

## PERFORMANCE DATA SHEET EPACT NR CAN NEMA 12 - 11

Catalogue #: **MQC-81W**

HP	KW	Voltage	S.F. @ 60Hz	EFF.	P.F.	Frame	Design	L.R. Amps
125	93,25	460	1,15	94,5%	0,91	444TS	C	907

60 Hz								
FLA							Code	F.L. RPM
208	230	416	460	480	575	600		
/	/	149	135,00	129,5	/	/		

50 Hz								
FLA			S.F. @ 50Hz	Efficiency	Power Factor	Code	F.L. RPM	
190	380	415						1,00
/	167	152,9						

Wgt. Lbs	PH	Duty	Insul. Class	Amb.	Elevation	Temp. Rise° C
1247	3	Cont.	F	40°C	1000M (3300 Ft)	< 80

% Efficiency		% Power Factor		Torque		Winding Resist. Ω	Safe Cold Start (Secs)
Full Load:	94,5%	Full Load:	0,91	Full Load Ft/Lbs	183,8		
3/4 Load:	94,0%	3/4 Load:	0,93	Locked Rotor %	210		
1/2 Load:	93,2%	1/2 Load:	0,90	Break Down %	280		

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
16,14	135,6	Standard	Cast Iron	Standard	Standard	TEFC	IP55	5AWG

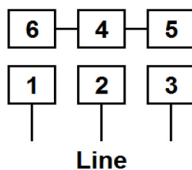
Ball Bearings		Grease	Mount Type	Orientation	Paint	Sound Pressure @ 3FT	Sound Power
DE	ODE						
6314	6314	Mobil PolyrexEm	Rigid	Horizontal	Blue	92	104

Inverter Duty. Motor meets MG1 parts 31.4.4.2	Constant Torque Range	Variable Torque Range	Constant HP RPM
	10:1	20:1	5400

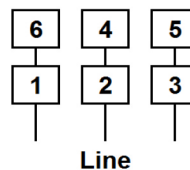
### WIRING CONNECTION DIAGRAM : C

444T - 449T, Single Voltage, 6 Leads Connection  
460 VAC 3 phase

WYE Start



DELTA Run

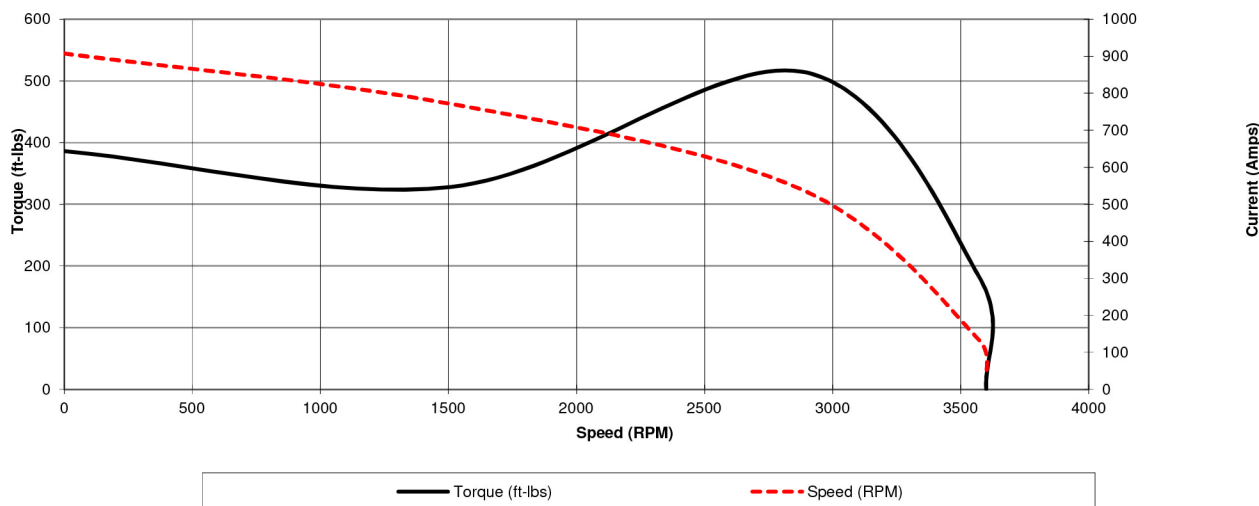


Date: 2018-07-06  
 Customer: \_\_\_\_\_  
 Contact: \_\_\_\_\_  
 Submittee: J.C. Lavallée

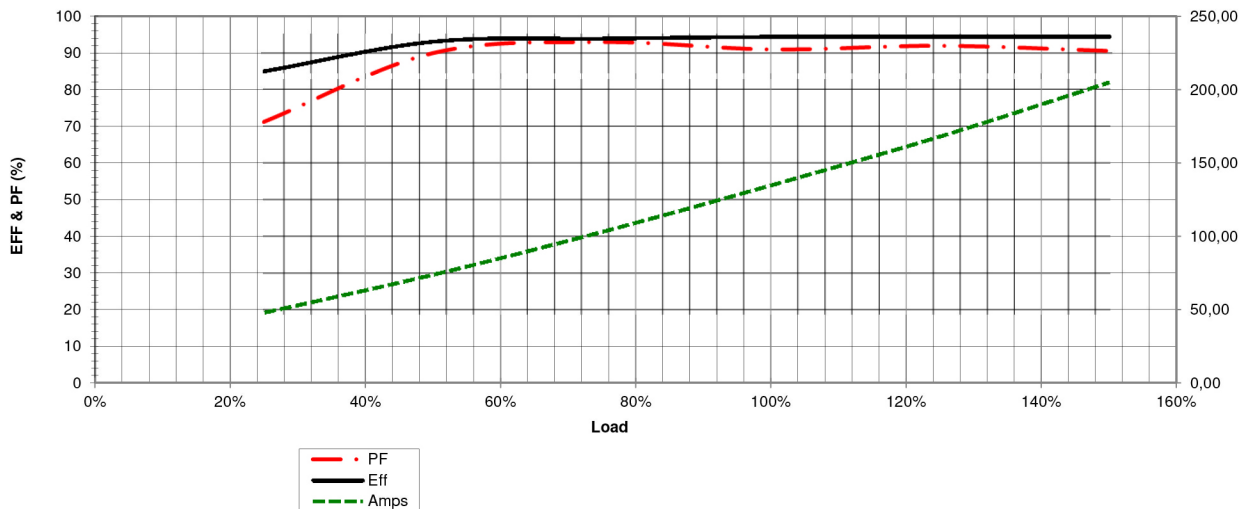
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EPACT NR CAN NEMA 12 - 11										
HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
125	460	3570	TEFC	444TS	60	C	2	G	F	< 80
Load %	0%	25%	50%	75%	100%	125%	150%			
Amps	33,89	48,26	74,12	103,28	135,00	168,28	205,05			
Torq ft/lbs	0	45,69	91,56	137,63	183,89	230,35	277,00			
RPM	0	3592,5	3585	3577,5	3570	3562,5	3555			
Eff	0	85,15	93,20	94,00	94,50	94,50	94,50			
PF	0	71,2	90	93	91	92	90,6			
	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBa @ 1M
Speed (RPM)	0	1512	2880	3570	3600	Continuous	1,15	40°C	3,300 ft	92
Current (Amps)	907	771,0	539,7	135	33,885	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	386,18	328,25	514,90	183,89	0,0	C.T.	10:1	V.T.	20:1	

Motor Speed Data



Motor Load Data



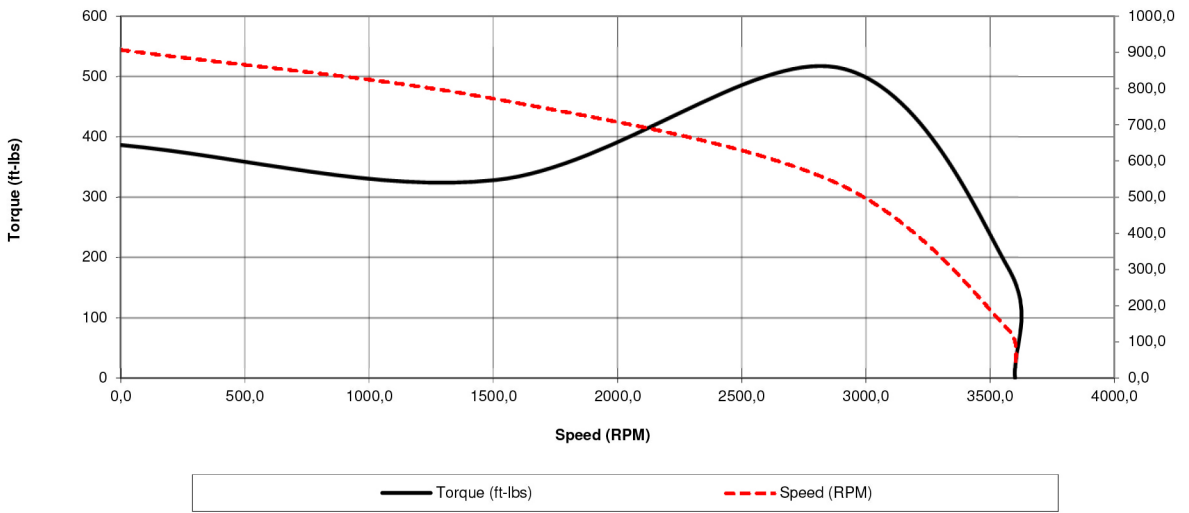
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HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
125	460	3570	TEFC	444TS	60	C	2	G	F	< 80
	0Hz	6Hz	15Hz	30Hz	45Hz	60Hz	75Hz	90Hz	105Hz	120Hz
Amps	135	135	135	135	135	135	135	135	135	135
RPM	0	357	892,5	1785	2677,5	3570	4462,5	5355	6247,5	7140
Torq ft.lb	147,11	147,11	183,89	183,89	183,89	183,89	147,11	122,60	105,08	91,95
Peak Tq ft.lb	220,67	441,34	441,34	441,34	441,34	441,34	353,08	294,23	252,20	220,67
HP	0	10,0	31,3	62,5	93,8	125,0	125,0	125,0	125,0	125,0
	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBA @ 1M
Speed (RPM)	0,0	1512	2880	3570	3600	Continuous	1,15	40°C	3,300 ft	92
Current (Amps)	907,0	771,0	539,7	135,0	33,9	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	386,2	328,3	514,9	183,9	0,0	C.T.	10:1	V.T.	20:1	

### Motor Speed Data



### Motor Torque Capability vs RPM

