



DATA SHEET

Premium Efficiency Motor: **PEWWE50-12-365TC**

60 Hz

AC-DC MOTORS :: SALES & SERVICE
REWINDING :: CUSTOM CONTROL PANEL

Kelly MacMillan
Office Ph: 888-226-4917
Fax: 888-226-4917
Cell: 402-679-1579
E-Mail: kelly@electricalhelper.com



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Customer:

MOTOR INFORMATION	
HP	50
RPM	1200
Phase	3
Frequency	60 Hz
Voltage	230/460 V
Frame Size	365TC
Enclosure	TEFC
Degree of Protection	IP55
Service Factor	1.25
Poles	6
Full Load Speed	1185
Insulation Class	F
Temp Rise	80°C
NEMA Code Letter	G
Duty Cycle	S1 / Continuous
Slip	1.25%
NEMA Design	B
Moment of Inertia	24.1 lb.ft.^2
Locked Rotor Time (Hot)	13 seconds
Sound Pressure Level	71 dB(A)
Number of Starts	2 Cold/ 1 Hot
Max Ambient Temperature	40°C
Max Elevation	1000 m.a.s.l (3300 f.a.s.l)
Mounting	F1
Rotation	Bi-Directional
Area of Classification	Class 1 Division 2 Groups A,B,C,D T3A(180°C)
Inverter Rating	10:1 CT / 20:1 VT PWM Type
Standard	NEMA MG-1
Approvals	CSA-US, CE

EFFICIENCY/POWER FACTOR		
LOAD	EFF	P. F.
100%	94.1	
%	0.829753%	0.78
50%	93.6 %	0.68

TORQUE		
FULL LOAD	LRT	BD
222 lb.ft.	210 %	250 %

AMPERAGE INFORMATION		
	230V	460V
Full Load Amps	121A	60.7A
Locked Rotor Amps	725A	362.5
No Load Current	A	
Usable at 208V	49A	134A 24.5A

BEARING INFORMATION	
DE Bearing	6313 C3
ODE Bearing Grease Ty	6312 C3
pe DE Regreasing	SKF LGHP 2
Interval	4500 Hours
ODE Regreasing Interval	6000 Hours

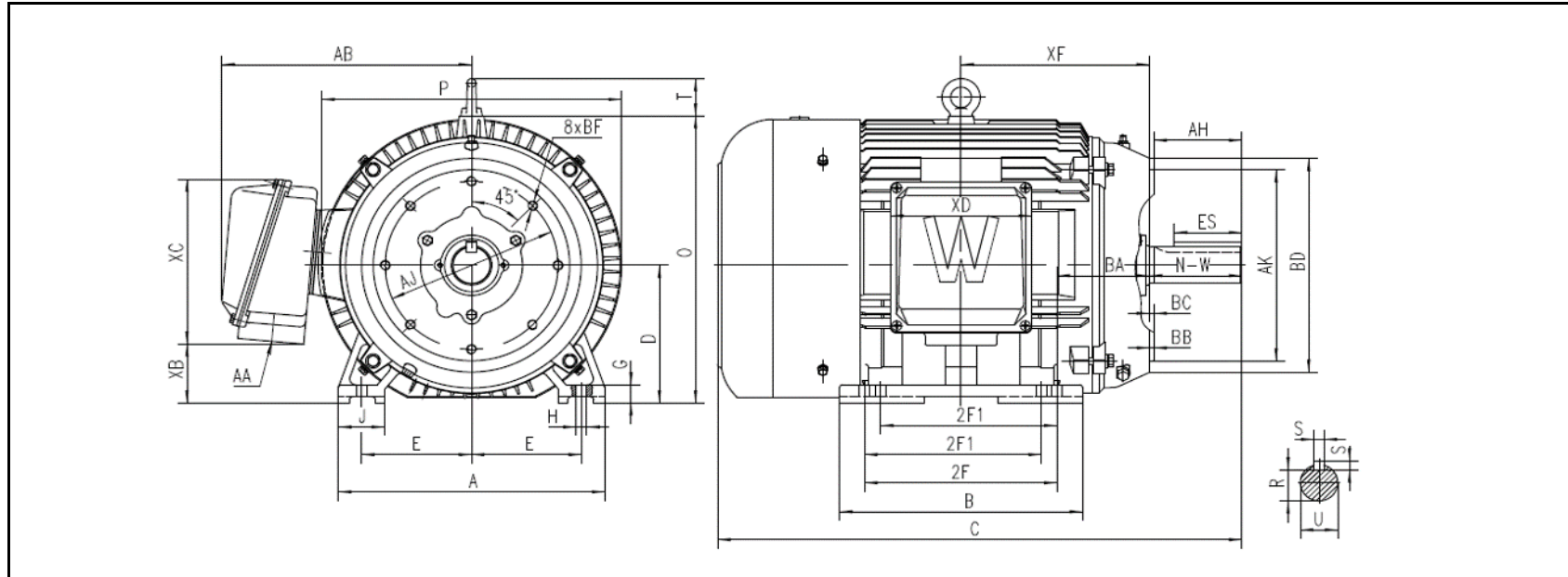
ADDITIONAL DATA	
F2 Suitable	Yes
Shaft Material	1045 Carbon Steel
Connection Diagram	230 / 460 V - 12 Lead
Approximate Weight	Δ

844 lbs.



MOTOR DRAWING

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DIMENSION - INCHES

MOUNTING					A	B	C	D	G	J	P	O	T	AB
E	2F1	2F	H	BA										
7	11.25	12.25	0.66	5.88	16.969	15.472	33.36	9	1.181	2.953	19.091	18.8	2.441	15.899

SHAFT & KEY					
S	ES	R	N-W	AH	U
0.625	4.28	2.021	5.88	5.62	2.375

TERMINAL BOX				
AA	XB	XC	XD	XF
3	3.849	10.783	8.976	11.988

FLANGE					
AJ	AK	BB	BD	BF	BC
11	12.5	0.25	13.989	5/8-11	0.25



PERFORMANCE CURVES

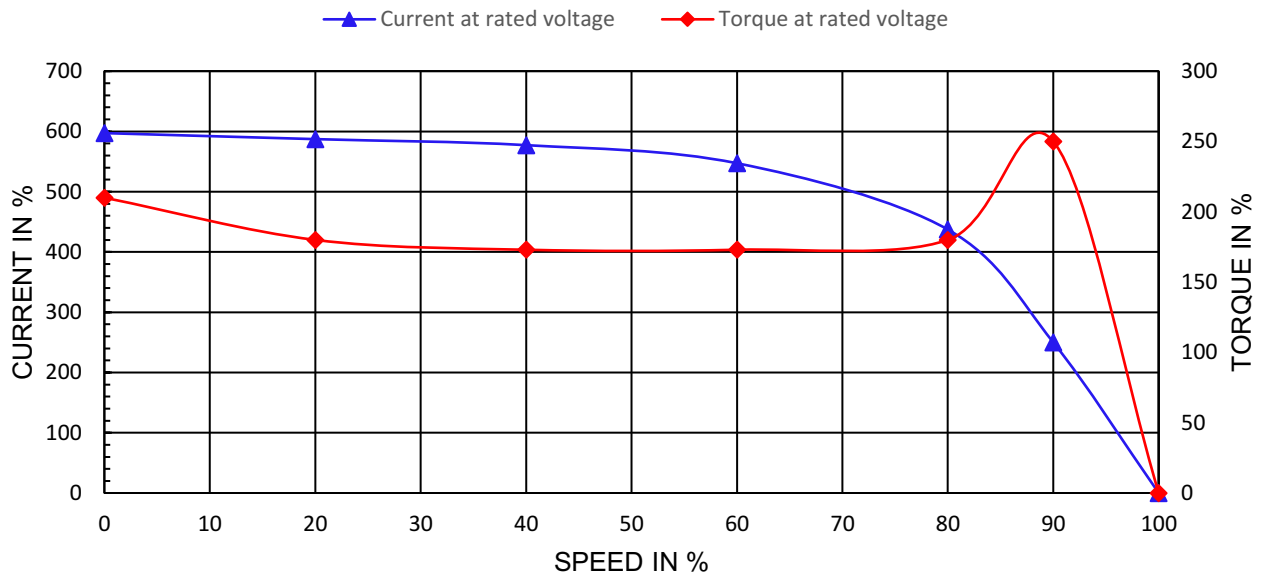
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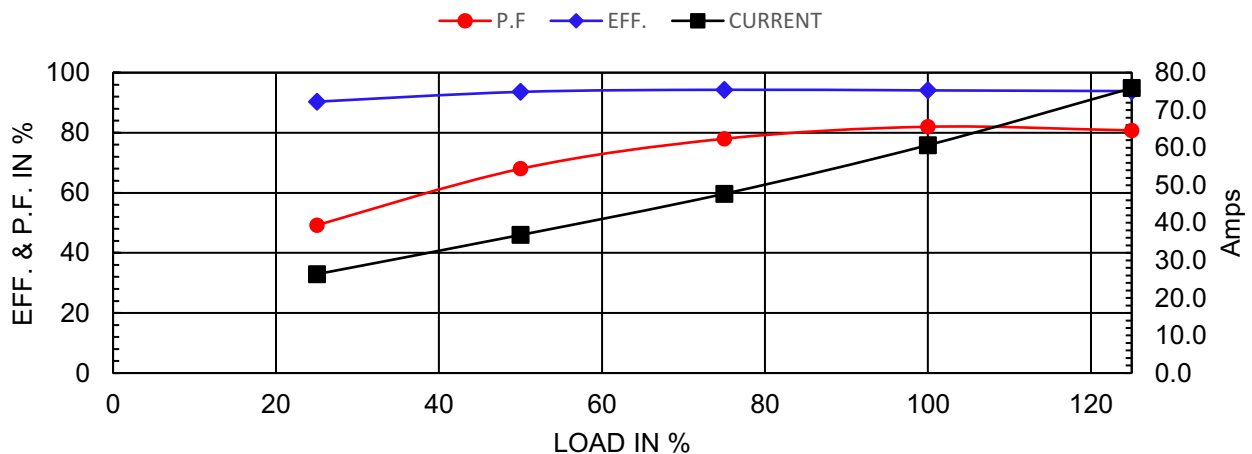
Customer:

Motor Type	PEWWE			FL Speed	1185		
Output Rating (HP)	50			LRT (%FLT)	210	460 volt FLA	60.7
Full Load Torque	222	lb.ft		BDT (%FLT)	250	230 volt FLA	121
Rotor Wk^2	24.1	lb-ft^2					

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F. & CURRENT CURVE





NAMEPLATE / WIRING

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SAMPLE NAMEPLATE DATA

		3-PHASE INDUCTION MOTOR		259277 		50Hz 1.0SF HP % V A rpm
Model		Ser No.		Low Voltage ⑥ ④ ⑤ ⑦ ⑧ ⑨ ⑫ ⑩ ⑪ ① ② ③ L1 L2 L3		
HP		S.F.		Rating	°C Amb Cont	
Frame		P.F.		IP	Encl	
Voltage	230/460	Hz		Code	Type	
Amps		RPM		Ins Cl	Design	
Nom.Eff.	FL	% 3/4	%	10:1 CT 20:1 VT PWM VFD	1.0SF	
Class I DIV. 2 Groups A B C D		Amb.40°C				
Class I Zone 2 IIC		Amb.55°C		Date		
Grease type: LGHP 2 (compatible with polyrex)		DE Brng ODE Brng				
WorldWide Electric Corporation						

Model	PEWWE50-12-365TC						
HP	50	S.F.	1.25	IP	IP55	Encl	TEFC
Frame	365TC	P.F.	0.82	Code	G	Type	
Voltage	230/460 V	Hz	60 Hz	Ins Cl	F	Ambient	40°C
Amps	121/60.7	RPM	1185	Design	B	DE Brng	6313 C3
Nom.Eff.	FL	94.1%	3/4	94.3%		ODE Brng	6312 C3
Class 1 Division 2 Groups A,B,C,D						T3A(180°C)	
						Grease type: SKF LGHP 2	
50Hz							
50 HP		200/400 V		142/71.5A		985 rpm	
Eff. 92.2%							