

MaxMotion

IEC PERFORMANCE DATA SHEET IEC Efficiency Level IE3

Catalog #: **IJA160L-4-59**

HP	kW	Voltage	L.R. Amps	Efficiency	Power Factor	Service Factor	Frame	Design
20,00	14,92	575 / 990	139,12	93,0%	0,86	1,15	160L	N

60 Hz								
FLA							Is/In	F.L. RPM
208	230	333	460	575	796	990		
/	/	/	/	18,80	/	10,90	7,4	1755

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
237,6	3	S1	H	40°C	1000 M	75,5

% Efficiency		% Power Factor		Torque			Protector Type	Winding Resist. Ω
Full Load:	93,0%	Full Load:	0,86	FLT ft.lbs	60Hz	50Hz		
3/4 Load:	92,5%	3/4 Load:	0,80	LRT %	220	/	PTC-150°C	-
1/2 Load:	91,3%	1/2 Load:	0,68	BDT %	230	/		

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	Red

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



Line

High Voltage (990Vac)
6 Leads Y 6 posts



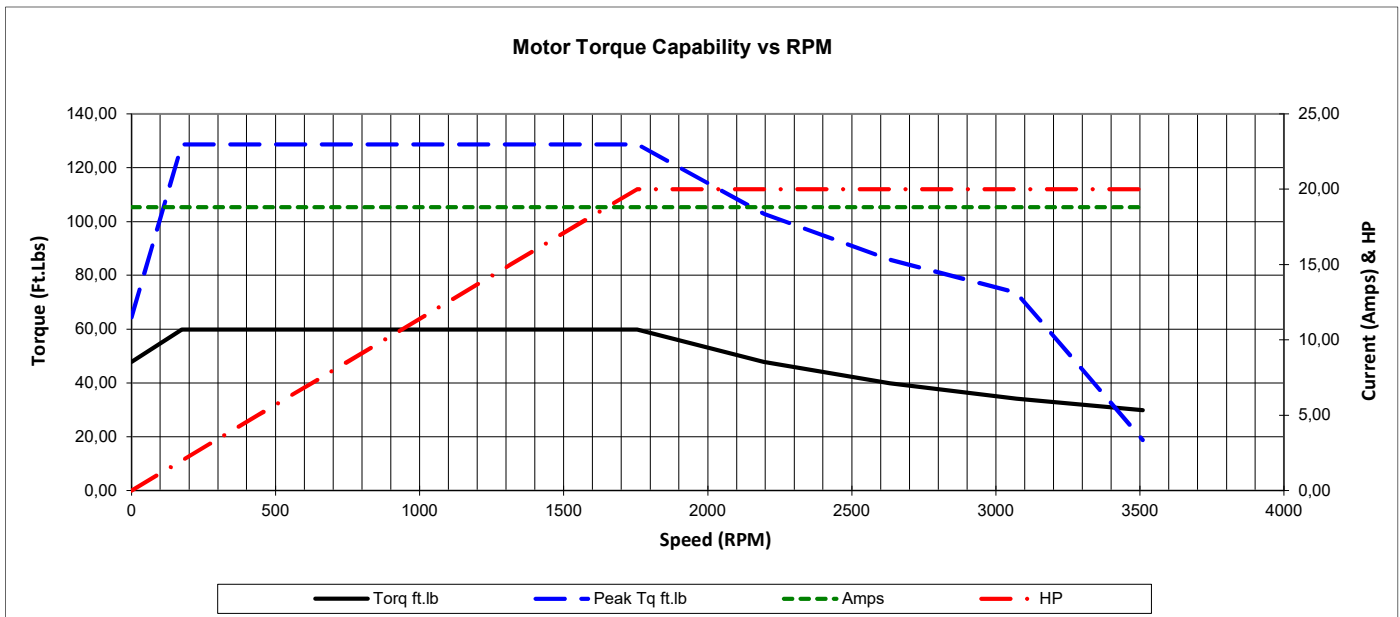
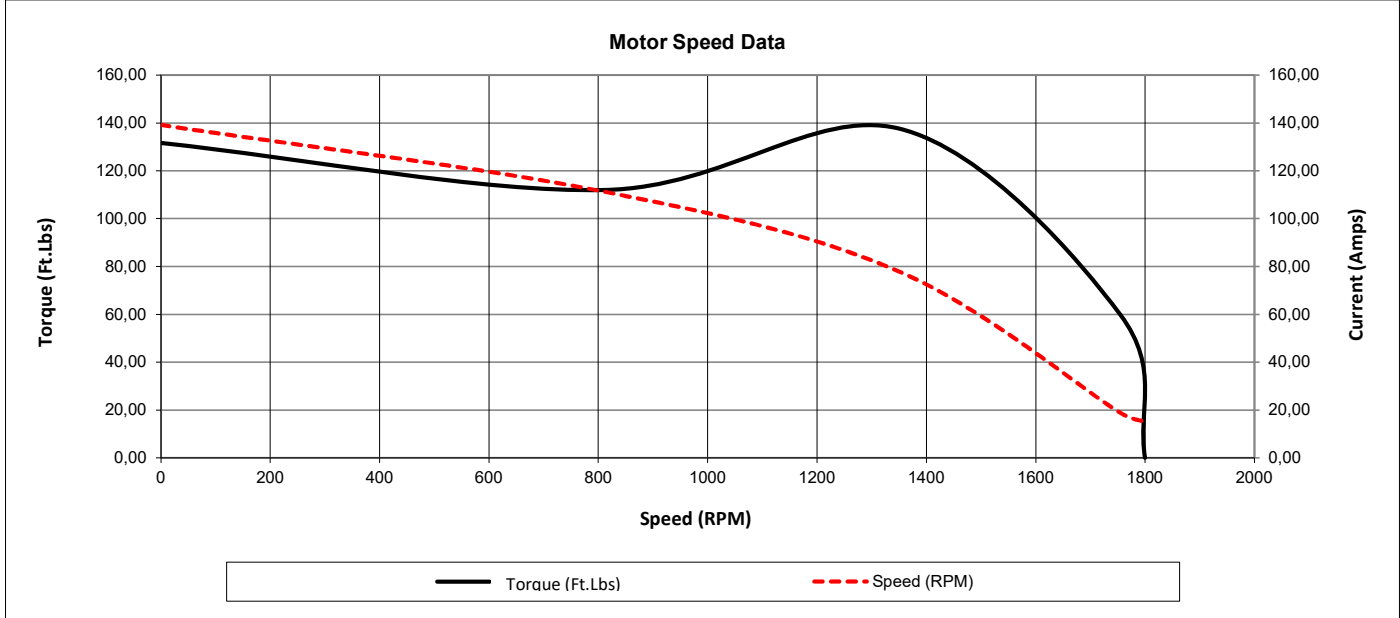
Line



Date: 25 janvier, 2024
 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
20,00	14,92	575 / 990	1755	TEFC	160L	60	N	4	7,4	H	75,5
	0Hz	6Hz	15Hz	30Hz	45Hz	60Hz	75Hz	90Hz	105Hz	120Hz	
Amps	18,80	18,80	18,80	18,80	18,80	18,80	18,80	18,80	18,80	18,80	18,80
RPM	0	176	439	878	1316	1755	2194	2633	3071	3510	
Torq ft.lb	47,88	59,85	59,85	59,85	59,85	59,85	47,88	39,90	34,20	29,93	
Peak Tq ft.lb	64,34	128,68	128,68	128,68	128,68	128,68	102,95	85,79	73,53	18,80	
HP	0,00	2,00	5,00	10,00	15,00	20,00	20,00	20,00	20,00	20,00	
	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M	
Speed (RPM)	0	810	1350	1755	1800	S1	1,15	40°C	3,300 ft	-	
Current (Amps)	139,12	111,30	77,91	18,80	15,18	VFD Rating: Meets MG1 parts 31.4.4.2					
Torque (ft-lbs)	131,67	111,92	137,66	59,85	0,0	CT :	10:1	VT :	20:1		



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Load %	0%	25%	50%	75%	100%	125%	150%
Amps	15,18	15,18	16,63	17,35	18,80	21,69	27,48
Torq ft/lbs	0	14,68	29,55	44,60	59,85	78,01	100,20
RPM	0	1789	1778	1766	1755	1683	1572
Eff %	0	68,3	91,3	92,5	93,0	90,6	83,2
PF %	0	39,3	67,9	79,6	86,0	88,6	90,3

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