r	=FU1.9201	+VP1	-MTR101	2	2	STR=FU1.9201/10.2
				4	GND\PE	r	=FU1.9201	+VP1	-MTR101	PE	PE	STR=FU1.9201/10.2
				5		r						
				6	------	r						

=FU1.9702 -TB82 +SK1

SH	=FU1.0597	+SK1 -IO812	_/_	1	SH	r	STR=FU1.9702/11.1

=FU1.9702 -TB92 +SK1

	Target			Terminal	Designation		Target					Link	
				1	======	r							
	=FU1.0301 =FU1.9702	+SK1 -CB222 +SK1 -TB92	2 10.F+/1	2 L	1.F+/1	r R						STR=FU1.9702/10.1	F+
	=FU1.0597	+SK1 -IO412		03	1/2	r						STR=FU1.9702/10.1	
	=FU1.0597	+SK1 -IO412		14	2/1	r						STR=FU1.9702/10.2	
	=FU1.0597	+SK1 -IO412		25	2/2	r						STR=FU1.9702/10.3	
	=FU1.0597	+SK1 -IO412		36	3/1	r						STR=FU1.9702/10.4	
				7	3/2	r							
	=FU1.0597	+SK1 -IO612		08	4/1	r	=FM1	+SK1	-TB99	1	1	STR=FU1.9702/10.6	
	=FU1.0597	+SK1 -IO612		29	4/2	r	=FM1	+SK1	-TB99	2	2	STR=FU1.9702/10.6	
	=FU1.0597	+SK1 -IO612		10	5/1	r	=FM1	+SK1	-TB99	3	3	STR=FU1.9702/10.7	
	=FU1.0597	+SK1 -IO612		31	5/2	r	=FM1	+SK1	-TB99	4	4	STR=FU1.9702/10.7	
	=FU1.0597	+SK1 -IO612		42	6/1	r						STR=FU1.9702/10.8	
	=FU1.0597	+SK1 -IO612		6 3	6/2	r						STR=FU1.9702/10.8	
	=FU1.0597	+SK1 -IO612		54	7/1	r						STR=FU1.9702/10.9	
	=FU1.0597	+SK1 -IO612		75	7/2	r						STR=FU1.9702/10.9	
YE	=FU1.0597	+SK1 -IO812		06	8/1	r	=FM1	+SK1	-TB99			STR=FU1.9702/11.1	
GN	=FU1.0597	+SK1 -IO812		47	8/2	r	=FM1	+SK1	-TB99			STR=FU1.9702/11.2	
WH	=FU1.0597	+SK1 -IO812		88	9/1	r	=FM1	+SK1	-TB99			STR=FU1.9702/11.3	
BN	=FU1.0597	+SK1 -IO812		69	9/2	r	=FM1	+SK1	-TB99			STR=FU1.9702/11.4	
	=FU1.9702 =FU1.9702	+SK1 -TB92 +SK1 -TB92	1.F+/1 17.F+/1	20 L	10.F+/1	r R						STR=FU1.9702/12.1	F+
	=FU1.0597	+SK1 -IO502		021	10/2	r						STR=FU1.9702/12.1	
	=FU1.0597	+SK1 -IO502		122	11/1	r						STR=FU1.9702/12.2	
	=FU1.0597	+SK1 -IO502		223	11/2	r						STR=FU1.9702/12.3	
	=FU1.0597	+SK1 -IO502		324	12/1	r						STR=FU1.9702/12.4	
				25	12/2	r							
	=FU1.0597	+SK1 -IO702		026	13/1	r						STR=FU1.9702/12.6	
	=FU1.0597	+SK1 -IO702		227	13/2	r						STR=FU1.9702/12.6	
	=FU1.0597	+SK1 -IO702		128	14/1	r						STR=FU1.9702/12.7	
	=FU1.0597	+SK1 -IO702		329	14/2	r						STR=FU1.9702/12.7	
	=FU1.0597	+SK1 -IO702		430	15/1	r						STR=FU1.9702/12.8	
	=FU1.0597	+SK1 -IO702		631	15/2	r						STR=FU1.9702/12.8	
	=FU1.0597	+SK1 -IO702		532	16/1	r						STR=FU1.9702/12.9	
	=FU1.0597	+SK1 -IO702		733	16/2	r						STR=FU1.9702/12.9	
	=FU1.9712 =FU1.9702	+SK1-TB99A11 +SK1 -TB92	1.F+ 10.F+/1	34 L	17.F+/1	r R						STR=FU1.9702/13.1	F+
	=FU1.0597	+SK1 -IO502		435	17/2	r						STR=FU1.9702/13.1	
	=FU1.0597	+SK1 -IO502		536	18/1	r						STR=FU1.9702/13.2	
	=FU1.0597	+SK1 -IO502		637	18/2	r						STR=FU1.9702/13.3	
	=FU1.0597	+SK1 -IO502		738	19/1	r						STR=FU1.9702/13.4	
				39	19/2	r							
	=FU1.0597	+SK1 -IO704		040	20/1	r						STR=FU1.9702/13.6	
	=FU1.0597	+SK1 -IO704		241	20/2	r						STR=FU1.9702/13.6	
	=FU1.0597	+SK1 -IO704		142	21/1	r						STR=FU1.9702/13.7	
	=FU1.0597	+SK1 -IO704		343	21/2	r						STR=FU1.9702/13.7	
	=FU1.0597	+SK1 -IO704		444	22/1	r						STR=FU1.9702/13.8	
	=FU1.0597	+SK1 -IO704		645	22/2	r						STR=FU1.9702/13.8	
	=FU1.0597	+SK1 -IO704		546	23/1	r						STR=FU1.9702/13.9	
	=FU1.0597	+SK1 -IO704		747	23/2	r						STR=FU1.9702/13.9	
				48	------	r							

	A	B	C	D	F
	LIYCY 5x0.5 mm² 0.0 =.9712-W171			TrayFlex II 5 G AWG14 0.0 =.9702-W101	
	LIYCY 7x0.5 mm² 0.0 =.9712-W148			LIY-CY 2x0.5 mm² 0.0 =.9704-W201	
	LIYCY 16x0.5 mm² 0.0 =.9712-W101			TrayFlex II CY 5 G AWG14 0.0 =.9704-W202	
	TrayFlex II CY 5 G AWG14 0.0 =.9704-W202			LIYCY 16x0.5 mm² 0.0 =.9712-W101	
	LIY-CY 2x0.5 mm² 0.0 =.9704-W201			LIYCY 7x0.5 mm² 0.0 =.9712-W148	
				LIYCY 5x0.5 mm² 0.0 =.9712-W171	
		=FU1.9702 -TB99A01 +SK1			
		1 ======			
		2 GND\PE	=FM1 +SK1 -TB99 PE	PE	STR=FU1.9702/10.6
		3 ------			
		=FU1.9704 -TB99A03 +SK1			
		1 ======			
		=FU1.9704 +SK1-OPTO202 13+ 2 1	=FM4 +SS -TB99	1	STR=FU1.9704/20.1
		=FU1.9704 +SK1-OPTO202 14 3 2	=FM4 +SS -TB99	2	STR=FU1.9704/20.1
	WH	=FU1.9704 +SK1 -DA201 5 4 3	=FM4 +SS -TB99	3	STR=FU1.9704/20.3
	BN	=FU1.9704 +SK1 -DA201 4 5 4	=FM4 +SS -TB99	4	STR=FU1.9704/20.3
		6 GND\PE	=FM4 +SS -TB99 PE	PE	STR=FU1.9704/20.3
		7 ------			
		8 SH	=FU1.9704 +SK1 -DA201 _/_	SH	STR=FU1.9704/20.4
	SH	=FM4 +SS -TB99 9 SH			STR=FU1.9704/20.4
		=FU1.9712 -TB99A11 +SK1			
		1 ======			
		=FU1.9750 +SK1-TB99A02 1.F+ 2 1.F+	=FM12 +SK1 -A999 X8.12/1	WH	STR=FU1.9712/10.1 F+
		=FU1.9702 +SK1 -TB92 17.F+/1 L R			
		=FU1.0597 +SK1 -IO442 0 3 2	=FM12 +SK1 -A999 X8.12/4	BN	STR=FU1.9712/10.1
		=FU1.0597 +SK1 -IO442 1 4 3	=FM12 +SK1 -A999 X8.13/4	GN	STR=FU1.9712/10.2
		=FU1.0597 +SK1 -IO442 2 5 4	=FM12 +SK1 -A999 X8.14/4	YE	STR=FU1.9712/10.3
		=FU1.0597 +SK1 -IO442 3 6 5	=FM12 +SK1 -A999 X8.15/4	GY	STR=FU1.9712/10.4
		7 6	=FM12 +SK1 -A999 X13.5/1	PK	STR=FU1.9712/10.6
		8 7	=FM12 +SK1 -A999 X13.5/2	BU	STR=FU1.9712/10.7
		9 8	=FM12 +SK1 -A999 X13.5/3	RD	STR=FU1.9712/10.8
		10 9	=FM12 +SK1 -A999 X8.20/4	BK	STR=FU1.9712/11.1
		11 10	=FM12 +SK1 -A999 X8.21/4	VT	STR=FU1.9712/11.2
		12 11	=FM12 +SK1 -A999 X8.22/4	GYPK	STR=FU1.9712/11.3
		13 12	=FM12 +SK1 -A999 X8.23/4	RDBU	STR=FU1.9712/11.4
		=FU1.0597 +SK1 -IO642 1 14 13	=FM12 +SK1 -A999 X5.16/3	WHGN	STR=FU1.9712/11.6
		15 14	=FM12 +SK1 -A999 X13.7/1	BNGN	STR=FU1.9712/11.7
		16 15	=FM12 +SK1 -A999 X13.7/2	WHYE	STR=FU1.9712/11.8
		=FU1.0301 +SK1 -TB67 13.G+ 17 16.G-	=FM12 +SK1 -A999 X5.16/2	YEBN	STR=FU1.9712/11.6 G-
		18 ------			
	SH	=FM12 +SK1 -A999 _/_ 19 SH			STR=FU1.9712/10.0
		=FU1.9712 -TB99A12 +SK1			
		1 ======			
		2 1	=FM12 +SK1 -A999 X7.13/1	WH	STR=FU1.9712/14.1
		=FU1.0301 +SK1 -TB72 14.B-/2 3 2.B-	=FM12 +SK1 -A999 X5.15/2	BN	STR=FU1.9712/14.1 B-
		=FU1.0301 +SK1 -TB72 15.B-/2 L R			
		4 3	=FM12 +SK1 -A999 X7.13/2	GN	STR=FU1.9712/14.2
		5 4.BV1	=FM12 +SK1 -A999 X5.15/3	YE	STR=FU1.9712/14.3 BV1
		=FU1.6301 +SK1 -IO042 1 4 L R			
		6 5	=FM12 +SK1 -A999 X7.13/3	GY	STR=FU1.9712/14.4
		7 6.BR2	=FM12 +SK1 -A999 X5.26/3	PK	STR=FU1.9712/14.8
		=FU1.1701 +SK1-TB59A06 3 8 7	=FM12 +SK1 -A999 X5.28/3	BU	STR=FU1.9712/15.3
		9 ------			
	SH	=FM12 +SK1 -A999 SH 10 SH			STR=FU1.9712/14.2
		=FU1.9712 -TB99A13 +SK1			
		1 ======			
		=FU1.1701 +SK1 -T101 X5.3 2 1.GT	=FM12 +SK1 -A999 X5.31/3	WH	STR=FU1.9712/17.2
		=FU1.1701 +SK1 -T101 X5.1 3 2.HT1	=FM12 +SK1 -A999 X5.29/3	BN	STR=FU1.9712/17.3
		=FU1.1701 +SK1 -T101 X5.2 4 3.HT2	=FM12 +SK1 -A999 X5.30/3	GN	STR=FU1.9712/17.4
		=FU1.1701 +SK1 -T101 X5.4 5 4.RT	=FM12 +SK1 -A999 X5.27/3	YE	STR=FU1.9712/17.5
		=FU1.0301 +SK1 -TB72 15.B-/2 6 5.B-	=FM12 +SK1 -A999 X5.31/2	GY	STR=FU1.9712/17.6 B-
		=FU1.9714 +SK1-TB99A01 2.B- L R			
		7 ------			
	SH	=FM12 +SK1 -A999 _/_ 8 SH			STR=FU1.9712/17.1

date	29.08.2013	machine type filler	KRONES	terminal strip +SK1	equi. K123989	+SK1	SK1
eng.	Krupka						
CAD	Skala	machine model MODULFILL HRS		client	K123989-001	VBV	sheet 17 22/56
				Lagunitas Brewing Company			
		version/ 02					999

B	C	D	1 TrayFlex II 5 G AWG14 0.0 =9750-W101	2 TrayFlex II 7 G AWG14 0.0 =9750-W102	F
	=FU1.9714 -TB99A01 +SK1				
	1 ======				
=FU1.0301 +SK1 -TB72 15.B+/12	1 1.B+	=RI1.9708 +SK1 -TB99A01 1.FU+			STR=FU1.9714/10.1 B+
=FU1.9712 +SK1-TB99A13 5.B-/3	2 2.B-	=RI1.9708 +SK1 -TB99A01 2.FU-			STR=FU1.9714/10.1 B-
	3 3	=RI1.9708 +SK1 -TB99A01 3			STR=FU1.9714/10.2
	4 4	=RI1.9708 +SK1 -TB99A01 4			STR=FU1.9714/10.3
	5 5	=RI1.9708 +SK1 -TB99A01 5			STR=FU1.9714/10.4
	6 6	=RI1.9708 +SK1 -TB99A01 6			STR=FU1.9714/10.5
	7 7	=RI1.9708 +SK1 -TB99A01 7			STR=FU1.9714/10.6
	8 8	=RI1.9708 +SK1 -TB99A01 8			STR=FU1.9714/11.1
	9 9	=RI1.9708 +SK1 -TB99A01 9			STR=FU1.9714/11.2
	10 10	=RI1.9708 +SK1 -TB99A01 10			STR=FU1.9714/11.3
	11 11	=RI1.9708 +SK1 -TB99A01 11			STR=FU1.9714/11.4
	12 GND\PE	=RI1.9708 +SK1 -TB99A01 PE			STR=FU1.9714/10.6
	13 ------				
	=FU1.9714 -TB99A02 +SK1				
	1 ======				
=FU1.2001 +SK1 -C661 23	2 1	=RI1.9708 +SK1 -TB99A02 1.BC+			STR=FU1.9714/15.2
=FU1.2001 +SK1 -C661 24	3 2	=RI1.9708 +SK1 -TB99A02 2			STR=FU1.9714/15.1
	4 GND\PE	=RI1.9708 +SK1 -TB99A02 PE			STR=FU1.9714/15.2
	5 ------				
	=FU1.9714 -TB99A05 +SK1				
	1 ======				
=FU1.2040 +SK1 -AFD101 X1.3	2 1.FG	=RI1.9708 +SK1 -TB99A05 1.FG			STR=FU1.9714/15.3 FG
=FU1.0301 +SK1 -TB72 22.BA-/2	3 2.BA-	=RI1.9708 +SK1 -TB99A05 2.FG-			STR=FU1.9714/15.4 BA-
=FU1.2001 +SK1 -CR251 23	4 3	=RI1.9708 +SK1 -TB99A05 3.BA+			STR=FU1.9714/15.6
=FU1.2001 +SK1 -CR251 24	5 4	=RI1.9708 +SK1 -TB99A05 4.MT			STR=FU1.9714/15.5
	6 GND\PE	=RI1.9708 +SK1 -TB99A05 PE =RI1.9708 +SK1 -TB99A05 PE			STR=FU1.9714/15.4
	7 GND\PE	=RI1.9708 +SK1 -TB99A05 PE =RI1.9708 +SK1 -TB99A05 PE			STR=FU1.9714/15.6
	8 ------				
	=FU1.9750 -TB99A01 +SK1				
	1 ======				
=FU1.0597 +SK1 -IO684 02	1 1	=FM50 +SS -X10 1	1		STR=FU1.9750/10.6
=FU1.0597 +SK1 -IO684 23	2 2	=FM50 +SS -X10 2	2		STR=FU1.9750/10.6
=FU1.0597 +SK1 -IO684 14	3 3	=FM50 +SS -X10 3	3		STR=FU1.9750/10.7
=FU1.0597 +SK1 -IO684 35	4 4	=FM50 +SS -X10 4	4		STR=FU1.9750/10.7
	5 GND\PE	=FM50 +SS -X10 PE	PE		STR=FU1.9750/10.6
	6 ------				
	=FU1.9750 -TB99A02 +SK1				
	1 ======				
=FU1.9712 +SK1-TB99A11 1.F+	2 1.F+	=FM50 +SS -X90 1	1		STR=FU1.9750/10.1 F+
=FU1.0597 +SK1 -IO482 03	2 2	=FM50 +SS -X90 2	2		STR=FU1.9750/10.1
=FU1.0597 +SK1 -IO482 14	3 3	=FM50 +SS -X90 3	3		STR=FU1.9750/10.2
=FU1.0597 +SK1 -IO482 25	4 4	=FM50 +SS -X90 4	4		STR=FU1.9750/10.3
=FU1.0597 +SK1 -IO482 36	5 5	=FM50 +SS -X90 5	5		STR=FU1.9750/10.4
=FU1.0597 +SK1 -IO482 47	6 6	=FM50 +SS -X90 6	6		STR=FU1.9750/11.1
	8 GND\PE	=FM50 +SS -X90 PE	PE		STR=FU1.9750/11.2
	9 ------				

date	29.08.2013	machine type	filler		terminal strip +SK1	equi. K123989	+SK1	SK1
eng.	Krupka			KRONES				
CAD	Skala	machine model	MODULFILL HRS		client	K123989-001	VBV	sheet 18 23/56
					Lagunitas Brewing Company			
		version/	02					999

	B	C	D	1	2	F
				TrayFlex II 7 G AWG14 0.0 =9750-W111	JZ-602 5 G AWG14 0.0 =9901-W1001	* *
		=FU1.9750 -TB99A03 +SK1				
		1 ====== r				
	=FU1.0597 +SK1 -IO682 12	1 r	=FM50 +SS -X95 1	1		STR=FU1.9750/11.6
	=FU1.0597 +SK1 -IO682 3 =FU1.0597 +SK1 -IO682 0 L	2 r R	=FM50 +SS -X95 2	2		STR=FU1.9750/11.6
	=FU1.0597 +SK1 -IO682 24	3 r	=FM50 +SS -X95 3	3		STR=FU1.9750/11.7
	=FU1.0597 +SK1 -IO682 55	4 r	=FM50 +SS -X95 4	4		STR=FU1.9750/11.8
	=FU1.0597 +SK1 -IO682 76	5 r	=FM50 +SS -X95 5	5		STR=FU1.9750/11.8
		7 6 r	=FM50 +SS -X95	6		STR=FU1.9750/11.9
		8 GND\PE r	=FM50 +SS -X95 PE	PE		STR=FU1.9750/11.8
		9 ----- r				
		=FU1.9901 -TB59A30 +SK1				
		1 ====== r				
	=FU1.0501 +SK1 -IO031 162	1 r	=FU1.5240 +KKN1 -TB52 2/2	1		STR=FU1.5240/16.7
	=FU1.0501 +SK1 -IO032 123	2 r	=FU1.5240 +KKN1 -TB52 3/1	2		STR=FU1.5240/20.2
	=FU1.0501 +SK1 -IO032 134	3 r	=FU1.5240 +KKN1 -TB52 4/1	3		STR=FU1.5240/20.4
		5 4 r	=FU1.5240 +KKN1 -TB52 5/1	4		R
		6 PE r	=FU1.5240 +KKN1 -TB52 PE	PE		R
		7 ----- r				

*

date	29.08.2013	machine type	filler	terminal strip +SK1	equi. K123989	+SK1	SK1
eng.	Krupka						
CAD	Skala	machine model	MODULFILL HRS	client	K123989-001	VBV	sheet 19 24/56
		version/	02	Lagunitas Brewing Company			999

KRONES

	KA003 cable	TY001 type	AD001 leads	BE004 leads used	RE001 reserve	LA002 length	AB002 insul. length	ED001 KRONES EDV no	BE004 remarks	AD001 leads	VO004 of	NA002 to
1	=.0101-W181	JZ-602	7 G AWG12	5	2	0.0		7187360133	terminal strip	1	=FU1.0101 +KKN1 -TB41 1.L1K	=FU1.0101 +SK1 -TB41 1.L1K
2										2	=FU1.0101 +KKN1 -TB41 2.L2K	=FU1.0101 +SK1 -TB41 2.L2K
3										3	=FU1.0101 +KKN1 -TB41 3.L3K	=FU1.0101 +SK1 -TB41 3.L3K
4										4	=FU1.0101 +KKN1 -TB41 4	=FU1.0101 +SK1 -TB41 4
5										5	=FU1.0101 +KKN1 -TB41 5	=FU1.0101 +SK1 -TB41 5
6										6	=FU1.0101 +KKN1 -TB41 6	=FU1.0101 +SK1 -TB41 6
7										PE	=FU1.0101 +KKN1 -TB41 GND\PE	=FU1.0101 +SK1 -TB41 GND\PE
8												
9	=.0101-W182	JZ-602	7 G AWG12	2	5	0.0		7187360133	terminal strip	1	=FU1.0101 +KKN1 -TB41 7	=FU1.0101 +SK1 -TB41 7
10										2	=FU1.0101 +KKN1 -TB41 8	=FU1.0101 +SK1 -TB41 8
11										3	=FU1.0101 +KKN1 -TB41 9	=FU1.0101 +SK1 -TB41 9
12										4	=FU1.0101 +KKN1 -TB41 10	=FU1.0101 +SK1 -TB41 10
13										5	=FU1.0101 +KKN1 -TB41 11.L1H	=FU1.0101 +SK1 -TB41 11.L1H
14										6	=FU1.0101 +KKN1 -TB41 12.L0H	=FU1.0101 +SK1 -TB41 12.L0H
15										PE	=FU1.0101 +KKN1 -TB41 PE	=FU1.0101 +SK1 -TB41 PE
16												
17	=.0101-W221	JZ-602	5 G AWG14	5	0	0.0		7187360122	lock control cabinet 1	1	=FU1.0101 +SK1 -TB40 1	=FU1.0101 +SK1 -F221 A1
18										2	=FU1.0101 +SK1 -TB40 3.L0A	=FU1.0101 +SK1 -F221 A2
19										3	=FU1.0101 +SK1 -TB52 1.D+/1	=FU1.0101 +SK1 -F221 21
20										4	=FU1.0101 +SK1 -TB52 1/2	=FU1.0101 +SK1 -F221 22
21										PE	=FU1.0101 +SK1 -TB40 GND\PE	=FU1.0101 +SK1 -F221 _/_
22												
23	=.0101-W222	JZ-602	5 G AWG14	5	0	0.0		7187360122	lock control cabinet 2	1	=FU1.0101 +SK1 -TB40 2	=FU1.0101 +SK1 -F222 A1
24										2	=FU1.0101 +SK1 -TB40 4.L0A	=FU1.0101 +SK1 -F222 A2
25										3	=FU1.0101 +SK1 -TB52 2.D+/1	=FU1.0101 +SK1 -F222 21
26										4	=FU1.0101 +SK1 -TB52 2/2	=FU1.0101 +SK1 -F222 22
27										PE	=FU1.0101 +SK1 -TB40 GND\PE	=FU1.0101 +SK1 -F222 _/_
28												
29	=.0101-W901	THHN GN	1 X AWG4	1	0	0.0		5718000408	grounding conductor frame LSC	GN	=FU1.0101 +SK1 -GND GND\PE	=FU1.0101 +SK1 -GND901
30												
31	=.0101-W902	THHN GN	1 X AWG4	1	0	0.0		5718000408	grounding conductor main control panel	GN	=FU1.0101 +SK1 -GND GND\PE	=FU1.0101 +SK1 -GND902
32												
33	=.0101-W903	THHN GN	1 X AWG6	1	0	0.0		5718000384	grounding conductor frame LSC	GN	=FU1.0101 +SK1 -GND GND\PE	=FU1.0101 +SK1 -GND903
34												
35	=.0101-W904	THHN GN	1 X AWG8	1	0	0.0		5718000397	touch screen SDL	GN	=FU1.0101 +SK1 -GND GND\PE	=FU1.0901 +KK1 -MMI102
36												
37	=.0101-W905	THHN GN	1 X AWG6	1	0	0.0		5718000384	grounding conductor filler	GN	=FU1.0101 +FKA1-GND905	=FU1.0101 +SK1 -GND GND\PE
38												
39	=.0101-W906	THHN GN	1 X AWG8	1	0	0.0		5718000397	terminal strip	GN	=FU1.0101 +KPV1 -TB21 GND\PE	=FU1.0101 +SK1 -GND GND\PE
40												
41	=.0101-W907	THHN GN	1 X AWG8	1	0	0.0		5718000397	terminal strip	GN	=FU1.0101 +KKN1 -TB21 GND\PE	=FU1.0101 +SK1 -GND GND\PE
42												
43	=.0201-W101	Konf.Ltg.Z	2x0.0 mm²	2	0	0.0			control cabinet lamp	1	=FU1.0201 +SK1 -TB40 1.L1A	=FU1.0201 +SK1 -FL101 L
44										2	=FU1.0201 +SK1 -TB40 2.L0A	=FU1.0201 +SK1 -FL101 N
45												
46	=.0201-W102	Konf.Ltg.Z	2x0.0 mm²	2	0	0.0			control cabinet lamp	1	=FU1.0201 +SK1 -TB40 3.L1A	=FU1.0201 +SK1 -FL102 L
47										2	=FU1.0201 +SK1 -TB40 4.L0A	=FU1.0201 +SK1 -FL102 N
48												
49	=.0201-W151	Konf.Ltg.Z PE	7x0.0 mm²	7	0	0.0			cooling unit main control panel	1	=FU1.0201 +SK1 -TB40 5	=FU1.0201 +SK1 -AC151 1
50										2	=FU1.0201 +SK1 -TB40 6	=FU1.0201 +SK1 -AC151 2
51										3	=FU1.0201 +SK1 -TB40 7	=FU1.0201 +SK1 -AC151 3
52										4	=FU1.0201 +SK1 -TB52 1.D+/1	=FU1.0201 +SK1 -AC151 8
53										5	=FU1.0201 +SK1 -TB52 1/2	=FU1.0201 +SK1 -AC151 9
54										6	=FU1.0201 +SK1 -TB40 8	=FU1.0201 +SK1 -AC151 _/_
55										PE	=FU1.0201 +SK1 -TB40 GND\PE	=FU1.0201 +SK1 -AC151 PE
56												
57	=.0201-W251	Oelflex 191	3x2.5 mm²	3	0	0.0		0902907788	electr.comp.serv.mode socket	1	=FU1.0201 +SK1 -A251 HOT	=FU1.0201 +SK1 -TB40 9.L1A
58										2	=FU1.0201 +SK1 -A251 NEUTRAL	=FU1.0201 +SK1 -TB40 10.L0A
59										PE	=FU1.0201 +SK1 -A251 GROUND	=FU1.0201 +SK1 -TB40 GND\PE
60												

date 29.08.2013
eng. Krupka
CAD Skala
machine model MODULFILL HRS
machine type
filler
version/ 02
client Lagunitas Brewing Company
cable assignment list
equi. K123989
K123989-001
XKB
sheet 01 25/56
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	KA003 cable	TY001 type	AD001 leads	BE004 leads used	RE001 reserve	LA002 length	AB002 insul. length	KRONES EDV no ED001	BE004 remarks	AD001 leads	VO004 of	NA002 to
1	=.0301-W671	TrayFlex II	7 G AWG14	7	0	0.0		0900071791	terminal strip	1	=FU1.0301 +SK1 -TB59A20 1	=FU1.0301 +KPV1 -TB51 1
2										2	=FU1.0301 +SK1 -TB59A20 2	=FU1.0301 +KPV1 -TB51 2
3										3	=FU1.0301 +SK1 -TB59A20 3.AM+	=FU1.0301 +KPV1 -TB51 3.AM+
4										4	=FU1.0301 +SK1 -TB59A20 4.AM-	=FU1.0301 +KPV1 -TB51 4.AM-
5										5	=FU1.0301 +SK1 -TB59A20 5.AN+	=FU1.0301 +KPV1 -TB51 5.AN+
6										6	=FU1.0301 +SK1 -TB59A20 6.AN-	=FU1.0301 +KPV1 -TB51 6.AN-
7										PE	=FU1.0301 +SK1 -TB59A20 GND\PE	=FU1.0301 +KPV1 -TB51 GND\PE
8												
9	=.0301-W701	JZ-602	4 G AWG8	4	0	0.0		7187360150	slip-ring transmitter	1	=FU1.0301 +SK1 -TB62 1.S+	=FU1.0301 +FKA1 -W701 +
10										2	=FU1.0301 +SK1 -TB62 2.S-	=FU1.0301 +FKA1 -W701 -
11										3	=FU1.0301 +SK1 -TB62 3	=FU1.0301 +FKA1 -W701 _/_
12										PE	=FU1.0301 +SK1 -TB62 GND\PE	=FU1.0301 +FKA1 -W701 PE
13												
14	=.0301-W701a	Konf.Ltg.Z PE	3x0.0 mm²	3	0	0.0			slip-ring transmitter	1	=FU1.0301 +KR1 -TB62 1.S+	=FU1.0301 +FKA1 -W701
15										2	=FU1.0301 +KR1 -TB62 2.S-	=FU1.0301 +FKA1 -W701
16										PE	=FU1.0301 +KR1 -TB62 GND\PE	=FU1.0301 +FKA1 -W701
17												
18	=.0301-W701b	Konf.Ltg.Z PE	3x0.0 mm²	3	0	0.0			slip-ring transmitter	1	=FU1.0301 +KR1 -TB62 3	=FU1.0301 +FKA1 -W701
19										2	=FU1.0301 +KR1 -TB62 4	=FU1.0301 +FKA1 -W701
20										PE	=FU1.0301 +KR1 -TB62 GND\PE	=FU1.0301 +FKA1 -W701
21												
22	=.0301-W701c	Konf.Ltg.Z PE SH	5x0.0 mm²	6	0	0.0			slip-ring transmitter	1	=FU1.2101 +KR1 -TB40 1	=FU1.0301 +FKA1 -W701
23										2	=FU1.2101 +KR1 -TB40 2	=FU1.0301 +FKA1 -W701
24										3	=FU1.2101 +KR1 -TB40 3	=FU1.0301 +FKA1 -W701
25										4	=FU1.2101 +KR1 -TB40 4	=FU1.0301 +FKA1 -W701
26										PE	=FU1.2101 +KR1 -TB40 GND\PE	=FU1.0301 +FKA1 -W701
27										SH	=FU1.2101 +KR1 -TB40 SH	=FU1.0301 +FKA1 -W701
28												
29	=.0301-W701d	Konf.Ltg.F16 SH	4x0.0 mm²	5	0	0.0			slip-ring transmitter data transfer	WH	=FU1.0301 +FKA1 -W701 WH	=FU1.6301 +KR1 -CN402 WH
30										OG	=FU1.0301 +FKA1 -W701 OG	=FU1.6301 +KR1 -CN402 OG
31										BU	=FU1.0301 +FKA1 -W701 BU	=FU1.6301 +KR1 -CN402 BU
32										YE	=FU1.0301 +FKA1 -W701 YE	=FU1.6301 +KR1 -CN402 YE
33										SH	=FU1.0301 +FKA1 -W701 SH	=FU1.6301 +KR1 -CN402 SH
34												
35	=.0301-W701e	Konf.Ltg.F16 SH	4x0.0 mm²	5	0	0.0			slip-ring transmitter data transfer	WH	=FU1.0301 +FKA1 -W701 WH	=FU1.6301 +KR1 -CN404 WH
36										OG	=FU1.0301 +FKA1 -W701 OG	=FU1.6301 +KR1 -CN404 OG
37										BU	=FU1.0301 +FKA1 -W701 BU	=FU1.6301 +KR1 -CN404 BU
38										YE	=FU1.0301 +FKA1 -W701 YE	=FU1.6301 +KR1 -CN404 YE
39										SH	=FU1.0301 +FKA1 -W701 SH	=FU1.6301 +KR1 -CN404 SH
40												
41	=.0301-W701f	Konf.Ltg.F12 SH	2x0.0 mm²	3	0	0.0			slip-ring transmitter	WH	=FU1.0301 +KR1 -TB52 1/1	=FU1.0301 +FKA1 -W701
42										BN	=FU1.0301 +KR1 -TB52 1/2	=FU1.0301 +FKA1 -W701
43										SH	=FU1.0301 +KR1 -TB52 SH	=FU1.0301 +FKA1 -W701
44												
45	=.0301-W701g	Konf.Ltg.F3	2x0.0 mm²	2	0	0.0			slip-ring transmitter	BN	=FU1.0301 +KR1 -TB52 2/1	=FU1.0301 +FKA1 -W701
46										BU	=FU1.0301 +KR1 -TB52 2/2	=FU1.0301 +FKA1 -W701
47												
48	=.0301-W721	JZ-602	7 G AWG14	7	0	0.0		7187360123	terminal strip	1	=FU1.0301 +SK1 -TB59A30 1.B+	=FU1.0301 +KKN1 -TB52 1.B+/1
49										2	=FU1.0301 +SK1 -TB59A30 2.B-	=FU1.0301 +KKN1 -TB52 1.B-/2
50										3	=FU1.0301 +SK1 -TB59A30 3.V+	=FU1.0301 +KKN1 -TB52 2.V+/1
51										4	=FU1.0301 +SK1 -TB59A30 4.V-	=FU1.0301 +KKN1 -TB52 2.V-/2
52										5	=FU1.0301 +SK1 -TB59A30 5.V1+	=FU1.0301 +KKN1 -TB52 3.V1+/1
53										6	=FU1.0301 +SK1 -TB59A30 6	=FU1.0301 +KKN1 -TB52 3/2
54										PE	=FU1.0301 +SK1 -TB59A30 GND\PE	=FU1.0301 +KKN1 -TB52 GND\PE
55												
56	=.0501-W233	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			Data line network connection Ethernet	*	=FU1.0501 +SK1 -COM232 RJ45	=FU1.0501 +SK1 -COM233 1
57												
58	=.0501-W238	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			electr.comp.serv.mode socket	*	=FU1.0501 +SK1 -COM233 6	=FU1.0201 +SK1 -A251 RJ45
59												
60	=.0501-W243	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			Data line network connection Ethernet	*	=FU1.0501 +SK1 -COM242 RJ45	=FU1.0501 +SK1 -COM243 1

date 29.08.2013
eng. CAD Krupka Skala
machine model MODULFILL HRS
machine type filler
cable assignment list
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		KA003 cable	TY001 type	AD001 leads	BE004 leads used	RE001 reserve	LA002 length	AB002 insul. length	ED001 KRONES EDV no	BE004 remarks	AD001 leads	VO004 of	NA002 to
	1	=.0501-W244	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			Data line network connection Ethernet	*	=FU1.0501 +SK1 -COM243 2	=FU1.0501 +SK1 -COM233 7
	2												
	3	=.0501-W253	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			Fieldbus Network connection Ethernet	*	=FU1.0501 +SK1 -COM252 RJ45	=FU1.0501 +SK1 -COM253 1
	4												
	5	=.0501-W282	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			Data line network connection Ethernet	*	=FU1.0501 +SK1 -COM243 8/o	=FU1.0501 +SK1 -CN142 BU
	6												
	7	=.0501-W9001	Profibus Fastcon	2x0.25 mm²		0	0.0		0900058799	height adjustment system1 centr.bell lift.cam bus connector	GN	=FU1.0501 +SK1 -CN272	=FU1.2101 +FKA1 -CN202
	8										RD	=FU1.0501 +SK1 -CN272	=FU1.2101 +FKA1 -CN202
	9										SH	=FU1.0501 +SK1 -CN272	=FU1.2101 +FKA1 -CN202
	10												
	11	=.0501-W9002	Profibus Fastcon	2x0.25 mm²		0	0.0		0900058799	height adjustment system2 centr.bell lift.cam bus connector	GN	=FU1.2101 +FKA1 -CN203	=FU1.2101 +FKA1 -CN212
	12										RD	=FU1.2101 +FKA1 -CN203	=FU1.2101 +FKA1 -CN212
	13										SH	=FU1.2101 +FKA1 -CN203	=FU1.2101 +FKA1 -CN212
	14												
	15	=.0501-W9003	Profibus Fastcon	2x0.25 mm²		0	0.0		0900058799	height adjustment system1 Pressurisation zone guards bus connector	GN	=FU1.2101 +FKA1 -CN213	=FU1.2102 +FKA1 -CN202
	16										RD	=FU1.2101 +FKA1 -CN213	=FU1.2102 +FKA1 -CN202
	17										SH	=FU1.2101 +FKA1 -CN213	=FU1.2102 +FKA1 -CN202
	18												
	19	=.0501-W9004	Profibus Fastcon	2x0.25 mm²		0	0.0		0900058799	height adjustment system2 Pressurisation zone guards bus connector	GN	=FU1.2102 +FKA1 -CN203	=FU1.2102 +FKA1 -CN212
	20										RD	=FU1.2102 +FKA1 -CN203	=FU1.2102 +FKA1 -CN212
	21										SH	=FU1.2102 +FKA1 -CN203	=FU1.2102 +FKA1 -CN212
	22												
	23	=.0502-W012	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			Point-I/O data communicat.board	*	=FU1.0501 +SK1 -COM253 2	=FU1.0502 +SK1 -COM012 Link1
	24												
	25	=.0503-W012	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			Point-I/O data communicat.board	*	=FU1.0503 +SK1 -COM012 Link1	=FU1.0502 +SK1 -COM012 Link2
	26												
	27	=.0503-W052	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			Point-I/O data communicat.board	*	=FU1.0503 +SK1 -COM052 Link1	=FU1.0503 +SK1 -COM012 Link2
	28												
	29	=.0506-W031	Simatic Net	2x2x0.64 mm²	5	0	0.0		0900033296	Ethernet connection data communicat.board	WH	=FU1.0506 +SK1 -CN031 WH	=FU1.0506 +KPV1 -CN032 WH
	30										OG	=FU1.0506 +SK1 -CN031 OG	=FU1.0506 +KPV1 -CN032 OG
	31										BU	=FU1.0506 +SK1 -CN031 BU	=FU1.0506 +KPV1 -CN032 BU
	32										YE	=FU1.0506 +SK1 -CN031 YE	=FU1.0506 +KPV1 -CN032 YE
	33										SH	=FU1.0506 +SK1 -CN031 SH	=FU1.0506 +KPV1 -CN032 SH
	34												
	35	=.0507-W031	Simatic Net	2x2x0.64 mm²	5	0	0.0		0900033296	Ethernet connection data communicat.board	WH	=FU1.0507 +SK1 -CN031 WH	=FU1.0507 +KKN1 -CN032 WH
	36										OG	=FU1.0507 +SK1 -CN031 OG	=FU1.0507 +KKN1 -CN032 OG
	37										BU	=FU1.0507 +SK1 -CN031 BU	=FU1.0507 +KKN1 -CN032 BU
	38										YE	=FU1.0507 +SK1 -CN031 YE	=FU1.0507 +KKN1 -CN032 YE
	39										SH	=FU1.0507 +SK1 -CN031 SH	=FU1.0507 +KKN1 -CN032 SH
	40												
	41	=.0520-W301	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			bus Controller	*	=FU1.6301 +KR1 -CN404	=FU1.0520 +KR1 -COM302 L/A IF2
	42												
	43	=.0597-W012	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			Point-I/O data communicat.board	*	=FU1.0597 +SK1 -COM012 Link1	=FU1.0503 +SK1 -COM052 Link2
	44												
	45	=.0601-W101	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			connection media converter	*	=FU1.0601 +SK1 -COM101 RJ45	=FU1.0601 +SK1 -COM102 1
	46												
	47	=.0601-W142	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			connection media converter	*	=FU1.0601 +SK1 -COM102 8/o	=FU1.0601 +SK1 -CN142 BU
	48												
	49	=.0901-W101	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			touch screen SDL	*	=FU1.0901 +SK1 -MMI103 MO/PA	=FU1.0901 +KK1 -MMI102 IN
	50												
	51	=.0901-W102	JZ-602	5 G AWG16	5	0	0.0		7187360112	touch screen SDL	1	=FU1.0901 +SK1 -TB59A10 1.BF+	=FU1.0901 +KK1 -MMI102 +
	52										2	=FU1.0901 +SK1 -TB59A10 2.BF-	=FU1.0901 +KK1 -MMI102 -
	53										3	=FU1.0901 +SK1 -TB59A10 3.O+	=FU1.0901 +KK1 -S011 X2.1
	54										4	=FU1.0901 +SK1 -TB59A10 4.P-	=FU1.0901 +KK1 -S011 X2.18
	55										PE	=FU1.0901 +SK1 -TB59A10 GND\PE	=FU1.0901 +KK1 -MMI102 PE
	56												
	57	=.0901-W103	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			touch screen SDL	*	=FU1.0501 +SK1 -COM233 3	=FU1.0901 +SK1 -MMI103 ETH1
	58												
	59												
	60												

date 29.08.2013
eng. Krupka
CAD Skala

machine model MODULFILL HRS
machine type filler
version/ 02

KRONES

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cable assignment list
equi. K123989
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	KA003 cable	TY001 type	AD001 leads	BE004 leads used	RE001 reserve	LA002 length	AB002 insul. length	ED001 KRONES EDV no		BE004 remarks	AD001 leads	VO004 of	NA002 to
1	=.0901-W202	JZ-602	18 G AWG16	18	0	0.0		7187360115	TA023	touch-button stripes	1	=FU1.0901 +SK1 -TB59A12 1	=FU1.0901 +KK1 -S011 _/ _
2									"		2	=FU1.0901 +SK1 -TB59A12 2	=FU1.0901 +KK1 -S011 X2.2
3									"		3	=FU1.0901 +SK1 -TB59A12 3	=FU1.0901 +KK1 -S011 X2.3
4									"		4	=FU1.0901 +SK1 -TB59A12 4	=FU1.0901 +KK1 -S011 X2.4
5									"		5	=FU1.0901 +SK1 -TB59A12 5	=FU1.0901 +KK1 -S011 X2.5
6									"		6	=FU1.0901 +SK1 -TB59A12 6	=FU1.0901 +KK1 -S011 X2.6
7									"		7	=FU1.0901 +SK1 -TB59A12 7	=FU1.0901 +KK1 -S011 X2.7
8									"		8	=FU1.0901 +SK1 -TB59A12 8	=FU1.0901 +KK1 -S011 X2.8
9									"		9	=FU1.0901 +SK1 -TB59A12 9	=FU1.0901 +KK1 -S011 X2.9
10									"		10	=FU1.0901 +SK1 -TB59A12 10	=FU1.0901 +KK1 -S011 X2.10
11									"		11	=FU1.0901 +SK1 -TB59A12 11	=FU1.0901 +KK1 -S011 X2.11
12									"		12	=FU1.0901 +SK1 -TB59A12 12	=FU1.0901 +KK1 -S011 X2.12
13									"		13	=FU1.0901 +SK1 -TB59A12 13	=FU1.0901 +KK1 -S011 X2.13
14									"		14	=FU1.0901 +SK1 -TB59A12 14	=FU1.0901 +KK1 -S011 X2.14
15									"		15	=FU1.0901 +SK1 -TB59A12 15	=FU1.0901 +KK1 -S011 X2.15
16									"		16	=FU1.0901 +SK1 -TB59A12 16	=FU1.0901 +KK1 -S011 X2.16
17									"		17	=FU1.0901 +SK1 -TB59A12 17	=FU1.0901 +KK1 -S011 X2.17
18									"		PE	=FU1.0901 +SK1 -TB59A12 GND\PE	=FU1.0901 +KK1 -S011 _/ _
19									"				
20	=.0901-W401	JZ-602	7 G AWG16	7	0	0.0		7187360113	SA003	signal beacon post	1	=FU1.0901 +SK1 -TB59A40 1.P-	=FU1.0901 +SU1 -CN401 0
21									"		2	=FU1.0901 +SK1 -TB59A40 2	=FU1.0901 +SU1 -CN401 1
22									"		3	=FU1.0901 +SK1 -TB59A40 3	=FU1.0901 +SU1 -CN401 2
23									"		4	=FU1.0901 +SK1 -TB59A40 4	=FU1.0901 +SU1 -CN401 3
24									"		5	=FU1.0901 +SK1 -TB59A40 5	=FU1.0901 +SU1 -CN401 4
25									"		6	=FU1.0901 +SK1 -TB59A40 6	=FU1.0901 +SU1 -CN401 _/ _
26									"		PE	=FU1.0901 +SK1 -TB59A40 GND\PE	=FU1.0901 +SU1 -CN401 _/ _
27									"				
28	=.0901-W501	JZ-602	5 G AWG18	5	0	0.0		0900018170	TA023	touch-button stripes	1	=FU1.0901 +SK1 -TB59A01 1	=FU1.0901 +KK1 -S011 X3.9
29									"		2	=FU1.0901 +SK1 -TB59A01 2	=FU1.0901 +KK1 -S011 X3.10
30									"		3	=FU1.0901 +SK1 -TB59A01 3	=FU1.0901 +KK1 -S011 X3.11
31									"		4	=FU1.0901 +SK1 -TB59A01 4	=FU1.0901 +KK1 -S011 X3.12
32									"		PE	=FU1.0901 +SK1 -TB59A01 GND\PE	=FU1.0901 +KK1 -S011 _/ _
33									"				
34	=.1101-W101	SPIKA	12x0.5 mm²	12	0	0.0		0901971322	NO009&VO006	emergency stop machine table	1	=FU1.1101 +SK1 -TB59A01 1	=FU1.1101 +SU1 -PB101 11
35									"		2	=FU1.1101 +SK1 -TB59A01 2	=FU1.1101 +SU1 -PB101 12
36									"		3	=FU1.1101 +SK1 -TB59A01 3	=FU1.1101 +SU1 -PB101 21
37									"		4	=FU1.1101 +SK1 -TB59A01 4	=FU1.1101 +SU1 -PB101 22
38									"		5	=FU1.1101 +SK1 -TB59A01 5	=FU1.1201 +SU1 -PB114 13
39									"		6	=FU1.1101 +SK1 -TB59A01 6	=FU1.1201 +SU1 -PB114 14
40									"		7	=FU1.1101 +SK1 -TB59A01 7	=FU1.1201 +SU1 -PB114 23
41									"		8	=FU1.1101 +SK1 -TB59A01 8	=FU1.1201 +SU1 -PB114 24
42									"		9	=FU1.1101 +SK1 -TB59A01 9.O+	=FU1.0901 +SU1 -SS203 13
43									"		10	=FU1.1101 +SK1 -TB59A01 10	=FU1.0901 +SU1 -SS203 14
44									"		11	=FU1.1101 +SK1 -TB59A01 11	=FU1.0901 +SU1 -SS203 24
45									"		PE	=FU1.1101 +SK1 -TB59A01 GND\PE	=FU1.1201 +SU1 -PB114 _/ _
46									"				
47	=.1101-W151	JZ-602	5 G AWG18	5	0	0.0		0900018170	TA023	touch-button stripes	1	=FU1.1101 +SK1 -TB59A03 1	=FU1.0901 +KK1 -S011 X3.3
48									"		2	=FU1.1101 +SK1 -TB59A03 2	=FU1.0901 +KK1 -S011 X3.4
49									"		3	=FU1.1101 +SK1 -TB59A03 3	=FU1.0901 +KK1 -S011 X3.5
50									"		4	=FU1.1101 +SK1 -TB59A03 4	=FU1.0901 +KK1 -S011 X3.6
51									"		PE	=FU1.1101 +SK1 -TB59A03 GND\PE	=FU1.0901 +KK1 -S011 _/ _
52									"				
53									"				
54									"				
55									"				
56									"				
57									"				
58									"				
59									"				
60									"				

date 29.08.2013
eng. Krupka
CAD Skala

machine model MODULFILL HRS
machine type filler
version/ 02

KRONES

client Lagunitas Brewing Company
cable assignment list
equi. K123989
K123989-001
XKB
sheet 04 28/56
999

	KA003 cable	TY001 type	AD001 leads	BE004 leads used	RE001 reserve	LA002 length	AB002 insul. length	ED001 KRONES EDV no	NC008	BE004 remarks	AD001 leads	VO004 of	NA002 to
1	=.1101-W152	SPIKA	12x0.5 mm²	12	0	0.0		0901971320	SC042#	emergency stop service door	1	=FU1.1101 +SK1 -TB59A02 1	=FU1.1101 +SU1 -FT152 15
2											2	=FU1.1101 +SK1 -TB59A02 2	=FU1.1101 +SU1 -FT152 16
3											3	=FU1.1101 +SK1 -TB59A02 3	=FU1.1101 +SU1 -FT152 35
4											4	=FU1.1101 +SK1 -TB59A02 4	=FU1.1101 +SU1 -FT152 36
5											5	=FU1.1101 +SK1 -TB59A02 5	=FU1.1101 +SU1 -FT152 23
6											6	=FU1.1101 +SK1 -TB59A02 6	=FU1.1101 +SU1 -FT152 24
7											7	=FU1.1101 +SK1 -TB59A02 7	=FU1.1101 +SU1 -FT152 43
8											8	=FU1.1101 +SK1 -TB59A02 8	=FU1.1101 +SU1 -FT152 44
9											9	=FU1.1101 +SK1 -TB59A02 9	=FU1.1101 +SU1 -FT152 _/_
10											10	=FU1.1101 +SK1 -TB59A02 10	=FU1.1101 +SU1 -FT152 _/_
11											11	=FU1.1101 +SK1 -TB59A02 11	=FU1.1101 +SU1 -FT152 _/_
12											PE	=FU1.1101 +SK1 -TB59A02 GND\PE	=FU1.1101 +SU1 -FT152 _/_
13													
14	=.1201-W111	TrayFlex II	9 G AWG16	9	0	0.0		0900977628	SC042#	guard door 1 machine guards closed	1	=FU1.1201 +SK1 -TB59A01 1	=FU1.1201 +SU1 -LS111 11
15											2	=FU1.1201 +SK1 -TB59A01 2	=FU1.1201 +SU1 -LS111 12
16											3	=FU1.1201 +SK1 -TB59A01 3	=FU1.1201 +SU1 -LS111 21
17											4	=FU1.1201 +SK1 -TB59A01 4	=FU1.1201 +SU1 -LS111 22
18											5	=FU1.1201 +SK1 -TB59A01 5	=FU1.1201 +SU1 -LS111 41
19											6	=FU1.1201 +SK1 -TB59A01 6	=FU1.1201 +SU1 -LS111 42
20											7	=FU1.1201 +SK1 -TB59A01 7	=FU1.1201 +SU1 -LS111 A1
21											8	=FU1.1201 +SK1 -TB59A01 8.P-	=FU1.1201 +SU1 -LS111 A2
22											PE	=FU1.1201 +SK1 -TB59A01 GND\PE	=FU1.1201 +SU1 -LS111 _/_
23													
24	=.1201-W113	JZ-602	7 G AWG16	7	0	0.0		7187360113	SC042#	guard door 1 release/unlock / Lock	1	=FU1.1201 +SK1 -TB59A11 1.O+	=FU1.1201 +SU1 -PB112 13
25											2	=FU1.1201 +SK1 -TB59A11 2	=FU1.1201 +SU1 -PB112 14
26											3	=FU1.1201 +SK1 -TB59A11 3	=FU1.1201 +SU1 -PB113 14
27											4	=FU1.1201 +SK1 -TB59A11 4	=FU1.1201 +SU1 -PL112 X1
28											5	=FU1.1201 +SK1 -TB59A11 5.P-	=FU1.1201 +SU1 -PL112 X2
29											6	=FU1.1201 +SK1 -TB59A11 6	=FU1.1201 +SU1 -PL113 X1
30											PE	=FU1.1201 +SK1 -TB59A11 GND\PE	=FU1.1201 +SU1 -PB113 _/_
31													
32	=.1201-W121	TrayFlex II	9 G AWG16	9	0	0.0		0900977628	SC042#	guard door 2 machine guards closed	1	=FU1.1201 +SK1 -TB59A02 1	=FU1.1201 +SU1 -LS121 11
33											2	=FU1.1201 +SK1 -TB59A02 2	=FU1.1201 +SU1 -LS121 12
34											3	=FU1.1201 +SK1 -TB59A02 3	=FU1.1201 +SU1 -LS121 21
35											4	=FU1.1201 +SK1 -TB59A02 4	=FU1.1201 +SU1 -LS121 22
36											5	=FU1.1201 +SK1 -TB59A02 5	=FU1.1201 +SU1 -LS121 41
37											6	=FU1.1201 +SK1 -TB59A02 6	=FU1.1201 +SU1 -LS121 42
38											7	=FU1.1201 +SK1 -TB59A02 7	=FU1.1201 +SU1 -LS121 A1
39											8	=FU1.1201 +SK1 -TB59A02 8.P-	=FU1.1201 +SU1 -LS121 A2
40											PE	=FU1.1201 +SK1 -TB59A02 GND\PE	=FU1.1201 +SU1 -LS121 _/_
41													
42	=.1201-W123	JZ-602	7 G AWG16	7	0	0.0		7187360113	SC042#	guard door 2 release/unlock / Lock	1	=FU1.1201 +SK1 -TB59A12 1.O+	=FU1.1201 +SU1 -PB122 13
43											2	=FU1.1201 +SK1 -TB59A12 2	=FU1.1201 +SU1 -PB122 14
44											3	=FU1.1201 +SK1 -TB59A12 3	=FU1.1201 +SU1 -PB123 14
45											4	=FU1.1201 +SK1 -TB59A12 4	=FU1.1201 +SU1 -PL122 X1
46											5	=FU1.1201 +SK1 -TB59A12 5.P-	=FU1.1201 +SU1 -PL122 X2
47											6	=FU1.1201 +SK1 -TB59A12 6	=FU1.1201 +SU1 -PL123 X1
48											PE	=FU1.1201 +SK1 -TB59A12 GND\PE	=FU1.1201 +SU1 -PB123 _/_
49													
50	=.1201-W131	TrayFlex II	9 G AWG16	9	0	0.0		0900977628	SC042#	guard door 3 machine guards closed	1	=FU1.1201 +SK1 -TB59A03 1	=FU1.1201 +SU1 -LS131 11
51											2	=FU1.1201 +SK1 -TB59A03 2	=FU1.1201 +SU1 -LS131 12
52											3	=FU1.1201 +SK1 -TB59A03 3	=FU1.1201 +SU1 -LS131 21
53											4	=FU1.1201 +SK1 -TB59A03 4	=FU1.1201 +SU1 -LS131 22
54											5	=FU1.1201 +SK1 -TB59A03 5	=FU1.1201 +SU1 -LS131 41
55											6	=FU1.1201 +SK1 -TB59A03 6	=FU1.1201 +SU1 -LS131 42
56											7	=FU1.1201 +SK1 -TB59A03 7	=FU1.1201 +SU1 -LS131 A1
57											8	=FU1.1201 +SK1 -TB59A03 8.P-	=FU1.1201 +SU1 -LS131 A2
58											PE	=FU1.1201 +SK1 -TB59A03 GND\PE	=FU1.1201 +SU1 -LS131 _/_
59													
60													

date 29.08.2013
eng. Krupka
CAD Skala

machine model MODULFILL HRS
machine type filler
version/ 02

client Lagunitas Brewing Company
cable assignment list
equi. K123989
K123989-001
XKB
sheet 05 29/56
999

KRONES

	KA003 cable	TY001 type	AD001 leads	BE004 leads used	RE001 reserve	LA002 length	AB002 insul. length	ED001 KRONES EDV no	BE004 remarks	AD001 leads	VO004 of	NA002 to
1	=.1201-W133	JZ-602	7 G AWG16	7	0	0.0		7187360113	guard door 3 release/unlock / Lock	1	=FU1.1201 +SK1 -TB59A13 1.O+	=FU1.1201 +SU1 -PB132 13
2										2	=FU1.1201 +SK1 -TB59A13 2	=FU1.1201 +SU1 -PB132 14
3										3	=FU1.1201 +SK1 -TB59A13 3	=FU1.1201 +SU1 -PB133 14
4										4	=FU1.1201 +SK1 -TB59A13 4	=FU1.1201 +SU1 -PL132 X1
5										5	=FU1.1201 +SK1 -TB59A13 5.P-	=FU1.1201 +SU1 -PL132 X2
6										6	=FU1.1201 +SK1 -TB59A13 6	=FU1.1201 +SU1 -PL133 X1
7										PE	=FU1.1201 +SK1 -TB59A13 GND\PE	=FU1.1201 +SU1 -PB133 _/ _
8												
9	=.1202-W111	TrayFlex II	9 G AWG16	9	0	0.0		0900977628	guard door 1 service door closed	1	=FU1.1202 +SK1 -TB59A01 1	=FU1.1202 +SU1 -LS111 11
10										2	=FU1.1202 +SK1 -TB59A01 2	=FU1.1202 +SU1 -LS111 12
11										3	=FU1.1202 +SK1 -TB59A01 3	=FU1.1202 +SU1 -LS111 21
12										4	=FU1.1202 +SK1 -TB59A01 4	=FU1.1202 +SU1 -LS111 22
13										5	=FU1.1202 +SK1 -TB59A01 5	=FU1.1202 +SU1 -LS111 41
14										6	=FU1.1202 +SK1 -TB59A01 6	=FU1.1202 +SU1 -LS111 42
15										7	=FU1.1202 +SK1 -TB59A01 7	=FU1.1202 +SU1 -LS111 A1
16										8	=FU1.1202 +SK1 -TB59A01 8.P-	=FU1.1202 +SU1 -LS111 A2
17										PE	=FU1.1202 +SK1 -TB59A01 GND\PE	=FU1.1202 +SU1 -LS111 _/ _
18												
19	=.1202-W113	JZ-602	7 G AWG16	7	0	0.0		7187360113	guard door 1 release/unlock / Lock	1	=FU1.1202 +SK1 -TB59A11 1.O+	=FU1.1202 +SU1 -PB112 13
20										2	=FU1.1202 +SK1 -TB59A11 2	=FU1.1202 +SU1 -PB112 14
21										3	=FU1.1202 +SK1 -TB59A11 3	=FU1.1202 +SU1 -PB113 14
22										4	=FU1.1202 +SK1 -TB59A11 4	=FU1.1202 +SU1 -PL112 X1
23										5	=FU1.1202 +SK1 -TB59A11 5.P-	=FU1.1202 +SU1 -PL112 X2
24										6	=FU1.1202 +SK1 -TB59A11 6	=FU1.1202 +SU1 -PL113 X1
25										PE	=FU1.1202 +SK1 -TB59A11 GND\PE	=FU1.1202 +SU1 -PB113 _/ _
26												
27	=.1501-W101	Konf.Ltg.F2	4x0.0 mm²	2	0	0.0			compr.-air press.monit. main air supply	BK	=FU1.0506 +KPV1 -IO412 0	=FU1.1501 +KPV1 -PS101 4
28										BN	=FU1.0506 +KPV1 -IO412 6	=FU1.1501 +KPV1 -PS101 1
29										BU		
30										WH		
31												
32	=.1501-W102	Konf.Ltg.F2	4x0.0 mm²	2	0	0.0			compr.-air press.monit. lift cylinder operating air <2bar	BK	=FU1.0506 +KPV1 -IO412 1	=FU1.1501 +KPV1 -PS102 4
33										BN	=FU1.0506 +KPV1 -IO412 7	=FU1.1501 +KPV1 -PS102 1
34										BU		
35										WH		
36												
37	=.1501-W103	Konf.Ltg.F2	4x0.0 mm²	2	0	0.0			compr.-air press.monit. lift cylinder excess pressure >4bar	BK		
38										BN	=FU1.0506 +KPV1 -IO414 11	=FU1.1501 +KPV1 -PS103 1
39										BU		
40										WH	=FU1.0506 +KPV1 -IO414 3	=FU1.1501 +KPV1 -PS103 2
41												
42	=.1501-W142	JZ-602	4 G AWG18	4	0	0.0		0900018159	centring bell monit.	1	=FU1.1501 +SK1 -TB59A10 1.B+	=FU1.1501 +FKA1 -P142 1
43										2	=FU1.1501 +SK1 -TB59A10 2.B-	=FU1.1501 +FKA1 -P142 3
44										3	=FU1.1501 +SK1 -TB59A10 3	=FU1.1501 +FKA1 -P142 4
45										PE	=FU1.1501 +SK1 -TB59A10 GND\PE	=FU1.1501 +FKA1 -P142 _/ _
46												
47	=.1501-W203	JZ-602	4 G AWG18	4	0	0.0		0900018159	back-up reject.conveyor	1	=FU1.1501 +SK1 -TB59A14 1.O+	=FU1.1501 +TBB1 -CN203 1
48										2	=FU1.1501 +SK1 -TB59A14 2.O-	=FU1.1501 +TBB1 -CN203 3
49										3	=FU1.1501 +SK1 -TB59A14 3	=FU1.1501 +TBB1 -CN203 4
50										PE	=FU1.1501 +SK1 -TB59A14 GND\PE	=FU1.1501 +TBB1 -CN203 _/ _
51												
52	=.1501-W212R	Konf.Ltg.F2	4x0.0 mm²	4	0	0.0			back-up accumulation table	BK	=FU1.1501 +SK1 -TB59A20 3	=FU1.1501 +TBB1 -P212R
53										BN	=FU1.1501 +SK1 -TB59A20 1.O+	=FU1.1501 +TBB1 -P212R
54										BU	=FU1.1501 +SK1 -TB59A20 2.O-	=FU1.1501 +TBB1 -P212R
55										WH	=FU1.1501 +SK1 -TB59A20 4	=FU1.1501 +TBB1 -P212R
56												
57	=.1501-W212S	Konf.Ltg.F2	4x0.0 mm²	4	0	0.0			back-up accumulation table	BK	=FU1.1501 +SK1 -TB59A19 3	=FU1.1501 +TBB1 -P212S
58										BN	=FU1.1501 +SK1 -TB59A19 1.O+	=FU1.1501 +TBB1 -P212S
59										BU	=FU1.1501 +SK1 -TB59A19 2.O-	=FU1.1501 +TBB1 -P212S
60										WH	=FU1.1501 +SK1 -TB59A19 4	=FU1.1501 +TBB1 -P212S

date 29.08.2013
eng. Krupka
CAD Skala
machine model MODULFILL HRS
machine type filler
version/ 02
client Lagunitas Brewing Company
cable assignment list
equi. K123989
K123989-001
XKB
sheet 06 30/56
999
KRONES

	KA003 cable	TY001 type	AD001 leads	BE004 leads used	RE001 reserve	LA002 length	AB002 insul. length	KRONES EDV no ED001	BE004 remarks	AD001 leads	VO004 of	NA002 to
1	=.1701-W101	LIYCY	5x0.5 mm²	6	0	0.0		7870305005	sensor simulation	WH	=FU1.2025 +SK1 -K113 1	=FU1.1701 +SK1 -T101 X1.1
2										BN	=FU1.2025 +SK1 -K113 3	=FU1.1701 +SK1 -T101 X1.2
3										GN	=FU1.2025 +SK1 -K113 5	=FU1.1701 +SK1 -T101 X1.5
4										YE	=FU1.2025 +SK1 -K113 6	=FU1.1701 +SK1 -T101 X1.3
5										GY	=FU1.2025 +SK1 -K113 7	=FU1.1701 +SK1 -T101 X1.4
6										SH	=FU1.2025 +SK1 -AFD101 SH	=FU1.1701 +SK1 -TB52 SH
7												
8	=.1701-W171	JZ-602	4 G AWG18	4	0	0.0		0900018159	container present 1 infeed	1	=FU1.1701 +SK1 -TB59A02 1.B+	=FU1.1701 +FKA1 -P171 1
9										2	=FU1.1701 +SK1 -TB59A02 2.B-	=FU1.1701 +FKA1 -P171 3
10										3	=FU1.1701 +SK1 -TB59A02 3	=FU1.1701 +FKA1 -P171 4
11										PE	=FU1.1701 +SK1 -TB59A02 GND\PE	=FU1.1701 +FKA1 -P171 _/ _
12												
13	=.1701-W173	JZ-602	4 G AWG18	4	0	0.0		0900018159	rupture detect. system 1	1	=FU1.1701 +SK1 -TB59A04 1.B+	=FU1.1701 +FKA1 -P173 1
14										2	=FU1.1701 +SK1 -TB59A04 2.B-	=FU1.1701 +FKA1 -P173 3
15										3	=FU1.1701 +SK1 -TB59A04 3	=FU1.1701 +FKA1 -P173 4
16										PE	=FU1.1701 +SK1 -TB59A04 GND\PE	=FU1.1701 +FKA1 -P173 _/ _
17												
18	=.1701-W181	Konf.Ltg.F2	4x0.0 mm²	4	0	0.0			revolution clock pulse closer	BK	=FU1.1701 +SK1 -TB59A06 3	=FU1.1701 +ALM1 -P181
19										BN	=FU1.1701 +SK1 -TB59A06 1.B+	=FU1.1701 +ALM1 -P181
20										BU	=FU1.1701 +SK1 -TB59A06 2.B-	=FU1.1701 +ALM1 -P181
21										WH	=FU1.1701 +SK1 -TB59A06 4	=FU1.1701 +ALM1 -P181
22												
23	=.1701-W184	JZ-602	4 G AWG18	4	0	0.0		0900018159	rupture detect. system 2	1	=FU1.1701 +SK1 -TB59A09 1.B+	=FU1.1701 +FKA1 -P184 1
24										2	=FU1.1701 +SK1 -TB59A09 2.B-	=FU1.1701 +FKA1 -P184 3
25										3	=FU1.1701 +SK1 -TB59A09 3	=FU1.1701 +FKA1 -P184 4
26										PE	=FU1.1701 +SK1 -TB59A09 GND\PE	=FU1.1701 +FKA1 -P184 _/ _
27												
28	=.2001-W202	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			central component unit	*	=FU1.0501 +SK1 -COM233 5	=FU1.2001 +SK1 -CPU202 IF2
29												
30	=.2001-W241	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			central component unit	*	=FU1.2001 +SK1 -COM241 1	=FU1.2001 +SK1 -CPU202 IF3
31												
32	=.2001-W321	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			power supply unit power module	*	=FU1.2001 +SK1 -COM241 2	=FU1.2001 +SK1 -PSU311 X3.A
33												
34	=.2005-W101	Konf.Ltg.Z PE SH	4x0.0 mm²	5	0	0.0			drive Emergency power supply unit	1	=FU1.2005 +SK1 -AFD101 X5A.U	=FU1.2005 +SK1 -MTR101 U1
35										2	=FU1.2005 +SK1 -AFD101 X5A.V	=FU1.2005 +SK1 -MTR101 V1
36										3	=FU1.2005 +SK1 -AFD101 X5A.W	=FU1.2005 +SK1 -MTR101 W1
37										PE	=FU1.2005 +SK1 -AFD101 X5A.PE	=FU1.2005 +SK1 -MTR101 PE
38										SH	=FU1.2005 +SK1 -AFD101 SH	=FU1.2005 +SK1 -MTR101 SH
39												
40	=.2005-W111	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			power supply unit power module	*	=FU1.2005 +SK1 -AFD101 X3.A	=FU1.2001 +SK1 -PSU311 X3.B
41												
42	=.2005-W132	Konf.Ltg.F1 SH	4x2x0.0 mm²	9	0	0.0			drive Emergency power supply unit	WH	=FU1.2005 +SK1 -CN131 2	=FU1.2005 +SK1 -MTR101 10
43										BN	=FU1.2005 +SK1 -CN131 1	=FU1.2005 +SK1 -MTR101 9
44										GN	=FU1.2005 +SK1 -CN131 7	=FU1.2005 +SK1 -MTR101 6
45										YE	=FU1.2005 +SK1 -CN131 3	=FU1.2005 +SK1 -MTR101 5
46										GY	=FU1.2005 +SK1 -CN131 9	=FU1.2005 +SK1 -MTR101 2
47										PK	=FU1.2005 +SK1 -CN131 5	=FU1.2005 +SK1 -MTR101 1
48										BU	=FU1.2005 +SK1 -CN131 8	=FU1.2005 +SK1 -MTR101 4
49										RD	=FU1.2005 +SK1 -CN131 4	=FU1.2005 +SK1 -MTR101 3
50										SH	=FU1.2005 +SK1 -CN131 SH	=FU1.2005 +SK1 -MTR101 SH
51												
52	=.2010-W101	Konf.Ltg.F1 PESH	8x0.0 mm²	9	0	0.0			discharge starwheel rinser	BN	=FU1.2010 +SK1 -AFD101 X5A.V	=FU1.2010 +ELM1-MTR101 4
53										BK	=FU1.2010 +SK1 -AFD101 X5A.W	=FU1.2010 +ELM1-MTR101 3
54										BU	=FU1.2010 +SK1 -AFD101 X5A.U	=FU1.2010 +ELM1-MTR101 1
55										GNYE	=FU1.2010 +SK1 -AFD101 X5A.PE	=FU1.2010 +ELM1-MTR101 2
56										WHRD	=FU1.2010 +SK1 -AFD101 _/ _	=FU1.2010 +ELM1-MTR101 B
57										WH	=FU1.2010 +SK1 -AFD101 _/ _	=FU1.2010 +ELM1-MTR101 A
58										WHGN	=FU1.2010 +SK1 -AFD101 X4A.B-	=FU1.2010 +ELM1-MTR101 D
59										WHBU	=FU1.2010 +SK1 -AFD101 X4A.B+	=FU1.2010 +ELM1-MTR101 C
60										SH	=FU1.2010 +SK1 -AFD101 SH	=FU1.2010 +ELM1-MTR101 SH

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	KA003 cable	TY001 type	AD001 leads	BE004 leads used	RE001 reserve	LA002 length	AB002 insul. length	ED001 KRONES EDV no	BE004 remarks	AD001 leads	VO004 of	NA002 to
1	=.2010-W102	Konf.Ltg.Z PE	3x0.0 mm²	3	0	0.0			discharge starwheel rinser fan/ventilator	1	=FU1.2010 +SK1 -TB59A01 1.BC1+	=FU1.2010 +ELM1 -FN102 +
2										2	=FU1.2010 +SK1 -TB59A01 2.BC-	=FU1.2010 +ELM1 -FN102 -
3										PE	=FU1.2010 +SK1 -TB59A01 GND\PE	=FU1.2010 +ELM1 -FN102 PE
4												
5	=.2010-W111	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			drive Emergency power supply unit	*	=FU1.2010 +SK1 -AFD101 X3.A	=FU1.2005 +SK1 -AFD101 X3.B
6												
7	=.2010-W131	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			Speed monitoring discharge starwheel rinser	*	=FU1.2010 +SK1 -W131	=FU1.2010 +SK1 -F131 RJ45
8												
9	=.2010-W132	Konf.Ltg.F4 SH	4x2x0.0+2x0.0 mm²	11	0	0.0			discharge starwheel rinser	WH	=FU1.2010 +SK1 -CN131 2	=FU1.2010 +ELM1-MTR101 11
10										BN	=FU1.2010 +SK1 -CN131 4	=FU1.2010 +ELM1-MTR101 12
11										GN	=FU1.2010 +SK1 -CN131 1	=FU1.2010 +ELM1-MTR101 5
12										YE	=FU1.2010 +SK1 -CN131 9	=FU1.2010 +ELM1-MTR101 6
13										GY	=FU1.2010 +SK1 -CN131 3	=FU1.2010 +ELM1-MTR101 3
14										PK	=FU1.2010 +SK1 -CN131 11	=FU1.2010 +ELM1-MTR101 4
15										BU	=FU1.2010 +SK1 -CN131 5	=FU1.2010 +ELM1-MTR101 8
16										RD	=FU1.2010 +SK1 -CN131 13	=FU1.2010 +ELM1-MTR101 7
17										BK	=FU1.2010 +SK1 -CN131 7	=FU1.2010 +ELM1-MTR101 9
18										VT	=FU1.2010 +SK1 -CN131 14	=FU1.2010 +ELM1-MTR101 10
19										SH	=FU1.2010 +SK1 -CN131 SH	=FU1.2010 +ELM1-MTR101 SH
20												
21	=.2015-W101	Konf.Ltg.F1 PESH	8x0.0 mm²	9	0	0.0			Centre starwheel rinser	BN	=FU1.2015 +SK1 -AFD101 X5A.V	=FU1.2015 +ELM1-MTR101 4
22										BK	=FU1.2015 +SK1 -AFD101 X5A.W	=FU1.2015 +ELM1-MTR101 3
23										BU	=FU1.2015 +SK1 -AFD101 X5A.U	=FU1.2015 +ELM1-MTR101 1
24										GNYE	=FU1.2015 +SK1 -AFD101 X5A.PE	=FU1.2015 +ELM1-MTR101 2
25										WHRD	=FU1.2015 +SK1 -AFD101 _/ _	=FU1.2015 +ELM1-MTR101 B
26										WH	=FU1.2015 +SK1 -AFD101 _/ _	=FU1.2015 +ELM1-MTR101 A
27										WHGN	=FU1.2015 +SK1 -AFD101 X4A.B-	=FU1.2015 +ELM1-MTR101 D
28										WHBU	=FU1.2015 +SK1 -AFD101 X4A.B+	=FU1.2015 +ELM1-MTR101 C
29										SH	=FU1.2015 +SK1 -AFD101 SH	=FU1.2015 +ELM1-MTR101 SH
30												
31	=.2015-W102	Konf.Ltg.Z PE	3x0.0 mm²	3	0	0.0			Centre starwheel rinser fan/ventilator	1	=FU1.2015 +SK1 -TB59A01 1.BC1+	=FU1.2015 +ELM1 -FN102 +
32										2	=FU1.2015 +SK1 -TB59A01 2.BC-	=FU1.2015 +ELM1 -FN102 -
33										PE	=FU1.2015 +SK1 -TB59A01 GND\PE	=FU1.2015 +ELM1 -FN102 PE
34												
35	=.2015-W111	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			discharge starwheel rinser	*	=FU1.2015 +SK1 -AFD101 X3.A	=FU1.2010 +SK1 -AFD101 X3.B
36												
37	=.2015-W131	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			Speed monitoring Centre starwheel rinser	*	=FU1.2015 +SK1 -W131	=FU1.2015 +SK1 -F131 RJ45
38												
39	=.2015-W132	Konf.Ltg.F4 SH	4x2x0.0+2x0.0 mm²	11	0	0.0			Centre starwheel rinser	WH	=FU1.2015 +SK1 -CN131 2	=FU1.2015 +ELM1-MTR101 11
40										BN	=FU1.2015 +SK1 -CN131 4	=FU1.2015 +ELM1-MTR101 12
41										GN	=FU1.2015 +SK1 -CN131 1	=FU1.2015 +ELM1-MTR101 5
42										YE	=FU1.2015 +SK1 -CN131 9	=FU1.2015 +ELM1-MTR101 6
43										GY	=FU1.2015 +SK1 -CN131 3	=FU1.2015 +ELM1-MTR101 3
44										PK	=FU1.2015 +SK1 -CN131 11	=FU1.2015 +ELM1-MTR101 4
45										BU	=FU1.2015 +SK1 -CN131 5	=FU1.2015 +ELM1-MTR101 8
46										RD	=FU1.2015 +SK1 -CN131 13	=FU1.2015 +ELM1-MTR101 7
47										BK	=FU1.2015 +SK1 -CN131 7	=FU1.2015 +ELM1-MTR101 9
48										VT	=FU1.2015 +SK1 -CN131 14	=FU1.2015 +ELM1-MTR101 10
49										SH	=FU1.2015 +SK1 -CN131 SH	=FU1.2015 +ELM1-MTR101 SH
50												
51	=.2020-W101	Konf.Ltg.F1 PESH	8x0.0 mm²	9	0	0.0			infeed starwheel carrousel	BN	=FU1.2020 +SK1 -AFD101 X5A.V	=FU1.2020 +ELM1-MTR101 4
52										BK	=FU1.2020 +SK1 -AFD101 X5A.W	=FU1.2020 +ELM1-MTR101 3
53										BU	=FU1.2020 +SK1 -AFD101 X5A.U	=FU1.2020 +ELM1-MTR101 1
54										GNYE	=FU1.2020 +SK1 -AFD101 X5A.PE	=FU1.2020 +ELM1-MTR101 2
55										WHRD	=FU1.2020 +SK1 -AFD101 _/ _	=FU1.2020 +ELM1-MTR101 B
56										WH	=FU1.2020 +SK1 -AFD101 _/ _	=FU1.2020 +ELM1-MTR101 A
57										WHGN	=FU1.2020 +SK1 -AFD101 X4A.B-	=FU1.2020 +ELM1-MTR101 D
58										WHBU	=FU1.2020 +SK1 -AFD101 X4A.B+	=FU1.2020 +ELM1-MTR101 C
59										SH	=FU1.2020 +SK1 -AFD101 SH	=FU1.2020 +ELM1-MTR101 SH
60												

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	KA003 cable	TY001 type	AD001 leads	BE004 leads used	RE001 reserve	LA002 length	AB002 insul. length	ED001 KRONES EDV no	BE004 remarks	AD001 leads	VO004 of	NA002 to
1	=.2020-W102	Konf.Ltg.Z PE	3x0.0 mm²	3	0	0.0			infeed starwheel carrousel fan/ventilator	1	=FU1.2020 +SK1 -TB59A01 1.BC1+	=FU1.2020 +ELM1 -FN102 +
2										2	=FU1.2020 +SK1 -TB59A01 2.BC-	=FU1.2020 +ELM1 -FN102 -
3										PE	=FU1.2020 +SK1 -TB59A01 GND\PE	=FU1.2020 +ELM1 -FN102 PE
4												
5	=.2020-W111	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			Centre starwheel rinser	*	=FU1.2020 +SK1 -AFD101 X3.A	=FU1.2015 +SK1 -AFD101 X3.B
6												
7	=.2020-W131	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			Speed monitoring infeed starwheel carrousel	*	=FU1.2020 +SK1 -W131	=FU1.2020 +SK1 -F131 RJ45
8												
9	=.2020-W132	Konf.Ltg.F4 SH	4x2x0.0+2x0.0 mm²	11	0	0.0			infeed starwheel carrousel	WH	=FU1.2020 +SK1 -CN131 2	=FU1.2020 +ELM1-MTR101 11
10										BN	=FU1.2020 +SK1 -CN131 4	=FU1.2020 +ELM1-MTR101 12
11										GN	=FU1.2020 +SK1 -CN131 1	=FU1.2020 +ELM1-MTR101 5
12										YE	=FU1.2020 +SK1 -CN131 9	=FU1.2020 +ELM1-MTR101 6
13										GY	=FU1.2020 +SK1 -CN131 3	=FU1.2020 +ELM1-MTR101 3
14										PK	=FU1.2020 +SK1 -CN131 11	=FU1.2020 +ELM1-MTR101 4
15										BU	=FU1.2020 +SK1 -CN131 5	=FU1.2020 +ELM1-MTR101 8
16										RD	=FU1.2020 +SK1 -CN131 13	=FU1.2020 +ELM1-MTR101 7
17										BK	=FU1.2020 +SK1 -CN131 7	=FU1.2020 +ELM1-MTR101 9
18										VT	=FU1.2020 +SK1 -CN131 14	=FU1.2020 +ELM1-MTR101 10
19										SH	=FU1.2020 +SK1 -CN131 SH	=FU1.2020 +ELM1-MTR101 SH
20												
21	=.2025-W101	Konf.Ltg.Z PE SH	3x0.0+4x0.0 mm²	8	0	0.0			carrousel filler	1	=FU1.2025 +SK1 -K171 13	=FU1.2025 +FKA1-MTR101 3
22										2	=FU1.2025 +SK1 -K171 14	=FU1.2025 +FKA1-MTR101 4
23										3	=FU1.2025 +SK1 -K171 15	=FU1.2025 +FKA1-MTR101 5
24										4	=FU1.2025 +SK1 -AFD101 X5A.U	=FU1.2025 +FKA1-MTR101 U1
25										5	=FU1.2025 +SK1 -AFD101 X5A.V	=FU1.2025 +FKA1-MTR101 V1
26										6	=FU1.2025 +SK1 -AFD101 X5A.W	=FU1.2025 +FKA1-MTR101 W1
27										PE	=FU1.2025 +SK1 -AFD101 X5A.PE	=FU1.2025 +FKA1-MTR101 PE
28										SH	=FU1.2025 +SK1 -AFD101 SH	=FU1.2025 +FKA1-MTR101 SH
29												
30	=.2025-W102	Konf.Ltg.F2	4x0.0 mm²	4	0	0.0			carrousel filler fan/ventilator	BK	=FU1.2025 +SK1 -TB59A01 4	=FU1.2025 +FKA1 -CN102 4
31										BN	=FU1.2025 +SK1 -TB59A01 1.BC1+	=FU1.2025 +FKA1 -CN102 1
32										BU	=FU1.2025 +SK1 -TB59A01 2.BC-	=FU1.2025 +FKA1 -CN102 3
33										WH	=FU1.2025 +SK1 -TB59A01 3	=FU1.2025 +FKA1 -CN102 2
34												
35	=.2025-W104	Konf.Ltg.Z PE	3x0.0 mm²	3	0	0.0			carrousel filler fan/ventilator	1	=FU1.2025 +SK1 -TB59A04 1.BC1+	=FU1.2025 +FKA1 -FN104 +
36										2	=FU1.2025 +SK1 -TB59A04 2.BC-	=FU1.2025 +FKA1 -FN104 -
37										PE	=FU1.2025 +SK1 -TB59A04 GND\PE	=FU1.2025 +FKA1 -FN104 PE
38												
39	=.2025-W111	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			infeed starwheel carrousel	*	=FU1.2025 +SK1 -AFD101 X3.A	=FU1.2020 +SK1 -AFD101 X3.B
40												
41	=.2025-W131	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			Speed monitoring carrousel filler	*	=FU1.2025 +SK1 -W131	=FU1.2025 +SK1 -F131 RJ45
42												
43	=.2025-W132	Konf.Ltg.F4 SH	4x2x0.0+2x0.0 mm²	11	0	0.0			carrousel filler	WH	=FU1.2025 +SK1 -CN131 2	=FU1.2025 +FKA1-MTR101 11
44										BN	=FU1.2025 +SK1 -CN131 4	=FU1.2025 +FKA1-MTR101 12
45										GN	=FU1.2025 +SK1 -CN131 1	=FU1.2025 +FKA1-MTR101 5
46										YE	=FU1.2025 +SK1 -CN131 9	=FU1.2025 +FKA1-MTR101 6
47										GY	=FU1.2025 +SK1 -CN131 3	=FU1.2025 +FKA1-MTR101 3
48										PK	=FU1.2025 +SK1 -CN131 11	=FU1.2025 +FKA1-MTR101 4
49										BU	=FU1.2025 +SK1 -CN131 5	=FU1.2025 +FKA1-MTR101 8
50										RD	=FU1.2025 +SK1 -CN131 13	=FU1.2025 +FKA1-MTR101 7
51										BK	=FU1.2025 +SK1 -CN131 7	=FU1.2025 +FKA1-MTR101 9
52										VT	=FU1.2025 +SK1 -CN131 14	=FU1.2025 +FKA1-MTR101 10
53										SH	=FU1.2025 +SK1 -CN131 SH	=FU1.2025 +FKA1-MTR101 SH
54												
55	=.2025-W171	JZ-602-CY	3 G AWG14	4	0	0.0		0900190283	carrousel filler	1	=FU1.2025 +SK1 -K171 3	=FU1.2025 +SK1 -AFD101 X4A.B+
56										2	=FU1.2025 +SK1 -K171 4	=FU1.2025 +SK1 -AFD101 X4A.B-
57										PE	=FU1.2025 +SK1 -TB52 GND\PE	=FU1.2025 +SK1 -AFD101 _/_
58										SH	=FU1.2025 +SK1 -TB52 SH	=FU1.2025 +SK1 -AFD101 SH
59												
60												

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	KA003 cable	TY001 type	AD001 leads	BL004 leads used	RE001 reserve	LA002 length	AB002 insul. length	ED001 KRONES EDV no	BE004 remarks	AD001 leads	VO004 of	NA002 to
1	=.2030-W101	Konf.Ltg.F1 PESH	8x0.0 mm²	9	0	0.0			discharge starwheel carrousel	BN	=FU1.2030 +SK1 -AFD101 X5A.V	=FU1.2030 +ALM1-MTR101 4
2										BK	=FU1.2030 +SK1 -AFD101 X5A.W	=FU1.2030 +ALM1-MTR101 3
3										BU	=FU1.2030 +SK1 -AFD101 X5A.U	=FU1.2030 +ALM1-MTR101 1
4										GNYE	=FU1.2030 +SK1 -AFD101 X5A.PE	=FU1.2030 +ALM1-MTR101 2
5										WHRD	=FU1.2030 +SK1 -AFD101 _/ _	=FU1.2030 +ALM1-MTR101 B
6										WH	=FU1.2030 +SK1 -AFD101 _/ _	=FU1.2030 +ALM1-MTR101 A
7										WHGN	=FU1.2030 +SK1 -AFD101 X4A.B-	=FU1.2030 +ALM1-MTR101 D
8										WHBU	=FU1.2030 +SK1 -AFD101 X4A.B+	=FU1.2030 +ALM1-MTR101 C
9										SH	=FU1.2030 +SK1 -AFD101 SH	=FU1.2030 +ALM1-MTR101 SH
10												
11	=.2030-W102	Konf.Ltg.Z PE	3x0.0 mm²	3	0	0.0			discharge starwheel carrousel fan/ventilator	1	=FU1.2030 +SK1 -TB59A01 1.BC1+	=FU1.2030 +ALM1 -FN102 +
12										2	=FU1.2030 +SK1 -TB59A01 2.BC-	=FU1.2030 +ALM1 -FN102 -
13										PE	=FU1.2030 +SK1 -TB59A01 GND\PE	=FU1.2030 +ALM1 -FN102 PE
14												
15	=.2030-W111	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			carrousel filler	*	=FU1.2030 +SK1 -AFD101 X3.A	=FU1.2025 +SK1 -AFD101 X3.B
16												
17	=.2030-W131	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			Speed monitoring discharge starwheel carrousel	*	=FU1.2030 +SK1 -W131	=FU1.2030 +SK1 -F131 RJ45
18												
19	=.2030-W132	Konf.Ltg.F4 SH	4x2x0.0+2x0.0 mm²	11	0	0.0			discharge starwheel carrousel	WH	=FU1.2030 +SK1 -CN131 2	=FU1.2030 +ALM1-MTR101 11
20										BN	=FU1.2030 +SK1 -CN131 4	=FU1.2030 +ALM1-MTR101 12
21										GN	=FU1.2030 +SK1 -CN131 1	=FU1.2030 +ALM1-MTR101 5
22										YE	=FU1.2030 +SK1 -CN131 9	=FU1.2030 +ALM1-MTR101 6
23										GY	=FU1.2030 +SK1 -CN131 3	=FU1.2030 +ALM1-MTR101 3
24										PK	=FU1.2030 +SK1 -CN131 11	=FU1.2030 +ALM1-MTR101 4
25										BU	=FU1.2030 +SK1 -CN131 5	=FU1.2030 +ALM1-MTR101 8
26										RD	=FU1.2030 +SK1 -CN131 13	=FU1.2030 +ALM1-MTR101 7
27										BK	=FU1.2030 +SK1 -CN131 7	=FU1.2030 +ALM1-MTR101 9
28										VT	=FU1.2030 +SK1 -CN131 14	=FU1.2030 +ALM1-MTR101 10
29										SH	=FU1.2030 +SK1 -CN131 SH	=FU1.2030 +ALM1-MTR101 SH
30												
31	=.2035-W101	Konf.Ltg.Z PE SH	4x0.0 mm²	5	0	0.0			servo drive closer1	1	=FU1.2035 +SK1 -AFD101 X5A.U	=FU1.2035 +ALM1-MTR101 U1
32										2	=FU1.2035 +SK1 -AFD101 X5A.V	=FU1.2035 +ALM1-MTR101 V1
33										3	=FU1.2035 +SK1 -AFD101 X5A.W	=FU1.2035 +ALM1-MTR101 W1
34										PE	=FU1.2035 +SK1 -AFD101 X5A.PE	=FU1.2035 +ALM1-MTR101 PE
35										SH	=FU1.2035 +SK1 -AFD101 SH	=FU1.2035 +ALM1-MTR101 SH
36												
37	=.2035-W102	Konf.Ltg.F2	4x0.0 mm²	4	0	0.0			servo drive closer1 fan/ventilator	BK	=FU1.2035 +SK1 -TB59A01 4	=FU1.2035 +ALM1 -CN102 4
38										BN	=FU1.2035 +SK1 -TB59A01 1.BC1+	=FU1.2035 +ALM1 -CN102 1
39										BU	=FU1.2035 +SK1 -TB59A01 2.BC-	=FU1.2035 +ALM1 -CN102 3
40										WH	=FU1.2035 +SK1 -TB59A01 3	=FU1.2035 +ALM1 -CN102 2
41												
42	=.2035-W111	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			discharge starwheel carrousel	*	=FU1.2035 +SK1 -AFD101 X3.A	=FU1.2030 +SK1 -AFD101 X3.B
43												
44	=.2035-W131	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			Speed monitoring servo drive closer1	*	=FU1.2035 +SK1 -W131	=FU1.2035 +SK1 -F131 RJ45
45												
46	=.2035-W132	Konf.Ltg.F4 SH	4x2x0.0+2x0.0 mm²	11	0	0.0			servo drive closer1	WH	=FU1.2035 +SK1 -CN131 2	=FU1.2035 +ALM1-MTR101 11
47										BN	=FU1.2035 +SK1 -CN131 4	=FU1.2035 +ALM1-MTR101 12
48										GN	=FU1.2035 +SK1 -CN131 1	=FU1.2035 +ALM1-MTR101 5
49										YE	=FU1.2035 +SK1 -CN131 9	=FU1.2035 +ALM1-MTR101 6
50										GY	=FU1.2035 +SK1 -CN131 3	=FU1.2035 +ALM1-MTR101 3
51										PK	=FU1.2035 +SK1 -CN131 11	=FU1.2035 +ALM1-MTR101 4
52										BU	=FU1.2035 +SK1 -CN131 5	=FU1.2035 +ALM1-MTR101 8
53										RD	=FU1.2035 +SK1 -CN131 13	=FU1.2035 +ALM1-MTR101 7
54										BK	=FU1.2035 +SK1 -CN131 7	=FU1.2035 +ALM1-MTR101 9
55										VT	=FU1.2035 +SK1 -CN131 14	=FU1.2035 +ALM1-MTR101 10
56										SH	=FU1.2035 +SK1 -CN131 SH	=FU1.2035 +ALM1-MTR101 SH
57												
58												
59												
60												

	KA003 cable	TY001 type	AD001 leads	BE004 leads used	RE001 reserve	LA002 length	AB002 insul. length	KRONES EDV no	ED001	BE004 remarks	AD001 leads	VO004 of	NA002 to
1	=.2040-W101	Konf.Ltg.F1 PESH	8x0.0 mm²	9	0	0.0			AU0438VE015#1	discharge starwheel closer1	BN	=FU1.2040 +SK1 -AFD101 X5A.V	=FU1.2040 +ALM1-MTR101 4
2											BK	=FU1.2040 +SK1 -AFD101 X5A.W	=FU1.2040 +ALM1-MTR101 3
3											BU	=FU1.2040 +SK1 -AFD101 X5A.U	=FU1.2040 +ALM1-MTR101 1
4											GNYE	=FU1.2040 +SK1 -AFD101 X5A.PE	=FU1.2040 +ALM1-MTR101 2
5											WHRD	=FU1.2040 +SK1 -AFD101 _/ _	=FU1.2040 +ALM1-MTR101 B
6											WH	=FU1.2040 +SK1 -AFD101 _/ _	=FU1.2040 +ALM1-MTR101 A
7											WHGN	=FU1.2040 +SK1 -AFD101 X4A.B-	=FU1.2040 +ALM1-MTR101 D
8											WHBU	=FU1.2040 +SK1 -AFD101 X4A.B+	=FU1.2040 +ALM1-MTR101 C
9											SH	=FU1.2040 +SK1 -AFD101 SH	=FU1.2040 +ALM1-MTR101 SH
10									AU0438VE015#1				
11	=.2040-W102	Konf.Ltg.Z PE	3x0.0 mm²	3	0	0.0				discharge starwheel closer1 fan/ventilator	1	=FU1.2040 +SK1 -TB59A01 1.BC1+	=FU1.2040 +ALM1 -FN102 +
12											2	=FU1.2040 +SK1 -TB59A01 2.BC-	=FU1.2040 +ALM1 -FN102 -
13											PE	=FU1.2040 +SK1 -TB59A01 GND\PE	=FU1.2040 +ALM1 -FN102 PE
14													
15	=.2040-W111	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0				servo drive closer1	*	=FU1.2040 +SK1 -AFD101 X3.A	=FU1.2035 +SK1 -AFD101 X3.B
16													
17	=.2040-W131	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0				Speed monitoring discharge starwheel closer1	*	=FU1.2040 +SK1 -W131	=FU1.2040 +SK1 -F131 RJ45
18													
19	=.2040-W132	Konf.Ltg.F4 SH	4x2x0.0+2x0.0 mm²	11	0	0.0				discharge starwheel closer1	WH	=FU1.2040 +SK1 -CN131 2	=FU1.2040 +ALM1-MTR101 11
20											BN	=FU1.2040 +SK1 -CN131 4	=FU1.2040 +ALM1-MTR101 12
21											GN	=FU1.2040 +SK1 -CN131 1	=FU1.2040 +ALM1-MTR101 5
22											YE	=FU1.2040 +SK1 -CN131 9	=FU1.2040 +ALM1-MTR101 6
23											GY	=FU1.2040 +SK1 -CN131 3	=FU1.2040 +ALM1-MTR101 3
24											PK	=FU1.2040 +SK1 -CN131 11	=FU1.2040 +ALM1-MTR101 4
25											BU	=FU1.2040 +SK1 -CN131 5	=FU1.2040 +ALM1-MTR101 8
26											RD	=FU1.2040 +SK1 -CN131 13	=FU1.2040 +ALM1-MTR101 7
27											BK	=FU1.2040 +SK1 -CN131 7	=FU1.2040 +ALM1-MTR101 9
28											VT	=FU1.2040 +SK1 -CN131 14	=FU1.2040 +ALM1-MTR101 10
29									SC011#HV8R1002&SCSND		SH	=FU1.2040 +SK1 -CN131 SH	=FU1.2040 +ALM1-MTR101 SH
30													
31	=.2101-P111	Konf.Ltg.F1 SH	7x0.0 mm²	8	0	0.0				probeHV ring bowl	WH	=FU1.0520 +KR1 -TB72 3.EM-/2	=FU1.2101 +FKA1 -P111
32											BN	=FU1.0520 +KR1 -TB72 4.EM+/1	=FU1.2101 +FKA1 -P111
33											GN	=FU1.0520 +KR1 -TB72 3.EM-/2	=FU1.2101 +FKA1 -P111
34											YE	=FU1.0520 +KR1 -TB72 3/1	=FU1.2101 +FKA1 -P111
35											GY	=FU1.0520 +KR1 -TB72 3.EM-/2	=FU1.2101 +FKA1 -P111
36											PK	=FU1.0520 +KR1 -TB72 4.EM-/2	=FU1.2101 +FKA1 -P111
37											BU	=FU1.0520 +KR1 -TB72 4.EM-/2	=FU1.2101 +FKA1 -P111
38									HD001#KR1002		SH	=FU1.0520 +KR1 -TB82 SH	=FU1.2101 +FKA1 -P111
39													
40	=.2101-W101	JZ-602	4 G AWG14	4	0	0.0		7187360121		height adjustment system ring bowl	1	=FU1.2101 +KR1 -TB40 1	=FU1.2101 +FKA1-MTR101 U
41											2	=FU1.2101 +KR1 -TB40 2	=FU1.2101 +FKA1-MTR101 V
42											3	=FU1.2101 +KR1 -TB40 3	=FU1.2101 +FKA1-MTR101 W
43											PE	=FU1.2101 +KR1 -TB40 GND\PE	=FU1.2101 +FKA1-MTR101 PE
44													
45	=.2101-W109	JZ-602	4 G AWG14	4	0	0.0		7187360121	SC011	slip-ring transmitter	1	=FU1.2101 +SK1 -TB49A70 1	=FU1.0301 +FKA1 -W701 U
46											2	=FU1.2101 +SK1 -TB49A70 2	=FU1.0301 +FKA1 -W701 V
47											3	=FU1.2101 +SK1 -TB49A70 3	=FU1.0301 +FKA1 -W701 W
48											PE	=FU1.2101 +SK1 -TB49A70 GND\PE	=FU1.0301 +FKA1 -W701 PE
49													
50	=.2101-W113	JZ-602	4 G AWG18	4	0	0.0		0900018159	UE001#FU0004	monitoring Guide	1	=FU1.2101 +SK1 -TB59A13 1.O+	=FU1.2101 +ELM1 -P113 1
51											2	=FU1.2101 +SK1 -TB59A13 2.O-	=FU1.2101 +ELM1 -P113 3
52											3	=FU1.2101 +SK1 -TB59A13 3	=FU1.2101 +ELM1 -P113 4
53									HD001#KR1002		PE	=FU1.2101 +SK1 -TB59A13 GND\PE	=FU1.2101 +ELM1 -P113 _/ _
54													
55	=.2101-W201	JZ-602	5 G AWG20	5	0	0.0		7187360102		height adjustment system1 centr.bell lift.cam	1	=FU1.2101 +SK1 -TB59A20 1.I1+	=FU1.2101 +FKA1 -CN201 1
56											2	=FU1.2101 +SK1 -TB59A20 2.I-	=FU1.2101 +FKA1 -CN201 2
57											3	=FU1.2101 +SK1 -TB59A20 3.I+	=FU1.2101 +FKA1 -CN201 3
58											4	=FU1.2101 +SK1 -TB59A20 4.I-	=FU1.2101 +FKA1 -CN201 4
59											PE	=FU1.2101 +SK1 -TB59A20 GND\PE	=FU1.2101 +FKA1 -CN201 GND\PE
60													

date 29.08.2013
eng. Krupka
CAD Skala
machine model MODULFILL HRS
machine type
filler
version/ 02
client Lagunitas Brewing Company
cable assignment list
equi. K123989
K123989-001
XKB
sheet 11 35/56
999

	KA003 cable	TY001 type	AD001 leads	BE004 leads used	RE001 reserve	LA002 length	AB002 insul. length	ED001 KRONES EDV no	BE004 remarks	AD001 leads	VO004 of	NA002 to
1	=.2101-W211	JZ-602	5 G AWG20	5	0	0.0		7187360102	height adjustment system2 centr.bell lift.cam	1	=FU1.2101 +SK1 -TB59A21 1.J1+	=FU1.2101 +FKA1 -CN211 1
2										2	=FU1.2101 +SK1 -TB59A21 2.J-	=FU1.2101 +FKA1 -CN211 2
3										3	=FU1.2101 +SK1 -TB59A21 3.J+	=FU1.2101 +FKA1 -CN211 3
4										4	=FU1.2101 +SK1 -TB59A21 4.J-	=FU1.2101 +FKA1 -CN211 4
5										PE	=FU1.2101 +SK1 -TB59A21 GND\PE	=FU1.2101 +FKA1 -CN211 GND\PE
6												
7	=.2102-W201	JZ-602	5 G AWG20	5	0	0.0		7187360102	height adjustment system1 Pressurisation zone guards	1	=FU1.2102 +SK1 -TB59A20 1.K1+	=FU1.2102 +FKA1 -CN201 1
8										2	=FU1.2102 +SK1 -TB59A20 2.K-	=FU1.2102 +FKA1 -CN201 2
9										3	=FU1.2102 +SK1 -TB59A20 3.K+	=FU1.2102 +FKA1 -CN201 3
10										4	=FU1.2102 +SK1 -TB59A20 4.K-	=FU1.2102 +FKA1 -CN201 4
11										PE	=FU1.2102 +SK1 -TB59A20 GND\PE	=FU1.2102 +FKA1 -CN201 GND\PE
12												
13	=.2102-W211	JZ-602	5 G AWG20	5	0	0.0		7187360102	height adjustment system2 Pressurisation zone guards	1	=FU1.2102 +SK1 -TB59A21 1.L1+	=FU1.2102 +FKA1 -CN211 1
14										2	=FU1.2102 +SK1 -TB59A21 2.L-	=FU1.2102 +FKA1 -CN211 2
15										3	=FU1.2102 +SK1 -TB59A21 3.L+	=FU1.2102 +FKA1 -CN211 3
16										4	=FU1.2102 +SK1 -TB59A21 4.L-	=FU1.2102 +FKA1 -CN211 4
17										PE	=FU1.2102 +SK1 -TB59A21 GND\PE	=FU1.2102 +FKA1 -CN211 GND\PE
18												
19	=.2801-W301	JZ-602	4 G AWG14	4	0	0.0		7187360121	filtration oil bath	1	=FU1.2801 +SK1 -TB49A01 1	=FU1.2801 +SU1 -MTR301 U
20										2	=FU1.2801 +SK1 -TB49A01 2	=FU1.2801 +SU1 -MTR301 V
21										3	=FU1.2801 +SK1 -TB49A01 3	=FU1.2801 +SU1 -MTR301 W
22										PE	=FU1.2801 +SK1 -TB49A01 GND\PE	=FU1.2801 +SU1 -MTR301 PE
23												
24	=.2801-W302	JZ-602	4 G AWG18	4	0	0.0		0900018159	filtration oil bath oil pressure	1	=FU1.2801 +SK1 -TB59A01 1.D+	=FU1.2801 +SU1 -CN301 1
25										2	=FU1.2801 +SK1 -TB59A01 2.D-	=FU1.2801 +SU1 -CN301 5
26										3	=FU1.2801 +SK1 -TB59A01 3	=FU1.2801 +SU1 -CN301 2
27										PE	=FU1.2801 +SK1 -TB59A01 GND\PE	=FU1.2801 +SU1 -CN301 GND\PE
28												
29	=.2801-W303	Konf.Ltg.F2	4x0.0 mm²	4	0	0.0			filtration oil bath sensor	BK	=FU1.2801 +SK1 -TB89A01 3	=FU1.2801 +FKA1 -P303 4
30										BN	=FU1.2801 +SK1 -TB89A01 1.P+	=FU1.2801 +FKA1 -P303 1
31										BU	=FU1.2801 +SK1 -TB89A01 2.P-	=FU1.2801 +FKA1 -P303 3
32										WH	=FU1.2801 +SK1 -TB89A01 4	=FU1.2801 +FKA1 -P303 2
33												
34	=.4001-W151	JZ-602	4 G AWG18	4	0	0.0		0900018159	speed control system discharge low	1	=FU1.4001 +SK1 -TB59A04 1.O+	=FU1.4001 +TBB1 -CN151 1
35										2	=FU1.4001 +SK1 -TB59A04 2.O-	=FU1.4001 +TBB1 -CN151 3
36										3	=FU1.4001 +SK1 -TB59A04 3	=FU1.4001 +TBB1 -CN151 4
37										PE	=FU1.4001 +SK1 -TB59A04 GND\PE	=FU1.4001 +TBB1 -CN151 _/ _
38												
39	=.4001-W152	JZ-602	4 G AWG18	4	0	0.0		0900018159	speed control system discharge long	1	=FU1.4001 +SK1 -TB59A05 1.O+	=FU1.4001 +TBB1 -CN152 1
40										2	=FU1.4001 +SK1 -TB59A05 2.O-	=FU1.4001 +TBB1 -CN152 3
41										3	=FU1.4001 +SK1 -TB59A05 3	=FU1.4001 +TBB1 -CN152 4
42										PE	=FU1.4001 +SK1 -TB59A05 GND\PE	=FU1.4001 +TBB1 -CN152 _/ _
43												
44	=.4101-W101	JZ-602-CY	4 G AWG14	5	0	0.0		7187360180	discharge conveyor	1	=FU1.4101 +TBB1-DISC102 T1	=FU1.4101 +TBB1-MTR101 U
45										2	=FU1.4101 +TBB1-DISC102 T2	=FU1.4101 +TBB1-MTR101 V
46										3	=FU1.4101 +TBB1-DISC102 T3	=FU1.4101 +TBB1-MTR101 W
47										PE	=FU1.4101 +TBB1-DISC102 PE	=FU1.4101 +TBB1-MTR101 PE
48										SH	=FU1.4101 +TBB1-DISC102 SH	=FU1.4101 +TBB1-MTR101 SH
49												
50	=.4101-W102	TrayFlex II CY	4 G AWG14	5	0	0.0		0900071929	discharge conveyor	1	=FU1.4101 +SK1 -AFD101 U	=FU1.4101 +TBB1-DISC102 L1
51										2	=FU1.4101 +SK1 -AFD101 V	=FU1.4101 +TBB1-DISC102 L2
52										3	=FU1.4101 +SK1 -AFD101 W	=FU1.4101 +TBB1-DISC102 L3
53										PE	=FU1.4101 +SK1 -AFD101 PE.1	=FU1.4101 +TBB1-DISC102 PE
54										SH	=FU1.4101 +SK1 -TB40 SH	=FU1.4101 +TBB1-DISC102 SH
55												
56	=.4101-W104	TrayFlex II	3 G AWG18	3	0	0.0		0900071922	discharge conveyor	1	=FU1.4101 +SK1 -TB59A01 1.D+	=FU1.4101 +TBB1-DISC102 13
57										2	=FU1.4101 +SK1 -TB59A01 2	=FU1.4101 +TBB1-DISC102 14
58										PE	=FU1.4101 +SK1 -TB59A01 GND\PE	=FU1.4101 +TBB1-DISC102 PE
59												
60												

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eng. Krupka
CAD Skala
machine model MODULFILL HRS
machine type filler
client Lagunitas Brewing Company
cable assignment list
equi. K123989
K123989-001
XKB
sheet 12 36/56
version/ 02
999
KRONES

	KA003 cable	TY001 type	AD001 leads	BE004 leads used	RE001 reserve	LA002 length	AB002 insul. length	KRONES EDV no ED001	BE004 remarks	AD001 leads	VO004 of	NA002 to
1	=.4101-W111	LIY-CY	1x0.5 mm²	2	0	0.0		7870305001	discharge conveyor	WH	=FU1.1701 +SK1 -T101 X3.1	=FU1.4101 +SK1 -AFD101 A
2										SH	=FU1.1701 +SK1 -T101 X3.6	=FU1.4101 +SK1 -TB52 SH
3												
4	=.4101-W112	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			discharge conveyor Ethernet - adapter	*	=FU1.0501 +SK1 -COM253 5	=FU1.4101 +SK1 -COM112 RJ45
5												
6	=.5205-P111	Konf.Ltg.F1 SH	7x0.0 mm²	8	0	0.0			probe height adjustment system crowner	WH	=FU1.5205 +KKN1 -TB82 4/2	=FU1.5205 +ALM1 -P111
7										BN	=FU1.5205 +KKN1 -TB82 3/1	=FU1.5205 +ALM1 -P111
8										GN	=FU1.5205 +KKN1 -TB82 2/1	=FU1.5205 +ALM1 -P111
9										YE	=FU1.5205 +KKN1 -TB82 1/1	=FU1.5205 +ALM1 -P111
10										GY	=FU1.5205 +KKN1 -TB82 2/2	=FU1.5205 +ALM1 -P111
11										PK	=FU1.5205 +KKN1 -TB82 1/2	=FU1.5205 +ALM1 -P111
12										BU	=FU1.5205 +KKN1 -TB82 3/2	=FU1.5205 +ALM1 -P111
13										SH	=FU1.5205 +KKN1 -TB82 SH	=FU1.5205 +ALM1 -P111
14												
15	=.5205-W101	JZ-602	4 G AWG14	4	0	0.0		7187360121	height adjustment system crowner	1	=FU1.5205 +KKN1 -C101 2	=FU1.5205 +KN1 -MTR101 U
16										2	=FU1.5205 +KKN1 -C101 4	=FU1.5205 +KN1 -MTR101 V
17										3	=FU1.5205 +KKN1 -C101 6	=FU1.5205 +KN1 -MTR101 W
18										PE	=FU1.5205 +KKN1 -TB40 GND\PE	=FU1.5205 +KN1 -MTR101 PE
19												
20	=.5205-W111	LIYCY	4x0.5 mm²	5	0	0.0		7870305004	probe height adjustment system crowner	WH	=FU1.0507 +KKN1 -IO812 8	=FU1.5205 +KKN1 -TB82 4/2
21										BN	=FU1.0507 +KKN1 -IO812 6	=FU1.5205 +KKN1 -TB82 3/1
22										GN	=FU1.0507 +KKN1 -IO812 4	=FU1.5205 +KKN1 -TB82 2/1
23										YE	=FU1.0507 +KKN1 -IO812 0	=FU1.5205 +KKN1 -TB82 1/1
24										SH	=FU1.0507 +KKN1 -IO812 _/ _	=FU1.5205 +KKN1 -TB82 SH
25												
26	=.5215-W051	Konf.Ltg.F1	10x0.0 mm²	5	0	0.0			valve control valve288 crowner	WH	=FU1.0507 +KKN1 -IO612 0	=FU1.5215 +KKN1 -IO052 1
27										GN		
28										YE	=FU1.0507 +KKN1 -IO612 1	=FU1.5215 +KKN1 -IO052 3
29										GY		
30										PK	=FU1.0507 +KKN1 -IO612 2	=FU1.5215 +KKN1 -IO052 5
31										BU		
32										RD	=FU1.0507 +KKN1 -IO612 3	=FU1.5215 +KKN1 -IO052 7
33										VT		
34										BN		
35										BK	=FU1.0507 +KKN1 -IO612 4	=FU1.5215 +KKN1 -IO052 9
36												
37	=.5215-W053	Konf.Ltg.F1	10x0.0 mm²	5	0	0.0			valve control valve270 shower	WH	=FU1.0507 +KKN1 -IO614 0	=FU1.5215 +KKN1 -IO054 1
38										GN		
39										YE	=FU1.0507 +KKN1 -IO614 1	=FU1.5215 +KKN1 -IO054 3
40										GY		
41										PK	=FU1.0507 +KKN1 -IO614 2	=FU1.5215 +KKN1 -IO054 5
42										BU		
43										RD	=FU1.0507 +KKN1 -IO614 3	=FU1.5215 +KKN1 -IO054 7
44										VT		
45										BN		
46										BK	=FU1.0507 +KKN1 -IO614 4	=FU1.5215 +KKN1 -IO054 9
47												
48	=.5220-RTD173	Konf.Ltg.F8	3x0.0 mm²	3	0	0.0			high-press.inject.syst. temperatrure	WH	=FU1.5220 +KKN1 -CVTR173 3	=FU1.5220 +KN1 -RTD173
49										RD	=FU1.5220 +KKN1 -CVTR173 1	=FU1.5220 +KN1 -RTD173
50										RD	=FU1.5220 +KKN1 -CVTR173 2	=FU1.5220 +KN1 -RTD173
51												
52	=.5220-W101	Silflex	3x1.5 mm²	3	0	0.0		7186703120	high-press.inject.syst. heatingE176	BN	=FU1.5220 +KKN1 -TB40 1	=FU1.5220 +KN1 -HTR101 L
53										BU	=FU1.5220 +KKN1 -TB40 2.L0H	=FU1.5220 +KN1 -HTR101 N
54										GNYE	=FU1.5220 +KKN1 -TB40 GND\PE	=FU1.5220 +KN1 -HTR101 PE
55												
56	=.5220-W152	JZ-602	3 G AWG18	3	0	0.0		0900018158	high-press.inject.syst. snifting	1	=FU1.5220 +KN1 -CN152 1	=FU1.0507 +KKN1 -IO624 1
57										2	=FU1.5220 +KN1 -CN152 2	=FU1.0507 +KKN1 -IO624 5
58										PE	=FU1.5220 +KN1 -CN152 PE	=FU1.0507 +KKN1 -TB52 GND\PE
59												
60												

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	KA003 cable	TY001 type	AD001 leads	BE004 leads used	RE001 reserve	LA002 length	AB002 insul. length	ED001 KRONES EDV no	BE004 remarks	AD001 leads	VO004 of	NA002 to
1	=.5220-W156	JZ-602	3 G AWG18	3	0	0.0		0900018158	high-press.inject.syst. pressure switch	1	=FU1.0506 +KPV1 -IO412 10	=FU1.5220 +PV1 -CN156 1
2										2	=FU1.0506 +KPV1 -IO412 2	=FU1.5220 +PV1 -CN156 4
3										PE	=FU1.0506 +KPV1 -TB51 GND\PE	=FU1.5220 +PV1 -CN156 _/ _
4												
5	=.5220-W158	JZ-602	3 G AWG18	3	0	0.0		0900018158	high-press.inject.syst. injection system closer	1	=FU1.0507 +KKN1 -IO624 3	=FU1.5220 +KN1 -CN158 1
6										2	=FU1.0507 +KKN1 -IO624 7	=FU1.5220 +KN1 -CN158 2
7										PE	=FU1.0507 +KKN1 -TB52 GND\PE	=FU1.5220 +KN1 -CN158 PE
8												
9	=.5220-W173	LIYCY	4x0.5 mm²	5	0	0.0		7870305004	high-press.inject.syst. temperatrure	WH	=FU1.0507 +KKN1 -IO812 5	=FU1.5220 +KKN1-CVTR173 5
10										BN	=FU1.0507 +KKN1 -IO812 1	=FU1.5220 +KKN1-CVTR173 6
11										GN	=FU1.0507 +KKN1 -IO812 7	=FU1.5220 +KKN1-CVTR173 7
12										YE	=FU1.0507 +KKN1 -IO812 9	=FU1.5220 +KKN1-CVTR173 8
13										SH	=FU1.0507 +KKN1 -IO812 _/ _	=FU1.0507 +KKN1 -TB82 SH
14												
15	=.5220-W174	Konf.Ltg.F2	4x0.0 mm²	4	0	0.0			high-press.inject.syst. probe	BK	=FU1.0507 +KKN1 -IO422 3	=FU1.5220 +KN1 -P174 2
16										BN	=FU1.0507 +KKN1 -IO422 11	=FU1.5220 +KN1 -P174 1
17										BU	=FU1.0507 +KKN1 -IO422 9	=FU1.5220 +KN1 -P174 3
18										WH	=FU1.0507 +KKN1 -IO422 _/ _	=FU1.5220 +KN1 -P174 4
19												
20	=.5220-W175	Konf.Ltg.F3 SH	8x0.0 mm²	9	0	0.0			high-press.inject.syst. control valve	YE	=FU1.5220 +KPV1 -TB51 5	=FU1.5220 +KPV1-SOL175 4
21										RD	=FU1.5220 +KPV1 -TB51 8	=FU1.5220 +KPV1-SOL175 8
22										BU	=FU1.5220 +KPV1 -TB51 2.AN-	=FU1.5220 +KPV1-SOL175 7
23										BN	=FU1.5220 +KPV1 -TB51 1.AN+	=FU1.5220 +KPV1-SOL175 2
24										WH	=FU1.5220 +KPV1 -TB51 3	=FU1.5220 +KPV1-SOL175 1
25										GY	=FU1.5220 +KPV1 -TB51 4	=FU1.5220 +KPV1-SOL175 5
26										GN	=FU1.5220 +KPV1 -TB51 6	=FU1.5220 +KPV1-SOL175 3
27										PK	=FU1.5220 +KPV1 -TB51 7	=FU1.5220 +KPV1-SOL175 6
28										SH	=FU1.5220 +KPV1 -TB51 SH	=FU1.5220 +KPV1-SOL175 _/ _
29												
30	=.5220-W177	LIY-CY	2x0.5 mm²	3	0	0.0		7870305002	high-press.inject.syst. control valve	WH	=FU1.5220 +KPV1 -TB51 5	=FU1.0506 +KPV1 -IO864 1
31										BN	=FU1.5220 +KPV1 -TB51 6	=FU1.0506 +KPV1 -IO864 5
32										SH	=FU1.5220 +KPV1 -TB51 SH	=FU1.0506 +KPV1 -IO864 _/ _
33												
34	=.5240-SOL121	Konf.Ltg.F3	2x0.0 mm²	2	0	0.0			vibrator crowner	BN	=FU1.5240 +KN1 -CN122 1	=FU1.5240 +KN1 -SOL121 A2
35										BU	=FU1.5240 +KN1 -CN122 2	=FU1.5240 +KN1 -SOL121 A1
36												
37	=.5240-SOL202	Konf.Ltg.Z	2x0.0 mm²	2	0	0.0			stopper crowner chute	1	=FU1.5240 +KKN1 -TB52 3.B-/2	=FU1.5240 +KN1 -SOL202
38										2	=FU1.5240 +KKN1 -TB52 3/1	=FU1.5240 +KN1 -SOL202
39												
40	=.5240-SOL203	Konf.Ltg.Z PE	3x0.0 mm²	3	0	0.0			stopper twist tube	1	=FU1.5240 +KKN1 -TB52 4.B-/2	=FU1.5240 +KN1 -SOL203
41										2	=FU1.5240 +KKN1 -TB52 4/1	=FU1.5240 +KN1 -SOL203
42										PE	=FU1.5240 +KKN1 -TB52 GND\PE	=FU1.5240 +KN1 -SOL203 _/ _
43												
44	=.5240-W101	JZ-602-CY	4 G AWG14	5	0	0.0		7187360180	sorter	1	=FU1.5240 +SK1 -AFD101 U	=FU1.5240 +KN1 -MTR101 U
45										2	=FU1.5240 +SK1 -AFD101 V	=FU1.5240 +KN1 -MTR101 V
46										3	=FU1.5240 +SK1 -AFD101 W	=FU1.5240 +KN1 -MTR101 W
47										PE	=FU1.5240 +SK1 -AFD101 PE.1	=FU1.5240 +KN1 -MTR101 PE
48										SH	=FU1.5240 +SK1 -TB40 SH	=FU1.5240 +KN1 -MTR101 SH
49												
50	=.5240-W112	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			sorter Ethernet - adapter	*	=FU1.0501 +SK1 -COM253 6	=FU1.5240 +SK1 -COM112 RJ45
51												
52	=.5240-W121	JZ-602	3 G AWG16	3	0	0.0		7187360110	vibrator crowner	1	=FU1.5240 +KN1 -CN121 1	=FU1.5240 +KKN1 -TB40 1
53										2	=FU1.5240 +KN1 -CN121 2	=FU1.5240 +KKN1 -TB40 2.L0H
54										PE	=FU1.5240 +KN1 -CN121 GND\PE	=FU1.5240 +KKN1 -TB40 GND\PE
55												
56	=.5240-W122	Konf.Ltg.F2	4x0.0 mm²	4	0	0.0			vibrator crowner	BK	=FU1.0507 +KKN1 -IO414 0	=FU1.5240 +KN1 -P122 4
57										BN	=FU1.0507 +KKN1 -IO414 6	=FU1.5240 +KN1 -P122 1
58										BU	=FU1.0507 +KKN1 -IO414 4	=FU1.5240 +KN1 -P122 3
59										WH	=FU1.0507 +KKN1 -IO414 _/ _	=FU1.5240 +KN1 -P122 2
60												

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	KA003 cable	TY001 type	AD001 leads	BL004 leads used	RE001 reserve	LA002 length	AB002 insul. length	ED001 KRONES EDV no	BE004 remarks	AD001 leads	VO004 of	NA002 to
1	=.5240-W161	JZ-602	4 G AWG20	4	0	0.0		7187360101	closure supply	1	=FU1.0507 +KKN1 -IO414 10	=FU1.5240 +KN1 -P161 1
2										2	=FU1.0507 +KKN1 -IO414 8	=FU1.5240 +KN1 -P161 3
3										3	=FU1.0507 +KKN1 -IO414 2	=FU1.5240 +KN1 -P161 4
4										PE	=FU1.0507 +KKN1 -TB52 GND\PE	=FU1.5240 +KN1 -P161 _/ _
5												
6	=.5240-W162	Konf.Ltg.F2	4x0.0 mm²	4	0	0.0			lack at chute	BK	=FU1.0507 +KKN1 -IO414 3	=FU1.5240 +KN1 -P162
7										BN	=FU1.0507 +KKN1 -IO414 11	=FU1.5240 +KN1 -P162
8										BU	=FU1.0507 +KKN1 -IO414 9	=FU1.5240 +KN1 -P162
9										WH	=FU1.0507 +KKN1 -IO414 _/ _	=FU1.5240 +KN1 -P162
10												
11	=.5240-W163	Konf.Ltg.F2	4x0.0 mm²	4	0	0.0			transfer plate	BK	=FU1.0507 +KKN1 -IO412 1	=FU1.5240 +KN1 -P163
12										BN	=FU1.0507 +KKN1 -IO412 7	=FU1.5240 +KN1 -P163
13										BU	=FU1.0507 +KKN1 -IO412 5	=FU1.5240 +KN1 -P163
14										WH	=FU1.0507 +KKN1 -IO412 _/ _	=FU1.5240 +KN1 -P163
15												
16	=.5240-W164	Konf.Ltg.F2	4x0.0 mm²	4	0	0.0			crowner lack transfer	BK	=FU1.5240 +KKN1 -TB52 2/2	=FU1.5240 +KN1 -P164
17										BN	=FU1.5240 +KKN1 -TB52 1.B+/1	=FU1.5240 +KN1 -P164
18										BU	=FU1.5240 +KKN1 -TB52 1.B-/2	=FU1.5240 +KN1 -P164
19										WH	=FU1.5240 +KKN1 -TB52 2/1	=FU1.5240 +KN1 -P164
20												
21	=.5240-W204	JZ-602	3 G AWG18	3	0	0.0		0900018158	vibrator twist tube	1	=FU1.0507 +KKN1 -IO622 0	=FU1.5240 +KN1 -CN204 1
22										2	=FU1.0507 +KKN1 -IO622 4	=FU1.5240 +KN1 -CN204 2
23										PE	=FU1.0507 +KKN1 -TB52 GND\PE	=FU1.5240 +KN1 -CN204 PE
24												
25	=.6301-W202	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			central component unit	*	=FU1.0501 +SK1 -COM233 4	=FU1.6301 +SK1 -CPU202 IF2
26												
27	=.6301-W203	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			lifting Powerlink	*	=FU1.6301 +SK1 -CPU202 IF3	=FU1.2001 +SK1 -COM241 5
28												
29	=.6301-W204	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			bus Controller	*	=FU1.0501 +SK1 -COM253 8	=FU1.6301 +SK1 -COM201 ETH1
30												
31	=.6301-W401	Simatic Net	2x2x0.64 mm²	5	0	0.0		0900033296	bus Controller	WH	=FU1.6301 +FKA1 -CN401 WH	=FU1.6301 +SK1 -CN232 WH
32										OG	=FU1.6301 +FKA1 -CN401 OG	=FU1.6301 +SK1 -CN232 OG
33										BU	=FU1.6301 +FKA1 -CN401 BU	=FU1.6301 +SK1 -CN232 BU
34										YE	=FU1.6301 +FKA1 -CN401 YE	=FU1.6301 +SK1 -CN232 YE
35										SH	=FU1.6301 +FKA1 -CN401 SH	=FU1.6301 +SK1 -CN232 SH
36												
37	=.6301-W403	Simatic Net	2x2x0.64 mm²	5	0	0.0		0900033296	bus Controller	WH	=FU1.6301 +FKA1 -CN403 WH	=FU1.6301 +SK1 -CN234 WH
38										OG	=FU1.6301 +FKA1 -CN403 OG	=FU1.6301 +SK1 -CN234 OG
39										BU	=FU1.6301 +FKA1 -CN403 BU	=FU1.6301 +SK1 -CN234 BU
40										YE	=FU1.6301 +FKA1 -CN403 YE	=FU1.6301 +SK1 -CN234 YE
41										SH	=FU1.6301 +FKA1 -CN403 SH	=FU1.6301 +SK1 -CN234 SH
42												
43	=.6301-W951	Konf.Ltg.F2	4x0.0 mm²	2	0	0.0			pressure switch operating air compr.-air distributor	BK	=FU1.0506 +KPV1 -IO414 0	=FU1.6301 +KPV1 -PS951 4
44										BN	=FU1.0506 +KPV1 -IO414 6	=FU1.6301 +KPV1 -PS951 1
45										BU		
46										WH		
47												
48	=.6301-W952	Konf.Ltg.F2	4x0.0 mm²	2	0	0.0			chamber malfunction dehumidifier1	BK	=FU1.0506 +KPV1 -IO414 1	=FU1.6301 +KPV1 -PS952 4
49										BN	=FU1.0506 +KPV1 -IO414 7	=FU1.6301 +KPV1 -PS952 1
50										BU		
51										WH		
52												
53	=.6301-W953	Konf.Ltg.F2	4x0.0 mm²	2	0	0.0			filter malfunction dehumidifier1	BK	=FU1.0506 +KPV1 -IO414 2	=FU1.6301 +PV1 -PS953
54										BN	=FU1.0506 +KPV1 -IO414 10	=FU1.6301 +PV1 -PS953
55										BU		
56										WH		
57												
58												
59												
60												

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	KA003 cable	TY001 type	AD001 leads	BE004 leads used	RE001 reserve	LA002 length	AB002 insul. length	KRONES EDV no ED001	FU0538VE127#	BE004 remarks	AD001 leads	VO004 of	NA002 to
1	=.6302-W201	JZ-602	5 G AWG16	5	0	0.0		7187360112	1	filling valve contr. valve block 1	1	=FU1.6302 +KR1 -TB53V1 1.EA+/2	=FU1.6401 +KR1 -CV401 2
2									*		2	=FU1.6302 +KR1 -TB53V1 1.EA-/3	=FU1.6401 +KR1 -CV401 3
3									*		3	=FU1.6302 +KR1 -TB53V1 2.VA+/2	=FU1.6401 +KR1 -CV401 4
4									*		4	=FU1.6302 +KR1 -TB53V1 2.VA-/3	=FU1.6401 +KR1 -CV401 5
5									*		PE	=FU1.6302 +KR1 -TB53V1 1.GND\PE1	=FU1.6401 +KR1 -CV401 1
6									*				
7	=.6302-W211	JZ-602	5 G AWG16	5	0	0.0		7187360112	11	filling valve contr. valve block 11	1	=FU1.6302 +KR1 -TB53V1 3.EB+/2	=FU1.6401 +KR1 -CV411 2
8									*		2	=FU1.6302 +KR1 -TB53V1 3.EB-/3	=FU1.6401 +KR1 -CV411 3
9									*		3	=FU1.6302 +KR1 -TB53V1 4.VB+/2	=FU1.6401 +KR1 -CV411 4
10									*		4	=FU1.6302 +KR1 -TB53V1 4.VB-/3	=FU1.6401 +KR1 -CV411 5
11									*		PE	=FU1.6302 +KR1 -TB53V1 3.GND\PE1	=FU1.6401 +KR1 -CV411 1
12									*				
13	=.6302-W411	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			*	filling valve contr.	*	=FU1.6301 +KR1 -CN402	=FU1.6302 +KR1 -K411 A
14									*				
15	=.6302-W413	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			*	bus Controller	*	=FU1.6302 +KR1 -K411 B	=FU1.0520 +KR1 -COM302 L/A IF1
16									*				
17	=.6302-W419	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			*	filling valve contr.	*	=FU1.6401 +KR1 -CV414 OUT	=FU1.6302 +KR1 -K411 8 IN
18									*				
19	=.6401-W401	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			*	filling valve contr.	*	=FU1.6401 +KR1 -CV401 IN	=FU1.6302 +KR1 -K411 1 OUT
20									*				
21	=.6401-W410	Konf.Ltg.F5	1x0.0 mm²	1	0	0.0			*	filling valve contr. valve block 9	*	=FU1.6401 +KR1 -CV410 IN	=FU1.6401 +KR1 -CV409 OUT
22									*				
23	=.7001-W101	LIY-CY	2x0.5 mm²	3	0	0.0		7870305002	*	temperature sensor TT101 ring bowl	WH	=FU1.0520 +KR1 -IO454 11	=FU1.7001 +FKA1 -B101 -
24									*		BN	=FU1.0520 +KR1 -TB72 5.EM+/1	=FU1.7001 +FKA1 -B101 +
25									*		SH	=FU1.0520 +KR1 -TB82 SH	=FU1.7001 +FKA1 -B101
26									*				
27	=.7301-W011	Konf.Ltg.F1	10x0.0 mm²	5	0	0.0			*	valve control reserve	WH	=FU1.0503 +SK1 -IO644 0	=FU1.7301 +SK1 -IO012 1
28									*		GN		
29									*		YE	=FU1.0503 +SK1 -IO644 1	=FU1.7301 +SK1 -IO012 3
30									*		GY		
31									*		PK	=FU1.0503 +SK1 -IO644 2	=FU1.7301 +SK1 -IO012 5
32									*		BU		
33									*		RD	=FU1.0503 +SK1 -IO644 3	=FU1.7301 +SK1 -IO012 7
34									*		VT		
35									*		BN		
36									*		BK	=FU1.0503 +SK1 -TB52 1.P-/2	=FU1.7301 +SK1 -IO012 9
37									*				
38	=.7501-P151	Konf.Ltg.F1 SH	7x0.0 mm²	8	0	0.0			*	control level probe1	WH	=FU1.0520 +KR1 -TB72 7.EM-/2	=FU1.7501 +FKA1 -P151
39									*		BN	=FU1.0520 +KR1 -TB72 8.EM+/1	=FU1.7501 +FKA1 -P151
40									*		GN	=FU1.0520 +KR1 -TB72 7.EM-/2	=FU1.7501 +FKA1 -P151
41									*		YE	=FU1.0520 +KR1 -TB72 7/1	=FU1.7501 +FKA1 -P151
42									*		GY	=FU1.0520 +KR1 -TB72 7.EM-/2	=FU1.7501 +FKA1 -P151
43									*		PK	=FU1.0520 +KR1 -TB72 8.EM-/2	=FU1.7501 +FKA1 -P151
44									*		BU	=FU1.0520 +KR1 -TB72 8.EM-/2	=FU1.7501 +FKA1 -P151
45									*		SH	=FU1.0520 +KR1 -TB82 SH	=FU1.7501 +FKA1 -P151
46									*				
47	=.7501-P152	Konf.Ltg.F1 SH	7x0.0 mm²	8	0	0.0			*	control level probe2	WH	=FU1.0520 +KR1 -TB72 10.EM-/2	=FU1.7501 +FKA1 -P152
48									*		BN	=FU1.0520 +KR1 -TB72 11.EM+/1	=FU1.7501 +FKA1 -P152
49									*		GN	=FU1.0520 +KR1 -TB72 10.EM-/2	=FU1.7501 +FKA1 -P152
50									*		YE	=FU1.0520 +KR1 -TB72 10/1	=FU1.7501 +FKA1 -P152
51									*		GY	=FU1.0520 +KR1 -TB72 10.EM-/2	=FU1.7501 +FKA1 -P152
52									*		PK	=FU1.0520 +KR1 -TB72 11.EM-/2	=FU1.7501 +FKA1 -P152
53									*		BU	=FU1.0520 +KR1 -TB72 11.EM-/2	=FU1.7501 +FKA1 -P152
54									*		SH	=FU1.0520 +KR1 -TB82 SH	=FU1.7501 +FKA1 -P152
55									*				
56	=.7501-W100	LIYCY	4x0.5 mm²	5	0	0.0		7870305004	*	valve 100 level	WH	=FU1.0506 +KPV1 -IO862 0	=FU1.7501 +PV1 -SOL100 +11
57									*		BN	=FU1.0506 +KPV1 -IO862 4	=FU1.7501 +PV1 -SOL100 -12
58									*		GN	=FU1.0506 +KPV1 -IO422 6	=FU1.7501 +PV1 -SOL100 +31
59									*		YE	=FU1.0506 +KPV1 -IO422 0	=FU1.7501 +PV1 -SOL100 -32
60									*		SH	=FU1.7501 +KPV1 -TB81 SH	=FU1.7501 +PV1 -SOL100 SH

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1	=.7501-W110	Konf.Ltg.F2	4x0.0 mm²	4	0	0.0			level probeLS110	BK	=FU1.0506 +KPV1 -IO422 _/_	=FU1.7501 +PV1 -P110 4
2										BN	=FU1.0506 +KPV1 -IO422 7	=FU1.7501 +PV1 -P110 1
3										BU	=FU1.0506 +KPV1 -IO422 5	=FU1.7501 +PV1 -P110 3
4										WH	=FU1.0506 +KPV1 -IO422 1	=FU1.7501 +PV1 -P110 2
5												
6	=.7501-W131	JZ-602	4 G AWG18	4	0	0.0		0900018159	product feed automatic	1	=FU1.0506 +KPV1 -IO422 10	=FU1.7501 +PV1 -SS131 13
7										2	=FU1.0506 +KPV1 -IO422 2	=FU1.7501 +PV1 -SS131 14
8										3	=FU1.0506 +KPV1 -IO422 3	=FU1.7501 +PV1 -SS131 24
9										PE	=FU1.0506 +KPV1 -TB51 GND\PE	=FU1.7501 +PV1 -SS131 _/_
10												
11	=.7601-W120	Konf.Ltg.F2	4x0.0 mm²	2	0	0.0			pressure transmitter PT120 ring bowl	BK		
12										BN	=FU1.0520 +KR1 -TB72 12.EM+/1	=FU1.7601 +FKA1 -PI120 1
13										BU	=FU1.0520 +KR1 -TB72 13/1	=FU1.7601 +FKA1 -PI120 3
14										WH		
15												
16	=.7601-W130	Konf.Ltg.F2	4x0.0 mm²	2	0	0.0			pressure transmitter PT130 product feed pipe	BK		
17										BN	=FU1.0506 +KPV1 -IO812 6	=FU1.7601 +PV1 -PI130 1
18										BU	=FU1.0506 +KPV1 -IO812 0	=FU1.7601 +PV1 -PI130 3
19										WH		
20												
21	=.7601-W200	LIYCY	4x0.5 mm²	5	0	0.0		7870305004	valve 200 press.regulat.system	WH	=FU1.0506 +KPV1 -IO862 1	=FU1.7601 +PV1 -SOL200 +11
22										BN	=FU1.0506 +KPV1 -IO862 5	=FU1.7601 +PV1 -SOL200 -12
23										GN	=FU1.0506 +KPV1 -IO432 6	=FU1.7601 +PV1 -SOL200 +31
24										YE	=FU1.0506 +KPV1 -IO432 0	=FU1.7601 +PV1 -SOL200 -32
25										SH	=FU1.0506 +KPV1 -TB81 SH	=FU1.7601 +PV1 -SOL200 SH
26												
27	=.7601-W201	LIYCY	4x0.5 mm²	5	0	0.0		7870305004	valve 201 press.regulat.system	WH	=FU1.0506 +KPV1 -IO864 0	=FU1.7601 +PV1 -SOL201 +11
28										BN	=FU1.0506 +KPV1 -IO864 4	=FU1.7601 +PV1 -SOL201 -12
29										GN	=FU1.0506 +KPV1 -IO432 10	=FU1.7601 +PV1 -SOL201 +31
30										YE	=FU1.0506 +KPV1 -IO432 2	=FU1.7601 +PV1 -SOL201 -32
31										SH	=FU1.0506 +KPV1 -TB81 SH	=FU1.7601 +PV1 -SOL201 SH
32												
33	=.8001-W011	Konf.Ltg.F1	10x0.0 mm²	5	0	0.0			valve control valve102 main shut-off valve2	WH	=FU1.0506 +KPV1 -IO622 0	=FU1.8001 +KPV1 -IO012 1
34										GN		
35										YE	=FU1.0506 +KPV1 -IO622 1	=FU1.8001 +KPV1 -IO012 3
36										GY		
37										PK	=FU1.0506 +KPV1 -IO622 2	=FU1.8001 +KPV1 -IO012 5
38										BU		
39										RD	=FU1.0506 +KPV1 -IO622 3	=FU1.8001 +KPV1 -IO012 7
40										VT		
41										BN		
42										BK	=FU1.0506 +KPV1 -IO622 4	=FU1.8001 +KPV1 -IO012 9
43												
44	=.8001-W102	Konf.Ltg.F2	4x0.0 mm²	3	0	0.0			valve 102 main shut-off valve2	BK	=FU1.0506 +KPV1 -IO442 0	=FU1.8001 +PV1 -P102C
45										BN	=FU1.0506 +KPV1 -IO442 6	=FU1.8001 +PV1 -P102C
46										BU	=FU1.0506 +KPV1 -IO442 4	=FU1.8001 +PV1 -P102C
47										WH		
48												
49	=.8001-W104	Konf.Ltg.F2	4x0.0 mm²	3	0	0.0			valve 104 by-pass	BK	=FU1.0506 +KPV1 -IO442 1	=FU1.8001 +PV1 -P104C
50										BN	=FU1.0506 +KPV1 -IO442 7	=FU1.8001 +PV1 -P104C
51										BU	=FU1.0506 +KPV1 -IO442 5	=FU1.8001 +PV1 -P104C
52										WH		
53												
54												
55												
56												
57												
58												
59												
60												

	KA003 cable	TY001 type	AD001 leads	BE004 leads used	RE001 reserve	LA002 length	AB002 insul. length	ED001 KRONES EDV no	BE004 remarks	AD001 leads	VO004 of	NA002 to
1	=.8020-W011	Konf.Ltg.F1	10x0.0 mm²	5	0	0.0			valve control valve260	WH	=FU1.0503 +SK1 -IO652 0	=FU1.8020 +SK1 -IO012 1
2										GN		
3										YE	=FU1.0503 +SK1 -IO652 1	=FU1.8020 +SK1 -IO012 3
4										GY		
5										PK	=FU1.0503 +SK1 -IO652 2	=FU1.8020 +SK1 -IO012 5
6										BU		
7										RD	=FU1.0503 +SK1 -IO652 3	=FU1.8020 +SK1 -IO012 7
8										VT		
9										BN		
10										BK	=FU1.0503 +SK1 -TB52 2.P-/2	=FU1.8020 +SK1 -IO012 9
11												
12	=.8030-W011	Konf.Ltg.F1	10x0.0 mm²	5	0	0.0			valve control valve120 CIP return pipe	WH	=FU1.0506 +KPV1 -IO624 0	=FU1.8030 +KPV1 -IO012 1
13										GN		
14										YE	=FU1.0506 +KPV1 -IO624 1	=FU1.8030 +KPV1 -IO012 3
15										GY		
16										PK	=FU1.0506 +KPV1 -IO624 2	=FU1.8030 +KPV1 -IO012 5
17										BU		
18										RD	=FU1.0506 +KPV1 -IO624 3	=FU1.8030 +KPV1 -IO012 7
19										VT		
20										BN		
21										BK	=FU1.0506 +KPV1 -IO624 4	=FU1.8030 +KPV1 -IO012 9
22												
23	=.8030-W120	Konf.Ltg.F2	4x0.0 mm²	3	0	0.0			valve 120 shut-off valve CIP return pipe	BK	=FU1.0506 +KPV1 -IO444 0	=FU1.8030 +PV1 -P120C
24										BN	=FU1.0506 +KPV1 -IO444 6	=FU1.8030 +PV1 -P120C
25										BU	=FU1.0506 +KPV1 -IO444 4	=FU1.8030 +PV1 -P120C
26										WH		
27												
28	=.8030-W121	Konf.Ltg.F2	4x0.0 mm²	3	0	0.0			valve 121 outflow	BK	=FU1.0506 +KPV1 -IO444 1	=FU1.8030 +PV1 -P121C
29										BN	=FU1.0506 +KPV1 -IO444 7	=FU1.8030 +PV1 -P121C
30										BU	=FU1.0506 +KPV1 -IO444 5	=FU1.8030 +PV1 -P121C
31										WH		
32												
33	=.8030-W122	Konf.Ltg.F2	4x0.0 mm²	3	0	0.0			valve 122 shut-off valve CIP return pipe	BK	=FU1.0506 +KPV1 -IO444 2	=FU1.8030 +PV1 -P122C
34										BN	=FU1.0506 +KPV1 -IO444 10	=FU1.8030 +PV1 -P122C
35										BU	=FU1.0506 +KPV1 -IO444 8	=FU1.8030 +PV1 -P122C
36										WH		
37												
38	=.8040-W011	Konf.Ltg.F1	10x0.0 mm²	5	0	0.0			valve control valve161 CO2	WH	=FU1.0506 +KPV1 -IO632 0	=FU1.8040 +KPV1 -IO012 1
39										GN		
40										YE	=FU1.0506 +KPV1 -IO632 1	=FU1.8040 +KPV1 -IO012 3
41										GY		
42										PK	=FU1.0506 +KPV1 -IO632 2	=FU1.8040 +KPV1 -IO012 5
43										BU		
44										RD	=FU1.0506 +KPV1 -IO632 3	=FU1.8040 +KPV1 -IO012 7
45										VT		
46										BN		
47										BK	=FU1.0506 +KPV1 -IO632 4	=FU1.8040 +KPV1 -IO012 9
48												
49	=.8040-W021	Konf.Ltg.F1	10x0.0 mm²	5	0	0.0			valve control valve171 sterile air	WH	=FU1.0506 +KPV1 -IO634 0	=FU1.8040 +KPV1 -IO022 1
50										GN		
51										YE	=FU1.0506 +KPV1 -IO634 1	=FU1.8040 +KPV1 -IO022 3
52										GY		
53										PK	=FU1.0506 +KPV1 -IO634 2	=FU1.8040 +KPV1 -IO022 5
54										BU		
55										RD	=FU1.0506 +KPV1 -IO634 3	=FU1.8040 +KPV1 -IO022 7
56										VT		
57										BN		
58										BK	=FU1.0506 +KPV1 -IO634 4	=FU1.8040 +KPV1 -IO022 9
59												
60												

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	KA003 cable	TY001 type	AD001 leads	BE004 leads used	RE001 reserve	LA002 length	AB002 insul. length	ED001 KRONES EDV no	BE004 remarks	AD001 leads	VO004 of	NA002 to
1	=.8040-W161	Konf.Ltg.F2	4x0.0 mm²	3	0	0.0			valve 161 shut-off valve CO2	BK	=FU1.0506 +KPV1 -IO452 0	=FU1.8040 +PV1 -P161C
2										BN	=FU1.0506 +KPV1 -IO452 6	=FU1.8040 +PV1 -P161C
3										BU	=FU1.0506 +KPV1 -IO452 4	=FU1.8040 +PV1 -P161C
4										WH		
5												
6	=.8040-W162	Konf.Ltg.F2	4x0.0 mm²	3	0	0.0			valve 162 partition CO2 / CIP	BK	=FU1.0506 +KPV1 -IO452 1	=FU1.8040 +PV1 -P162C
7										BN	=FU1.0506 +KPV1 -IO452 7	=FU1.8040 +PV1 -P162C
8										BU	=FU1.0506 +KPV1 -IO452 5	=FU1.8040 +PV1 -P162C
9										WH		
10												
11	=.8040-W163	Konf.Ltg.F2	4x0.0 mm²	3	0	0.0			valve 163 outflow in front of valve 162	BK	=FU1.0506 +KPV1 -IO452 2	=FU1.8040 +PV1 -P163C
12										BN	=FU1.0506 +KPV1 -IO452 10	=FU1.8040 +PV1 -P163C
13										BU	=FU1.0506 +KPV1 -IO452 8	=FU1.8040 +PV1 -P163C
14										WH		
15												
16	=.8040-W164	Konf.Ltg.F2	4x0.0 mm²	3	0	0.0			valve 164 partition inflow- outflow	BK	=FU1.0506 +KPV1 -IO452 3	=FU1.8040 +PV1 -P164C
17										BN	=FU1.0506 +KPV1 -IO452 11	=FU1.8040 +PV1 -P164C
18										BU	=FU1.0506 +KPV1 -IO452 9	=FU1.8040 +PV1 -P164C
19										WH		
20												
21	=.8040-W171	Konf.Ltg.F2	4x0.0 mm²	3	0	0.0			valve 171 shut-off valve sterile air	BK	=FU1.0506 +KPV1 -IO462 0	=FU1.8040 +PV1 -P171C
22										BN	=FU1.0506 +KPV1 -IO462 6	=FU1.8040 +PV1 -P171C
23										BU	=FU1.0506 +KPV1 -IO462 4	=FU1.8040 +PV1 -P171C
24										WH		
25												
26	=.8040-W182	Konf.Ltg.F2	4x0.0 mm²	3	0	0.0			valve 182 shut-off valve steam / CO2	BK	=FU1.0506 +KPV1 -IO462 1	=FU1.8040 +PV1 -P182C
27										BN	=FU1.0506 +KPV1 -IO462 7	=FU1.8040 +PV1 -P182C
28										BU	=FU1.0506 +KPV1 -IO462 5	=FU1.8040 +PV1 -P182C
29										WH		
30												
31	=.8040-W183	Konf.Ltg.F2	4x0.0 mm²	3	0	0.0			valve 183 shut-off valve steam / sterile air	BK	=FU1.0506 +KPV1 -IO462 2	=FU1.8040 +PV1 -P183C
32										BN	=FU1.0506 +KPV1 -IO462 10	=FU1.8040 +PV1 -P183C
33										BU	=FU1.0506 +KPV1 -IO462 8	=FU1.8040 +PV1 -P183C
34										WH		
35												
36	=.8040-W184	Konf.Ltg.F2	4x0.0 mm²	3	0	0.0			valve 184 outflow steam	BK	=FU1.0506 +KPV1 -IO462 3	=FU1.8040 +PV1 -P184C
37										BN	=FU1.0506 +KPV1 -IO462 11	=FU1.8040 +PV1 -P184C
38										BU	=FU1.0506 +KPV1 -IO462 9	=FU1.8040 +PV1 -P184C
39										WH		
40												
41	=.8043-W011	Konf.Ltg.F1	10x0.0 mm²	5	0	0.0			valve control valve169 CO2 filter	WH	=FU1.0506 +KPV1 -IO614 0	=FU1.8043 +KPV1 -IO012 1
42										GN		
43										YE	=FU1.0506 +KPV1 -IO614 1	=FU1.8043 +KPV1 -IO012 3
44										GY		
45										PK	=FU1.0506 +KPV1 -IO614 2	=FU1.8043 +KPV1 -IO012 5
46										BU		
47										RD	=FU1.0506 +KPV1 -IO614 3	=FU1.8043 +KPV1 -IO012 7
48										VT		
49										BN		
50										BK	=FU1.0506 +KPV1 -IO614 4	=FU1.8043 +KPV1 -IO012 9
51												
52	=.8043-W208	Konf.Ltg.F2	4x0.0 mm²	3	0	0.0			valve 208 by-pass control valve 201	BK	=FU1.0506 +KPV1 -IO454 2	=FU1.8043 +PV1 -P208C
53										BN	=FU1.0506 +KPV1 -IO454 10	=FU1.8043 +PV1 -P208C
54										BU	=FU1.0506 +KPV1 -IO454 8	=FU1.8043 +PV1 -P208C
55										WH		
56												
57												
58												
59												
60												

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	KA003 cable	TY001 type	AD001 leads	BE004 leads used	RE001 reserve	LA002 length	AB002 insul. length	KRONES EDV no ED001	BE004 remarks	AD001 leads	VO004 of	NA002 to
1	=.8045-W011	Konf.Ltg.F1	10x0.0 mm²	5	0	0.0			valve control reserve	WH	=FU1.0506 +KPV1 -IO642 0	=FU1.8045 +KPV1 -IO012 1
2										GN		
3										YE	=FU1.0506 +KPV1 -IO642 1	=FU1.8045 +KPV1 -IO012 3
4										GY		
5										PK	=FU1.0506 +KPV1 -IO642 2	=FU1.8045 +KPV1 -IO012 5
6										BU		
7										RD	=FU1.0506 +KPV1 -IO642 3	=FU1.8045 +KPV1 -IO012 7
8										VT		
9										BN		
10										BK	=FU1.0506 +KPV1 -IO642 4	=FU1.8045 +KPV1 -IO012 9
11												
12	=.8060-W011	Konf.Ltg.F1	10x0.0 mm²	5	0	0.0			valve control reserve	WH	=FU1.0520 +KR1 -IO402 11	=FU1.8060 +KR1 -IO012 1
13										GN		
14										YE	=FU1.0520 +KR1 -IO402 21	=FU1.8060 +KR1 -IO012 3
15										GY		
16										PK	=FU1.0520 +KR1 -IO402 12	=FU1.8060 +KR1 -IO012 5
17										BU		
18										RD	=FU1.0520 +KR1 -IO402 22	=FU1.8060 +KR1 -IO012 7
19										VT		
20										BN		
21										BK	=FU1.0520 +KR1 -TB72 13.EM-/2	=FU1.8060 +KR1 -IO012 9
22												
23	=.9201-W101	JZ-602	4 G AWG8	4	0	0.0		7187360150	vacuum pump G141	1	=FU1.9201 +SK1 -TB42 1	=FU1.9201 +VP1 -MTR101 W1
24										2	=FU1.9201 +SK1 -TB42 2	=FU1.9201 +VP1 -MTR101 V1
25										3	=FU1.9201 +SK1 -TB42 3	=FU1.9201 +VP1 -MTR101 U1
26										PE	=FU1.9201 +SK1 -TB42 GND\PE	=FU1.9201 +VP1 -MTR101 PE
27												
28	=.9201-W103	JZ-602	3 G AWG18	3	0	0.0		0900018158	vacuum pump G141	1	=FU1.9201 +SK1 -TB52 1/1	=FU1.9201 +VP1 -MTR101 1
29										2	=FU1.9201 +SK1 -TB52 1/2	=FU1.9201 +VP1 -MTR101 2
30										PE	=FU1.9201 +SK1 -TB52 GND\PE	=FU1.9201 +VP1 -MTR101 PE
31												
32	=.9209-P/I140	Konf.Ltg.F4 SH	6x0.0 mm²	3	0	0.0			pressure transducer PT140	GN	=FU1.0520 +KR1 -IO454 14	=FU1.9209 +FKA1 -PI140 -
33										BN	=FU1.0520 +KR1 -TB72 14.EM+/1	=FU1.9209 +FKA1 -PI140 +
34										BU		
35										WH		
36										BK		
37										YE		
38										SH	=FU1.0520 +KR1 -TB82 GND\PE	=FU1.9209 +FKA1 -PI140 SH
39												
40	=.9209-W041	Konf.Ltg.F1	10x0.0 mm²	5	0	0.0			valve control valve140	WH	=FU1.0506 +KPV1 -IO652 0	=FU1.9209 +KPV1 -IO042 1
41										GN		
42										YE	=FU1.0506 +KPV1 -IO652 1	=FU1.9209 +KPV1 -IO042 3
43										GY		
44										PK	=FU1.0506 +KPV1 -IO652 2	=FU1.9209 +KPV1 -IO042 5
45										BU		
46										RD	=FU1.0506 +KPV1 -IO652 3	=FU1.9209 +KPV1 -IO042 7
47										VT		
48										BN		
49										BK	=FU1.0506 +KPV1 -IO652 4	=FU1.9209 +KPV1 -IO042 9
50												
51	=.9209-W119	Konf.Ltg.F2	4x0.0 mm²	4	0	0.0			magazine/container maximum LS119 vacuum pump	BK	=FU1.0506 +KPV1 -IO424 1	=FU1.9209 +VP1 -P119 4
52										BN	=FU1.0506 +KPV1 -IO424 7	=FU1.9209 +VP1 -P119 1
53										BU	=FU1.0506 +KPV1 -IO424 5	=FU1.9209 +VP1 -P119 3
54										WH	=FU1.0506 +KPV1 -IO424 _/_	=FU1.9209 +VP1 -P119 2
55												
56	=.9209-W140	Konf.Ltg.F2	4x0.0 mm²	3	0	0.0			valve 140	BK	=FU1.0506 +KPV1 -IO474 0	=FU1.9209 +PV1 -P140C
57										BN	=FU1.0506 +KPV1 -IO474 6	=FU1.9209 +PV1 -P140C
58										BU	=FU1.0506 +KPV1 -IO474 4	=FU1.9209 +PV1 -P140C
59										WH		
60												

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#	KA003 cable	TY001 type	AD001 leads	BL004 leads used	RE001 reserve	LA002 length	AB002 insul. length	ED001 KRONES EDV no	VE007	BE004 remarks	AD001 leads	VO004 of	NA002 to
1	=.9209-W141	Konf.Ltg.F2	4x0.0 mm²	3	0	0.0			# 141&SOND&SOND15# TT156	valve 141	BK	=FU1.0506 +KPV1 -IO474 1	=FU1.9209 +PV1 -P141C
2											BN	=FU1.0506 +KPV1 -IO474 7	=FU1.9209 +PV1 -P141C
3											BU	=FU1.0506 +KPV1 -IO474 5	=FU1.9209 +PV1 -P141C
4											WH		
5													
6	=.9209-W156	Konf.Ltg.F2	4x0.0 mm²	2	0	0.0				temperature sensor TT156	BK		
7											BN	=FU1.0506 +KPV1 -IO824 6	=FU1.9209 +VP1 -B156 1
8											BU	=FU1.0506 +KPV1 -IO824 0	=FU1.9209 +VP1 -B156 3
9											WH		
10									SI022&KU001				
11	=.9702-W101	TrayFlex II	5 G AWG14	5	0	0.0		0900072095		signal transmission customer	1	=FU1.9702 +SK1 -TB92 4/1	=FM1 +SK1 -TB99 1
12									*		2	=FU1.9702 +SK1 -TB92 4/2	=FM1 +SK1 -TB99 2
13									*		3	=FU1.9702 +SK1 -TB92 5/1	=FM1 +SK1 -TB99 3
14									*		4	=FU1.9702 +SK1 -TB92 5/2	=FM1 +SK1 -TB99 4
15											PE	=FU1.9702 +SK1 -TB99A01 GND\PE	=FM1 +SK1 -TB99 PE
16									ME043# O2				
17	=.9702-W111	LIYCY	4x0.5 mm²	5	0	0.0		7870305004		meter O2	WH	=FU1.0597 +SK1 -IO812 8	=FU1.9702 +SK1 -TB92 9/1
18											BN	=FU1.0597 +SK1 -IO812 6	=FU1.9702 +SK1 -TB92 9/2
19									*		GN	=FU1.0597 +SK1 -IO812 4	=FU1.9702 +SK1 -TB92 8/2
20									SI022&BE068&HO		YE	=FU1.0597 +SK1 -IO812 0	=FU1.9702 +SK1 -TB92 8/1
21											SH	=FU1.0597 +SK1 -IO812 _/_	=FU1.9702 +SK1 -TB82 SH
22													
23	=.9704-W201	LIY-CY	2x0.5 mm²	3	0	0.0		7870305002		signal transmission container conveyor high-res.clock pulse	WH	=FU1.9704 +SK1 -TB99A03 3	=FU1.9704 +SK1 -DA201 5
24											BN	=FU1.9704 +SK1 -TB99A03 4	=FU1.9704 +SK1 -DA201 4
25									SI022&BE068		SH	=FU1.9704 +SK1 -TB99A03 SH	=FU1.9704 +SK1 -DA201 _/_
26													
27	=.9704-W202	TrayFlex II CY	5 G AWG14	6	0	0.0		0900071957		signal transmission container conveyor	1	=FU1.9704 +SK1 -TB99A03 1	=FM4 +SS -TB99
28									*		2	=FU1.9704 +SK1 -TB99A03 2	=FM4 +SS -TB99
29									*		3	=FU1.9704 +SK1 -TB99A03 3	=FM4 +SS -TB99
30									*		4	=FU1.9704 +SK1 -TB99A03 4	=FM4 +SS -TB99
31									*		PE	=FU1.9704 +SK1 -TB99A03 GND\PE	=FM4 +SS -TB99 PE
32									SI022&CH001		SH	=FU1.9704 +SK1 -TB99A03 SH	=FM4 +SS -TB99
33													
34	=.9712-W101	LIYCY	16x0.5 mm²	17	0	0.0		7870305016		signal transmission Checkmat	WH	=FU1.9712 +SK1 -TB99A11 1.F+	=FM12 +SK1 -A999 X8.12/1
35									*		BN	=FU1.9712 +SK1 -TB99A11 2	=FM12 +SK1 -A999 X8.12/4
36									*		GN	=FU1.9712 +SK1 -TB99A11 3	=FM12 +SK1 -A999 X8.13/4
37									*		YE	=FU1.9712 +SK1 -TB99A11 4	=FM12 +SK1 -A999 X8.14/4
38									*		GY	=FU1.9712 +SK1 -TB99A11 5	=FM12 +SK1 -A999 X8.15/4
39									*		PK	=FU1.9712 +SK1 -TB99A11 6	=FM12 +SK1 -A999 X13.5/1
40									*		BU	=FU1.9712 +SK1 -TB99A11 7	=FM12 +SK1 -A999 X13.5/2
41									*		RD	=FU1.9712 +SK1 -TB99A11 8	=FM12 +SK1 -A999 X13.5/3
42									*		BK	=FU1.9712 +SK1 -TB99A11 9	=FM12 +SK1 -A999 X8.20/4
43									*		VT	=FU1.9712 +SK1 -TB99A11 10	=FM12 +SK1 -A999 X8.21/4
44									*		GYPK	=FU1.9712 +SK1 -TB99A11 11	=FM12 +SK1 -A999 X8.22/4
45									*		RDBU	=FU1.9712 +SK1 -TB99A11 12	=FM12 +SK1 -A999 X8.23/4
46									*		WHGN	=FU1.9712 +SK1 -TB99A11 13	=FM12 +SK1 -A999 X5.16/3
47									*		BNGN	=FU1.9712 +SK1 -TB99A11 14	=FM12 +SK1 -A999 X13.7/1
48									*		WHYE	=FU1.9712 +SK1 -TB99A11 15	=FM12 +SK1 -A999 X13.7/2
49									*		YEBN	=FU1.9712 +SK1 -TB99A11 16.G-	=FM12 +SK1 -A999 X5.16/2
50									SI022&CH001		SH	=FU1.9712 +SK1 -TB99A11 SH	=FM12 +SK1 -A999 _/_
51													
52	=.9712-W148	LIYCY	7x0.5 mm²	8	0	0.0		7870305007		signal transmission Checkmat	WH	=FU1.9712 +SK1 -TB99A12 1	=FM12 +SK1 -A999 X7.13/1
53									*		BN	=FU1.9712 +SK1 -TB99A12 2.B-	=FM12 +SK1 -A999 X5.15/2
54									*		GN	=FU1.9712 +SK1 -TB99A12 3	=FM12 +SK1 -A999 X7.13/2
55									*		YE	=FU1.9712 +SK1 -TB99A12 4.BV1	=FM12 +SK1 -A999 X5.15/3
56									*		GY	=FU1.9712 +SK1 -TB99A12 5	=FM12 +SK1 -A999 X7.13/3
57									*		PK	=FU1.9712 +SK1 -TB99A12 6.BR2	=FM12 +SK1 -A999 X5.26/3
58									*		BU	=FU1.9712 +SK1 -TB99A12 7	=FM12 +SK1 -A999 X5.28/3
59									*		SH	=FU1.9712 +SK1 -TB99A12 SH	=FM12 +SK1 -A999 SH
60													

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	KA003 cable	TY001 type	AD001 leads	BE004 leads used	RE001 reserve	LA002 length	AB002 insul. length	ED001 KRONES EDV no		BE004 remarks	AD001 leads	VO004 of	NA002 to
1	=.9712-W171	LIYCY	5x0.5 mm²	6	0	0.0		7870305005	St22&CH001	signal transmission Checkmat	WH	=FU1.9712 +SK1 -TB99A13 1.GT	=FM12 +SK1 -A999 X5.31/3
2									"		BN	=FU1.9712 +SK1 -TB99A13 2.HT1	=FM12 +SK1 -A999 X5.29/3
3									"		GN	=FU1.9712 +SK1 -TB99A13 3.HT2	=FM12 +SK1 -A999 X5.30/3
4									"		YE	=FU1.9712 +SK1 -TB99A13 4.RT	=FM12 +SK1 -A999 X5.27/3
5									"		GY	=FU1.9712 +SK1 -TB99A13 5.B-	=FM12 +SK1 -A999 X5.31/2
6									"		SH	=FU1.9712 +SK1 -TB99A13 SH	=FM12 +SK1 -A999 _/_
7													
8	=.9750-W101	TrayFlex II	5 G AWG14	5	0	0.0		0900072095	St22&VE013#1	signal transmission closure supply1	1	=FU1.9750 +SK1 -TB99A01 1	=FM50 +SS -X10 1
9									"		2	=FU1.9750 +SK1 -TB99A01 2	=FM50 +SS -X10 2
10									"		3	=FU1.9750 +SK1 -TB99A01 3	=FM50 +SS -X10 3
11									"		4	=FU1.9750 +SK1 -TB99A01 4	=FM50 +SS -X10 4
12									St22&VE013#1		PE	=FU1.9750 +SK1 -TB99A01 GND\PE	=FM50 +SS -X10 PE
13													
14	=.9750-W102	TrayFlex II	7 G AWG14	7	0	0.0		0900071791	"	signal transmission closure supply1	1	=FU1.9750 +SK1 -TB99A02 1.F+	=FM50 +SS -X90 1
15									"		2	=FU1.9750 +SK1 -TB99A02 2	=FM50 +SS -X90 2
16									"		3	=FU1.9750 +SK1 -TB99A02 3	=FM50 +SS -X90 3
17									"		4	=FU1.9750 +SK1 -TB99A02 4	=FM50 +SS -X90 4
18									"		5	=FU1.9750 +SK1 -TB99A02 5	=FM50 +SS -X90 5
19									"		6	=FU1.9750 +SK1 -TB99A02 6	=FM50 +SS -X90 6
20									St22&VE013#1		PE	=FU1.9750 +SK1 -TB99A02 GND\PE	=FM50 +SS -X90 PE
21													
22	=.9750-W111	TrayFlex II	7 G AWG14	7	0	0.0		0900071791	"	signal transmission closure supply1	1	=FU1.9750 +SK1 -TB99A03 1	=FM50 +SS -X95 1
23									"		2	=FU1.9750 +SK1 -TB99A03 2	=FM50 +SS -X95 2
24									"		3	=FU1.9750 +SK1 -TB99A03 3	=FM50 +SS -X95 3
25									"		4	=FU1.9750 +SK1 -TB99A03 4	=FM50 +SS -X95 4
26									"		5	=FU1.9750 +SK1 -TB99A03 5	=FM50 +SS -X95 5
27									"		6	=FU1.9750 +SK1 -TB99A03 6	=FM50 +SS -X95
28									St22&VE013#1		PE	=FU1.9750 +SK1 -TB99A03 GND\PE	=FM50 +SS -X95 PE
29													
30	=.9901-W1001	JZ-602	5 G AWG14	3	2	0.0		7187360122	KL-031	terminal strip	1	=FU1.9901 +SK1 -TB59A30 1	=FU1.5240 +KKN1 -TB52 2/2
31									"		2	=FU1.9901 +SK1 -TB59A30 2	=FU1.5240 +KKN1 -TB52 3/1
32									"		3	=FU1.9901 +SK1 -TB59A30 3	=FU1.5240 +KKN1 -TB52 4/1
33									"		4	=FU1.9901 +SK1 -TB59A30 4	=FU1.5240 +KKN1 -TB52 5/1
34									"		PE	=FU1.9901 +SK1 -TB59A30 PE	=FU1.5240 +KKN1 -TB52 PE
35									"				
36									"				
37									"				
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	KA002 cable no.	VO004 of	NA002 to	TY001 type	AD001 leads	BL004 leads used	LA002 length	VA011 variant	ED001 KRONES EDV no	BE004 remarks
1	=.0101-W181	=FU1.0101 +KKN1 -TB41	=FU1.0101 +SK1 -TB41	JZ-602	7 G AWG12	5	0.0	A	7187360133	~~KL031~~ terminal strip
2	=.0101-W182	=FU1.0101 +KKN1 -TB41	=FU1.0101 +SK1 -TB41	JZ-602	7 G AWG12	2	0.0	A	7187360133	~~KL031~~ terminal strip
3	=.0101-W221	=FU1.0101 +SK1 -TB40	=FU1.0101 +SK1 -F221	JZ-602	5 G AWG14	5	0.0		7187360122	~~VE003&SC004# 1~~ lock control cabinet 1
4		=FU1.0101 +SK1 -TB52								
5	=.0101-W222	=FU1.0101 +SK1 -TB40	=FU1.0101 +SK1 -F222	JZ-602	5 G AWG14	5	0.0		7187360122	~~VE003&SC004# 2~~ lock control cabinet 2
6		=FU1.0101 +SK1 -TB52								
7	=.0101-W901	=FU1.0101 +SK1 -GND	=FU1.0101 +SK1 -GND901	THHN GN	1 X AWG4	1	0.0		5718000408	~~SC174&RA009# LSC~~ grounding conductor frame LSC
8	=.0101-W902	=FU1.0101 +SK1 -GND	=FU1.0101 +SK1 -GND902	THHN GN	1 X AWG4	1	0.0		5718000408	~~SC174&SK001~~ grounding conductor main control panel
9	=.0101-W903	=FU1.0101 +SK1 -GND	=FU1.0101 +SK1 -GND903	THHN GN	1 X AWG6	1	0.0		5718000384	~~SC174&RA009# LSC~~ grounding conductor frame LSC
10	=.0101-W904	=FU1.0101 +SK1 -GND	=FU1.0901 +KK1 -MMI102	THHN GN	1 X AWG8	1	0.0	A	5718000397	~~TO009# SDL~~ touch screen SDL
11	=.0101-W905	=FU1.0101 +FKA1 -GND905	=FU1.0101 +SK1 -GND	THHN GN	1 X AWG6	1	0.0	A	5718000384	~~SC174&FU003~~ grounding conductor filler
12	=.0101-W906	=FU1.0101 +KPV1 -TB21	=FU1.0101 +SK1 -GND	THHN GN	1 X AWG8	1	0.0	A	5718000397	~~KL031~~ terminal strip
13	=.0101-W907	=FU1.0101 +KKN1 -TB21	=FU1.0101 +SK1 -GND	THHN GN	1 X AWG8	1	0.0	A	5718000397	~~KL031~~ terminal strip
14	=.0201-W101	=FU1.0201 +SK1 -TB40	=FU1.0201 +SK1 -FL101	Konf.Ltg.Z	2x0.0 mm²	2	0.0			~~SC001~~ control cabinet lamp
15	=.0201-W102	=FU1.0201 +SK1 -TB40	=FU1.0201 +SK1 -FL102	Konf.Ltg.Z	2x0.0 mm²	2	0.0			~~SC001~~ control cabinet lamp
16	=.0201-W151	=FU1.0201 +SK1 -TB40	=FU1.0201 +SK1 -AC151	Konf.Ltg.Z PE	7x0.0 mm²	7	0.0			~~KU031&SK001~~ cooling unit main control panel
17		=FU1.0201 +SK1 -TB52								
18	=.0201-W251	=FU1.0201 +SK1 -A251	=FU1.0201 +SK1 -TB40	Oelflex 191	3x2.5 mm²	3	0.0		0902907788	~~SE005&ST006~~ electr.comp.serv.mode socket
19	=.0301-W671	=FU1.0301 +SK1 -TB59A20	=FU1.0301 +KPV1 -TB51	TrayFlex II	7 G AWG14	7	0.0	S	0900071791	~~KL031~~ terminal strip
20	=.0301-W701	=FU1.0301 +SK1 -TB62	=FU1.0301 +FKA1 -W701	JZ-602	4 G AWG8	4	0.0		7187360150	~~SC011~~ slip-ring transmitter
21	=.0301-W701a	=FU1.0301 +KR1 -TB62	=FU1.0301 +FKA1 -W701	Konf.Ltg.Z PE	3x0.0 mm²	3	0.0			~~SC011~~ slip-ring transmitter
22	=.0301-W701b	=FU1.0301 +KR1 -TB62	=FU1.0301 +FKA1 -W701	Konf.Ltg.Z PE	3x0.0 mm²	3	0.0			~~SC011~~ slip-ring transmitter
23	=.0301-W701c	=FU1.2101 +KR1 -TB40	=FU1.0301 +FKA1 -W701	Konf.Ltg.Z PE SH	5x0.0 mm²	6	0.0			~~SC011~~ slip-ring transmitter
24	=.0301-W701d	=FU1.0301 +FKA1 -W701	=FU1.6301 +KR1 -CN402	Konf.Ltg.F16 SH	4x0.0 mm²	5	0.0			~~SC030&DA004~~ slip-ring transmitter data transfer
25	=.0301-W701e	=FU1.0301 +FKA1 -W701	=FU1.6301 +KR1 -CN404	Konf.Ltg.F16 SH	4x0.0 mm²	5	0.0			~~SC030&DA004~~ slip-ring transmitter data transfer
26	=.0301-W701f	=FU1.0301 +KR1 -TB52	=FU1.0301 +FKA1 -W701	Konf.Ltg.F12 SH	2x0.0 mm²	3	0.0			~~SC011~~ slip-ring transmitter
27	=.0301-W701g	=FU1.0301 +KR1 -TB52	=FU1.0301 +FKA1 -W701	Konf.Ltg.F3	2x0.0 mm²	2	0.0			~~SC011~~ slip-ring transmitter
28	=.0301-W721	=FU1.0301 +SK1 -TB59A30	=FU1.0301 +KKN1 -TB52	JZ-602	7 G AWG14	7	0.0	S	7187360123	~~KL031~~ terminal strip
29	=.0501-W233	=FU1.0501 +SK1 -COM232	=FU1.0501 +SK1 -COM233	Konf.Ltg.F5	1x0.0 mm²	1	0.0			~~DA067&AN125&ET051~~ Data line network connection Ethernet

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KA002 cable no.	VO004 of	NA002 to	TY001 type	AD001 leads	BL004 leads used	LA002 length	VA011 variant	ED001 KRONES EDV no	BE004 remarks
1 =.0501-W238	=FU1.0501 +SK1 -COM233	=FU1.0201 +SK1 -A251	Konf.Ltg.F5	1x0.0 mm²	1	0.0			SE005&ST006 electr.comp.serv.mode socket
2 =.0501-W243	=FU1.0501 +SK1 -COM242	=FU1.0501 +SK1 -COM243	Konf.Ltg.F5	1x0.0 mm²	1	0.0			DA067&AN125&ET051 Data line network connection Ethernet
3 =.0501-W244	=FU1.0501 +SK1 -COM243	=FU1.0501 +SK1 -COM233	Konf.Ltg.F5	1x0.0 mm²	1	0.0			DA067&AN125&ET051 Data line network connection Ethernet
4 =.0501-W253	=FU1.0501 +SK1 -COM252	=FU1.0501 +SK1 -COM253	Konf.Ltg.F5	1x0.0 mm²	1	0.0			FI017&AN125&ET051 Fieldbus Network connection Ethernet
5 =.0501-W282	=FU1.0501 +SK1 -COM243	=FU1.0501 +SK1 -CN142	Konf.Ltg.F5	1x0.0 mm²	1	0.0			DA067&AN125&ET051 Data line network connection Ethernet
6 =.0501-W9001	=FU1.0501 +SK1 -CN272	=FU1.2101 +FKA1 -CN202	Profibus Fastcon	2x0.25 mm²		0.0	A	0900058799	HO001#1&GL010&BU012 height adjustment system1 centr.bell lift.cam bus connector
7 =.0501-W9002	=FU1.2101 +FKA1 -CN203	=FU1.2101 +FKA1 -CN212	Profibus Fastcon	2x0.25 mm²		0.0		0900058799	HO001#2&GL010&BU012 height adjustment system2 centr.bell lift.cam bus connector
8 =.0501-W9003	=FU1.2101 +FKA1 -CN213	=FU1.2102 +FKA1 -CN202	Profibus Fastcon	2x0.25 mm²		0.0		0900058799	HO001#1&SP120&BU012 height adjustment system1 Pressurisation zone guards bus connector
9 =.0501-W9004	=FU1.2102 +FKA1 -CN203	=FU1.2102 +FKA1 -CN212	Profibus Fastcon	2x0.25 mm²		0.0		0900058799	HO001#2&SP120&BU012 height adjustment system2 Pressurisation zone guards bus connector
10 =.0502-W012	=FU1.0501 +SK1 -COM253	=FU1.0502 +SK1 -COM012	Konf.Ltg.F5	1x0.0 mm²	1	0.0			PO515&AN019 Point-I/O data communicat.board
11 =.0503-W012	=FU1.0503 +SK1 -COM012	=FU1.0502 +SK1 -COM012	Konf.Ltg.F5	1x0.0 mm²	1	0.0			PO515&AN019 Point-I/O data communicat.board
12 =.0503-W052	=FU1.0503 +SK1 -COM052	=FU1.0503 +SK1 -COM012	Konf.Ltg.F5	1x0.0 mm²	1	0.0			PO515&AN019 Point-I/O data communicat.board
13 =.0506-W031	=FU1.0506 +SK1 -CN031	=FU1.0506 +KPV1 -CN032	Simatic Net	2x2x0.64 mm²	5	0.0	S	0900033296	ET063&AN019 Ethernet connection data communicat.board
14 =.0507-W031	=FU1.0507 +SK1 -CN031	=FU1.0507 +KKN1 -CN032	Simatic Net	2x2x0.64 mm²	5	0.0	S	0900033296	ET063&AN019 Ethernet connection data communicat.board
15 =.0520-W301	=FU1.6301 +KR1 -CN404	=FU1.0520 +KR1 -COM302	Konf.Ltg.F5	1x0.0 mm²	1	0.0			BU011&CO040 bus Controller
16 =.0597-W012	=FU1.0597 +SK1 -COM012	=FU1.0503 +SK1 -COM052	Konf.Ltg.F5	1x0.0 mm²	1	0.0			PO515&AN019 Point-I/O data communicat.board
17 =.0601-W101	=FU1.0601 +SK1 -COM101	=FU1.0601 +SK1 -COM102	Konf.Ltg.F5	1x0.0 mm²	1	0.0			AN125&ME074 connection media converter
18 =.0601-W142	=FU1.0601 +SK1 -COM102	=FU1.0601 +SK1 -CN142	Konf.Ltg.F5	1x0.0 mm²	1	0.0			AN125&ME074 connection media converter
19 =.0901-W101	=FU1.0901 +SK1 -MMI103	=FU1.0901 +KK1 -MMI102	Konf.Ltg.F5	1x0.0 mm²	1	0.0	S		TO009# SDL touch screen SDL
20 =.0901-W102	=FU1.0901 +SK1 -TB59A10	=FU1.0901 +KK1 -MMI102	JZ-602	5 G AWG16	5	0.0	S	7187360112	TO009# SDL touch screen SDL
21		=FU1.0901 +KK1 -S011							-
22 =.0901-W103	=FU1.0501 +SK1 -COM233	=FU1.0901 +SK1 -MMI103	Konf.Ltg.F5	1x0.0 mm²	1	0.0			TO007# SDL touch screen SDL
23 =.0901-W202	=FU1.0901 +SK1 -TB59A12	=FU1.0901 +KK1 -S011	JZ-602	18 G AWG16	18	0.0	S	7187360115	TA023 touch-button stripes
24 =.0901-W401	=FU1.0901 +SK1 -TB59A40	=FU1.0901 +SU1 -CN401	JZ-602	7 G AWG16	7	0.0	S	7187360113	SA003 signal beacon post
25 =.0901-W501	=FU1.0901 +SK1 -TB59A01	=FU1.0901 +KK1 -S011	JZ-602	5 G AWG18	5	0.0	S	0900018170	TA023 touch-button stripes
26 =.1101-W101	=FU1.1101 +SK1 -TB59A01	=FU1.0901 +SU1 -SS203	SPIKA	12x0.5 mm²	12	0.0	S	0901971322	NO009&VO008 emergency stop machine table
27		=FU1.1101 +SU1 -PB101							-
28		=FU1.1201 +SU1 -PB114							-
29 =.1101-W151	=FU1.1101 +SK1 -TB59A03	=FU1.0901 +KK1 -S011	JZ-602	5 G AWG18	5	0.0	S	0900018170	TA023 touch-button stripes

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	KA002 cable no.	VO004 of	NA002 to	TY001 type	AD001 leads	BL004 leads used	LA002 length	VA011 variant	ED001 KRONES EDV no	BE004 remarks
1	=.1101-W152	=FU1.1101 +SK1 -TB59A02	=FU1.1101 +SU1 -FT152	SPIKA	12x0.5 mm²	12	0.0	S	0901971320	NO009&SE056 emergency stop service door
2	=.1201-W111	=FU1.1201 +SK1 -TB59A01	=FU1.1201 +SU1 -LS111	TrayFlex II	9 G AWG16	9	0.0	S	0900977628	SC042# 1&MA091&GE013 guard door 1 machine guards closed
3	=.1201-W113	=FU1.1201 +SK1 -TB59A11	=FU1.1201 +SU1 -PB112	JZ-602	7 G AWG16	7	0.0	S	7187360113	SC042# 1&EN076# /&VE220 guard door 1 release/unlock / Lock
4			=FU1.1201 +SU1 -PB113							
5			=FU1.1201 +SU1 -PL112							
6			=FU1.1201 +SU1 -PL113							
7	=.1201-W121	=FU1.1201 +SK1 -TB59A02	=FU1.1201 +SU1 -LS121	TrayFlex II	9 G AWG16	9	0.0	S	0900977628	SC042# 2&MA091&GE013 guard door 2 machine guards closed
8	=.1201-W123	=FU1.1201 +SK1 -TB59A12	=FU1.1201 +SU1 -PB122	JZ-602	7 G AWG16	7	0.0	S	7187360113	SC042# 2&EN076# /&VE220 guard door 2 release/unlock / Lock
9			=FU1.1201 +SU1 -PB123							
10			=FU1.1201 +SU1 -PL122							
11			=FU1.1201 +SU1 -PL123							
12	=.1201-W131	=FU1.1201 +SK1 -TB59A03	=FU1.1201 +SU1 -LS131	TrayFlex II	9 G AWG16	9	0.0	S	0900977628	SC042# 3&MA091&GE013 guard door 3 machine guards closed
13	=.1201-W133	=FU1.1201 +SK1 -TB59A13	=FU1.1201 +SU1 -PB132	JZ-602	7 G AWG16	7	0.0	S	7187360113	SC042# 3&EN076# /&VE220 guard door 3 release/unlock / Lock
14			=FU1.1201 +SU1 -PB133							
15			=FU1.1201 +SU1 -PL132							
16			=FU1.1201 +SU1 -PL133							
17	=.1202-W111	=FU1.1202 +SK1 -TB59A01	=FU1.1202 +SU1 -LS111	TrayFlex II	9 G AWG16	9	0.0	S	0900977628	SC042# 1&SE056&GE013 guard door 1 service door closed
18	=.1202-W113	=FU1.1202 +SK1 -TB59A11	=FU1.1202 +SU1 -PB112	JZ-602	7 G AWG16	7	0.0	S	7187360113	SC042# 1&EN076# /&VE220 guard door 1 release/unlock / Lock
19			=FU1.1202 +SU1 -PB113							
20			=FU1.1202 +SU1 -PL112							
21			=FU1.1202 +SU1 -PL113							
22	=.1501-W101	=FU1.0506 +KPV1 -IO412	=FU1.1501 +KPV1 -PS101	Konf.Ltg.F2	4x0.0 mm²	2	0.0			DR018&HA022 compr.-air press.monit. main air supply
23	=.1501-W102	=FU1.0506 +KPV1 -IO412	=FU1.1501 +KPV1 -PS102	Konf.Ltg.F2	4x0.0 mm²	2	0.0			DR018&HU005&AR003# <2bar compr.-air press.monit. lift cylinder operating air <2bar
24	=.1501-W103	=FU1.0506 +KPV1 -IO414	=FU1.1501 +KPV1 -PS103	Konf.Ltg.F2	4x0.0 mm²	2	0.0			DR018&HU005&UE002# >4bar compr.-air press.monit. lift cylinder excess pressure >4bar
25	=.1501-W142	=FU1.1501 +SK1 -TB59A10	=FU1.1501 +FKA1 -P142	JZ-602	4 G AWG18	4	0.0	S	0900018159	ZE004 centring bell monit.
26	=.1501-W203	=FU1.1501 +SK1 -TB59A14	=FU1.1501 +TBB1 -CN203	JZ-602	4 G AWG18	4	0.0	S	0900018159	RA002 back-up reject.conveyor
27	=.1501-W212R	=FU1.1501 +SK1 -TB59A20	=FU1.1501 +TBB1 -P212R	Konf.Ltg.F2	4x0.0 mm²	4	0.0	S		RU005&VE005 back-up accumulation table
28	=.1501-W212S	=FU1.1501 +SK1 -TB59A19	=FU1.1501 +TBB1 -P212S	Konf.Ltg.F2	4x0.0 mm²	4	0.0	S		RU005&VE005 back-up accumulation table
29										

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eng. Krupka
CAD Skala
machine type filler
machine model MODULFILL HRS
version/ 02
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	KA002 cable no.	VO004 of	NA002 to	TY001 type	AD001 leads	BL004 leads used	LA002 length	VA011 variant	ED001 KRONES EDV no	BE004 remarks
1	=.1701-W101	=FU1.2025 +SK1 -AFD101	=FU1.1701 +SK1 -T101	LIYCY	5x0.5 mm²	6	0.0		7870305005	~~GE051&SI117~~ sensor simulation
2		=FU1.2025 +SK1 -K113	=FU1.1701 +SK1 -TB52							
3	=.1701-W171	=FU1.1701 +SK1 -TB59A02	=FU1.1701 +FKA1 -P171	JZ-602	4 G AWG18	4	0.0	S	0900018159	~~BE047# 1&EI003~~ container present 1 infeed
4	=.1701-W173	=FU1.1701 +SK1 -TB59A04	=FU1.1701 +FKA1 -P173	JZ-602	4 G AWG18	4	0.0	S	0900018159	~~BR024# 1~~ rupture detect. system 1
5	=.1701-W181	=FU1.1701 +SK1 -TB59A06	=FU1.1701 +ALM1 -P181	Konf.Ltg.F2	4x0.0 mm²	4	0.0	S		~~RU010&VE015~~ revolution clock pulse closer
6	=.1701-W184	=FU1.1701 +SK1 -TB59A09	=FU1.1701 +FKA1 -P184	JZ-602	4 G AWG18	4	0.0	S	0900018159	~~BR024# 2~~ rupture detect. system 2
7	=.2001-W202	=FU1.0501 +SK1 -COM233	=FU1.2001 +SK1 -CPU202	Konf.Ltg.F5	1x0.0 mm²	1	0.0			~~ZE040~~ central component unit
8	=.2001-W241	=FU1.2001 +SK1 -COM241	=FU1.2001 +SK1 -CPU202	Konf.Ltg.F5	1x0.0 mm²	1	0.0			~~ZE040~~ central component unit
9	=.2001-W321	=FU1.2001 +SK1 -COM241	=FU1.2001 +SK1 -PSU311	Konf.Ltg.F5	1x0.0 mm²	1	0.0			~~SP001&LE151~~ power supply unit power module
10	=.2005-W101	=FU1.2005 +SK1 -AFD101	=FU1.2005 +SK1 -MTR101	Konf.Ltg.Z PE SH	4x0.0 mm²	5	0.0			~~AN018&EN105~~ drive Emergency power supply unit
11	=.2005-W111	=FU1.2005 +SK1 -AFD101	=FU1.2001 +SK1 -PSU311	Konf.Ltg.F5	1x0.0 mm²	1	0.0			~~SP001&LE151~~ power supply unit power module
12	=.2005-W132	=FU1.2005 +SK1 -CN131	=FU1.2005 +SK1 -MTR101	Konf.Ltg.F1 SH	4x2x0.0 mm²	9	0.0			~~AN018&EN105~~ drive Emergency power supply unit
13	=.2010-W101	=FU1.2010 +SK1 -AFD101	=FU1.2010 +ELM1 -MTR101	Konf.Ltg.F1 PESH	8x0.0 mm²	9	0.0	S		~~AU043&RI009~~ discharge starwheel rinser
14	=.2010-W102	=FU1.2010 +SK1 -TB59A01	=FU1.2010 +ELM1 -FN102	Konf.Ltg.Z PE	3x0.0 mm²	3	0.0	S		~~AU043&RI009&LU001~~ discharge starwheel rinser fan/ventilator
15	=.2010-W111	=FU1.2010 +SK1 -AFD101	=FU1.2005 +SK1 -AFD101	Konf.Ltg.F5	1x0.0 mm²	1	0.0			~~AN018&EN105~~ drive Emergency power supply unit
16	=.2010-W131	=FU1.2010 +SK1 -W131	=FU1.2010 +SK1 -F131	Konf.Ltg.F5	1x0.0 mm²	1	0.0			~~GE232&AU043&RI009~~ Speed monitoring discharge starwheel rinser
17	=.2010-W132	=FU1.2010 +SK1 -CN131	=FU1.2010 +ELM1 -MTR101	Konf.Ltg.F4 SH	4x2x0.0+2x0.0 mm²	11	0.0	S		~~AU043&RI009~~ discharge starwheel rinser
18	=.2015-W101	=FU1.2015 +SK1 -AFD101	=FU1.2015 +ELM1 -MTR101	Konf.Ltg.F1 PESH	8x0.0 mm²	9	0.0	S		~~ZE063&RI009~~ Centre starwheel rinser
19	=.2015-W102	=FU1.2015 +SK1 -TB59A01	=FU1.2015 +ELM1 -FN102	Konf.Ltg.Z PE	3x0.0 mm²	3	0.0	S		~~ZE063&RI009&LU001~~ Centre starwheel rinser fan/ventilator
20	=.2015-W111	=FU1.2015 +SK1 -AFD101	=FU1.2010 +SK1 -AFD101	Konf.Ltg.F5	1x0.0 mm²	1	0.0			~~AU043&RI009~~ discharge starwheel rinser
21	=.2015-W131	=FU1.2015 +SK1 -W131	=FU1.2015 +SK1 -F131	Konf.Ltg.F5	1x0.0 mm²	1	0.0			~~GE232&ZE063&RI009~~ Speed monitoring Centre starwheel rinser
22	=.2015-W132	=FU1.2015 +SK1 -CN131	=FU1.2015 +ELM1 -MTR101	Konf.Ltg.F4 SH	4x2x0.0+2x0.0 mm²	11	0.0	S		~~ZE063&RI009~~ Centre starwheel rinser
23	=.2020-W101	=FU1.2020 +SK1 -AFD101	=FU1.2020 +ELM1 -MTR101	Konf.Ltg.F1 PESH	8x0.0 mm²	9	0.0	S		~~EI030&KA027~~ infeed starwheel carrousel
24	=.2020-W102	=FU1.2020 +SK1 -TB59A01	=FU1.2020 +ELM1 -FN102	Konf.Ltg.Z PE	3x0.0 mm²	3	0.0	S		~~EI030&KA027&LU001~~ infeed starwheel carrousel fan/ventilator
25	=.2020-W111	=FU1.2020 +SK1 -AFD101	=FU1.2015 +SK1 -AFD101	Konf.Ltg.F5	1x0.0 mm²	1	0.0			~~ZE063&RI009~~ Centre starwheel rinser
26	=.2020-W131	=FU1.2020 +SK1 -W131	=FU1.2020 +SK1 -F131	Konf.Ltg.F5	1x0.0 mm²	1	0.0			~~GE232&EI030&KA027~~ Speed monitoring infeed starwheel carrousel
27	=.2020-W132	=FU1.2020 +SK1 -CN131	=FU1.2020 +ELM1 -MTR101	Konf.Ltg.F4 SH	4x2x0.0+2x0.0 mm²	11	0.0	S		~~EI030&KA027~~ infeed starwheel carrousel
28	=.2025-W101	=FU1.2025 +SK1 -AFD101	=FU1.2025 +FKA1 -MTR101	Konf.Ltg.Z PE SH	3x0.0+4x0.0 mm²	8	0.0	A		~~KA027&FU003~~ carrousel filler
29		=FU1.2025 +SK1 -K171								

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	KA002 cable no.	VO004 of	NA002 to	TY001 type	AD001 leads	BL004 leads used	LA002 length	VA011 variant	ED001 KRONES EDV no	BE004 remarks
1	=.2025-W102	=FU1.2025 +SK1 -TB59A01	=FU1.2025 +FKA1 -CN102	Konf.Ltg.F2	4x0.0 mm²	4	0.0	S		KA027&FU003&LU001 carrousel filler fan/ventilator
2	=.2025-W104	=FU1.2025 +SK1 -TB59A04	=FU1.2025 +FKA1 -FN104	Konf.Ltg.Z PE	3x0.0 mm²	3	0.0	S		KA027&FU003&LU001 carrousel filler fan/ventilator
3	=.2025-W111	=FU1.2025 +SK1 -AFD101	=FU1.2020 +SK1 -AFD101	Konf.Ltg.F5	1x0.0 mm²	1	0.0			EI030&KA027 infeed starwheel carrousel
4	=.2025-W131	=FU1.2025 +SK1 -W131	=FU1.2025 +SK1 -F131	Konf.Ltg.F5	1x0.0 mm²	1	0.0			GE232&KA027&FU003 Speed monitoring carrousel filler
5	=.2025-W132	=FU1.2025 +SK1 -CN131	=FU1.2025 +FKA1 -MTR101	Konf.Ltg.F4 SH	4x2x0.0+2x0.0 mm²	11	0.0	S		KA027&FU003 carrousel filler
6	=.2025-W171	=FU1.2025 +SK1 -K171	=FU1.2025 +SK1 -AFD101	JZ-602-CY	3 G AWG14	4	0.0		0900190283	KA027&FU003 carrousel filler
7		=FU1.2025 +SK1 -TB52								
8	=.2030-W101	=FU1.2030 +SK1 -AFD101	=FU1.2030 +ALM1 -MTR101	Konf.Ltg.F1 PESH	8x0.0 mm²	9	0.0	S		AU043&KA027 discharge starwheel carrousel
9	=.2030-W102	=FU1.2030 +SK1 -TB59A01	=FU1.2030 +ALM1 -FN102	Konf.Ltg.Z PE	3x0.0 mm²	3	0.0	S		AU043&KA027&LU001 discharge starwheel carrousel fan/ventilator
10	=.2030-W111	=FU1.2030 +SK1 -AFD101	=FU1.2025 +SK1 -AFD101	Konf.Ltg.F5	1x0.0 mm²	1	0.0			KA027&FU003 carrousel filler
11	=.2030-W131	=FU1.2030 +SK1 -W131	=FU1.2030 +SK1 -F131	Konf.Ltg.F5	1x0.0 mm²	1	0.0			GE232&AU043&KA027 Speed monitoring discharge starwheel carrousel
12	=.2030-W132	=FU1.2030 +SK1 -CN131	=FU1.2030 +ALM1 -MTR101	Konf.Ltg.F4 SH	4x2x0.0+2x0.0 mm²	11	0.0	S		AU043&KA027 discharge starwheel carrousel
13	=.2035-W101	=FU1.2035 +SK1 -AFD101	=FU1.2035 +ALM1 -MTR101	Konf.Ltg.Z PE SH	4x0.0 mm²	5	0.0	S		SE097&VE015#1 servo drive closer1
14	=.2035-W102	=FU1.2035 +SK1 -TB59A01	=FU1.2035 +ALM1 -CN102	Konf.Ltg.F2	4x0.0 mm²	4	0.0	S		SE097&VE015#1&LU001 servo drive closer1 fan/ventilator
15	=.2035-W111	=FU1.2035 +SK1 -AFD101	=FU1.2030 +SK1 -AFD101	Konf.Ltg.F5	1x0.0 mm²	1	0.0			AU043&KA027 discharge starwheel carrousel
16	=.2035-W131	=FU1.2035 +SK1 -W131	=FU1.2035 +SK1 -F131	Konf.Ltg.F5	1x0.0 mm²	1	0.0			GE232&SE097&VE015#1 Speed monitoring servo drive closer1
17	=.2035-W132	=FU1.2035 +SK1 -CN131	=FU1.2035 +ALM1 -MTR101	Konf.Ltg.F4 SH	4x2x0.0+2x0.0 mm²	11	0.0	S		SE097&VE015#1 servo drive closer1
18	=.2040-W101	=FU1.2040 +SK1 -AFD101	=FU1.2040 +ALM1 -MTR101	Konf.Ltg.F1 PESH	8x0.0 mm²	9	0.0	S		AU043&VE015#1 discharge starwheel closer1
19	=.2040-W102	=FU1.2040 +SK1 -TB59A01	=FU1.2040 +ALM1 -FN102	Konf.Ltg.Z PE	3x0.0 mm²	3	0.0	S		AU043&VE015#1&LU001 discharge starwheel closer1 fan/ventilator
20	=.2040-W111	=FU1.2040 +SK1 -AFD101	=FU1.2035 +SK1 -AFD101	Konf.Ltg.F5	1x0.0 mm²	1	0.0			SE097&VE015#1 servo drive closer1
21	=.2040-W131	=FU1.2040 +SK1 -W131	=FU1.2040 +SK1 -F131	Konf.Ltg.F5	1x0.0 mm²	1	0.0			GE232&AU043&VE015#1 Speed monitoring discharge starwheel closer1
22	=.2040-W132	=FU1.2040 +SK1 -CN131	=FU1.2040 +ALM1 -MTR101	Konf.Ltg.F4 SH	4x2x0.0+2x0.0 mm²	11	0.0	S		AU043&VE015#1 discharge starwheel closer1
23	=.2101-P111	=FU1.0520 +KR1 -TB72	=FU1.2101 +FKA1 -P111	Konf.Ltg.F1 SH	7x0.0 mm²	8	0.0			SO011#HV&RI002&SOND probeHV ring bowl
24		=FU1.0520 +KR1 -TB82								
25	=.2101-W101	=FU1.2101 +KR1 -TB40	=FU1.2101 +FKA1 -MTR101	JZ-602	4 G AWG14	4	0.0		7187360121	HO001&RI002 height adjustment system ring bowl
26	=.2101-W109	=FU1.2101 +SK1 -TB49A70	=FU1.0301 +FKA1 -W701	JZ-602	4 G AWG14	4	0.0	S	7187360121	SC011 slip-ring transmitter
27	=.2101-W113	=FU1.2101 +SK1 -TB59A13	=FU1.2101 +ELM1 -P113	JZ-602	4 G AWG18	4	0.0	S	0900018159	UE001&FU084 monitoring Guide
28	=.2101-W201	=FU1.2101 +SK1 -TB59A20	=FU1.2101 +FKA1 -CN201	JZ-602	5 G AWG20	5	0.0	S	7187360102	HO001#1&GL010 height adjustment system1 centr.bell lift.cam
29	=.2101-W211	=FU1.2101 +SK1 -TB59A21	=FU1.2101 +FKA1 -CN211	JZ-602	5 G AWG20	5	0.0	S	7187360102	HO001#2&GL010 height adjustment system2 centr.bell lift.cam

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	KA002 cable no.	VO004 of	NA002 to	TY001 type	AD001 leads	BL004 leads used	LA002 length	VA011 variant	ED001 KRONES EDV no	BE004 remarks
1	=.2102-W201	=FU1.2102 +SK1 -TB59A20	=FU1.2102 +FKA1 -CN201	JZ-602	5 G AWG20	5	0.0	S	7187360102	HO001#1&SP120 height adjustment system1 Pressurisation zone guards
2	=.2102-W211	=FU1.2102 +SK1 -TB59A21	=FU1.2102 +FKA1 -CN211	JZ-602	5 G AWG20	5	0.0	S	7187360102	HO001#2&SP120 height adjustment system2 Pressurisation zone guards
3	=.2801-W301	=FU1.2801 +SK1 -TB49A01	=FU1.2801 +SU1 -MTR301	JZ-602	4 G AWG14	4	0.0	S	7187360121	FI004&OE006 filtration oil bath
4	=.2801-W302	=FU1.2801 +SK1 -TB59A01	=FU1.2801 +SU1 -CN301	JZ-602	4 G AWG18	4	0.0	S	0900018159	FI004&OE006&OE004 filtration oil bath oil pressure
5	=.2801-W303	=FU1.2801 +SK1 -TB89A01	=FU1.2801 +FKA1 -P303	Konf.Ltg.F2	4x0.0 mm²	4	0.0	S		FI004&OE006&SE025 filtration oil bath sensor
6	=.4001-W151	=FU1.4001 +SK1 -TB59A04	=FU1.4001 +TBB1 -CN151	JZ-602	4 G AWG18	4	0.0	S	0900018159	LE007&AU005&KU007 speed control system discharge low
7	=.4001-W152	=FU1.4001 +SK1 -TB59A05	=FU1.4001 +TBB1 -CN152	JZ-602	4 G AWG18	4	0.0	S	0900018159	LE007&AU005&LA022 speed control system discharge long
8	=.4101-W101	=FU1.4101 +TBB1 -DISC102	=FU1.4101 +TBB1 -MTR101	JZ-602-CY	4 G AWG14	5	0.0		7187360180	AU003 discharge conveyor
9	=.4101-W102	=FU1.4101 +SK1 -AFD101	=FU1.4101 +TBB1 -DISC102	TrayFlex II CY	4 G AWG14	5	0.0	A	0900071929	AU003 discharge conveyor
10		=FU1.4101 +SK1 -TB40								
11	=.4101-W104	=FU1.4101 +SK1 -TB59A01	=FU1.4101 +TBB1 -DISC102	TrayFlex II	3 G AWG18	3	0.0	S	0900071922	AU003 discharge conveyor
12	=.4101-W111	=FU1.1701 +SK1 -T101	=FU1.4101 +SK1 -AFD101	LIY-CY	1x0.5 mm²	2	0.0		7870305001	AU003 discharge conveyor
13			=FU1.4101 +SK1 -TB52							
14	=.4101-W112	=FU1.0501 +SK1 -COM253	=FU1.4101 +SK1 -COM112	Konf.Ltg.F5	1x0.0 mm²	1	0.0			AU003&ET051# -&AD008 discharge conveyor Ethernet - adapter
15	=.5205-P111	=FU1.5205 +KKN1 -TB82	=FU1.5205 +ALM1 -P111	Konf.Ltg.F1 SH	7x0.0 mm²	8	0.0			SO011&HO001&KR004 probe height adjustment system crowner
16	=.5205-W101	=FU1.5205 +KKN1 -C101	=FU1.5205 +KN1 -MTR101	JZ-602	4 G AWG14	4	0.0		7187360121	HO001&KR004 height adjustment system crowner
17		=FU1.5205 +KKN1 -TB40								
18	=.5205-W111	=FU1.0507 +KKN1 -IO812	=FU1.5205 +KKN1 -TB82	LIYCY	4x0.5 mm²	5	0.0		7870305004	SO011&HO001&KR004 probe height adjustment system crowner
19	=.5215-W051	=FU1.0507 +KKN1 -IO612	=FU1.5215 +KKN1 -IO052	Konf.Ltg.F1	10x0.0 mm²	5	0.0			VE044&VE007#288&KR004 valve control valve288 crowner
20	=.5215-W053	=FU1.0507 +KKN1 -IO614	=FU1.5215 +KKN1 -IO054	Konf.Ltg.F1	10x0.0 mm²	5	0.0			VE044&VE007#270&AB044 valve control valve270 shower
21	=.5220-RTD173	=FU1.5220 +KKN1 -CVTR173	=FU1.5220 +KN1 -RTD173	Konf.Ltg.F8	3x0.0 mm²	3	0.0			HD003&TE009 high-press.inject.syst. temperatrure
22	=.5220-W101	=FU1.5220 +KKN1 -TB40	=FU1.5220 +KN1 -HTR101	Silflex	3x1.5 mm²	3	0.0		7186703120	HO004&HE004#E176 high-press.inject.syst. heatingE176
23	=.5220-W152	=FU1.5220 +KN1 -CN152	=FU1.0507 +KKN1 -IO624	JZ-602	3 G AWG18	3	0.0		0900018158	HO004&EN005 high-press.inject.syst. snifting
24			=FU1.0507 +KKN1 -TB52							
25	=.5220-W156	=FU1.0506 +KPV1 -IO412	=FU1.5220 +PV1 -CN156	JZ-602	3 G AWG18	3	0.0		0900018158	HO004&DR004 high-press.inject.syst. pressure switch
26		=FU1.0506 +KPV1 -TB51								
27	=.5220-W158	=FU1.0507 +KKN1 -IO624	=FU1.5220 +KN1 -CN158	JZ-602	3 G AWG18	3	0.0		0900018158	HO004&EI066&VE015 high-press.inject.syst. injection system closer
28		=FU1.0507 +KKN1 -TB52								
29										

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	KA002 cable no.	VO004 of	NA002 to	TY001 type	AD001 leads	BL004 leads used	LA002 length	VA011 variant	ED001 KRONES EDV no	BE004 remarks
1	=.5220-W173	=FU1.0507 +KKN1 -IO812	=FU1.0507 +KKN1 -TB82	LIYCY	4x0.5 mm²	5	0.0		7870305004	HD003&TE009 high-press.inject.syst. temperatrure
2			=FU1.5220 +KKN1 -CVTR173							
3	=.5220-W174	=FU1.0507 +KKN1 -IO422	=FU1.5220 +KN1 -P174	Konf.Ltg.F2	4x0.0 mm²	4	0.0			HO004&SO011 high-press.inject.syst. probe
4	=.5220-W175	=FU1.5220 +KPV1 -TB51	=FU1.5220 +KPV1 -SOL175	Konf.Ltg.F3 SH	8x0.0 mm²	9	0.0			HD003&RV001 high-press.inject.syst. control valve
5	=.5220-W177	=FU1.5220 +KPV1 -TB51	=FU1.0506 +KPV1 -IO864	LIY-CY	2x0.5 mm²	3	0.0		7870305002	HD003&RV001 high-press.inject.syst. control valve
6	=.5240-SOL121	=FU1.5240 +KN1 -CN122	=FU1.5240 +KN1 -SOL121	Konf.Ltg.F3	2x0.0 mm²	2	0.0			VI002&KR004 vibrator crowner
7	=.5240-SOL202	=FU1.5240 +KKN1 -TB52	=FU1.5240 +KN1 -SOL202	Konf.Ltg.Z	2x0.0 mm²	2	0.0			ST020&KO010&RI003 stopper crowner chute
8	=.5240-SOL203	=FU1.5240 +KKN1 -TB52	=FU1.5240 +KN1 -SOL203	Konf.Ltg.Z PE	3x0.0 mm²	3	0.0			ST020&WE003 stopper twist tube
9	=.5240-W101	=FU1.5240 +SK1 -AFD101	=FU1.5240 +KN1 -MTR101	JZ-602-CY	4 G AWG14	5	0.0	A	7187360180	SO002 sorter
10		=FU1.5240 +SK1 -TB40								
11	=.5240-W112	=FU1.0501 +SK1 -COM253	=FU1.5240 +SK1 -COM112	Konf.Ltg.F5	1x0.0 mm²	1	0.0			SO002&ET051# -&AD008 sorter Ethernet - adapter
12	=.5240-W121	=FU1.5240 +KN1 -CN121	=FU1.5240 +KKN1 -TB40	JZ-602	3 G AWG16	3	0.0		7187360110	VI002&KR004 vibrator crowner
13	=.5240-W122	=FU1.0507 +KKN1 -IO414	=FU1.5240 +KN1 -P122	Konf.Ltg.F2	4x0.0 mm²	4	0.0			VI002&KR004 vibrator crowner
14	=.5240-W161	=FU1.0507 +KKN1 -IO414	=FU1.5240 +KN1 -P161	JZ-602	4 G AWG20	4	0.0		7187360101	VE013 closure supply
15		=FU1.0507 +KKN1 -TB52								
16	=.5240-W162	=FU1.0507 +KKN1 -IO414	=FU1.5240 +KN1 -P162	Konf.Ltg.F2	4x0.0 mm²	4	0.0			MA033 lack at chute
17	=.5240-W163	=FU1.0507 +KKN1 -IO412	=FU1.5240 +KN1 -P163	Konf.Ltg.F2	4x0.0 mm²	4	0.0			UE017 transfer plate
18	=.5240-W164	=FU1.5240 +KKN1 -TB52	=FU1.5240 +KN1 -P164	Konf.Ltg.F2	4x0.0 mm²	4	0.0			KR004&MA006&UE003 crowner lack transfer
19	=.5240-W204	=FU1.0507 +KKN1 -IO622	=FU1.5240 +KN1 -CN204	JZ-602	3 G AWG18	3	0.0		0900018158	RU007&WE003 vibrator twist tube
20		=FU1.0507 +KKN1 -TB52								
21	=.6301-W202	=FU1.0501 +SK1 -COM233	=FU1.6301 +SK1 -CPU202	Konf.Ltg.F5	1x0.0 mm²	1	0.0			ZE040 central component unit
22	=.6301-W203	=FU1.6301 +SK1 -CPU202	=FU1.2001 +SK1 -COM241	Konf.Ltg.F5	1x0.0 mm²	1	0.0			HU019&PO502 lifting Powerlink
23	=.6301-W204	=FU1.0501 +SK1 -COM253	=FU1.6301 +SK1 -COM201	Konf.Ltg.F5	1x0.0 mm²	1	0.0			BU011&CO040 bus Controller
24	=.6301-W401	=FU1.6301 +FKA1 -CN401	=FU1.6301 +SK1 -CN232	Simatic Net	2x2x0.64 mm²	5	0.0	S	0900033296	BU011&CO040 bus Controller
25	=.6301-W403	=FU1.6301 +FKA1 -CN403	=FU1.6301 +SK1 -CN234	Simatic Net	2x2x0.64 mm²	5	0.0	S	0900033296	BU011&CO040 bus Controller
26	=.6301-W951	=FU1.0506 +KPV1 -IO414	=FU1.6301 +KPV1 -PS951	Konf.Ltg.F2	4x0.0 mm²	2	0.0			DR004&AR003&RI015 pressure switch operating air compr.-air distributor
27	=.6301-W952	=FU1.0506 +KPV1 -IO414	=FU1.6301 +KPV1 -PS952	Konf.Ltg.F2	4x0.0 mm²	2	0.0			KA081&ST009&LU010#1 chamber malfunction dehumidifier1
28	=.6301-W953	=FU1.0506 +KPV1 -IO414	=FU1.6301 +PV1 -PS953	Konf.Ltg.F2	4x0.0 mm²	2	0.0			FI002&ST009&LU010#1 filter malfunction dehumidifier1
29	=.6302-W201	=FU1.6302 +KR1 -TB53V1	=FU1.6401 +KR1 -CV401	JZ-602	5 G AWG16	5	0.0		7187360112	FU053&VE127# 1 filling valve contr. valve block 1

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CAD Skala
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KA002 cable no.	VO004 of	NA002 to	TY001 type	AD001 leads	BL004 leads used	LA002 length	VA011 variant	ED001 KRONES EDV no	BE004 remarks
1 =.6302-W211	=FU1.6302 +KR1 -TB53V1	=FU1.6401 +KR1 -CV411	JZ-602	5 G AWG16	5	0.0		7187360112	~~FU053&VE127# 11~~ filling valve contr. valve block 11
2 =.6302-W411	=FU1.6301 +KR1 -CN402	=FU1.6302 +KR1 -K411	Konf.Ltg.F5	1x0.0 mm²	1	0.0			~~FU053~~ filling valve contr.
3 =.6302-W413	=FU1.6302 +KR1 -K411	=FU1.0520 +KR1 -COM302	Konf.Ltg.F5	1x0.0 mm²	1	0.0			~~BU011&CO040~~ bus Controller
4 =.6302-W419	=FU1.6401 +KR1 -CV414	=FU1.6302 +KR1 -K411	Konf.Ltg.F5	1x0.0 mm²	1	0.0			~~FU053~~ filling valve contr.
5 =.6401-W401	=FU1.6401 +KR1 -CV401	=FU1.6302 +KR1 -K411	Konf.Ltg.F5	1x0.0 mm²	1	0.0			~~FU053~~ filling valve contr.
6 =.6401-W410	=FU1.6401 +KR1 -CV410	=FU1.6401 +KR1 -CV409	Konf.Ltg.F5	1x0.0 mm²	1	0.0			~~FU053&VE127# 9~~ filling valve contr. valve block 9
7 =.7001-W101	=FU1.0520 +KR1 -IO454	=FU1.7001 +FKA1 -B101	LIY-CY	2x0.5 mm²	3	0.0		7870305002	~~TE015# TT101&RI002~~ temperature sensor TT101 ring bowl
8	=FU1.0520 +KR1 -TB72								
9	=FU1.0520 +KR1 -TB82								
10 =.7301-W011	=FU1.0503 +SK1 -IO644	=FU1.7301 +SK1 -IO012	Konf.Ltg.F1	10x0.0 mm²	5	0.0			~~VE044&RE001~~ valve control reserve
11	=FU1.0503 +SK1 -TB52								
12 =.7501-P151	=FU1.0520 +KR1 -TB72	=FU1.7501 +FKA1 -P151	Konf.Ltg.F1 SH	7x0.0 mm²	8	0.0			~~RE022&NI001&SO011#1~~ control level probe1
13	=FU1.0520 +KR1 -TB82								
14 =.7501-P152	=FU1.0520 +KR1 -TB72	=FU1.7501 +FKA1 -P152	Konf.Ltg.F1 SH	7x0.0 mm²	8	0.0			~~RE022&NI001&SO011#2~~ control level probe2
15	=FU1.0520 +KR1 -TB82								
16 =.7501-W100	=FU1.0506 +KPV1 -IO422	=FU1.7501 +PV1 -SOL100	LIYCY	4x0.5 mm²	5	0.0		7870305004	~~VE007# 100&NI001~~ valve 100 level
17	=FU1.0506 +KPV1 -IO862								
18	=FU1.7501 +KPV1 -TB81								
19 =.7501-W110	=FU1.0506 +KPV1 -IO422	=FU1.7501 +PV1 -P110	Konf.Ltg.F2	4x0.0 mm²	4	0.0			~~LE018#LS110&SOND&SOND~~ level probeLS110
20 =.7501-W131	=FU1.0506 +KPV1 -IO422	=FU1.7501 +PV1 -SS131	JZ-602	4 G AWG18	4	0.0		0900018159	~~PR027&AU011~~ product feed automatic
21	=FU1.0506 +KPV1 -TB51								
22 =.7601-W120	=FU1.0520 +KR1 -TB72	=FU1.7601 +FKA1 -PI120	Konf.Ltg.F2	4x0.0 mm²	2	0.0			~~DR026# PT120&RI002~~ pressure transmitter PT120 ring bowl
23 =.7601-W130	=FU1.0506 +KPV1 -IO812	=FU1.7601 +PV1 -PI130	Konf.Ltg.F2	4x0.0 mm²	2	0.0			~~DR026# PT130&PR012~~ pressure transmitter PT130 product feed pipe
24 =.7601-W200	=FU1.0506 +KPV1 -IO432	=FU1.7601 +PV1 -SOL200	LIYCY	4x0.5 mm²	5	0.0		7870305004	~~VE007# 200&DR005~~ valve 200 press.regulat.system
25	=FU1.0506 +KPV1 -IO862								
26	=FU1.0506 +KPV1 -TB81								
27 =.7601-W201	=FU1.0506 +KPV1 -IO432	=FU1.7601 +PV1 -SOL201	LIYCY	4x0.5 mm²	5	0.0		7870305004	~~VE007# 201&DR005~~ valve 201 press.regulat.system
28	=FU1.0506 +KPV1 -IO864								
29	=FU1.0506 +KPV1 -TB81								

KA002 cable no.	VO004 of	NA002 to	TY001 type	AD001 leads	BL004 leads used	LA002 length	VA011 variant	ED001 KRONES EDV no	BE004 remarks
1 =.8001-W011	=FU1.0506 +KPV1 -IO622	=FU1.8001 +KPV1 -IO012	Konf.Ltg.F1	10x0.0 mm²	5	0.0			~~VE044&VE007#102&HA014#2~~ valve control valve102 main shut-off valve2
2 =.8001-W102	=FU1.0506 +KPV1 -IO442	=FU1.8001 +PV1 -P102C	Konf.Ltg.F2	4x0.0 mm²	3	0.0			~~VE007# 102&HA014#2&SOND~~ valve 102 main shut-off valve2
3 =.8001-W104	=FU1.0506 +KPV1 -IO442	=FU1.8001 +PV1 -P104C	Konf.Ltg.F2	4x0.0 mm²	3	0.0			~~VE007# 104&BY001&SOND~~ valve 104 by-pass
4 =.8020-W011	=FU1.0503 +SK1 -IO652	=FU1.8020 +SK1 -IO012	Konf.Ltg.F1	10x0.0 mm²	5	0.0			~~VE044&VE007#260&SOND~~ valve control valve260
5	=FU1.0503 +SK1 -TB52								
6 =.8030-W011	=FU1.0506 +KPV1 -IO624	=FU1.8030 +KPV1 -IO012	Konf.Ltg.F1	10x0.0 mm²	5	0.0			~~VE044&VE007#120&CI003~~ valve control valve120 CIP return pipe
7 =.8030-W120	=FU1.0506 +KPV1 -IO444	=FU1.8030 +PV1 -P120C	Konf.Ltg.F2	4x0.0 mm²	3	0.0			~~VE007# 120&AB024&CI003~~ valve 120 shut-off valve CIP return pipe
8 =.8030-W121	=FU1.0506 +KPV1 -IO444	=FU1.8030 +PV1 -P121C	Konf.Ltg.F2	4x0.0 mm²	3	0.0			~~VE007# 121&LE054&SOND~~ valve 121 outflow
9 =.8030-W122	=FU1.0506 +KPV1 -IO444	=FU1.8030 +PV1 -P122C	Konf.Ltg.F2	4x0.0 mm²	3	0.0			~~VE007# 122&AB024&CI003~~ valve 122 shut-off valve CIP return pipe
10 =.8040-W011	=FU1.0506 +KPV1 -IO632	=FU1.8040 +KPV1 -IO012	Konf.Ltg.F1	10x0.0 mm²	5	0.0			~~VE044&VE007#161&CO002~~ valve control valve161 CO2
11 =.8040-W021	=FU1.0506 +KPV1 -IO634	=FU1.8040 +KPV1 -IO022	Konf.Ltg.F1	10x0.0 mm²	5	0.0			~~VE044&VE007#171&ST054~~ valve control valve171 sterile air
12 =.8040-W161	=FU1.0506 +KPV1 -IO452	=FU1.8040 +PV1 -P161C	Konf.Ltg.F2	4x0.0 mm²	3	0.0			~~VE007# 161&AB024&CO002~~ valve 161 shut-off valve CO2
13 =.8040-W162	=FU1.0506 +KPV1 -IO452	=FU1.8040 +PV1 -P162C	Konf.Ltg.F2	4x0.0 mm²	3	0.0			~~VE007# 162&TR079&CO002# /&CI002~~ valve 162 partition CO2 / CIP
14 =.8040-W163	=FU1.0506 +KPV1 -IO452	=FU1.8040 +PV1 -P163C	Konf.Ltg.F2	4x0.0 mm²	3	0.0			~~VE007# 163&LE054&VO018&VE007# 162~~ valve 163 outflow in front of valve 162
15 =.8040-W164	=FU1.0506 +KPV1 -IO452	=FU1.8040 +PV1 -P164C	Konf.Ltg.F2	4x0.0 mm²	3	0.0			~~VE007# 164&TR079&ZU015#-&AB051~~ valve 164 partition inflow- outflow
16 =.8040-W171	=FU1.0506 +KPV1 -IO462	=FU1.8040 +PV1 -P171C	Konf.Ltg.F2	4x0.0 mm²	3	0.0			~~VE007# 171&AB024&ST054~~ valve 171 shut-off valve sterile air
17 =.8040-W182	=FU1.0506 +KPV1 -IO462	=FU1.8040 +PV1 -P182C	Konf.Ltg.F2	4x0.0 mm²	3	0.0			~~VE007# 182&AB024&DA006#/&CO002~~ valve 182 shut-off valve steam / CO2
18 =.8040-W183	=FU1.0506 +KPV1 -IO462	=FU1.8040 +PV1 -P183C	Konf.Ltg.F2	4x0.0 mm²	3	0.0			~~VE007# 183&AB024&DA006#/&ST054~~ valve 183 shut-off valve steam / sterile air
19 =.8040-W184	=FU1.0506 +KPV1 -IO462	=FU1.8040 +PV1 -P184C	Konf.Ltg.F2	4x0.0 mm²	3	0.0			~~VE007# 184&LE054&DA006~~ valve 184 outflow steam
20 =.8043-W011	=FU1.0506 +KPV1 -IO614	=FU1.8043 +KPV1 -IO012	Konf.Ltg.F1	10x0.0 mm²	5	0.0			~~VE044&VE007#169&CO012~~ valve control valve169 CO2 filter
21 =.8043-W208	=FU1.0506 +KPV1 -IO454	=FU1.8043 +PV1 -P208C	Konf.Ltg.F2	4x0.0 mm²	3	0.0			~~VE007# 208&BY001&RV001# 201~~ valve 208 by-pass control valve 201
22 =.8045-W011	=FU1.0506 +KPV1 -IO642	=FU1.8045 +KPV1 -IO012	Konf.Ltg.F1	10x0.0 mm²	5	0.0			~~VE044&RE001~~ valve control reserve
23 =.8060-W011	=FU1.0520 +KR1 -IO402	=FU1.8060 +KR1 -IO012	Konf.Ltg.F1	10x0.0 mm²	5	0.0			~~VE044&RE001~~ valve control reserve
24	=FU1.0520 +KR1 -TB72								
25 =.9201-W101	=FU1.9201 +SK1 -TB42	=FU1.9201 +VP1 -MTR101	JZ-602	4 G AWG8	4	0.0	A	7187360150	~~VA001# G141~~ vacuum pump G141
26 =.9201-W103	=FU1.9201 +SK1 -TB52	=FU1.9201 +VP1 -MTR101	JZ-602	3 G AWG18	3	0.0	A	0900018158	~~VA001# G141~~ vacuum pump G141
27 =.9209-P/I140	=FU1.0520 +KR1 -IO454	=FU1.9209 +FKA1 -PI140	Konf.Ltg.F4 SH	6x0.0 mm²	3	0.0			~~VA016# PT140~~ pressure transducer PT140
28	=FU1.0520 +KR1 -TB72								
29	=FU1.0520 +KR1 -TB82								

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K123989-001
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sheet 09 55/56
999

	KA002 cable no.	VO004 of	NA002 to	TY001 type	AD001 leads	BL004 leads used	LA002 length	VA011 variant	ED001 KRONES EDV no	BE004 remarks
1	=.9209-W041	=FU1.0506 +KPV1 -IO652	=FU1.9209 +KPV1 -IO042	Konf.Ltg.F1	10x0.0 mm²	5	0.0			~~VE044&VE007#140~~ valve control valve140
2	=.9209-W119	=FU1.0506 +KPV1 -IO424	=FU1.9209 +VP1 -P119	Konf.Ltg.F2	4x0.0 mm²	4	0.0			~~BE012&MA003#LS119&VA001~~ magazine/container maximum LS119 vacuum pump
3	=.9209-W140	=FU1.0506 +KPV1 -IO474	=FU1.9209 +PV1 -P140C	Konf.Ltg.F2	4x0.0 mm²	3	0.0			~~VE007# 140&SOND&SOND~~ valve 140
4	=.9209-W141	=FU1.0506 +KPV1 -IO474	=FU1.9209 +PV1 -P141C	Konf.Ltg.F2	4x0.0 mm²	3	0.0			~~VE007# 141&SOND&SOND~~ valve 141
5	=.9209-W156	=FU1.0506 +KPV1 -IO824	=FU1.9209 +VP1 -B156	Konf.Ltg.F2	4x0.0 mm²	2	0.0			~~TE015# TT156~~ temperature sensor TT156
6	=.9702-W111	=FU1.0597 +SK1 -IO812	=FU1.9702 +SK1 -TB82	LIYCY	4x0.5 mm²	5	0.0		7870305004	~~ME043# O2~~ meter O2
7			=FU1.9702 +SK1 -TB92							
8	=.9704-W201	=FU1.9704 +SK1 -TB99A03	=FU1.9704 +SK1 -DA201	LIY-CY	2x0.5 mm²	3	0.0		7870305002	~~SI022&BE068&HO031~~ signal transmission container conveyor high-res.clock pulse
9	=.9702-W101	=FU1.9702 +SK1 -TB92	=FM1 +SK1 -TB99	TrayFlex II	5 G AWG14	5	0.0	X	0900072095	~~SI022&KU001~~ VE037 signal transmission customer connecting line
10		=FU1.9702 +SK1 -TB99A01								
11	=.9704-W202	=FU1.9704 +SK1 -TB99A03	=FM4 +SS -TB99	TrayFlex II CY	5 G AWG14	6	0.0	X	0900071957	~~SI022&BE068~~ VE037 signal transmission container conveyor connecting line
12	=.9712-W101	=FU1.9712 +SK1 -TB99A11	=FM12 +SK1 -A999	LIYCY	16x0.5 mm²	17	0.0	S	7870305016	~~SI022&CH001~~ VE037 signal transmission Checkmat connecting line
13	=.9712-W148	=FU1.9712 +SK1 -TB99A12	=FM12 +SK1 -A999	LIYCY	7x0.5 mm²	8	0.0	S	7870305007	~~SI022&CH001~~ VE037 signal transmission Checkmat connecting line
14	=.9712-W171	=FU1.9712 +SK1 -TB99A13	=FM12 +SK1 -A999	LIYCY	5x0.5 mm²	6	0.0	S	7870305005	~~SI022&CH001~~ VE037 signal transmission Checkmat connecting line
15	=.9750-W101	=FU1.9750 +SK1 -TB99A01	=FM50 +SS -X10	TrayFlex II	5 G AWG14	5	0.0	X	0900072095	~~SI022&VE013#1~~ VE037 signal transmission closure supply1 connecting line
16	=.9750-W102	=FU1.9750 +SK1 -TB99A02	=FM50 +SS -X90	TrayFlex II	7 G AWG14	7	0.0	X	0900071791	~~SI022&VE013#1~~ VE037 signal transmission closure supply1 connecting line
17	=.9750-W111	=FU1.9750 +SK1 -TB99A03	=FM50 +SS -X95	TrayFlex II	7 G AWG14	7	0.0	X	0900071791	~~SI022&VE013#1~~ VE037 signal transmission closure supply1 connecting line
18	=.9901-W1001	=FU1.9901 +SK1 -TB59A30	=FU1.5240 +KKN1 -TB52	JZ-602	5 G AWG14	3	0.0	S	7187360122	~~KL031~~ VE037 terminal strip connecting line
19										
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