

DATA SHEET

Premium Efficiency Motor: **PEWWE450-18-L449TBB-IB**

60 Hz

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



Document Generated: 1-Feb-2024
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Customer:

MOTOR INFORMATION	
HP	450
RPM	1800
Phase	3
Frequency	60 Hz
Voltage	460V
Frame Size	L449T
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	H
Duty Cycle	S1 / Continuous
Slip	0.56%
NEMA Design	A
Moment of Inertia	115 lb.ft.^2
Locked Rotor Time (Hot)	22 seconds
Sound Pressure Level	84 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	--
Standard	--
Approvals	--

EFFICIENCY/POWER FACTOR		
LOAD	EFF	P. F.
100%	96.2 %	0.91
75%	96.2 %	0.89
50%	95.8 %	0.83

TORQUE		
FULL LOAD	LRT	BDT
1320 lb.ft.	200 %	350 %

AMPERAGE INFORMATION		
	230V	460V
Full Load Amps	--A	478A
Locked Rotor Amps	--A	3930A
No Load Current	--A	127A
Usable at 208V	--A	

BEARING INFORMATION	
DE Bearing	6322 C3
ODE Bearing	6320 M/C3
Grease Type	Mobil Polyrex EM
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	3280 lbs.

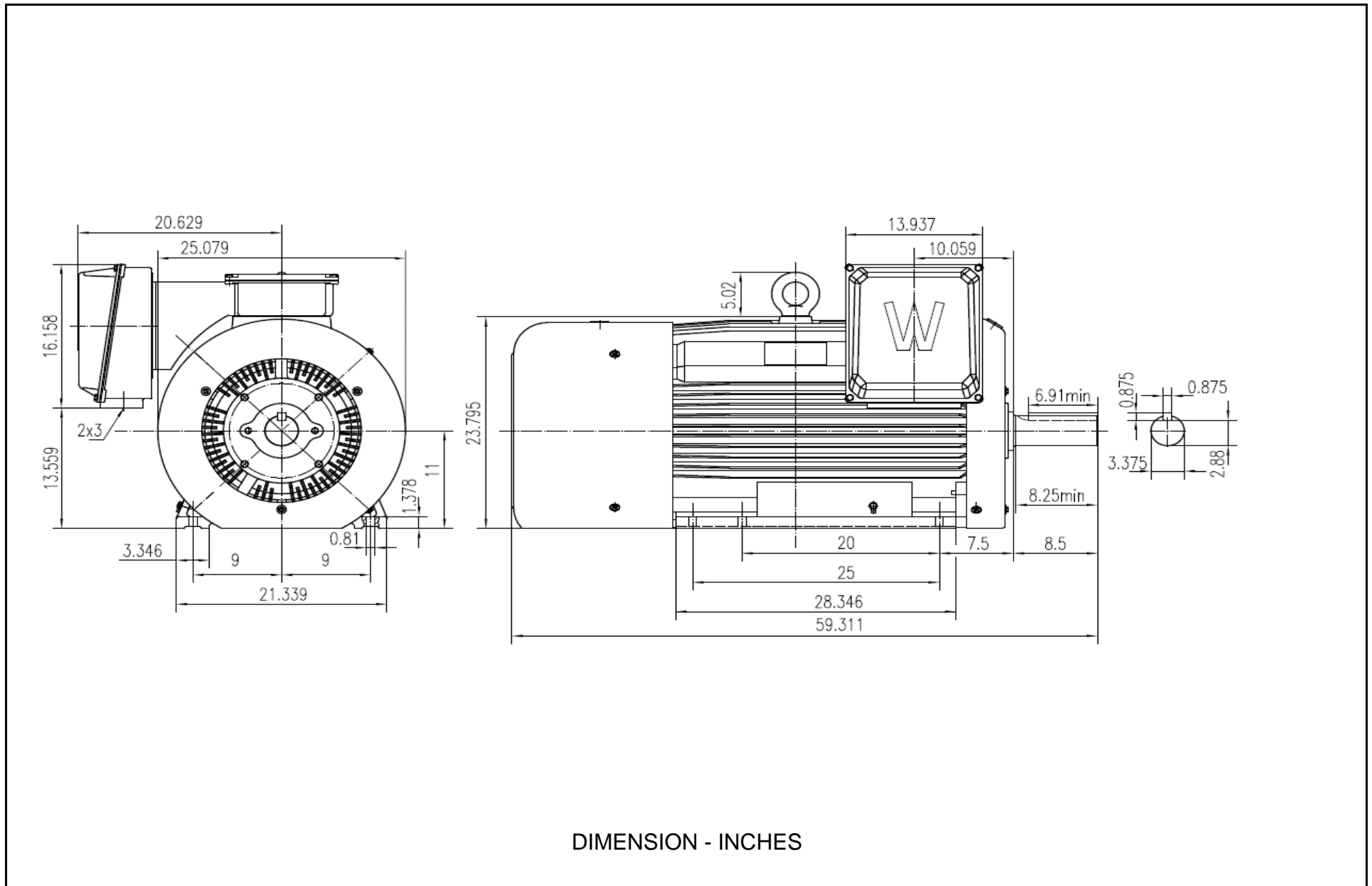
MOTOR DRAWING

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DIMENSION - INCHES

PERFORMANCE CURVES

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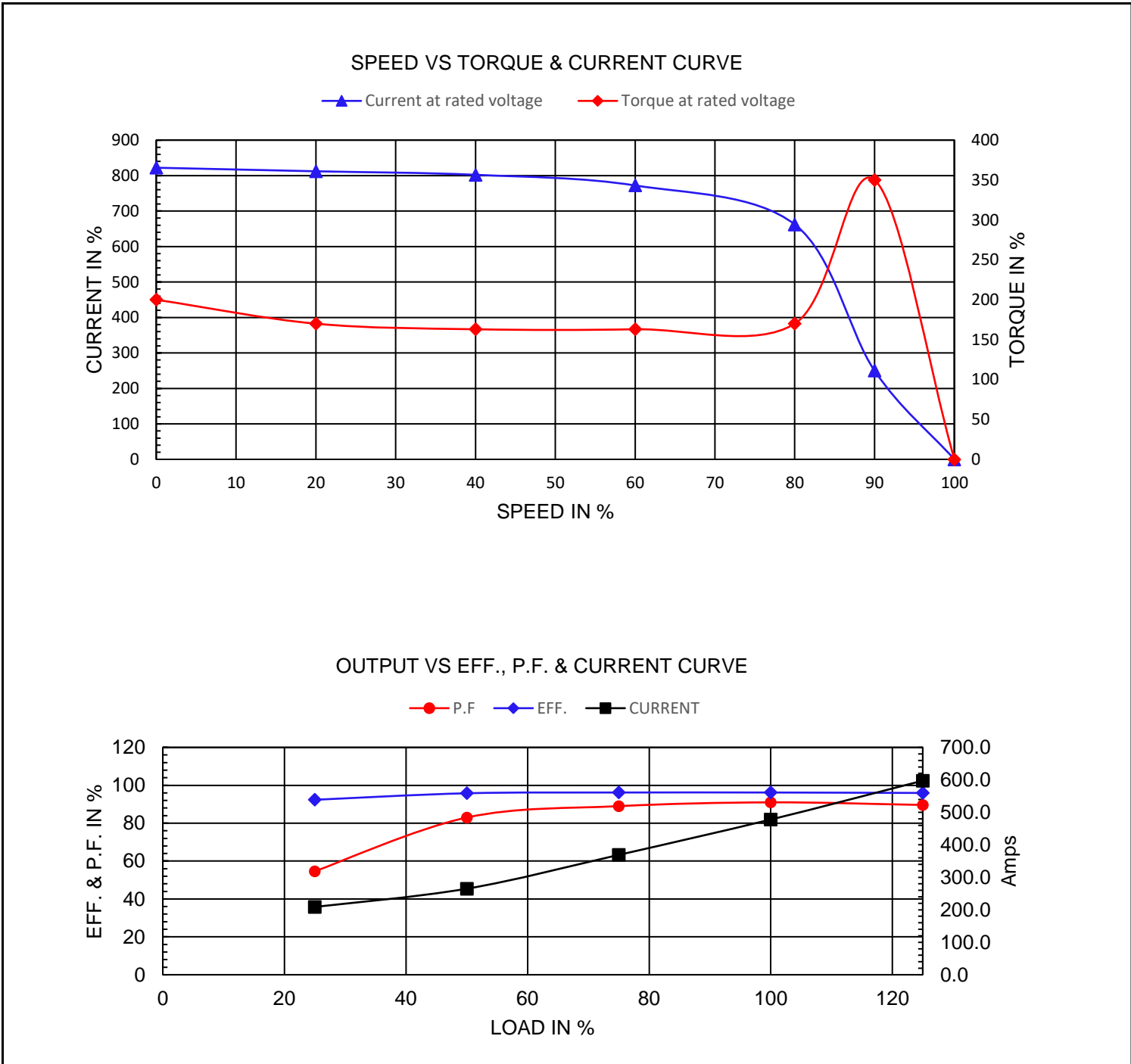
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Motor Type	PEWWE		FL Speed	1790	
Output Rating (HP)	450		LRT (%FLT)	200	460 volt FLA 478 A
Full Load Torque	1320 lb.ft		BDT (%FLT)	350	230 volt FLA -- A
Rotor Wk^2	115 lb-ft^2				



NAMEPLATE / WIRING

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SAMPLE NAMEPLATE DATA

		NEMA Premium		3-PHASE INDUCTION MOTOR		259277 	 CC006A
Model				Ser No.			
HP		S.F.		IP		Encl	
Frame		P.F.		Code		Type	
Voltage		Hz		Ins Cl		Rating	°C Amb Cont
Amps		RPM		Design		Date	
Nom.Eff.	FL	% 3/4	%	V			
Class I DIV. 2 Groups A B C D				Amb.40°C			
DE Brng				Grease type: LGHP 2 (compatible with polyrex)			
ODE Brng							
WorldWide Electric Corporation							

Connection

6	4	5
1	2	3
L1	L2	L3

Model	PEWWE450-18-L449TBB-IB						
HP	450	S.F.	1.15	IP	IP55	Encl	TEFC
Frame	L449T	P.F.	0.91	Code	H	Type	
Voltage	460V	Hz	60 Hz	Ins Cl	F	Ambient	40°C
Amps	478	RPM	1790	Design	A	DE Brng 6322 C3	
Nom.Eff.	FL	96.2%	3/4	96.2%	ODE Brng 6320 M/C3		
Class I, Division 2, Groups A, B, C, D						Grease type: Mobil Polyrex EM	