DATA SHEET

Premium Efficiency Motor: **PEWWE250-18-505Z** **60 Hz**

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

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MOTOR INFORMATION

HP	250
RPM	1800
Phase	3
Frequency	60 Hz
Voltage	460 V
Frame Size	505Z
Enclosure	TEFC
Degree of Protection	IP55
Service Factor	1.15
Poles	4
Full Load Speed	1790
Insulation Class	F
Temp Rise	80˚C
NEMA Code Letter	G
Duty Cycle	S1 / Continuous
Slip	0.56%
NEMA Design	B
Moment of Inertia	73.6 lb.ft.^2
Locked Rotor Time (Hot)	17 seconds
Sound Pressure Level	85 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 T3(200°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	4140 Carbon Steel
Connection Diagram	460 V - 6 Lead Δ
Approximate Weight	2360 lbs.

EFFICIENCY/POWER FACTOR

LOAD	EFF	P. F.
100%	96.2 %	0.87
75%	96.2 %	0.84
50%	95.8 %	0.75

TORQUE

FULL LOAD	LRT	BDT
1027 lb.ft.	200 %	250 %

AMPERAGE INFORMATION

	230V	460V
Full Load Amps	--A	280A
Locked Rotor Amps	--A	1825A
No Load Current	--A	93A

Usable at 208V --A

BEARING INFORMATION

DE Bearing	NU322 C3
ODE Bearing	6319 C3
Grease Type	SKF LGHP 2
DE Regreasing Interval	1300 Hours
ODE Regreasing Interval	2000 Hours

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MOTOR DRAWING

Premium Efficiency Motor: **PEWWE250-18-505Z**

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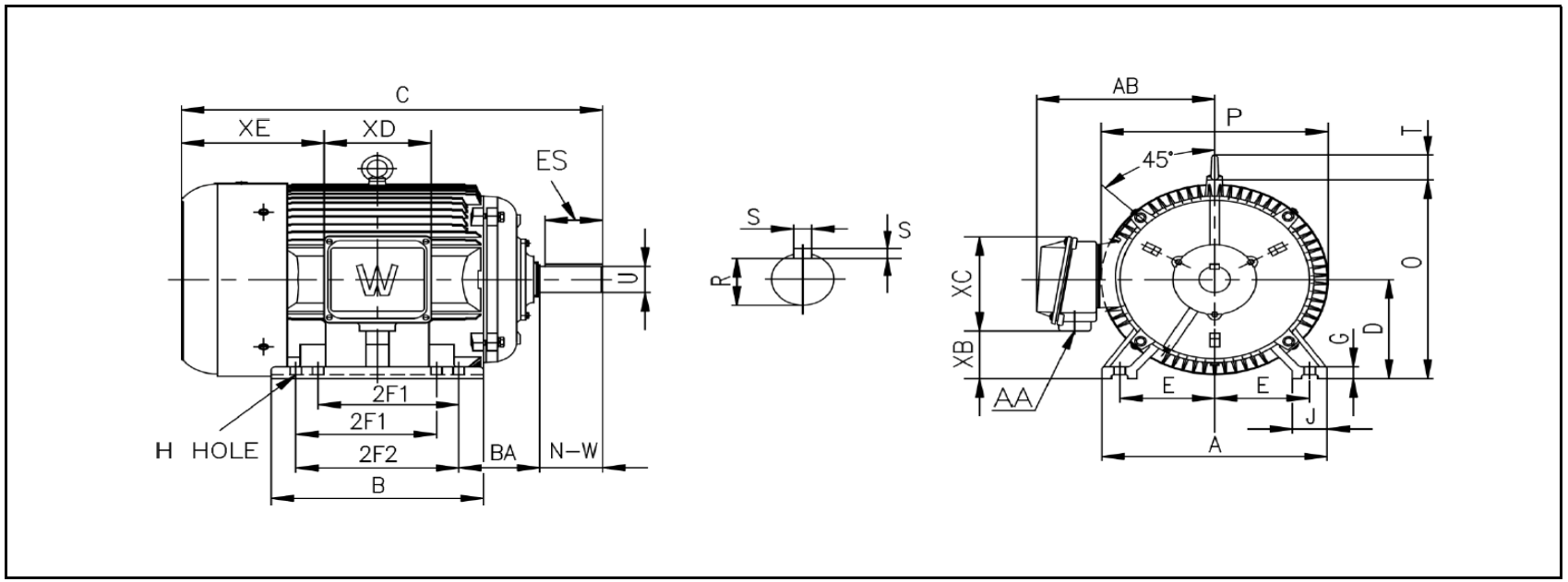

DIMENSION - INCHES

MOUNTING					A	B	C	D	G	J	P	O	T	AB
E	2F1	2F	H	BA										
10	16	18	0.94	8.5	24.72	26	54	12.5	1.87	4.72	25	25.3	4.25	21

SHAFT & KEY				
S	ES	R	N-W	U
0.875	9	3.134	10.625	3.625

TERMINAL BOX				
AA	XB	XC	XD	XF
2X3	5	13.8	11.8	--

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PERFORMANCE CURVES

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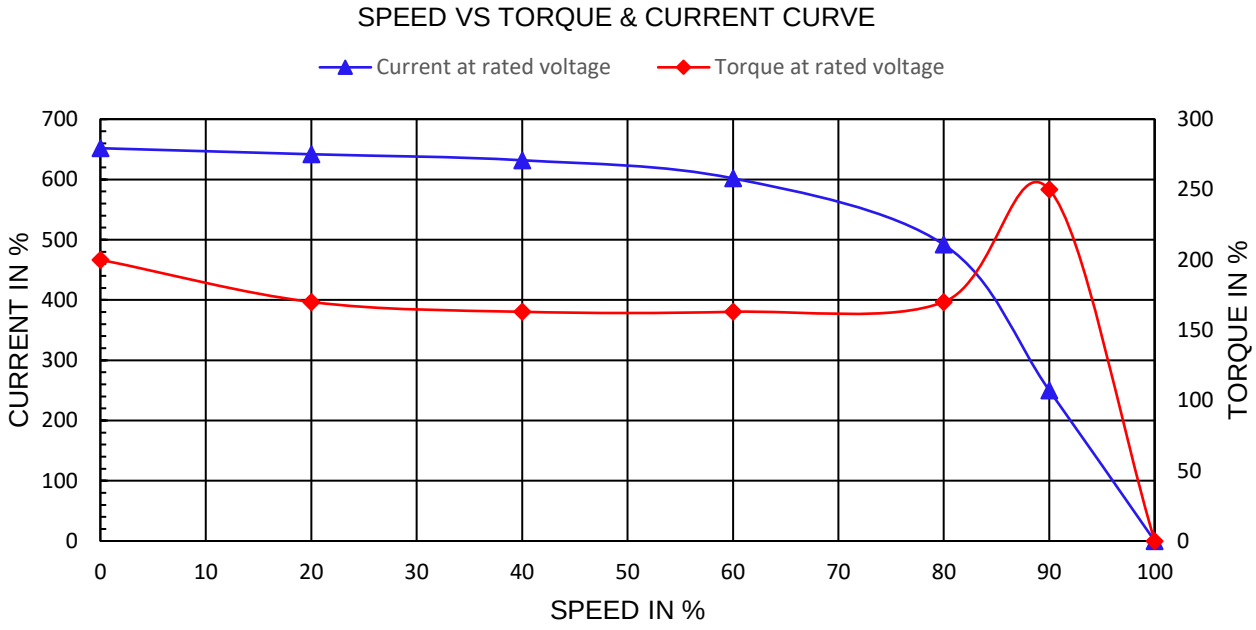
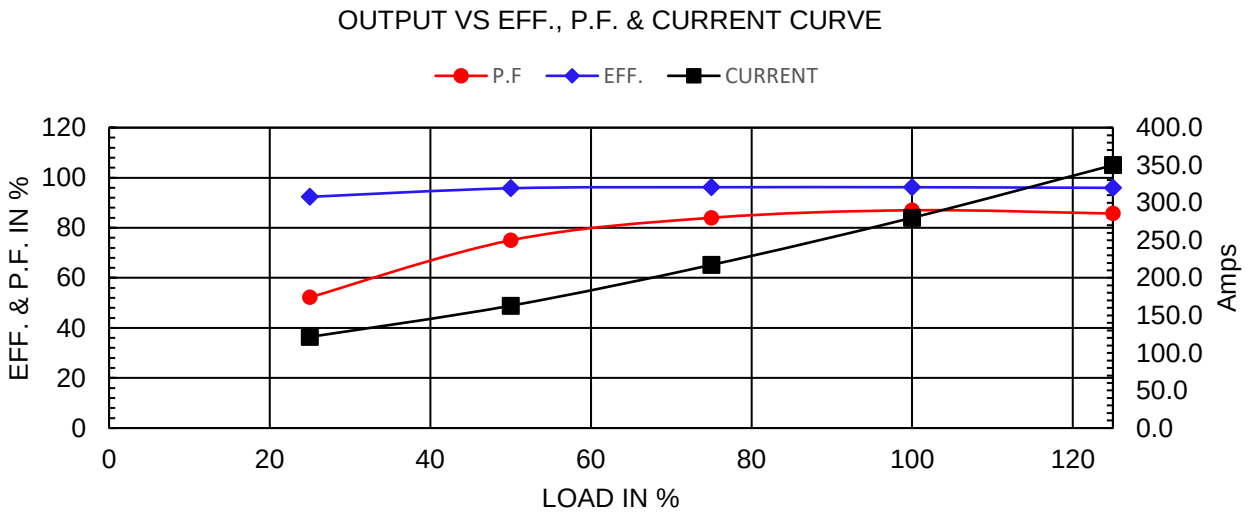
Motor Type	PEWWE							
Output Rating (HP)	250		FL Speed	1790				
Full Load Torque	1027	lb.ft	LRT (%FLT)	200	460 volt FLA	280	A	
Rotor Wk^2	73.6	lb-ft^2	BDT (%FLT)	250	230 volt FLA	--	A	





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NAMEPLATE / WIRING

Premium Efficiency Motor: **PEWWE250-18-505Z**

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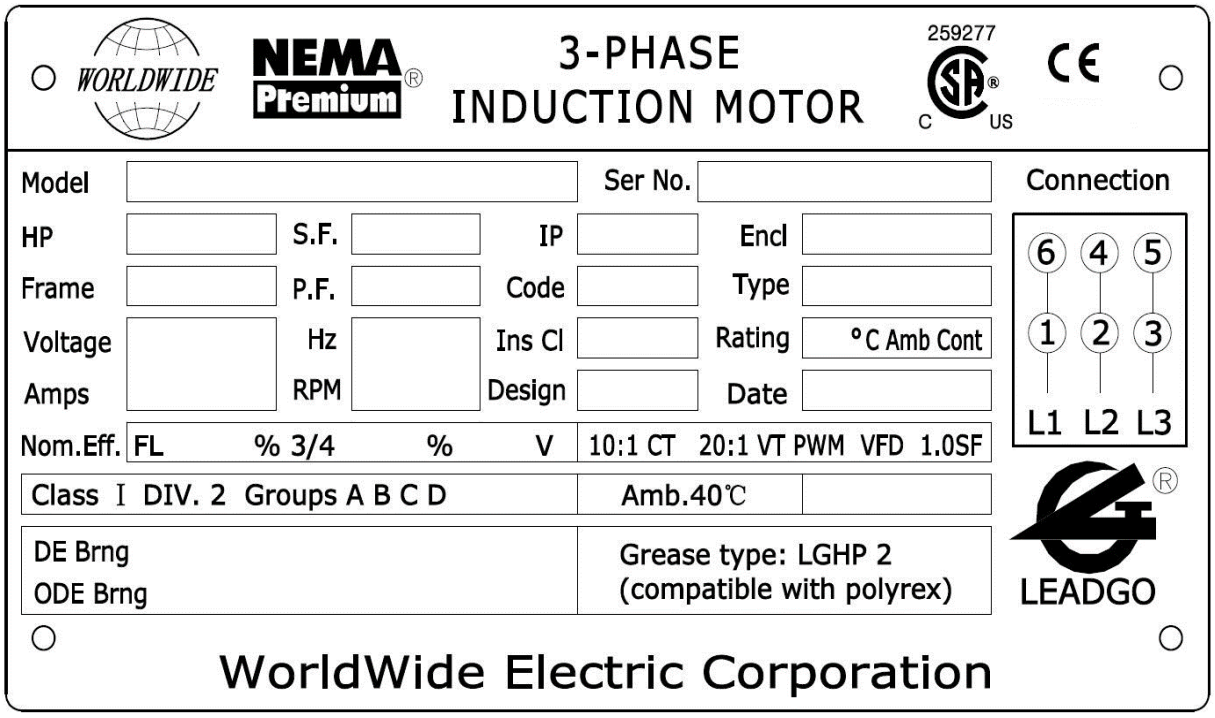
SAMPLE NAMEPLATE DATA



Model	PEWWE250-18-505Z						
HP	250	S.F.	1.15	IP	IP55	Encl	TEFC
Frame	505Z	P.F.	0.87	Code	G	Type	
Voltage	460 V	Hz	60 Hz	Ins Cl	F	Ambient	40°C
Amps	280	RPM	1790	Design	B	DE Brng	NU322 C3
Nom.Eff.	FL 96.2%	3/4	96.2%			ODE Brng	6319 C3
Class 1 Division 2 Groups A,B,C,D T3(200°C)						Grease type:	SKF LGHP 2

50Hz	--	HP	--	--	A	-- rpm

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