



PERFORMANCE DATA SHEET NEMA PREMIUM NR CAN NEMA 12 - 12

Catalogue #: JMQPS-42

HP	kW	Voltage	S.F. @ 60Hz	EFF.	P.F.	Frame	Design	L.R. Amps
20	14,92	230/460	1,15	93,0%	0,822	256JM	B	145

60 Hz								
FLA							Code	F.L. RPM
208	230	416	460	480	575	600		
/	49	/	24,5	/	/	/	G	1765

50 Hz								
FLA			S.F. @ 50Hz		Efficiency	Power Factor	Code	F.L. RPM
190	380	415						
58,0	29	/	1,00		91,0%	0,86	G	1465

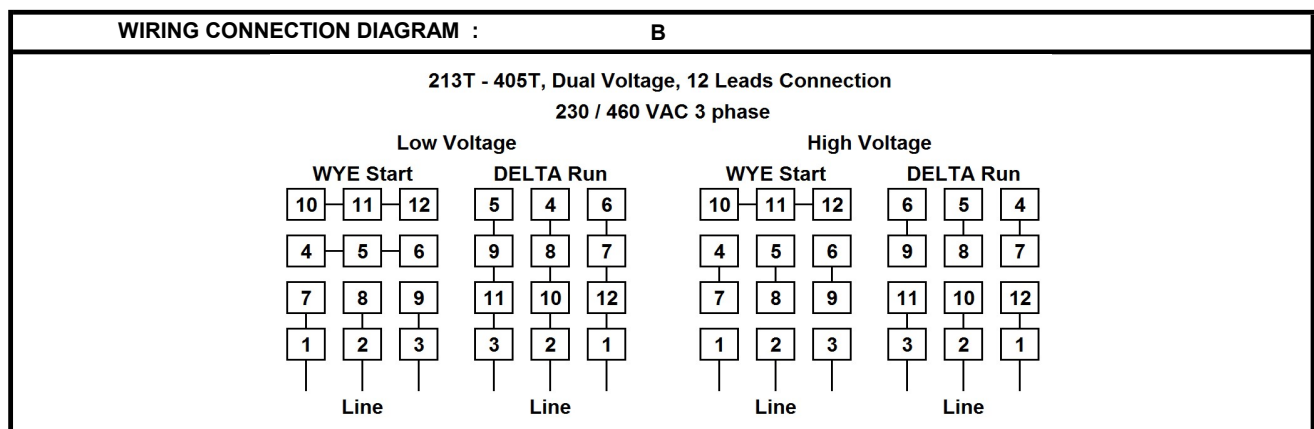
Wgt. Lbs	PH	Duty	Insul. Class	Amb.	Elevation	Temp. Rise° C
352	3	Cont.	F	40°C	1000M (3300 Ft)	52

% Efficiency		% Power Factor		Torque			
Full Load:	93,0%	Full Load:	0,82	Full Load Ft/Lbs	59,5	Winding Resist. Ω	Safe Cold Start (Secs)
3/4 Load:	93,2%	3/4 Load:	0,78	Locked Rotor %	200		
1/2 Load:	92,9%	1/2 Load:	0,68	Break Down %	220	0,42	12

Rotor Inertia Wk2 Lb-Ft2	Max Load Inertia Wk2 Lb-Ft2	Shaft Material	Frame Material	DE Bracket Type	ODE Bracket Type	Enclosure	NEMA Rating	Lead Wire Size
2,37	142	304SS	Stainless Steel			TEFC	IP69K	12AWG

Ball Bearings		Grease	Mount Type	Orientation	Paint	Sound Pressure @ 3FT	Sound Power
DE	ODE						
6309	6309	Sealed Bearings	Foot	Horizontal	-	74	84

Inverter Duty. Motor meets MG1 parts 31.4.4.2	Constant Torque Range	Variable Torque Range	Constant HP RPM
	10:1	20:1	2700

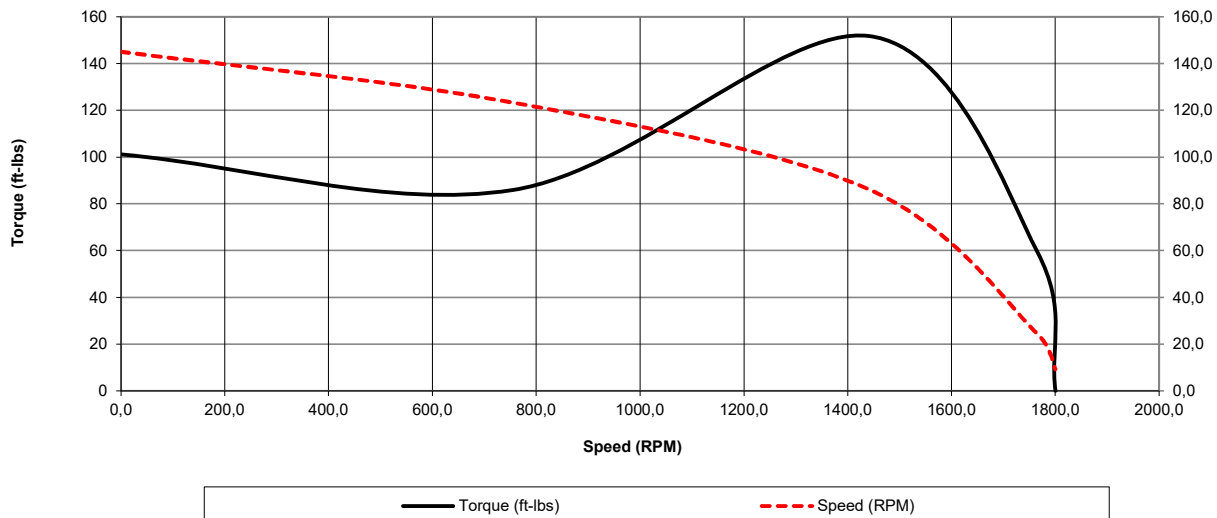


Date: 2025-05-22
 Customer:
 Contact:
 Submittee: J.C. Lavallée

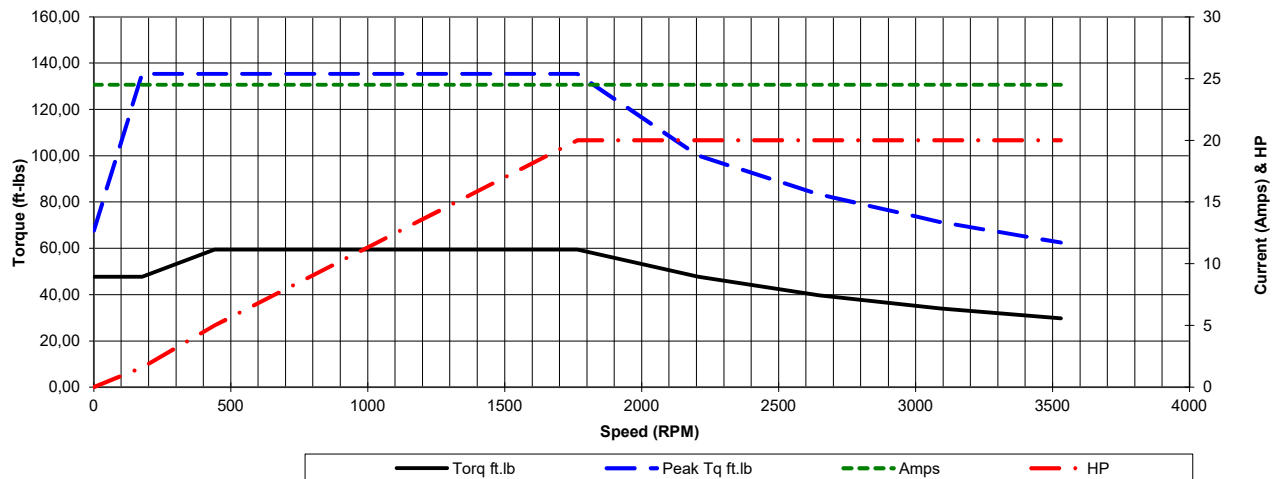
Catalogue #: JMQPS-42

NEMA PREMIUM NR CAN NEMA 12 - 12										
HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
20	460	1765	TEFC	256JM	60	B	4	G	F	52
	0Hz	6Hz	15Hz	30Hz	45Hz	60Hz	75Hz	90Hz	105Hz	120Hz
Amps	24,5	24,5	24,5	24,5	24,5	24,5	24,5	24,5	24,5	24,5
RPM	0	176,5	441,25	882,5	1323,75	1765	2206,25	2647,5	3088,75	3530
Torq ft.lb	47,61	47,61	59,51	59,51	59,51	59,51	47,61	39,68	34,01	29,76
Peak Tq ft.lb	67,70	135,39	135,39	135,39	135,39	135,39	99,98	83,32	71,42	62,49
HP	0	1,6	5,0	10,0	15,0	20,0	20,0	20,0	20,0	20,0
	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M
Speed (RPM)	0,0	756	1440	1765	1800	Continuous	1,15	40°C	3,300 ft	74
Current (Amps)	145,0	123,3	86,3	24,5	9,3	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	101,2	86,0	151,8	59,5	0,0	C.T.	10:1	V.T.	20:1	

Motor Speed Data



Motor Torque Capability vs RPM



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Catalogue #: JMQPS-16S

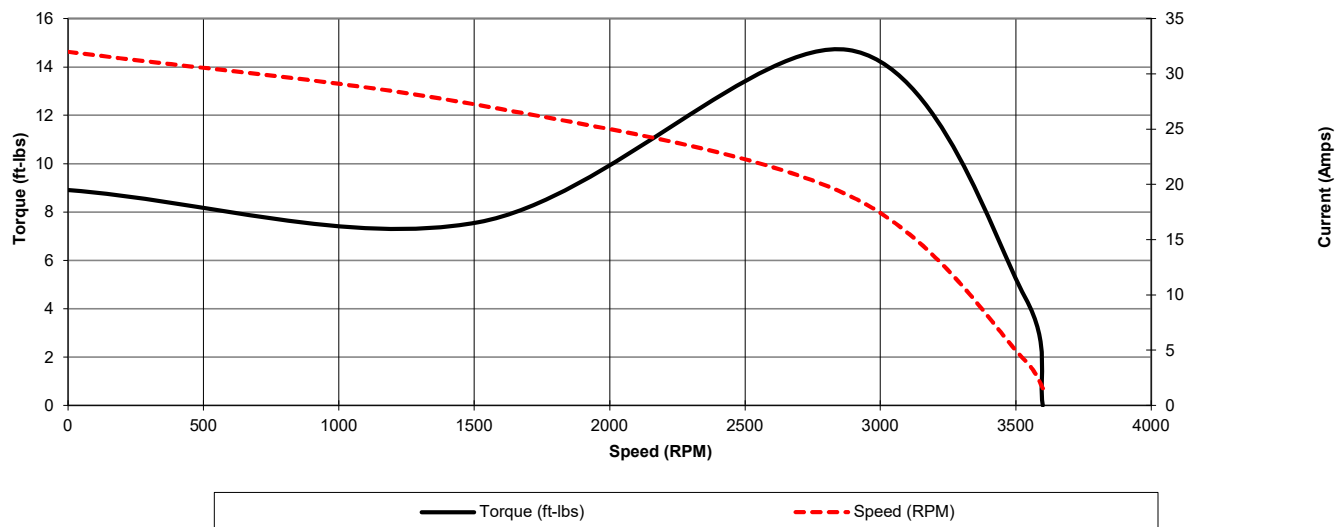
NEMA PREMIUM NR CAN NEMA 12 - 12

HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
3	460	3535	TEFC	145JM	60	B	2	K	F	32

Load %	0%	25%	50%	75%	100%	125%	150%
Amps	1,54	1,73	2,40	3,16	4,05	4,96	5,93
Torq ft/lbs	0	1,10	2,21	3,33	4,46	5,60	6,75
RPM	0	3583,75	3567,5	3551,25	3535	3518,75	3502,5
Eff	0	70,73	84,20	87,10	86,50	86,50	86,50
PF	0	52,1	67,1	78,5	80,2	81,8	82,2

	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M
Speed (RPM)	0	1512	2880	3535	3600	Continuous	1,15	40°C	3,300 ft	78
Current (Amps)	32	27,2	19,0	4,05	1,539	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	8,91	7,58	14,71	4,46	0,0	C.T.	10:1	V.T.	20:1	

Motor Speed Data



Motor Load Data

