

DATA SHEET

Premium Efficiency Motor: **PEWWE250-18-449T**

60 Hz

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



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Customer:

MOTOR INFORMATION

HP	250
RPM	1800
Phase	3
Frequency	60 Hz
Voltage	460 V
Frame Size	449T
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	82.7 lb.ft.^2
Locked Rotor Time (Hot)	17 seconds
Sound Pressure Level	83 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 I, Division 2, Groups A, B, C, D
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%	96.2 %	0.87
75%	96.3 %	0.84
50%	95.8 %	0.75

TORQUE

FULL LOAD	LRT	BDT
733 lb.ft.	200 %	260 %

AMPERAGE INFORMATION

	230V	460V
Full Load Amps	--A	280A
Locked Rotor Amps	--A	1825A
No Load Current	--A	91.5A
Usable at 208V		--A

BEARING INFORMATION

DE Bearing	NU320 C3
ODE Bearing	6320 C3
Grease Type	SKF LGHP 2
DE Regreasing Interval	1300 Hours
ODE Regreasing Interval	1800 Hours

ADDITIONAL DATA

F2 Suitable	Yes
Shaft Material	4140 Carbon Steel
Connection Diagram	460 V - 6 Lead Δ
Approximate Weight	2660 lbs.

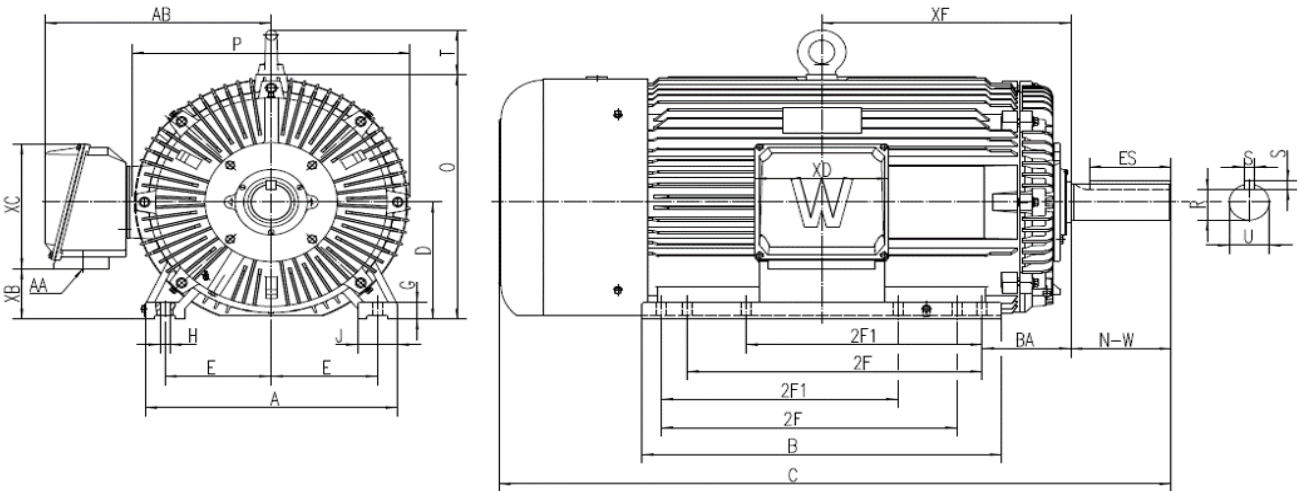
MOTOR DRAWING

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DIMENSION - INCHES

MOUNTING					A	B	C	D	G	J	P	O	T	AB
E	2F1	2F	H	BA										
9	20	25	0.81	7.5	21.339	30.472	56.945	11	1.575	3.346	23.554	22.969	4.213	19.171

SHAFT & KEY				
S	ES	R	N-W	U
0.875	6.91	2.88	8.5	3.375

TERMINAL BOX				
AA	XB	XC	XD	XF
2 X 3	4.7	11.813	11.339	21.087

PERFORMANCE CURVES

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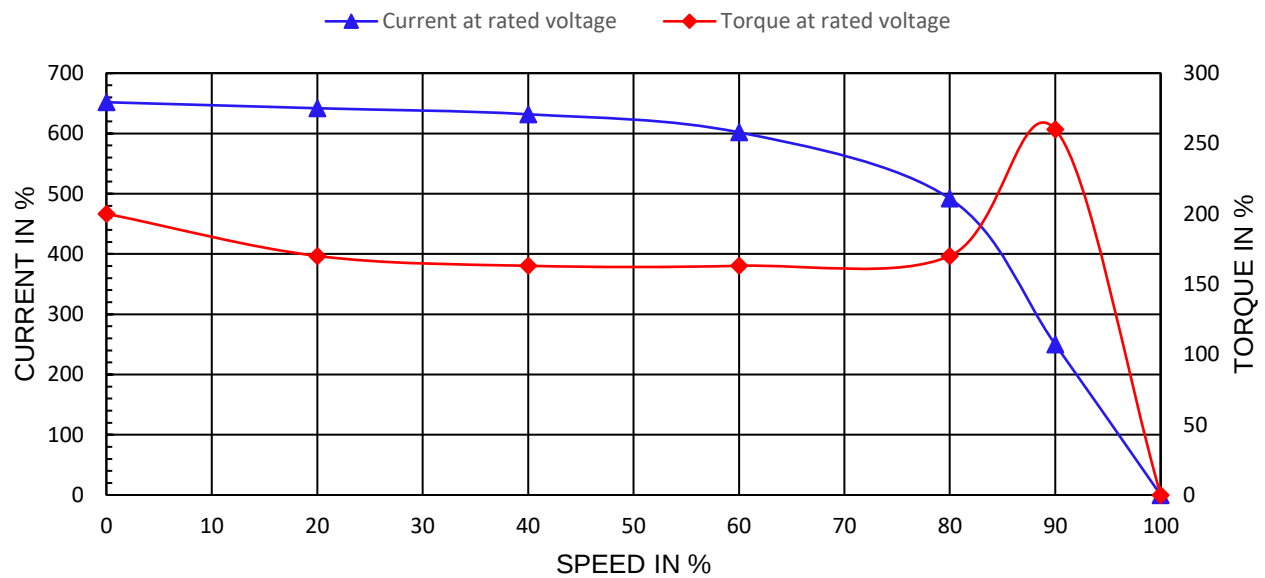
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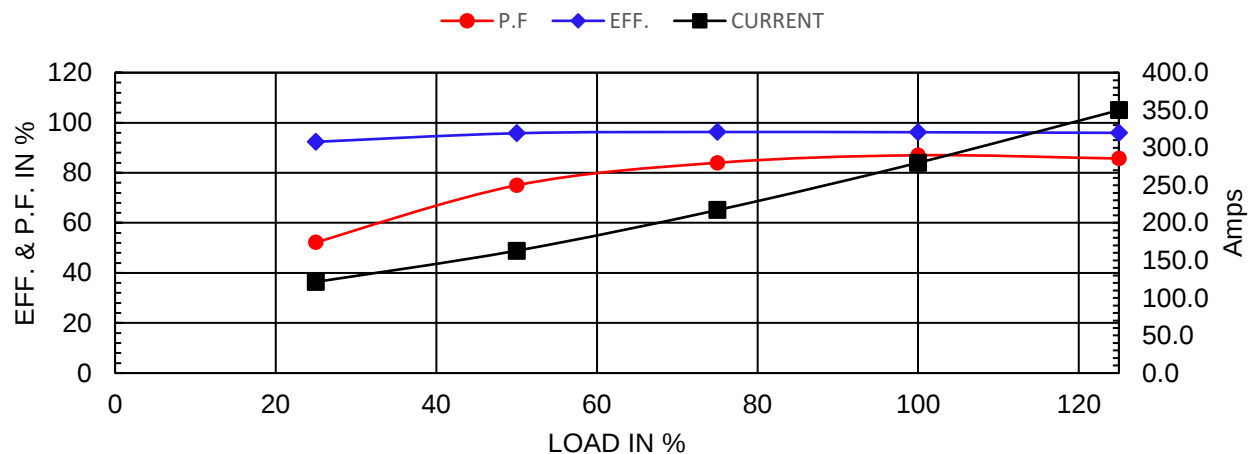
Customer:

Motor Type	PEWWE						
Output Rating (HP)	250			FL Speed	1790		
Full Load Torque	733	lb.ft		LRT (%FLT)	200	460 volt FLA	280 A
Rotor Wk^2	82.7	lb-ft^2		BDT (%FLT)	260	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 1 2 3 L1 L2 L3		
Frame		P.F.		Code		Type			
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	PEWWE250-18-449T								
HP	250	S.F.	1.15	IP	IP55	Encl	TEFC		
Frame	449T	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 NU320 C3			
Nom.Eff.	FL	96.2%	3/4	96.3%	ODE Brng 6320 C3				
					Grease type: SKF LGHP 2				
50Hz	--	HP	--	--	A	-- rpm			