

MaxMotion

IEC PERFORMANCE DATA SHEET IEC Efficiency Level IE3

Catalog #: **IJA2112M-4-59**

HP	kW	Voltage	L.R. Amps	Efficiency	Power Factor	Service Factor	Frame	Design
5,50	4,10	575 / 990	42,43	89,5%	0,82	1,15	112M	N

60 Hz								
FLA							Is/In	F.L. RPM
208	230	333	460	575	796	990		
/	/	9,39	/	5,44	/	3,18	7,8	1725

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
82,5	3	S1	H	40°C	1000 M	35

% Efficiency		% Power Factor		Torque			Protector Type	Winding Resist. Ω
Full Load:	89,5%	Full Load:	0,82	FLT ft.lbs	60Hz	50Hz		
3/4 Load:	88,6%	3/4 Load:	0,69	LRT %	230	/	-	-
1/2 Load:	86,8%	1/2 Load:	0,53	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					
6306ZZ-C3	6306ZZ-C3	Sealed Bearings	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

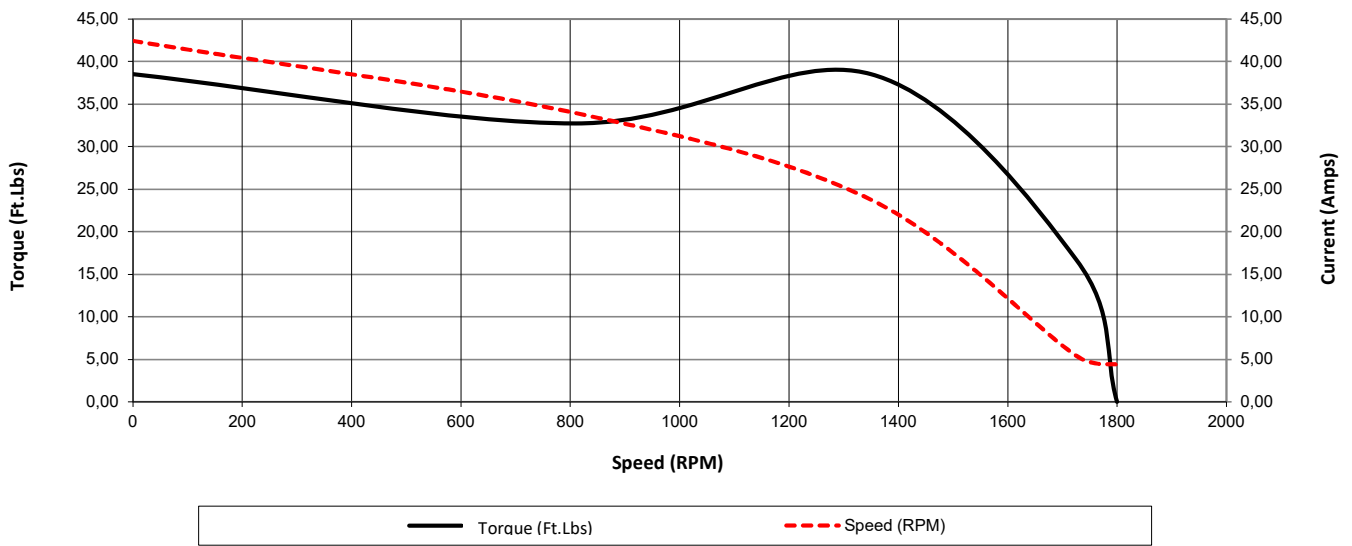


Date: 25 janvier, 2024
 Customer: _____
 Contact: _____
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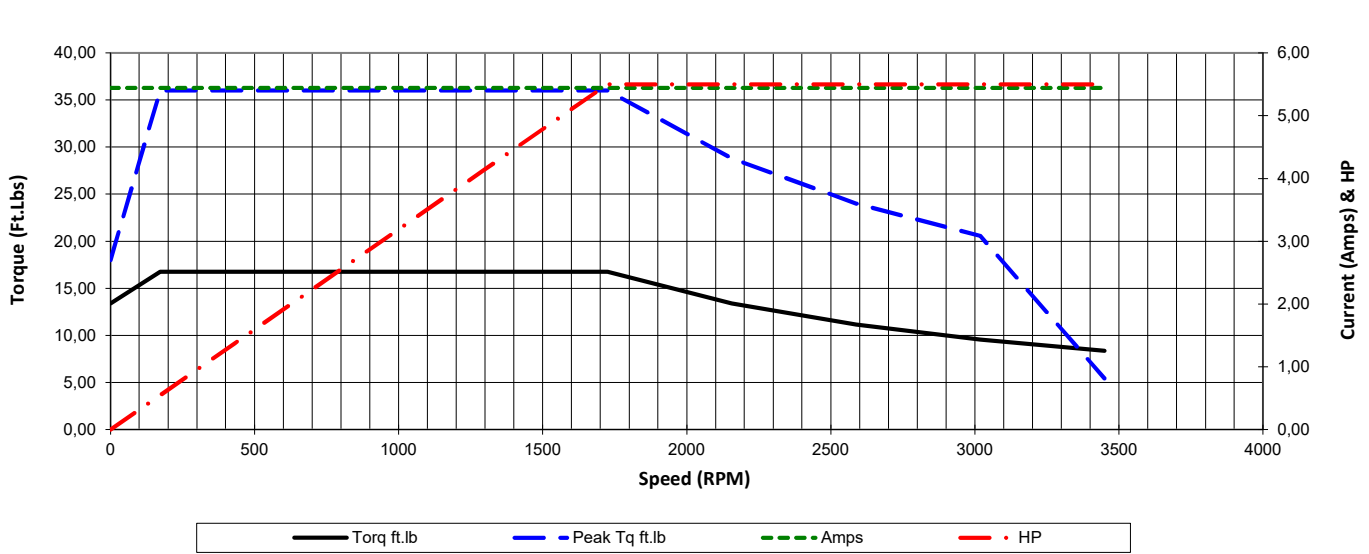
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HP	Kw	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Is/In	Insulation Class	Temp. Rise °C
5,50	4,10	575 / 990	1725	TEFC	112M	60	N	4	7,8	H	35
	0Hz	6Hz	15Hz	30Hz	45Hz	60Hz	75Hz	90Hz	105Hz	120Hz	
Amps	5,44	5,44	5,44	5,44	5,44	5,44	5,44	5,44	5,44	5,44	5,44
RPM	0	173	431	863	1294	1725	2156	2588	3019	3450	
Torq ft.lb	13,40	16,75	16,75	16,75	16,75	16,75	13,40	11,16	9,57	8,37	
Peak Tq ft.lb	18,00	36,00	36,00	36,00	36,00	36,00	28,80	24,00	20,57	5,44	
HP	0,00	0,55	1,38	2,75	4,13	5,50	5,50	5,50	5,50	5,50	
	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M	
Speed (RPM)	0	810	1350	1725	1800	S1	1,15	40°C	3,300 ft	-	
Current (Amps)	42,43	33,95	23,76	5,44	4,39	VFD Rating: Meets MG1 parts 31.4.4.2					
Torque (ft.lbs)	38,51	32,74	38,51	16,75	0,0	CT :	10:1	VT :	20:1		

Motor Speed Data



Motor Torque Capability vs RPM



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5,50	4,10	575 / 990	1725	TEFC	112M	60	N	4	7,8	H	35

Load %	0%	25%	50%	75%	100%	125%	150%
Amps	4,39	4,39	4,81	5,02	5,44	6,28	7,95
Torq ft/lbs	0	4,05	8,19	12,42	16,75	21,83	28,03
RPM	0	1781	1763	1744	1725	1654	1546
Eff %	0	64,9	86,8	88,6	89,5	87,2	80,1
PF %	0	37,5	53,1	69,3	82,0	84,5	86,1

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