

TF3- Loading Chart Western Pulp

Inductive Load Current ratings are based on a power factor $[\cos \emptyset]$ of 0.9

Loading is based on a 480 VAC Supply

Moulder Section

Item no:	Description	Southern Pulp Number	Electrical drawing number	Motor kW	Starting Method	Nameplate FLC
1	Transfer Drive	M1	10M2	7.5	Vector Drive	?
2	Forming Drive	M2	12M2	3	Inverter	?
3	Press Drive	M3	14M2	5.5	Inverter	?
4	Transfer Drive Force Cool Fan	M1A	11M2	0.18	DOL	0.54A
5	Forming Drive Force Cool Fan	M2A	13M2	0.18	DOL	0.54A
6	Press Drive Force Cool Fan	M3A	15M2	0.18	DOL	0.54A
7	Static Conveyor	M10	16M2	0.14	DOL	1.14A
8	Conveyor	M11	17M2	0.14	DOL	1.14A
				Total KW	16.82	
				Total Current @ 480VAC	22.48	

Heating Section- Moulder

Item no:	Description	Southern Pulp Number	Loading	kW	Starting Method		As-Built 03-2011
1	Heater Bank 1	T1	4 x 2.25kW	9	Controlled Heater	<i>Resistive Load</i>	?
2	Heater Bank 2	T2	4 x 12kW	48	Controlled Heater	<i>Resistive Load</i>	9
3	Heater Bank 3	T3	4 x 10.5kW	42	Controlled Heater	<i>Resistive Load</i>	40
4	Heater Bank 4	P1	4 x 12kW	48	Controlled Heater	<i>Resistive Load</i>	35
5	Heater Bank 5	P2	4 x 10.5kW	42	Controlled Heater	<i>Resistive Load</i>	40
			Total KW	189			35
			Total Current @ 480VAC	227.34			159

Wet End

Item no:	Description	Southern Pulp Number	Electrical drawing number	Motor kW	Starting Method	Nameplate FLC
1	Pulper motor	M4	56M2	17.25	Inverter	27.2A
2	Agitator pulp - Storage tank	M5	57M2	2.53	DOL	5A
3	Agitator pre-mix water/pulp chest	M6	58M2	2.53	DOL	5A
4	Agitator feeder storage tank	M7	59M2	1.72	DOL	3.7A
5	Agitator w-water storage	M8	60M2	1.72	DOL	3.7A
6	Pulper Feed Conveyor	M9	61M2	0.37		0.88A
7	Pulper pulp pump	P5	62M2	2.53	DOL	5A
8	Pulper white water pump	P6	63M2	1.26	DOL	2.7A
				Total KW	29.91	
				Total Current @ 480VAC	39.97	

Vacuum section

Item no:	Description	Southern Pulp Number	Electrical drawing number	Motor kW	Starting Method	Nameplate FLC
1	Vacuum Pump	P1	46M2	53	Soft Starter	80.1A
2	Vacuum cooling return pump	P2	47M2	2.53	DOL	4.3A
3	Vacuum seperator pump	P3	48M2	3.45	DOL	6A
4	High pressure spray pump	P4	49M2	4	DOL	?
5	Cooling tower	M9	50M2	1.26	DOL	2.5A
Total KW				64.24		
Total Current @ 480VAC				85.86		

77.5 kW

		CURRENT RATING PER PHASE	
		480VAC Supply	
Inductive Load Total KW	110.97	148.31	
Resistive Load Total KW	189	227.34	
TOTAL CURRENT		375.65	
		amps	376

110.97

159