DATA SHEET

Premium Efficiency Motor: **PEWWE100-18-405TBB** **60 Hz**

WorldWide Electric Corporation
1 (800) 808-2131
Worldwideelectric.net

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Customer:

MOTOR INFORMATION

HP	100
RPM	1800
Phase	3
Frequency	60 Hz
Voltage	230/460 V
Frame Size	405T
Enclosure	TEFC
Degree of Protection	IP55
Service Factor	1.25
Poles	4
Full Load Speed	1785
Insulation Class	F
Temp Rise	80°C
NEMA Code Letter	G
Duty Cycle	S1 / Continuous
Slip	0.83%
NEMA Design	B
Moment of Inertia	28.1 lb.ft.^2
Locked Rotor Time (Hot)	16 seconds
Sound Pressure Level	74 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

ADDITIONAL DATA

F2 Suitable	No
Shaft Material	1045 Carbon Steel
Connection Diagram	230 / 460 V - 12 Lead Δ
Approximate Weight	1108 lbs.

EFFICIENCY/POWER FACTOR

LOAD	EFF	P. F.
100%	95.4 %	0.86
75%	95.6 %	0.84
50%	95.4 %	0.77

TORQUE

FULL LOAD	LRT	BDT
294 lb.ft.	160 %	250 %

AMPERAGE INFORMATION

	230V	460V
Full Load Amps	228A	114A
Locked Rotor Amps	1450A	725A
No Load Current	70A	35A
Usable at 208V	252A	

BEARING INFORMATION

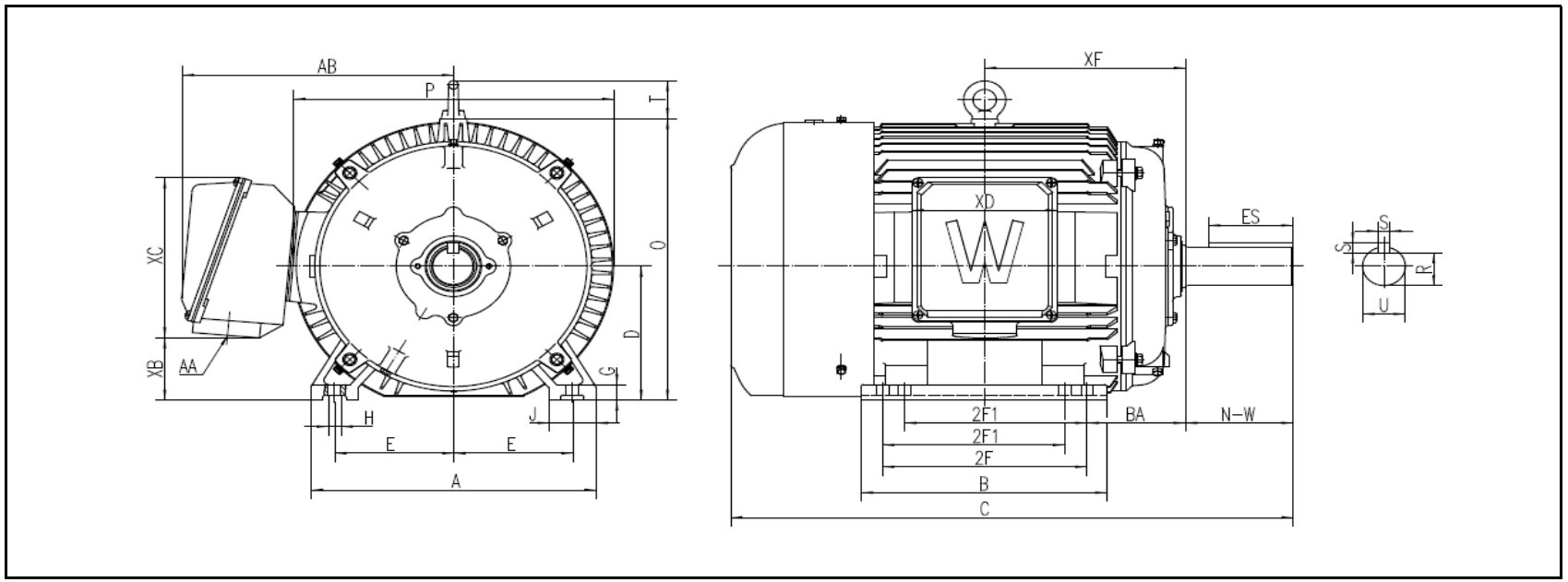
DE Bearing	6316 C3
ODE Bearing	6313 C3
Grease Type	SKF LGHP 2
DE Regreasing Interval	2000 Hours
ODE Regreasing Interval	3000 Hours

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MOTOR DRAWING

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DIMENSION - INCHES

MOUNTING					A	B	C	D	G	J	P	O	T	AB
E	2F1	2F	H	BA										
8	12.25	13.75	0.81	6.62	19.136	16.535	37.815	10	1.181	3.15	21.535	21.024	2.835	18.264

SHAFT & KEY				
S	ES	R	N-W	U
0.75	5.65	2.45	7.25	2.875

TERMINAL BOX				
AA	XB	XC	XD	XF
3	4.659	11.933	9.764	13.494

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PERFORMANCE CURVES

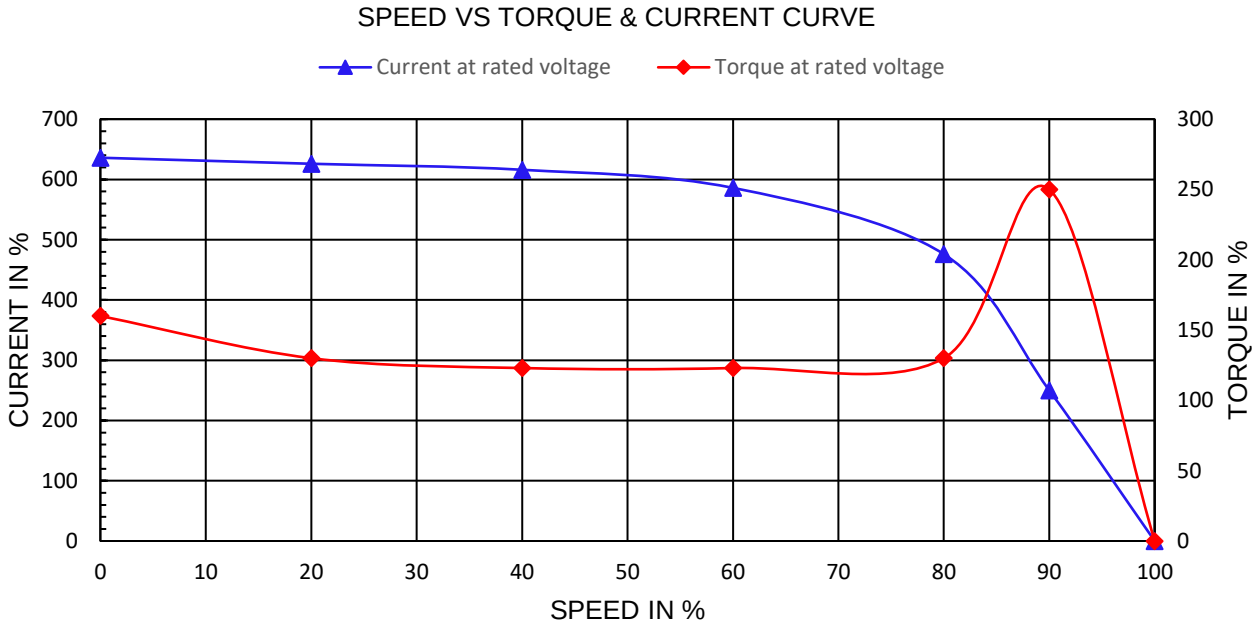
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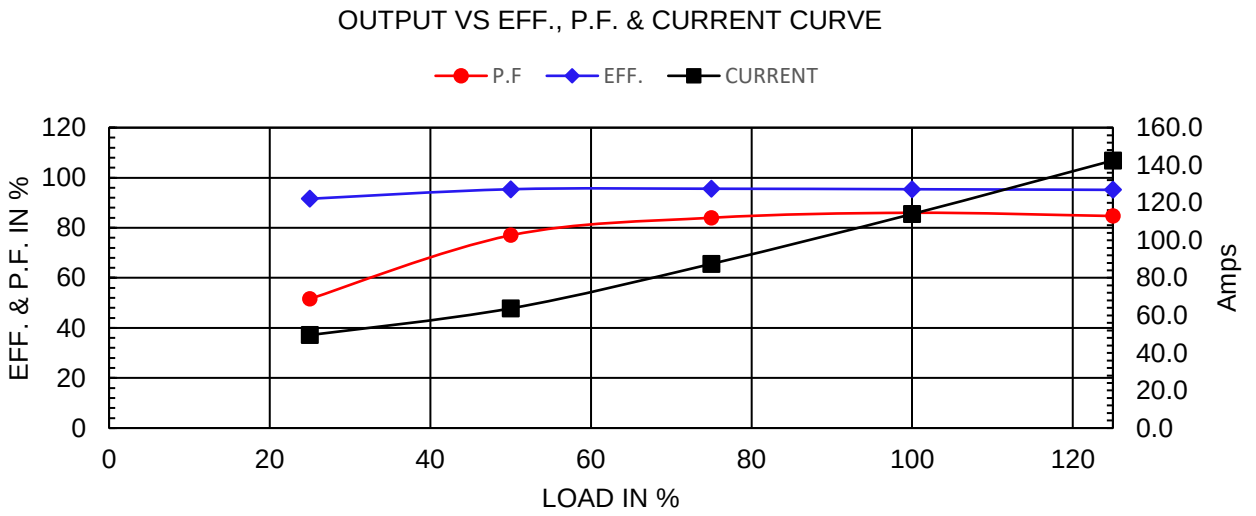
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Motor Type	PEWWE						
Output Rating (HP)	100		FL Speed	1785			
Full Load Torque	294	lb.ft	LRT (%FLT)	160	460 volt FLA	114	A
Rotor Wk^2	28.1	lb-ft^2	BDT (%FLT)	250	230 volt FLA	228	A





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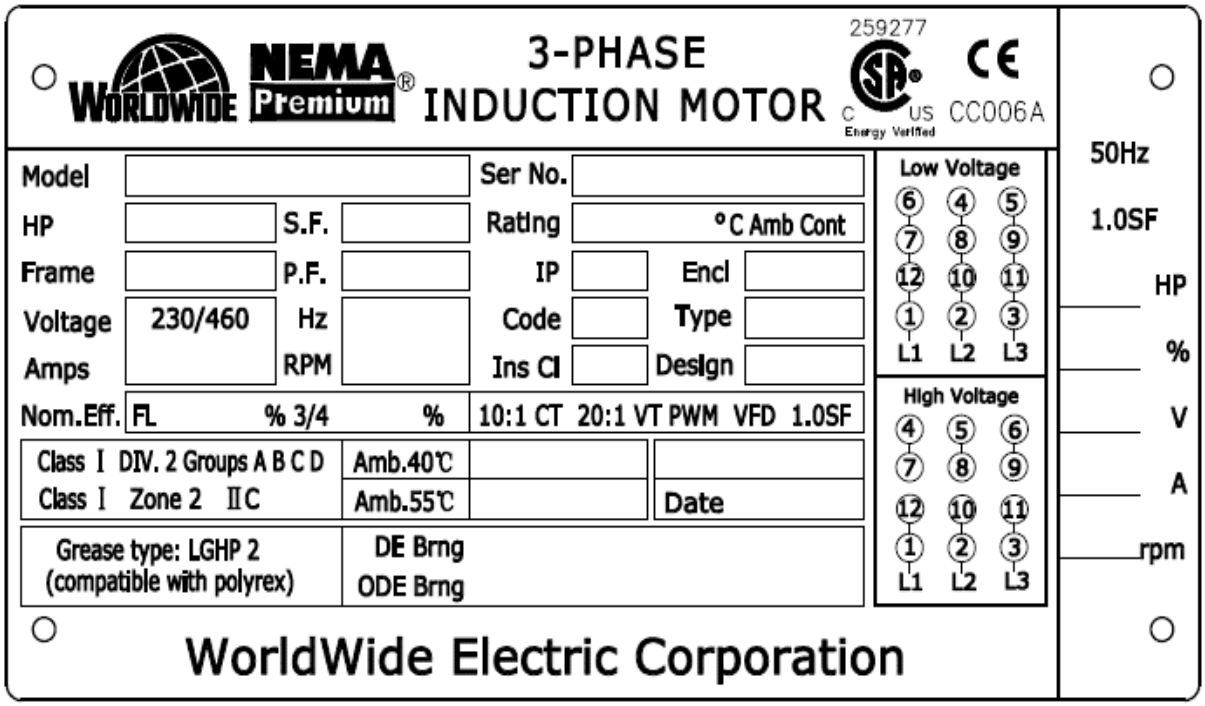
NAMEPLATE / WIRING

Premium Efficiency Motor: **PEWWE100-18-405TBB**

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SAMPLE NAMEPLATE DATA



Model	PEWWE100-18-405TBB						
HP	100	S.F.	1.25	IP	IP55	Encl	TEFC
Frame	405T	P.F.	0.86	Code	G	Type	
Voltage	230/460 V	Hz	60 Hz	Ins Cl	F	Ambient	40°C
Amps	228/114	RPM	1785	Design	B	DE Brng	6316 C3
Nom.Eff.	FL	95.4%	3/4	95.6%		ODE Brng	6313 C3
Class 1 Division 2 Groups A,B,C,D T3A(180°C)						Grease type:	SKF LGHP 2

50Hz				
100 HP	200/400 V	266/133 A	1485 rpm	94.0%

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