



IEC PERFORMANCE DATA SHEET
IEC Efficiency Level IE3

Catalog #:

IJA160M-6-59

HP	kW	Voltage	L.R. Amps	EFF.	P.F.	SF	Frame	Design
10.00	7.46	575 / 990	81.48	91.0%	0.79	1.15	160M	N

60 Hz								
FLA							Is/In	F.L. RPM
208	230	333	460	575	796	990		
/	/	/	/	10.50	/	6.08	7.76	1160

50 Hz								
FLA						Efficiency	Is/In	F.L. RPM
190	380	400	415	660	725			
/	/	/	/	/	/	/	/	/

Wgt. Lbs	PH	Duty	Insul. Class	Ambient Temp.	Elevation	Temp. Rise° C
184.8	3	S1	H	40°C	1000 M	46.5

% Efficiency		% Power Factor		Torque			Protector Type	Winding Resist. Ω
					60Hz	50Hz		
Full Load:	91.0%	Full Load:	0.79	FLT ft.lbs	45.28	/	PTC-150°C	1.34317
3/4 Load:	90.5%	3/4 Load:	0.73	LRT %	220	/		
1/2 Load:	89.4%	1/2 Load:	0.62	BDT %	247	/		

Rotor Inertia Wk2 Lb-Ft2	Max Load Inertia Wk2 Lb-Ft2	Shaft Material	Frame Material	DE Bracket Type	ODE Bracket Type	Mounting	Enclosure	Protection
-	-	Standard	Aluminum	Standard	Standard	B3	TEFC	IP55

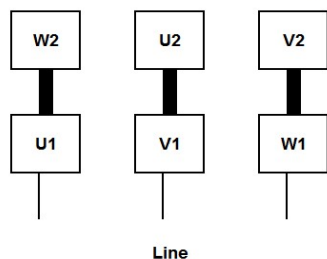
Ball Bearings		Grease	Mount Type	Orientation	Cold Start (Secs)	Paint
DE	ODE					
6309-C3	6309-C3	Mobil PolyRexEM	Rigid	Horizontal	15	RAL3003 Mat

Inverter Duty. Motor meets MG1 parts 31.4.4.2	Constant Torque Range	Variable Torque Range
	10:1	20:1

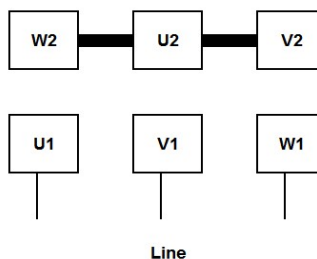
WIRING CONNECTION DIAGRAM : D

IEC Frames 112M - 355L, Dual Voltage
575 / 990 VAC, 6 posts, 6 leads, Δ / Y Connection

Low Voltage (575Vac)
6 Leads Δ 6 posts



High Voltage (990Vac)
6 Leads Y 6 posts

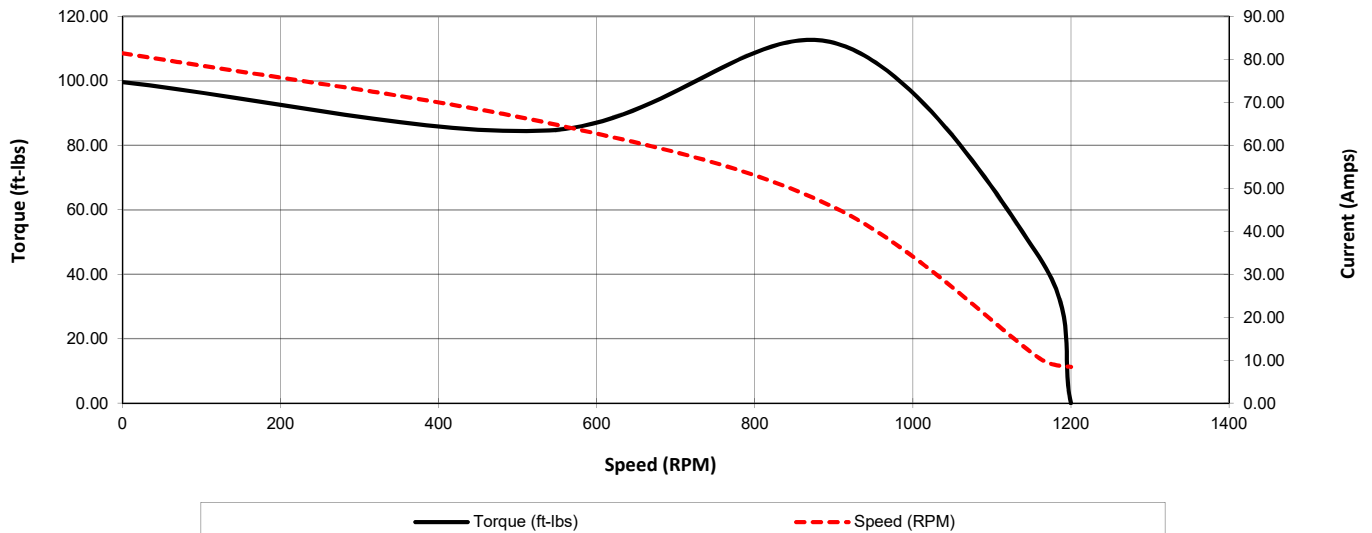


Date: **2 février, 2021**
 Customer: _____
 Contact: _____
 Submittee: **J.C. Lavallée**

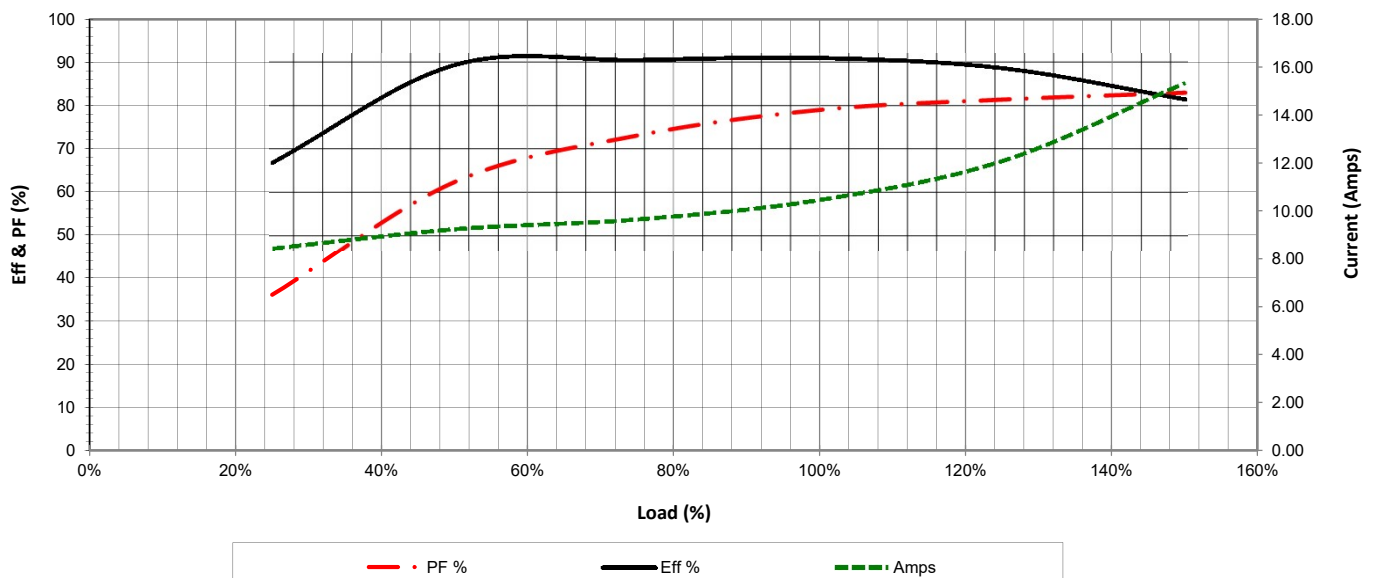
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HP	Kw	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Is/In	Insulation Class	Temp. Rise °C
10.00	7.46	575 / 990	1160	TEFC	160M	60	N	6	7.76	H	46.5
Load %		0%	25%	50%	75%	100%	125%	150%			
Amps		8.48	8.48	9.29	9.69	10.50	12.12	15.35			
Torq ft/lbs		0	11.03	22.25	33.67	45.28	59.01	75.80			
RPM		0	1190	1180	1170	1160	1112	1039			
Eff %		0	66.9	89.4	90.5	91.0	88.6	81.4			
PF %		0	36.1	62.4	73.1	79.0	81.4	83.0			
		Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M
Speed (RPM)		0	540	900	1160	1200	S1	1.15	40°C	3,300 ft	-
Current (Amps)		81.48	65.18	45.63	10.50	8.48	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)		99.61	84.67	111.83	45.28	0.0	C.T.	10:1	V.T.	20:1	

Motor Speed Data



Motor Load Data



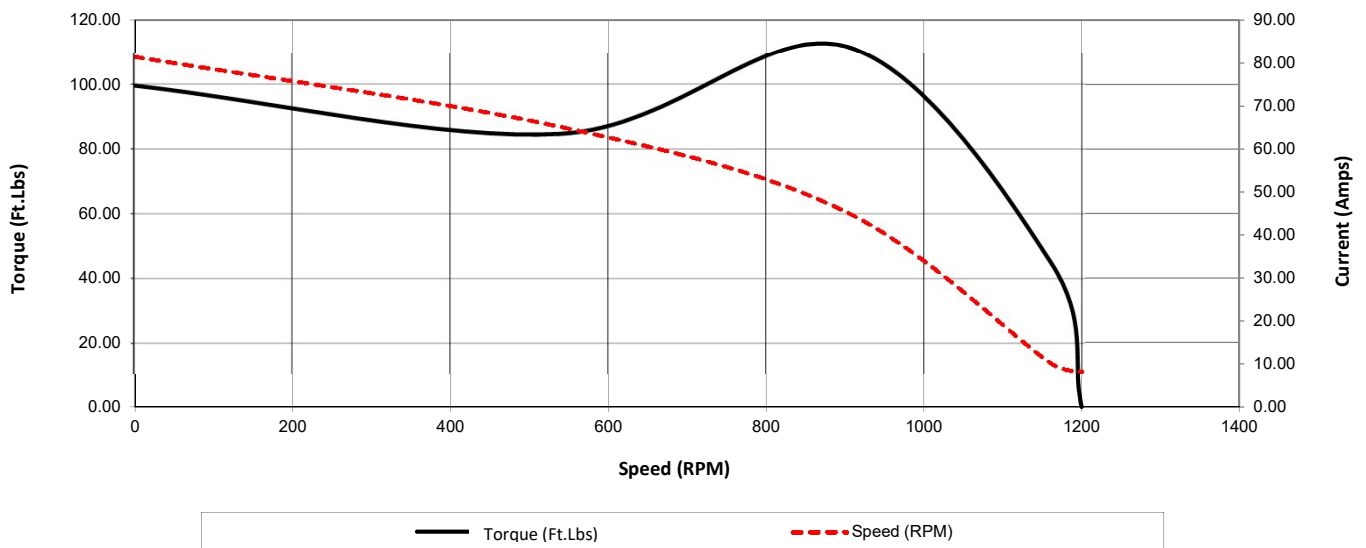


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10.00	7.46	575 / 990	1160	TEFC	160M	60	N	6	7.76	H	46.5
	0Hz	6Hz	15Hz	30Hz	45Hz	60Hz	75Hz	90Hz	105Hz	120Hz	
Amps	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50	10.50
RPM	0	116	290	580	870	1160	1450	1740	2030	2320	
Torq ft.lb	36.22	45.28	45.28	45.28	45.28	45.28	36.22	30.18	25.87	22.64	
Peak Tq ft.lb	50.60	101.19	101.19	101.19	101.19	101.19	80.95	67.46	57.82	10.50	
HP	0.00	1.00	2.50	5.00	7.50	10.00	10.00	10.00	10.00	10.00	
	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M	
Speed (RPM)	0	540	900	1160	1200	S1	1.15	40°C	3,300 ft	-	
Current (Amps)	81.48	65.18	45.63	10.50	8.48	VFD Rating: Meets MG1 parts 31.4.4.2					
Torque (N.m)	99.61	84.67	111.83	45.28	0.0	C.T.	10:1	V.T.	20:1		

Motor Speed Data



Motor Torque Capability vs RPM

