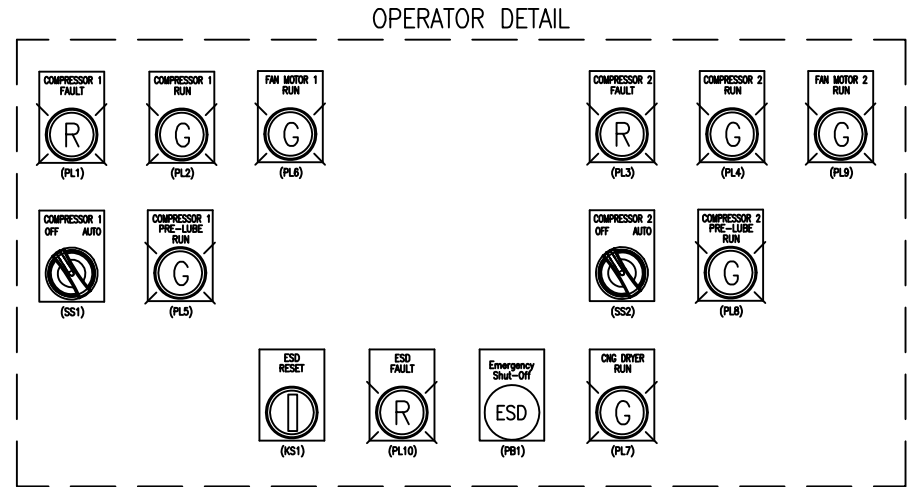
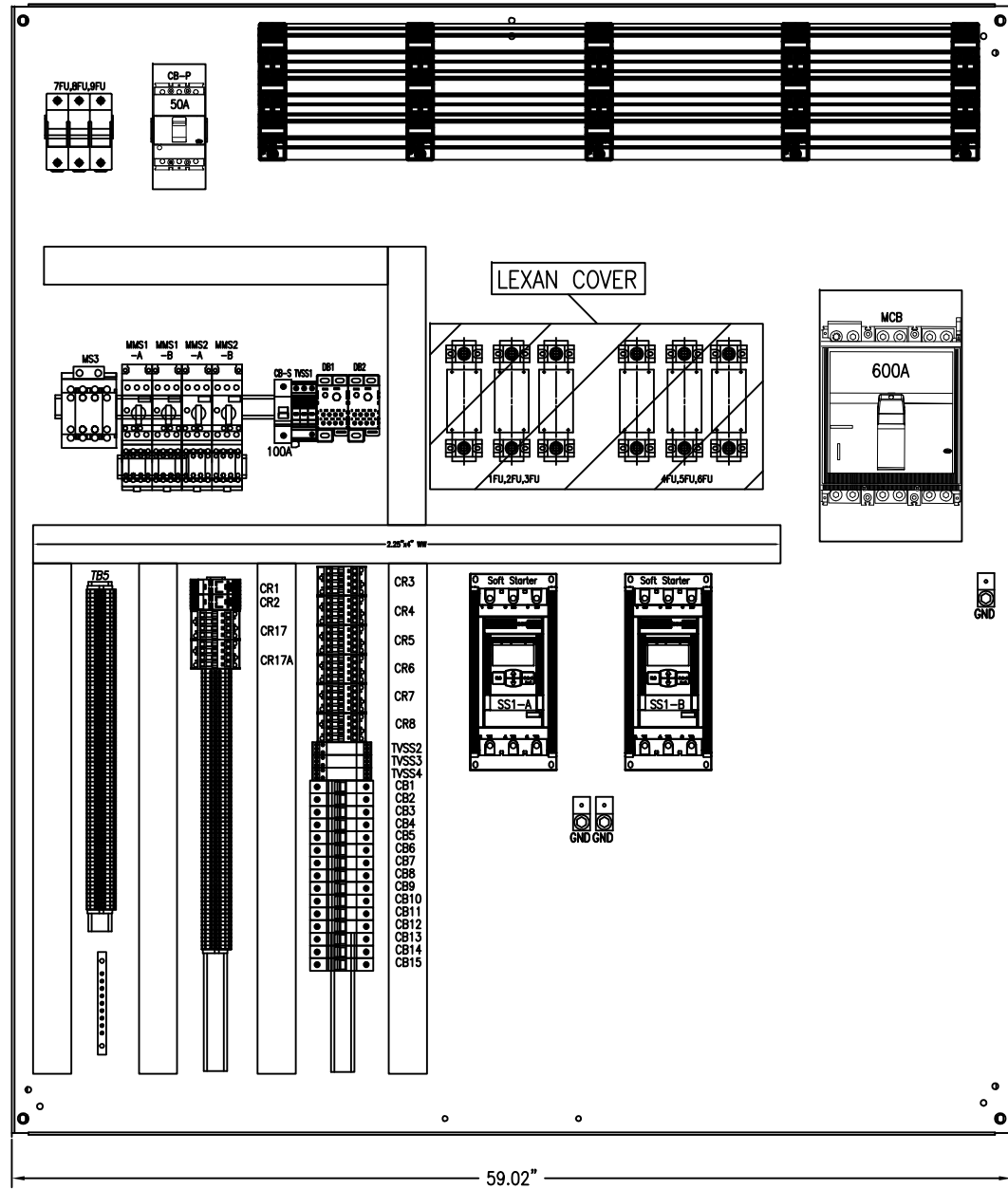
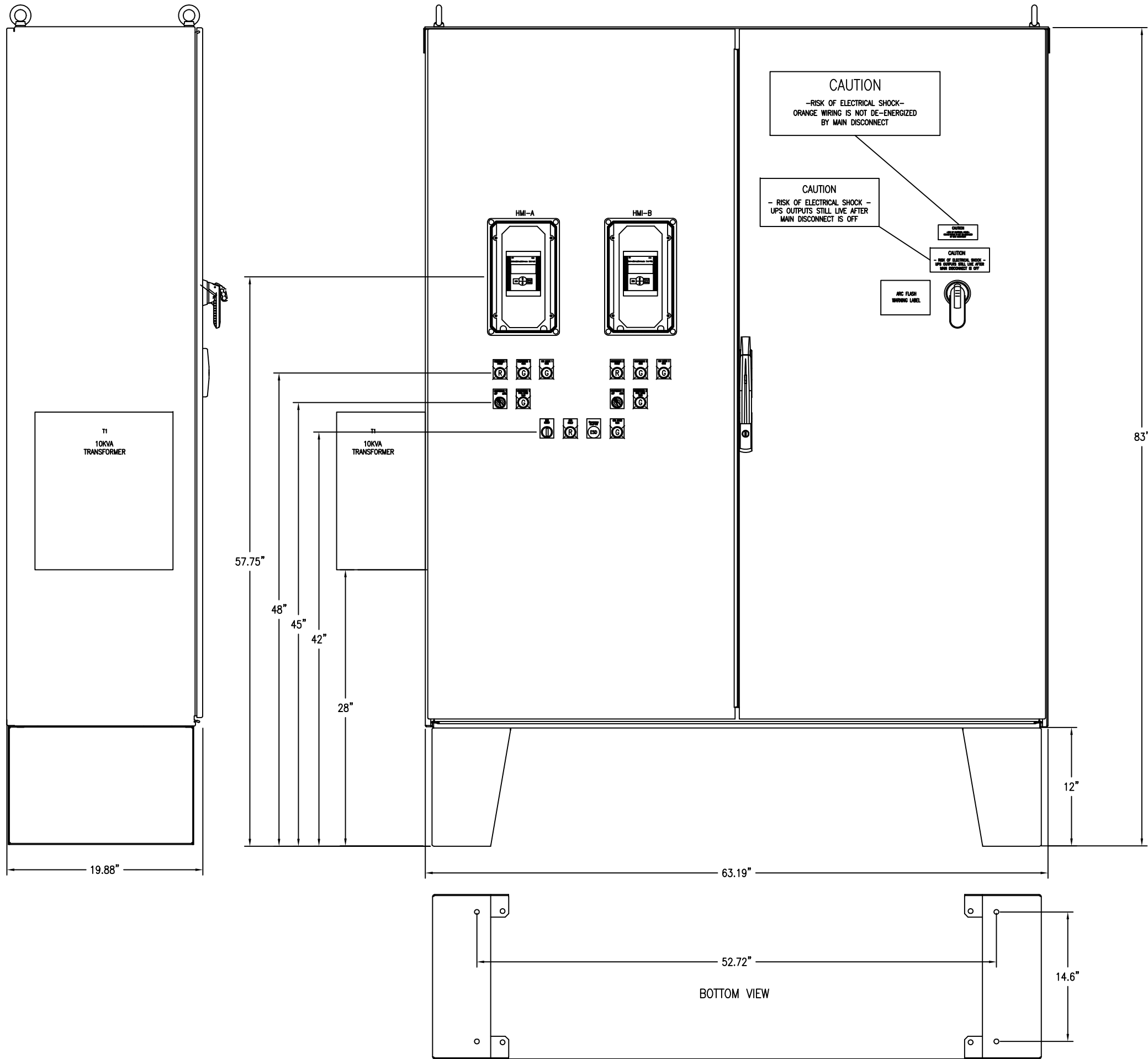
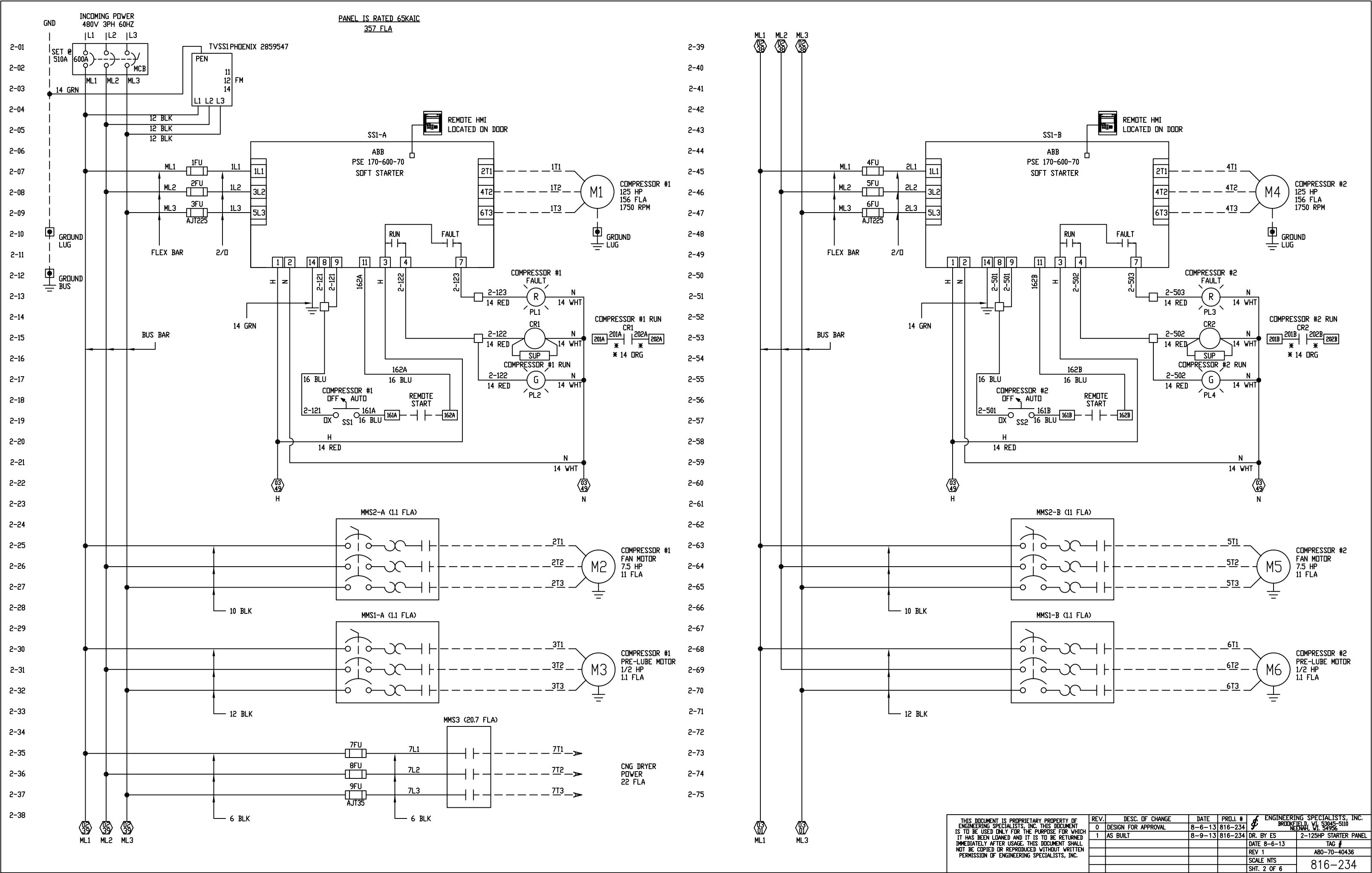
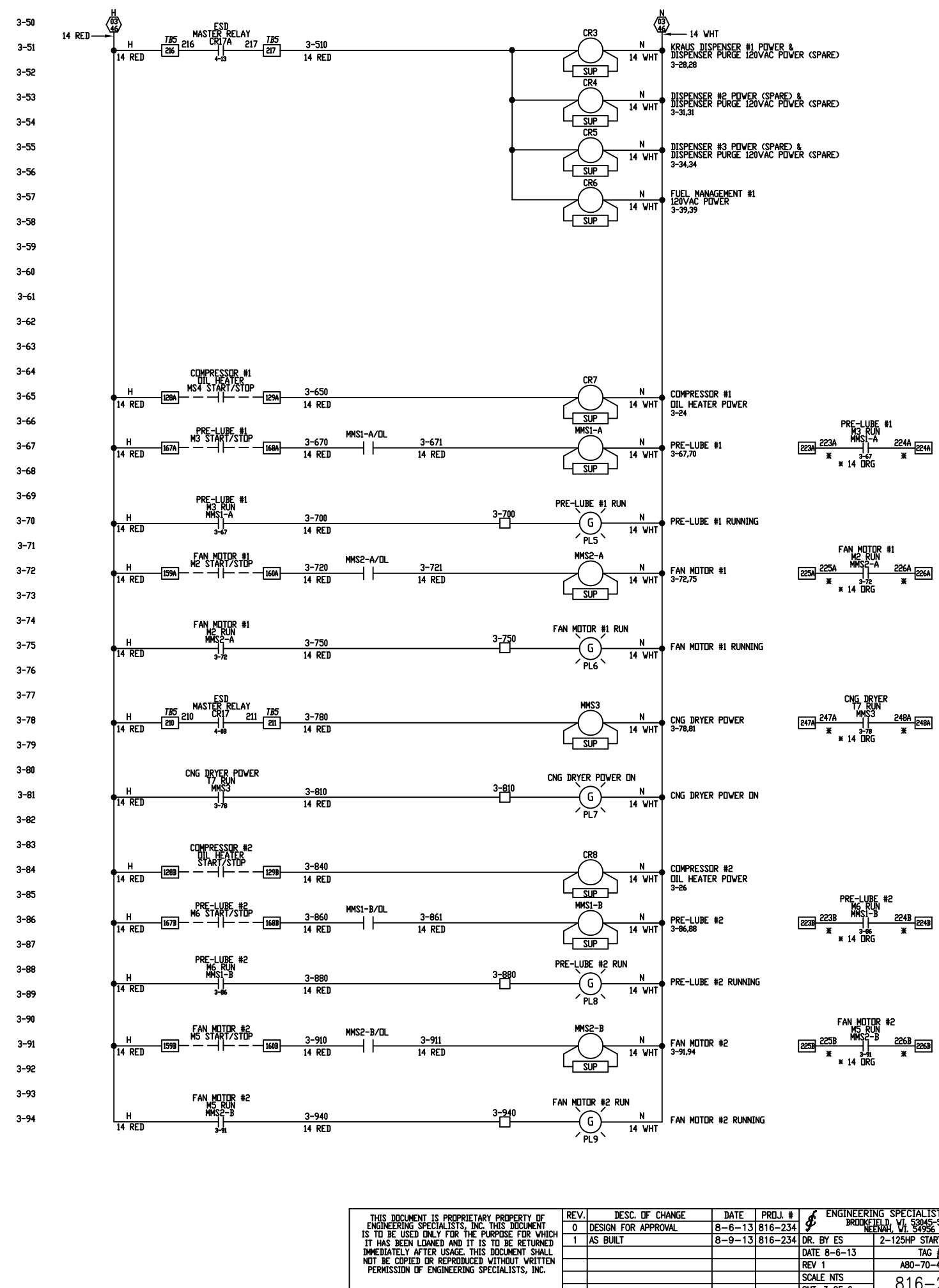




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REV.	DESC. OF CHANGE	DATE	PROJ. #	DR. BY	2-125HP STARTER PANEL	
0	DESIGN FOR APPROVAL	8-6-13	816-234	ES	TAG #	
1	AS BUILT	8-9-13	816-234	REV 1	ABO-70-40436	
				SCALE	NTS	
				SHT.	1 OF 6	



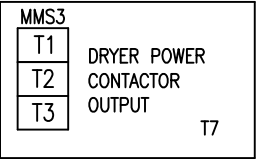
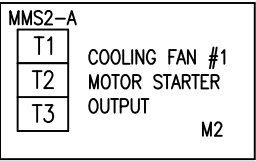
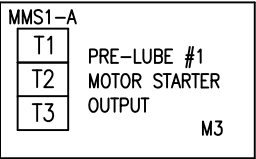
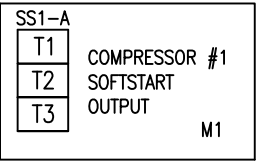


REV.	DESC. OF CHANGE	DATE	PROJ. #	ENGINEERING SPECIALISTS, INC.
0	DESIGN FOR APPROVAL	8-6-13	816-234	BROOKFIELD, IL 60510
1	AS BUILT	8-9-13	816-234	NEENAH, IL 54956
			DR. BY ES	2-125HP STARTER PANEL
			DATE 8-6-13	TAG #
			REV 1	AB0-70-40436
			SCALE NTS	
			SHT. 3 OF 6	816-234

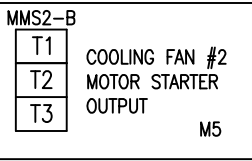
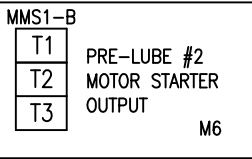
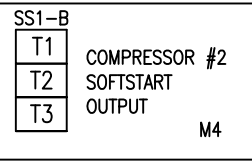
CUSTOMER TERMINAL STRIP

H1	COMPRESSOR #1
N1	TVSS PROTECTED CONTROL POWER
H2	COMPRESSOR #2
N2	TVSS PROTECTED CONTROL POWER
H3	CP-400 (PRIORITY PANEL)
N3	TVSS PROTECTED CONTROL POWER
H4A	COMPRESSOR #1
N4A	ENCLOSURE LIGHTING 120VAC POWER
H4B	COMPRESSOR #2
N4B	ENCLOSURE LIGHTING 120VAC POWER
H5	MS4 COMPRESSOR #1
N5	OIL HEATER POWER STARTER
H6	MS5 COMPRESSOR #2
N6	OIL HEATER POWER STARTER
H7A	KRAUS DISPENSER #1
N7A	120VAC POWER
H7B	DISPENSER #1 PURGE
N7B	120VAC POWER (SPARE)
H8A	DISPENSER #2
N8A	120VAC POWER (SPARE)
H8B	DISPENSER #2 PURGE
N8B	120VAC POWER (SPARE)
H9A	DISPENSER #3
N9A	120VAC POWER (SPARE)
H9B	DISPENSER #3 PURGE
N9B	120VAC POWER (SPARE)
H11	FUEL MANAGEMENT #1
N11	120VAC POWER
H13	120VAC POWER
N13	(SPARE)
H14	TVSS PROTECTED CONTROL POWER
N14	(SPARE)
H15	120VAC POWER
N15	(SPARE)
H16	TERMINALS
N16	
H17	TERMINALS
N17	
H18	TERMINALS
N18	
H19	TERMINALS
N19	
H20	TERMINALS
N20	
H21	FROM UPS
N21	UPS-120VAC CONTROL POWER
3-070	TO UPS
N	120VAC CONTROL POWER
H	STARTER PANEL
N	CONTROL POWER
H-ESD	ESD CONTROL
N-ESD	POWER

128A	COMPRESSOR #1
129A	OIL HEATER RUN DRY CONTACT INPUT
159A	M2 FAN MOTOR #1 RUN
160A	DRY CONTACT INPUT
161A	M1 COMPRESSOR MOTOR #1 RUN
162A	DRY CONTACT INPUT
167A	M3 PRE-LUBE MOTOR #1 RUN
168A	DRY CONTACT INPUT
201A	M1 COMPRESSOR MOTOR #1
202A	RUNNING SIGNAL DRY CONTACT OUTPUT
223A	M3 PRE-LUBE MOTOR #1
224A	RUNNING SIGNAL DRY CONTACT OUTPUT
225A	M2 COOLING FAN #1
226A	RUNNING SIGNAL DRY CONTACT
247A	T7 DRYER
248A	RUNNING SIGNAL DRY CONTACT



128B	COMPRESSOR #2
129B	OIL HEATER RUN DRY CONTACT INPUT
159B	M5 FAN MOTOR #2 RUN
160B	DRY CONTACT INPUT
161B	M4 COMPRESSOR MOTOR #2 RUN
162B	DRY CONTACT INPUT
167B	M6 PRE-LUBE MOTOR #2 RUN
168B	DRY CONTACT INPUT
201B	M4 COMPRESSOR MOTOR #2
202B	RUNNING SIGNAL DRY CONTACT OUTPUT
223B	M6 PRE-LUBE MOTOR #2
224B	RUNNING SIGNAL DRY CONTACT OUTPUT
225B	M5 COOLING FAN #2
226B	RUNNING SIGNAL DRY CONTACT

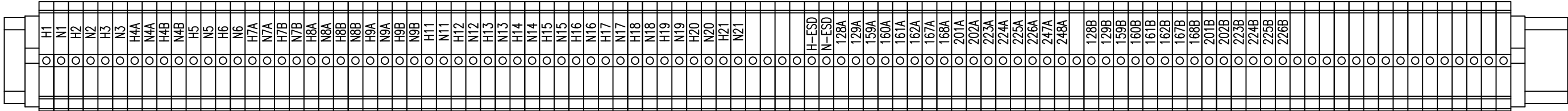


ZEIT ENERGY
A80-70-40436 2-125 HP SINGLE LINE 65KAIC RATING

PART NAME	PART NUMBER	MANUFACTURER	DESCRIPTION	QUA.
ENCLOSURE	8018969	RITTAL	NEMA 3R ENCLOSURE	1
1600A BUS	9342050	RITTAL	RLINE PLS1600 SUPPORT 3-POLE	5
1600A BUS	9342070	RITTAL	RLINE PLS1600 END COVER	1
1600A BUS	9342130	RITTAL	RLINE PLS1600 BASE TRAY - 1100MM	1
1600A BUS	9340200	RITTAL	RLINE TOP COVER - 700MM	1
1600A BUS	9340220	RITTAL	RLINE SUPPORT PANEL/COVER	1
1600A BUS	3529000	RITTAL	BUSBAR ECU 1600A 1095MM	1
1600A BUS	3575005	ERICO	FLEXIBLE BUS BAR - 780A, 40MM WIDE (MAIN TO BUS)	1
1600A BUS	3570000	RITTAL	FLEXIBLE BUS BAR - BUS TO FUSE STUD TO SOFT STARTER	2
1600A BUS	9342320	RITTAL	RLINE CONNECT ADAPTER - 1600A (MAIN BREAKER)	1
1600A BUS	9342310	RITTAL	CONDUCTOR ADAPTER (800A) FOR (2) SOFT STARTERS	2
1600A BUS	3455500	RITTAL	CONDUCTOR CONNECTION CLAMPS FOR OTHER (FANS, PUMPS, TRANS PROTECTOR)	15
1600A BUS	3456500/SINGLE	RITTAL	CONDUCTOR CONNECTION CLAMPS FOR OTHER (DRYER AND TRANSFORMER)	5
1600A BUS	3090000/SINGLE	RITTAL	CONNECTION COVERS	3
T1	8612150	RITTAL	SUPPORT BRACKET - TRANSFORMER	1
MCB DOOR HANDLE	0HB125J10	ABB	PISTOL HANDLE	1
MCB SHAFT	0XP10X500	ABB	SHAFT 16.9" 6X430	1
MCB MECHANISM	KT60V-M	ABB	VARIABLE DEPTH MECH T6	1
MCB	T6H600TW	ABB	MOLDED CASE CIRCUIT BREAKER, 3-POLE, 600A (Set at 510A)	1
MCB	K6TH	ABB	LUG KIT T6	1
MCB	KT6HTC-3	ABB	TERMINAL COVER FOR T6 BREAKER	1
MCB	KT6KLF	ABB	LOCKING MECHANISM FOR T6 CIRCUIT BREAKER	1
TVSS1	2859547	PHOENIX	PHOENIX, VAL-CP-3C-350	1
1FU-3FU, 4FU-6FU	1SC375	MERSEN	1-POLE FUSE BLOCK FOR SOFT STARTERS	6
1FU-3FU, 4FU-6FU	AJT225	MERSEN	225A, CLASS J FUSES	6
SS1-A, SS1-B	PSE170-600-70	ABB	125HP SOFTSTARTER	2
SS1-A, SS1-B	ATK185	ABB	LUG KIT FOR SOFTSTARTER	4
SS1-A, SS1-B	LT185-AL	ABB	TERM.COVER FOR SOFT STARTER	2
HMI-A, HMI-B	PSEEK	ABB	PST ELECTRONIC REMOTE KEYPAD	2
HMI-A, HMI-B	A31DTCOVERKIT	VYNKIER	UV/ NEMA 3R COVER FOR KEYPAD	2
CR1A, CR1B	RH2B-ULAC120V	IDEC	RELAY	2
CR1A, CR1B	SH2B-05	IDEC	RELAY SOCKET	2
7FU,8FU,9FU	US3J3	MERSEN	ULTRASAFE FUSE HOLDER	1
7FU,8FU,9FU	AJT35	MERCEN	35A FUSE, CLASS J	3
SPARE	AJT35	MERCEN	35A FUSE, CLASS J	3
SPARE	AJT225	MERSEN	225A, CLASS J FUSES	3
MMS1-A, MMS1-B	CL7-9-10-120-AS1.6A-A10	SPRECHER & SCHUH	1/2 HP MANUAL MOTOR STARTER FOR LUBE PUMP	2
	CA7-PV-20	SPRECHER & SCHUH	AUX CONTACT	5
MMS2-A, MMS2-B	CL7-16-10-120-AS1.6A-A10	SPRECHER & SCHUH	7.5 HP MANUAL MOTOR STARTER FOR LUBE PUMP	2
MMS3	CA7-72-10-120	SPRECHER & SCHUH	3-POLE CONTACTOR FOR DRYER	1
CB-P	T2H050TW	ABB	CIRCUIT BREAKER, 50A (FOR INCOMING ON CONTROL XFMR)	1
CB-P	KT2100-3	ABB	LUG KIT	2
CB-P	KT2HTC-3	ABB	TERMINAL SHROUD	1
T1	HSSF10AS	HEV-DUTY	HEAVY DUTY 10KVA NEMA 3R TRANSFORMER	1
CB-S	S801U-K100	ABB	CB, 1-POLE 100 AMP (FOR 120 VAC OUTPUT CONTROL XFMR)	1
DB1,DB2	FSPDB3A	MERSEN	310A 1-POLE TOUCHPROOF DISTRIBUTION BLOCK	2
TVSS2,3,4	2839334	PHOENIX	PLUG TRAB FILTER	3
TVSS2,3,4	2839282	PHOENIX	BASE FOR PLUG TRAB FILTER, PLC POWER	3
CB3-CB13	S201U-K15	ABB	MINIATURE CB 1-POLE, TRIP-K, 15A	11
CB14	S201U-K5	ABB	5 AMP CIRCUIT BREAKER FOR CONTROL POWER	1
CB15	S201U-K3	ABB	3 AMP CIRCUIT BREAKER FOR ESD	1
CR3-CR8	A9-30-10-84	ABB	3-POLE CONTACTOR 120V/60HZ	6
SUP	12859-009	PHOENIX	SURGE SUPPRESSOR	15
SS1,SS2	C2SS210B-10	ABB	TWO POSITION SHORT HANDLE, NON ILLUMINATED (1 NO) AUTO MANUAL	2
PL2,PL4,PL5,PL6,PL7,PL8,PL9	CL-513G	ABB	COMPACT PILOT LIGHT GREEN 120 VAC	7
PL1,PL3,PL10	CL-513R	ABB	COMPACT PILOT LIGHT RED 120 VAC	3
CB1, CB2	S201U-K8	ABB	8 AMP CIRCUIT BREAKER FOR CONTROL POWER	2
PB1	MPEP4-10R	ABB	EMERGENCY STOP 40MM PULL RELEASE	1
PB1	MCBH-11	ABB	1-NO, 1-NC WITH HOLDER	1
KS1	M2SSK3-60110	ABB	KEY OPERATED SELECTOR SWITCH - SRTC	1
CR17, CR17A	N40E-84	ABB	RELAY 4-POLE 120VAC (CR 17 AND CR17A FOR ESD)	2
CR17A	CA5-01	ABB	NC AUX. CONTACT	1
TERMINALS	3044102	PHOENIX	UT4 TERMINAL BLOCK	200
TERMINALS	3030271	PHOENIX	10 POINT JUMPER BAR FOR ESD CIRCUIT	7
TERMINALS	3047028	PHOENIX	END STOP	10
TERMINALS	3022276	PHOENIX	END CLAMP	10
TERMINALS	0801733	PHOENIX	DIN 3 PRE-PUNCHED RAIL	2
TERMINALS	1051003	PHOENIX	ZB 6: UNPRINTED TERMINAL MARKING STRIP	40
WIREWAY	QD225X400SG	ABB	2 X 4 WIRE WAY (16FT)	3

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	0	DESIGN FOR APPROVAL	8-6-13	816-234	
	1	AS BUILT	8-9-13	816-234	
				DR. BY ES	2-125HP STARTER PANEL
				DATE 8-6-13	TAG #
				REV 1	A80-70-40436
				SCALE NTS	816-234
				SHT. 5 OF 6	

TERMINAL STRIP
DETAILS



TB5

