



 Gachsaran Polymer Industries Company PIDMCO	Gachsaran Polymer Industries Company HDPE Plant Electrical Load List		
			 
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Electrical Load List

Code1	<input type="checkbox"/> No Comment/ Approved (Applicable Only for "FOR REVIEW" and "For Approval" Documents) No comment and the document are released for Manufacturing.
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00	2-Sep-25	IFR	A.M	F.T	A.M
Rev.	DATE	PURPOSE OF ISSUE	PREPARED	CHECKED	APPROVED

ITEM NO.		Tag No.	Description	Voltage (V) (1)	Mechanical (Shaft) Power (kW) (2)	Rated Power (kW) (3)	Duty (C/I/S) (4)	Source Type (N/E/V) (5)	Power Factor (6)	Efficiency (%) (7)	Rated Current (A) (8)	Load Factor (9)	Sync. Speed (rpm) (10)	Absorbed Active Power (kW) (11)	Absorbed Reactive Power (kVAR) (12)	Remark
1	CM-6101A		MOTOR FOR REFRIGERANT COMPRESSOR A	6000	1089	1250	C	N	0.87	95.8	144.0	0.87	3000	1136.7	644.2	
2	CM-6101A-SH		SPACE HEATER FOR MOTOR OF REFRIGERANT COMPRESSOR A	230	-	0.8	S	N	1	100	3.48	1.00	-	0.8	0.0	
3	PM-6111A		OIL PUMP MOTOR A FOR REFRIGERANT COMPRESSOR A	400	9.3	11	C	N	0.85	90.6	20.6	0.85	1500	10.3	6.4	
4	PM-6111B		OIL PUMP MOTOR B FOR REFRIGERANT COMPRESSOR B	400	9.3	11	I	N	0.85	90.6	20.6	0.85	1500	10.3	6.4	
5	EH-6101		OIL HEATER FOR REFRIGERAN PACKAGE	400	-	9	I	N	1	100	12.99	1.00	-	9.0	0.0	
	CM-6101B		MOTOR FOR REFRIGERANT COMPRESSOR B	6000	1089	1250	C	N	0.87	95.8	144.0	0.87	3000	1136.7	644.2	
6	CM-6101B-SH		SPACE HEATER FOR MOTOR OF REFRIGERANT COMPRESSOR B	230	-	0.8	S	N	1	100	3.48	1.00	-	0.8	0.0	
7	UCP-6101		NON-UPS POWER SUPPLY FOR UCP	230	-	0.6	C	E	0.95	100	2.75	1.00	-	0.6	0.2	
8	UCP-6101		UPS POWER SUPPLY 1 FOR UCP	110	-	1	C	V	0.95	100	9.57	1.00	-	1.0	0.3	
9	UCP-6101		UPS POWER SUPPLY 2 FOR UCP	110	-	1	S	V	0.95	100	9.57	1.00	-	1.0	0.3	

DEFINITIONS & NOTES:

(4): C: CONTINUOUS I: INTERMITTENT S: STANDBY

(5): N: NORMAL E: EMERGENCY (FROM DIESEL GENERATOR) V: VITAL (FROM UPS)

LOAD FACTOR (9) = (2) / (3)

ABSORBED ACTIVE POWER KW (11) = (2) / (7)

ABSORBED REACTIVE POWER KVAR (12) = (11) * TAN (ACOS (6))