

DATA SHEET

Premium Efficiency Motor: **PEWWE450-12-586/7**

60 Hz

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



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Customer:

MOTOR INFORMATION

HP	450
RPM	1200
Phase	3
Frequency	60 Hz
Voltage	460 V
Frame Size	586/7
Enclosure	TEFC
Degree of Protection	IP55
Service Factor	1.00
Poles	6
Full Load Speed	1190
Insulation Class	F
Temp Rise	80°C
NEMA Code Letter	G
Duty Cycle	S1 / Continuous
Slip	0.83%
NEMA Design	B
Moment of Inertia	287 lb.ft.^2
Locked Rotor Time (Hot)	17 seconds
Sound Pressure Level	90 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	-
Inverter Rating	3:1 CT / 6:1 VT PWM Type
Standard	NEMA MG-1
Approvals	CSA-US, CE

EFFICIENCY/POWER FACTOR

LOAD	EFF	P. F.
100%	95.8 %	0.87
75%	95.9 %	0.85
50%	95.8 %	0.79

TORQUE

FULL LOAD	LRT	BDT
1985 lb.ft.	200 %	250 %

AMPERAGE INFORMATION

	230V	460V
Full Load Amps	--A	506A
Locked Rotor Amps	--A	3250A
No Load Current	--A	159A
Usable at 208V		--A

BEARING INFORMATION

DE Bearing	NU326 C3
ODE Bearing	6324 C3
Grease Type	SKF LGHP 2
DE Regreasing Interval	1500 Hours
ODE Regreasing Interval	2200 Hours

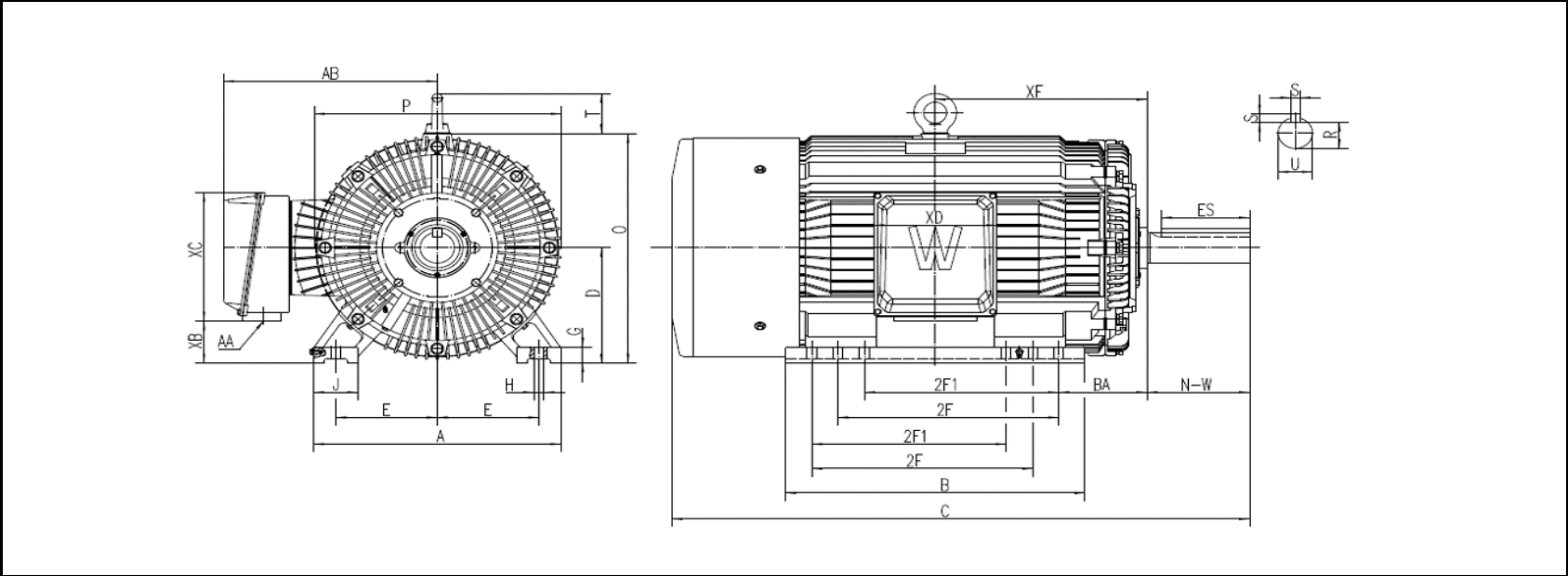
ADDITIONAL DATA

F2 Suitable	No
Shaft Material	4140 Carbon Steel
Connection Diagram	460 V - 6 Lead Δ
Approximate Weight	4850 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										
11.5	22	25	1.125	10	27.992	33.858	65.444	14.5	2.047	5	28.011	28.87	5.02	24.212

SHAFT & KEY				
S	ES	R	N-W	U
1	10	3.309	11.625	3.875

TERMINAL BOX				
AA	XB	XC	XD	XF
2X3	5.287	16.158	13.937	23.976

PERFORMANCE CURVES

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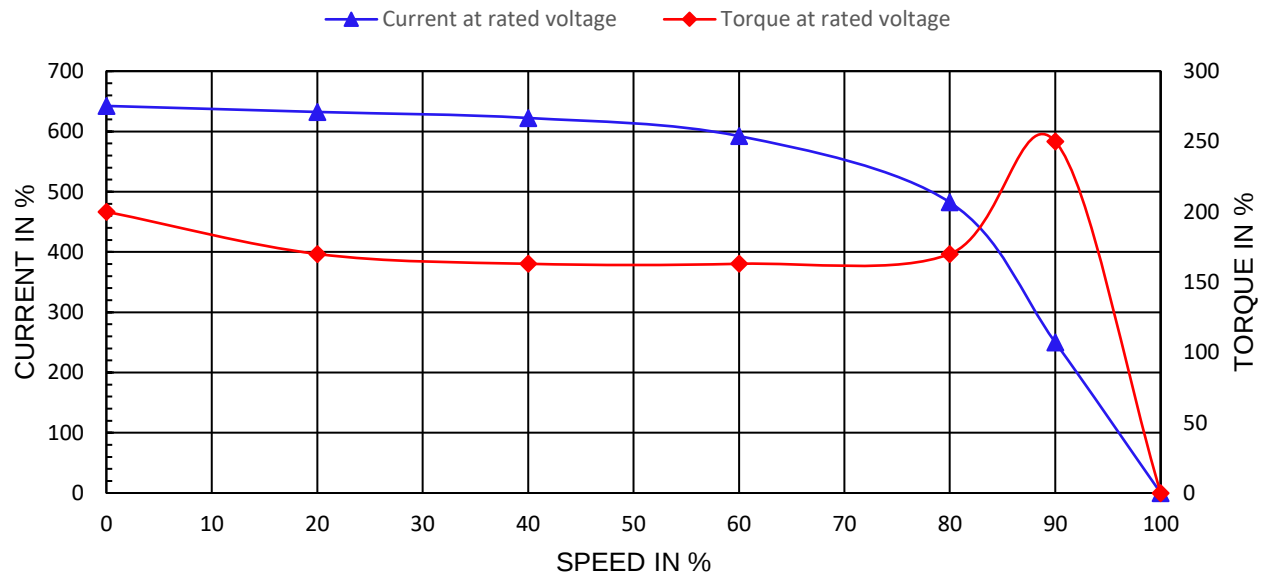
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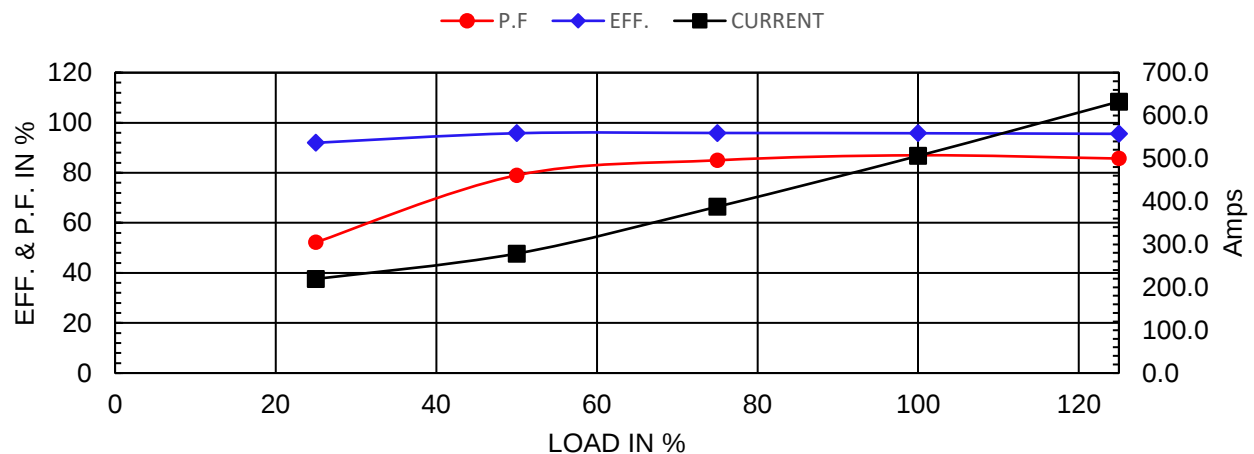
Customer:

Motor Type	PEWWE							
Output Rating (HP)	450			FL Speed	1190			
Full Load Torque	1985	lb.ft		LRT (%FLT)	200	460 volt FLA	506	A
Rotor Wk^2	287	lb-ft^2		BDT (%FLT)	250	230 volt FLA	--	A

SPEED VS TORQUE & CURRENT CURVE



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



NAMEPLATE / WIRING

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SAMPLE NAMEPLATE DATA

		NEMA Premium		3-PHASE INDUCTION MOTOR		259277 			
Model				Ser No.				Connection	
HP		S.F.		IP		Encl	6 4 5		
Frame		P.F.		Code		Type	1 2 3		
Voltage		Hz		Ins Cl		Rating	°C Amb Cont		
Amps		RPM		Design		Date			
Nom.Eff.	FL	% 3/4	%	V	10:1 CT	20:1 VT	PWM	VFD	1.0SF
Class I DIV. 2 Groups A B C D				Amb.40°C					
DE Brng				Grease type: LGHP 2					
ODE Brng				(compatible with polyrex)					
WorldWide Electric Corporation									

Model	PEWWE450-12-586/7								
HP	450	S.F.	1	IP	IP55	Encl	TEFC		
Frame	586/7	P.F.	0.87	Code	G	Type			
Voltage	460 V	Hz	60 Hz	Ins Cl	F	Ambient	40°C		
Amps	506	RPM	1190	Design	B	DE Brng NU326 C3			
Nom.Eff.	FL	95.8%	3/4	95.9%	ODE Brng 6324 C3				
					Grease type: SKF LGHP 2				
50Hz	--	HP	--	--	A	--	rpm		