ESTIMATED ELECTRICAL REQUIREMENTS

ROSS RUSTLER II

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2:29 PM

It is very important to keep your electric utility company coordinated with your power requirements. The equipment listed below should be combined with other site loads such as area lighting, charging equipment, office HVAC, mixers, etc. If you are using an on site generator, we would be happy to coordinate a more detailed analysis of voltage stabilization and locked rotor amps with the company you select to supply the generator. Transformer sizes listed below assume a 96% eff., an impedence of .035 to calculate voltage drop, the largest motor is Code G, and show standard available size 3 phase transformers.

Setup for 460 Volt operation.

CONCRETE BATCH PLANT	HP	FLA	CB	Str	Heater	Wire Size Min	Wire Size Normal
1.5 KVA Transformer		3.26					
Cement 1 Feed A	10.00	12.80	30	#1	B22	12	8
Cement 1 Feed B	10.00	12.80	30	#1	B22	12	8
Cement Batcher	3.00	4.20	15	#0	B6.25	14	12
CEM II WAM 12"X29'	40.00	47.60	90	#3	CC74.6	6	6
Agg Incline Conv.	20.00	24.40	60	#2	B40	8	8
L. P. Blower	5.00	6.80	15	#0	B10.2	14	10
Air Compressor	10.00	12.80	30	#1	B22	12	8
Water Pump	15.00	17.90	45	#2	B32	10	4
Baghouse Blower	15.00	17.90	45	#2	B32	10	4
Transfer Blower	50.00	57.70	100	#3	CC94.0	4	4
Conv #1 30"x49'-0"	20.00	24.40	60	#2	B40	8	8
Turnhead	3.00	4.20	15	#0	B6.25	14	12
If not all motors run concurrently, *Amps not included in total.							
Total Connected	201.00	246.76					
+25% of Largest Mot	50.00	14.43				Actual	
Running Design Load		**261.19**	Running Design			208.09	KVA
+5 x Largest Motor		288.50					
Starting Design Load		549.69	Starting Design			437.95	KVA
225 KVA Transf. Volt Drop	7.10%	Starting, and			3.37%	when running.	
300 KVA Transf. Volt Drop	5.33%	Starting, and			2.53%	when running.	