



Electrical Helper.org
For All Your Electric Needs Since 1928
411 N Platte Ave. York, NE. 68467

AC-DC MOTORS :: SALES & SERVICE
REWINDING :: CUSTOM CONTROL PANEL

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DATA SHEET

Premium Efficiency Motor: **PEWWE40-18-324TZ-GD,**

60 Hz

Document Generated: 11-Dec-2023

Document ID:

Customer:

MOTOR INFORMATION

HP	40
RPM	1800
Phase	3
Frequency	60
Voltage	230/460
Frame Size	324TZ
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 1 Division 2 Groups A,B,C,D - T3C
Inverter Rating	10:1 CT / 20:1 VT
Standard	NEMA MG-1
Approvals	CSA, CE

EFFICIENCY/POWER FACTOR

LOAD	EFF	P. F.
100%	94.1	
%	0.85941%	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	18.1

A

BEARING INFORMATION

DE Bearing	6312ZZ
ODE Bearing	C3 6311ZZ

C3

ADDITIONAL DATA

F2 Suitable	Y
Shaft Material	1045 Carbon Steel
Connection Diagram	230 / 460 V - 12 Lead Δ
Lead Length	72 inches
Approximate Weight	520 lbs.



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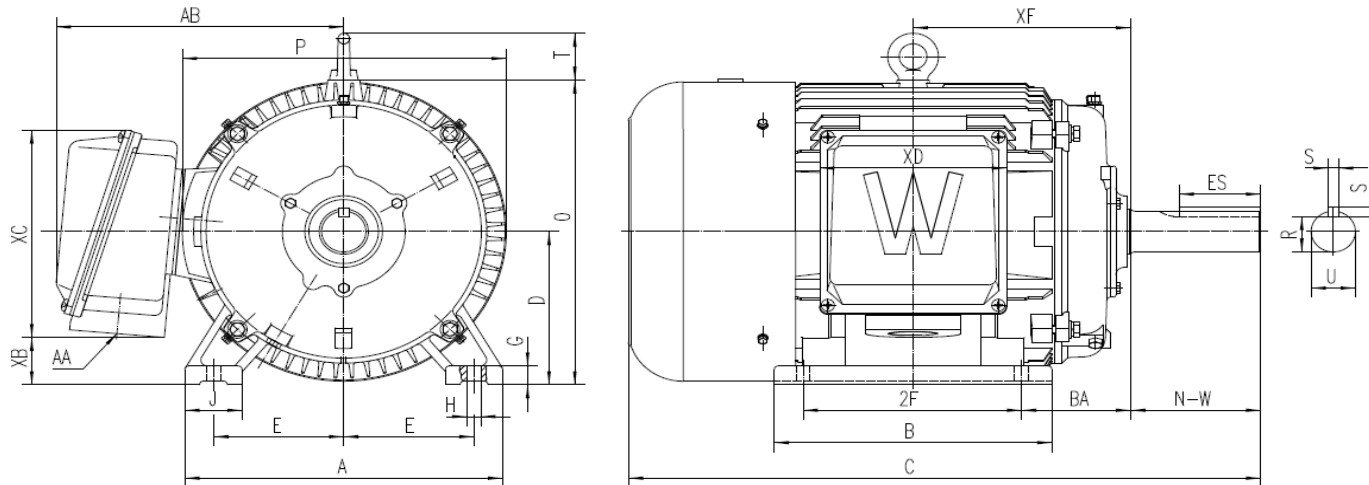
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MOTOR DRAWING

Premium Efficiency Motor: **PEWWE40-18-324TZ-GD**



DIMENSION - INCHES

MOUNTING					A	B	C	D	G	J	P	O	T	AB
E	2F1	2F2	H	BA										
6.25	--	10.5	0.66	5.25	15.276	13.346	30.392	8	0.984	2.756	15.571	15.913	2.441	13.813

SHAFT & KEY				
S	ES	R	N-W	U
0.5	3.91	1.845	6.25	2.125

TERMINAL BOX				
AA	XB	XC	XD	XE
2	2.471	10.826	8.976	10.461



PERFORMANCE CURVES

Premium Efficiency Motor:

PEWWE40-18-324TZ-GD

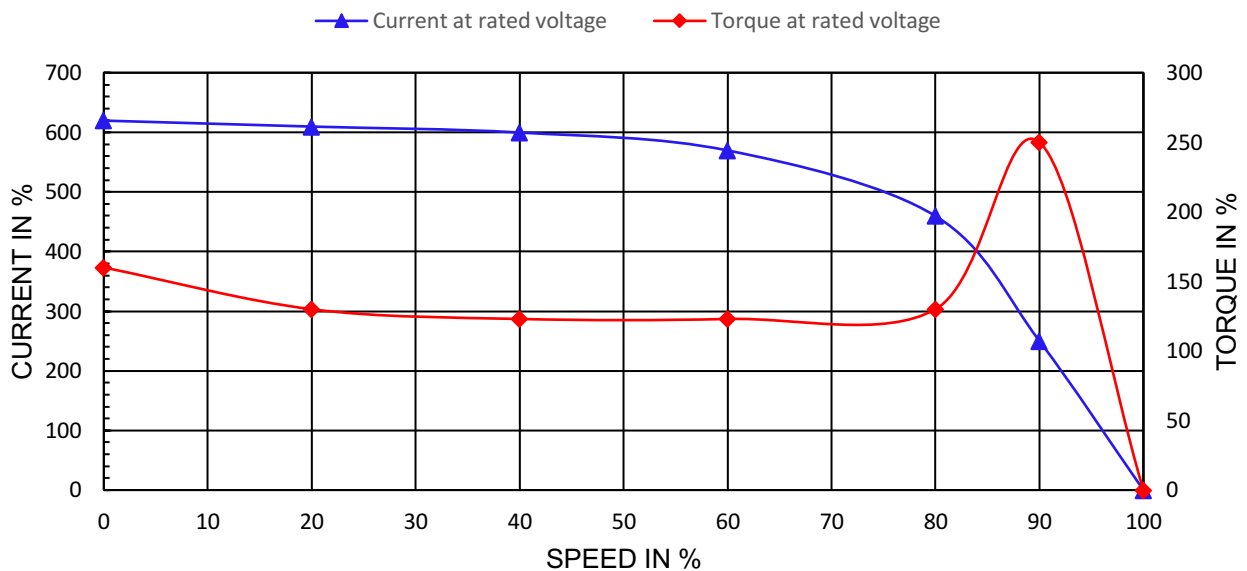
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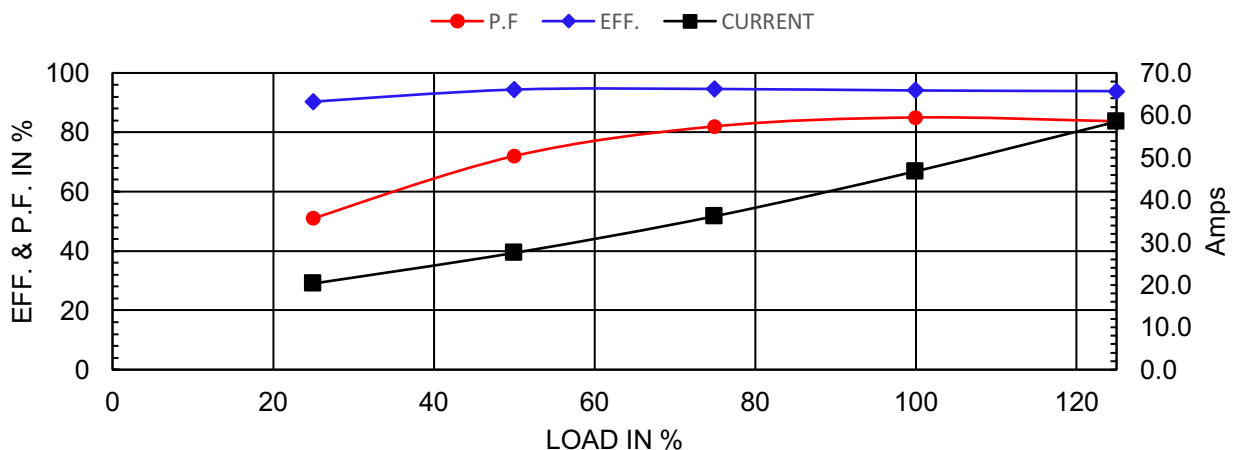
Customer:

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

SPEED VS TORQUE & CURRENT CURVE



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





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NAMEPLATE / WIRING

Premium Efficiency Motor: **PEWWE40-18-324TZ-GD**

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SAMPLE NAMEPLATE DATA

		NEMA Premium		3-PHASE INDUCTION MOTOR		259277 	CE CC006A
Model			Ser No.			Low Voltage 6 4 5 7 8 9 12 10 11 1 2 3 L1 L2 L3	
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 4 5 6 7 8 9 12 10 11 1 2 3 L1 L2 L3	
Class I DIV. 2 Groups A B C D		Amb.40°C					
Class I Zone 2 II C		Amb.55°C					
50Hz		HP		V		A	rpm 1.0SF
WorldWide Electric Corporation							

Model	PEWWE40-18-324TZ-GD						
HP	40	S.F.	1.25	IP	IP55	Encl	TEFC
Frame	324TZ	P.F.	0.85	Code	G	Type	BJPE
Voltage	230/460	Hz	60	Ins Cl	F	Rating	40°C
Amps	93.7/46.8	RPM	1775	Design	B	DE Brng	6312ZZ
C3 Nom.Eff.	94.1%	3/4 Eff	94.6%			ODE Brng	6311ZZ C3

50Hz			
HP	40	Volts	200/400
		200V	
	FLA	110A	RPM
	400V FLA	54.9	1475