

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

Catalogue #: **MQC-83W**

HP	KW	Voltage	S.F. @ 60Hz	EFF.	P.F.	Frame	Design	L.R. Amps
125	93,25	460	1,15	94,1%	0,87	445T	C	907

60 Hz								
FLA							Code	F.L. RPM
208	230	416	460	480	575	600		
/	/	156	141,00	135	/	/		

50 Hz								
FLA			S.F. @ 50Hz	Efficiency	Power Factor	Code	F.L. RPM	
190	380	415						1,00
/	174	159,3						

Wgt. Lbs	PH	Duty	Insul. Class	Amb.	Elevation	Temp. Rise° C
1443	3	Cont.	F	40°C	1000M (3300 Ft)	< 80

% Efficiency		% Power Factor		Torque		Winding Resist. Ω	Safe Cold Start (Secs)
Full Load:	94,1%	Full Load:	0,87	Full Load Ft/Lbs	556,5		
3/4 Load:	94,1%	3/4 Load:	0,88	Locked Rotor %	200		
1/2 Load:	93,5%	1/2 Load:	0,83	Break Down %	220		

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
90,18	1742,4	Standard	Cast Iron	Standard	Standard	TEFC	IP55	5AWG

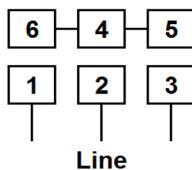
Ball Bearings		Grease	Mount Type	Orientation	Paint	Sound Pressure @ 3FT	Sound Power
DE	ODE						
NU319	6318	Mobil PolyrexEm	Rigid	Horizontal	Blue	82	94

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

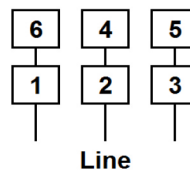
### WIRING CONNECTION DIAGRAM : C

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

WYE Start



DELTA Run

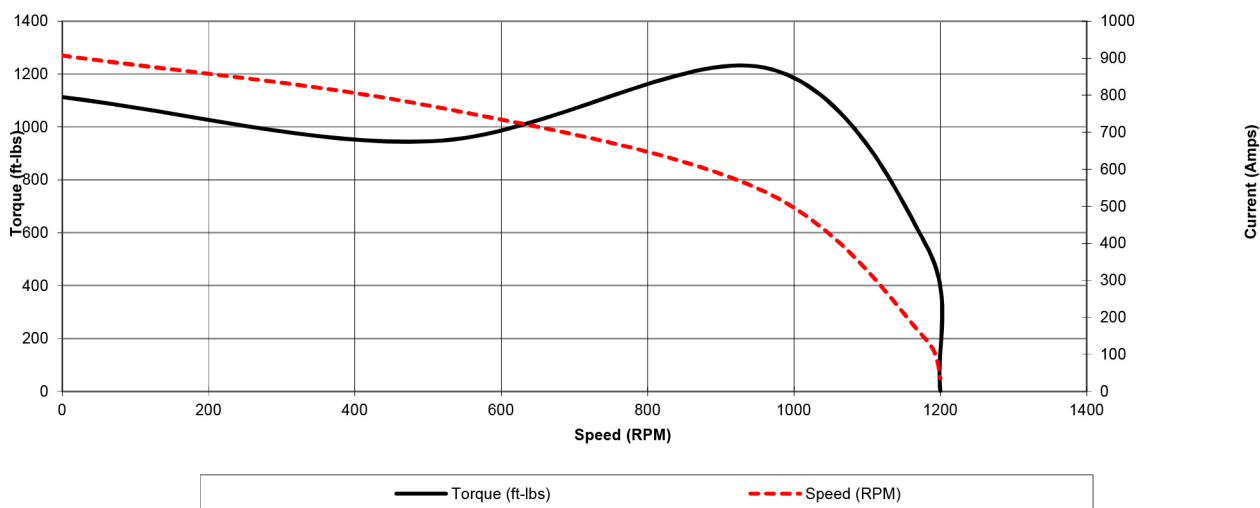


Date: 10/07/2018  
 Customer: \_\_\_\_\_  
 Contact: \_\_\_\_\_  
 Submittee: J.C. Lavallée

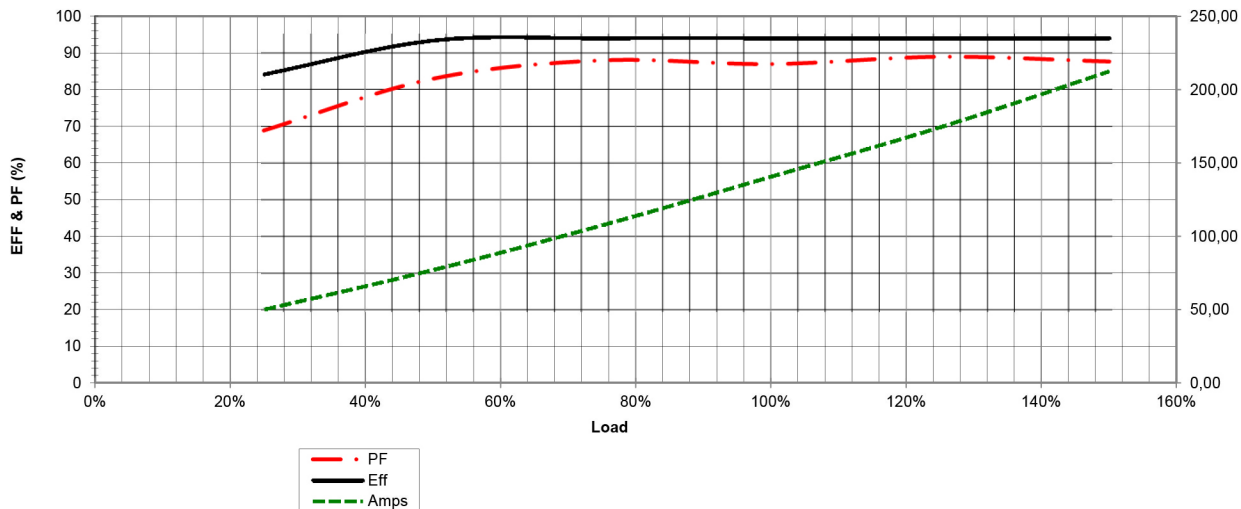
Catalogue #: MQC-83W

EPACT NR CAN NEMA 12 - 11										
HP	VAC	RPM	Enclosure	Frame	Frequency	Design	Poles	LR Code Letter	Insulation Class	Temp. Rise °C
125	460	1180	TEFC	445T	60	C	6	G	F	< 80
Load %	0%	25%	50%	75%	100%	125%	150%			
Amps	35,39	50,41	77,41	107,87	141,00	174,69	212,73			
Torq ft/lbs	0	137,34	275,84	415,51	556,36	698,40	841,67			
RPM	0	1195	1190	1185	1180	1175	1170			
Eff	0	84,25	93,50	94,10	94,10	94,10	94,10			
PF	0	68,9	83	88	87	89	87,7			
	Locked Rotor	Pull-Up	Breakdown	Rated Load	Idle	Duty	S. F.	Ambient	Elevation	dBa @ 1M
Speed (RPM)	0	504	960	1180	1200	Continuous	1,15	40°C	3,300 ft	82
Current (Amps)	907	771,0	539,7	141	35,391	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	1112,71	945,81	1223,98	556,36	0,0	C.T.	10:1	V.T.	20:1	

Motor Speed Data



Motor Load Data



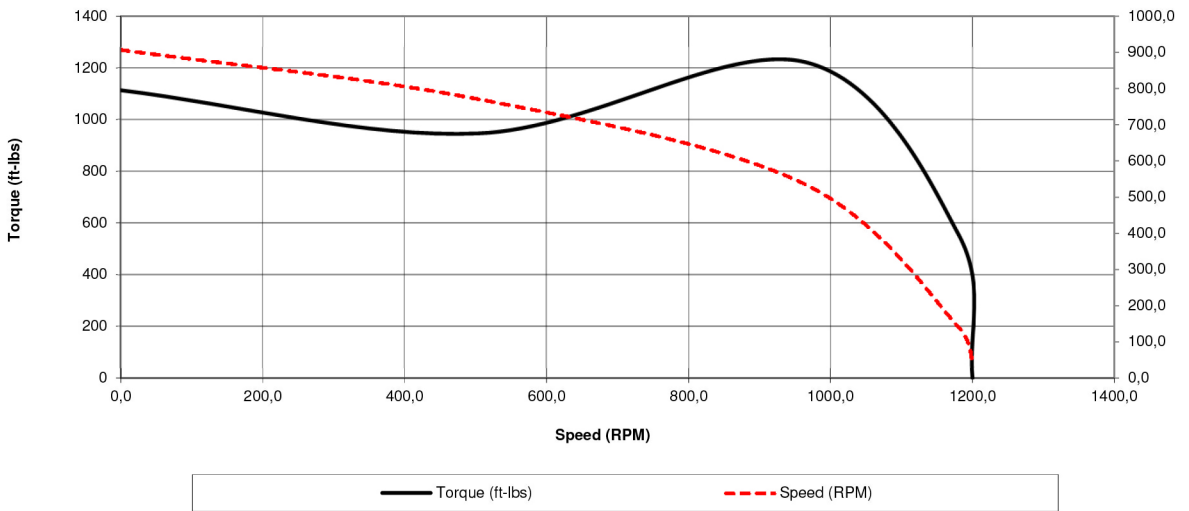
Date: 2018-07-06  
 Customer: \_\_\_\_\_  
 Contact: \_\_\_\_\_  
 Submittee: J.C. Lavallée

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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	1180	TEFC	445T	60	C	6	G	F	< 80
	0Hz	6Hz	15Hz	30Hz	45Hz	60Hz	75Hz	90Hz	105Hz	120Hz
Amps	141	141	141	141	141	141	141	141	141	141
RPM	0	118	295	590	885	1180	1475	1770	2065	2360
Torq ft.lb	445,08	445,08	556,36	556,36	556,36	556,36	445,08	370,90	317,92	278,18
Peak Tq ft.lb	584,17	1168,35	1168,35	1168,35	1168,35	1168,35	934,68	778,90	667,63	584,17
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	504	960	1180	1200	Continuous	1,15	40°C	3,300 ft	82
Current (Amps)	907,0	771,0	539,7	141,0	35,4	VFD Rating: Meets MG1 parts 31.4.4.2				
Torque (ft-lbs)	1112,7	945,8	1224,0	556,4	0,0	C.T.	10:1	V.T.	20:1	

### Motor Speed Data



### Motor Torque Capability vs RPM

