

DATA SHEET

Premium Efficiency Motor: **PEWWE40-18-324JM**

60 Hz

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



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Customer:

MOTOR INFORMATION

HP	40
RPM	1800
Phase	3
Frequency	60Hz
Voltage	230/460 V
Frame Size	324JM
Enclosure	TEFC
Degree of Protection	IP55
Service Factor	1.25
Poles	4
Full Load Speed	1775
Insulation Class	F
Temp Rise	80°C
NEMA Code Letter	G
Duty Cycle	S1 / Continuous
Slip	1.40%
NEMA Design	B
Moment of Inertia	5.74 lb.ft.^2
Locked Rotor Time (Hot)	14 seconds
Sound Pressure Level	71 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%	94.1 %	0.85
75%	94.6 %	0.82
50%	94.4 %	0.72

TORQUE

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

AMPERAGE INFORMATION

	230V	460V
Full Load Amps	93.7A	46.8A
Locked Rotor Amps	580A	290A
No Load Current	36.2A	18.1A
Usable at 208V	104A	

BEARING INFORMATION

DE Bearing	6312 C3
ODE Bearing	6311 C3
Grease Type	SKF LGHP 2
DE Regreasing Interval	4000 Hours
ODE Regreasing Interval	4000 Hours

ADDITIONAL DATA

F2 Suitable	Yes
Shaft Material	1045 Carbon Steel
Connection Diagram	230 / 460 V - 12 Lead Δ
Approximate Weight	513 lbs.

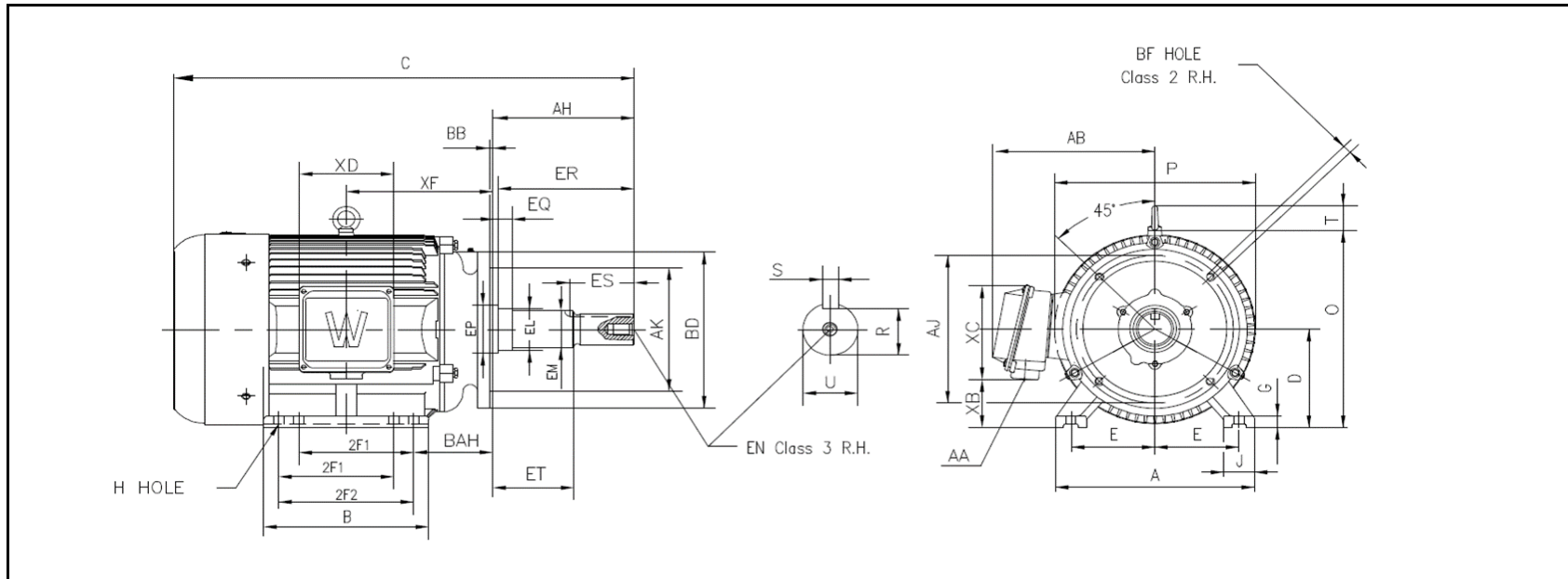
MOTOR DRAWING

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DIMENSION - INCHES

MOUNTING					A	B	C	D	G	J	P	O	T	AB
E	2F1	2F	H	BAH										
6.25	--	10.5	0.66	5.5	16	13.5	30	8	0.99	2.8	15.7	16	2.44	14.5

SHAFT & KEY												
S	ES	R	AH	EQ	ET	EM	EL	EP	ER	EN	U	
0.252	2.6	1.112	5.25	0.625	3	1.375	1.75	2.36	5.47	1/2-13	1.249	

FLANGE				
AJ	AK	BB	BD	BF
11	12.5	0.275	13.8	5/8-11

TERMINAL BOX				
AA	XB	XC	XD	XF
2	2.4	10.8	9	10.7

PERFORMANCE CURVES

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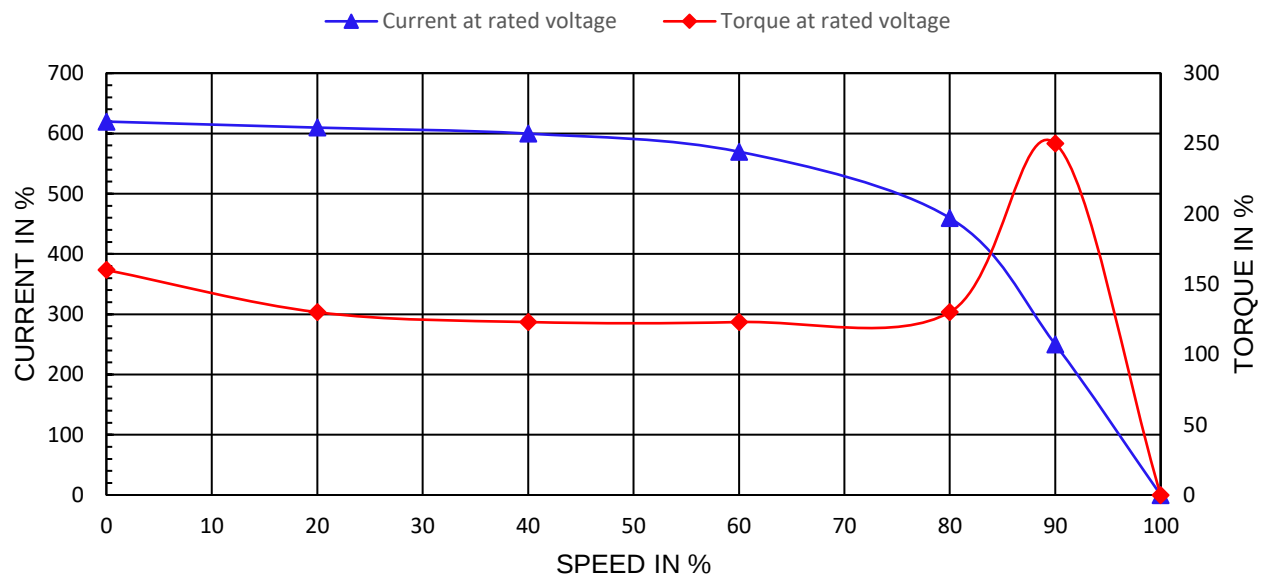
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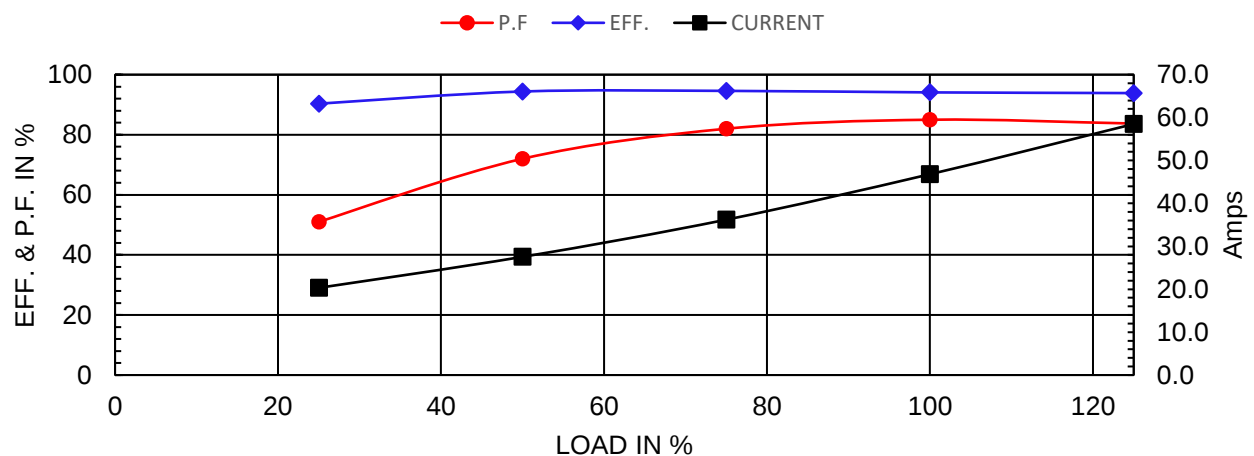
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Motor Type	PEWWE			FL Speed	1775		
Output Rating (HP)	40			LRT (%FLT)	160	460 volt FLA	46.8
Full Load Torque	118 lb.ft			BDT (%FLT)	250	230 volt FLA	93.7
Rotor Wk^2	5.74 lb-ft^2						

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 US Energy Verified	CC006A
Model			Ser No.			Low Voltage	
HP		S.F.		IP		Encl	
Frame		P.F.		Code		Type	
Voltage	230/460	Hz		Ins Cl		Rating	°C Amb Cont
Amps		RPM		Design		Date	
Nom.Eff.	FL	% 3/4		% 230/460 V	10:1 CT 20:1 VT PWM VFD	1.0SF	
				DE Brng		High Voltage	
Class I DIV. 2 Groups A B C D				Amb.40°C		ODE Brng	
Class I Zone 2 IIC				Amb.55°C		Grease type: LGHP 2 (compatible with polyrex)	
50Hz		HP		V		A	rpm
1.0SF							
WorldWide Electric Corporation							

Model	PEWWE40-18-324JM						
HP	40	S.F.	1.25	IP	IP55	Encl	TEFC
Frame	324JM	P.F.	0.85	Code	G	Type	
Voltage	230/460 V	Hz	60Hz	Ins Cl	F	Ambient	40°C
Amps	93.7/46.8	RPM	1775	Design	B	DE Brng	6312 C3
Nom.Eff.	FL	94.1%	3/4	94.6%		ODE Brng	6311 C3
						Grease type: SKF LGHP 2	
50Hz		40 HP	200/400 V	110/54.9	A	1475 rpm	