STYRENE PARK OFFSITE

Document Title:

Electrical Load List

R1	1-Sep-24	IFA	Y.GHEREKHLOU	J.BEIGLOU	A.GHOLIZADEH
R0	19-Aug-24	IFA	Y.GHEREKHLOU	J.BEIGLOU	A.GHOLIZADEH
Rev.	**Issued Date**	**DESCRIPTION**	**PREPARED**	**CHECKED**	**APPROVED**

Page	Revisions						
	R0	R1	R2	R3	R4	R5	R6
1	X	X					
2	X	X					
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Page	Revisions						
	R0	R1	R2	R3	R4	R5	R6
41							
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ITEM	REV.	TAG NO.	Description	Load User	Load Statude	Operating Type	Voltage Type	Voltage (V)	Frequency (Hz)	Mechanical Absorbed Power (KW)	Rotor Shaft Power @Min Temp	API 661 Factor (part: 7.2.7.1.2	Absorbed Power (KW) (note 1)	EFF.	P.F.	Operating Power(Kw	Rated Power	rated Current	Density Factor	Starting Method
1	0	RU0001A-M-03	Air cooler MOTOR LOAD LV-400V	M	C	N	3 PH	400±5%	50±2%	4.5	5.3	1.05	4.97	0.9	0.84	6.9	7.5	14.4	1	VFD
2	0	RU0001A-M-02	Air cooler MOTOR LOAD LV-400V	M	C	N	3 PH	400±5%	50±2%	4.5	5.3	1.05	4.97	0.9	0.84	6.9	7.5	14.4	1	DOL
3	0	RU0001B-M-03	Air cooler MOTOR LOAD LV-400V	M	C	N	3 PH	400±5%	50±2%	4.5	5.3	1.05	4.97	0.9	0.84	6.9	7.5	14.4	1	VFD
4	0	RU0001B-M-02	Air cooler MOTOR LOAD LV-400V	M	C	N	3 PH	400±5%	50±2%	4.5	5.3	1.05	4.97	0.9	0.84	6.9	7.5	14.4	1	DOL

Abbreviation:

C: Countinus Operation
CS: Countinus Standby
IO: Intermitant Operation
SD: Shutdown operation
SU: Start Up operation
N: Normal Load
E:Emergency Load
DOL: Direct on Line Staring
VFD: Variable Frequency Drive
M:Machinery Type

NOTES:

1.Absorbed power =(Mehanical Absorbed Power *API factor)/Mechanical Efficiency of the Power Transmissions
2.Mechanical Efficiency of the Power Transmissions for V-BELT (Em)=0.95