



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: **PEWWE15-18-254TZ-GD,**

60 Hz

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Customer:

MOTOR INFORMATION

HP	15
RPM	1800
Phase	3
Frequency	60
Voltage	230/460
Frame Size	254TZ
Enclosure	TEFC
Degree of Protection	IP55
Service Factor	1.25
Poles	4
Full Load Speed	1765
Insulation Class	F
Temp Rise	80°C
NEMA Code Letter	G
Duty Cycle	S1 / Continuous
Slip	1.94%
NEMA Design	B
Moment of Inertia	1.73 lb.ft.^2
Locked Rotor Time (Hot)	20 seconds
Sound Pressure Level	67 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%	92.4 %	0.84
75%	92.7 %	0.79
50%	91.9 %	0.69

TORQUE

FULL LOAD	LRT	BDT
44.6 lb.ft.	170 %	390 %

AMPERAGE INFORMATION

	230V	460V
Full Load Amps	36.2A	18.1A
Locked Rotor Amps	116A	232A
No Load Current	15A	7.5A

BEARING INFORMATION

DE Bearing	6309ZZ C3
ODE Bearing	6209ZZ C3

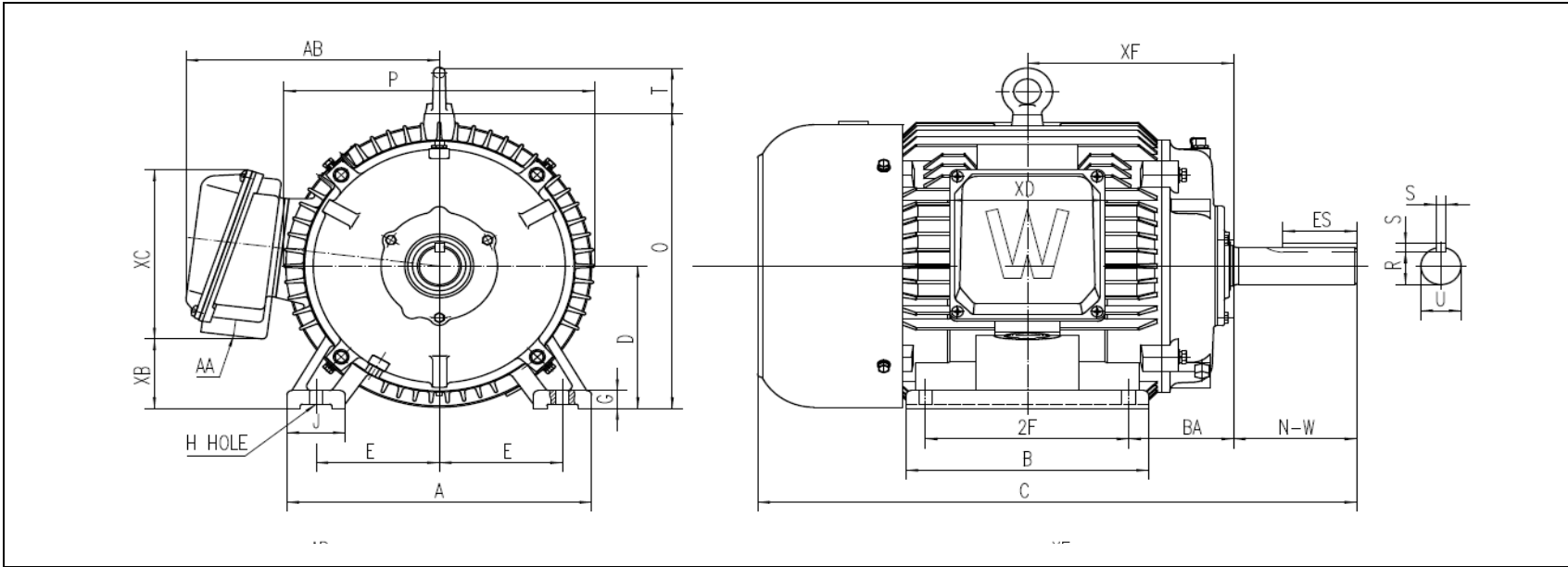
ADDITIONAL DATA

F2 Suitable	Y
Shaft Material	1045 Carbon Steel
Connection Diagram	230 / 460 V - 9 Lead Δ
Lead Length	72 inches
Approximate Weight	256 lbs.



MOTOR DRAWING

Premium Efficiency Motor: **PEWWE15-18-254TZ-GD**



DIMENSION - INCHES

MOUNTING					A	B	C	D	G	J	P	O	T	AB
E	2F1	2F2	H	BA										
5	--	8.25	0.53	4.25	12.362	9.843	24.309	6.25	0.787	2.362	12.598	12.894	2.006	10.276

SHAFT & KEY				
S	ES	R	N-W	U
0.375	2.91	1.416	5	1.625

TERMINAL BOX				
AA	XB	XC	XD	XE
1-1/2	3.047	7.406	6.299	8.364



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PERFORMANCE CURVES

Premium Efficiency Motor:

PEWWE15-18-254TZ-GD

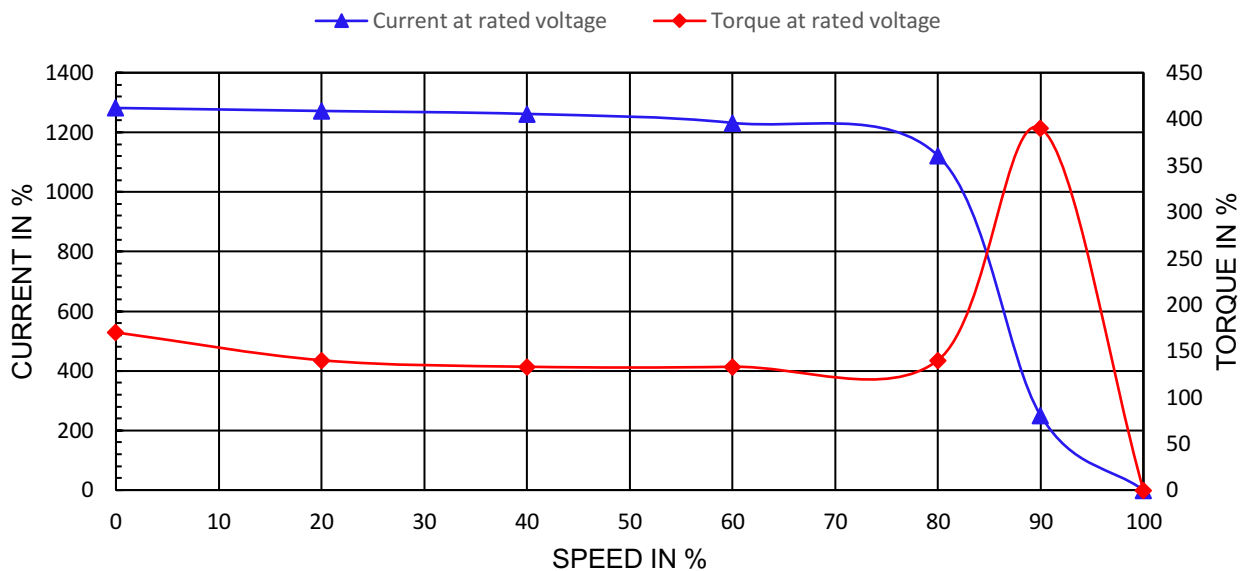
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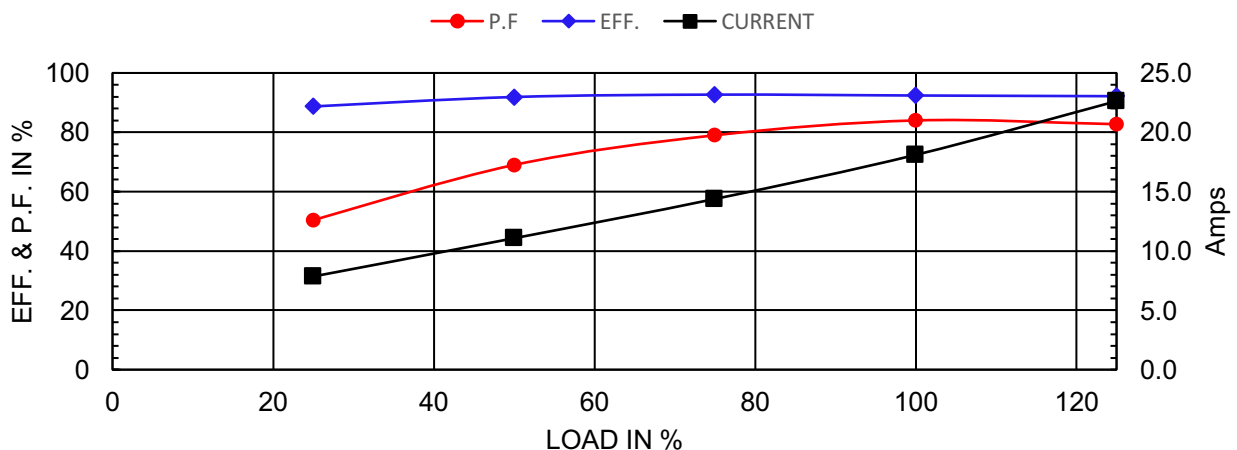
Customer:

Motor Type	PEWWE				
Output Rating (HP)	15		FL Speed	1765	
Full Load Torque	44.6	lb.ft	LRT (%FLT)	170	460 volt FLA 18.1
Rotor Wk^2	1.73	lb-ft^2	BDT (%FLT)	390	230 volt FLA 36.2

SPEED VS TORQUE & CURRENT CURVE



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





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NAMEPLATE / WIRING

Premium Efficiency Motor: **PEWWE15-18-254TZ-GD**

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SAMPLE NAMEPLATE DATA

		NEMA Premium		3-PHASE INDUCTION MOTOR		259277				CE		CC006A			
Model				Ser No.				Low Voltage							
HP		S.F.		IP		Encl		6	4	5					
Frame		P.F.		Code		Type		7	8	9					
Voltage	230/460	Hz		Ins Cl		Rating	°C Amb Cont	1	2	3	L1	L2	L3		
Amps		RPM		Design		Date		High Voltage							
Nom.Eff.	FL	% 3/4	%	230/460V	10:1 CT	20:1 VT	PWM VFD	1.0SF	4	5	6				
				DE Brng				7	8	9					
Class I DIV. 2 Groups A B C D				Amb.40°C	T3C(160°C)	ODE Brng				1	2	3	L1	L2	L3
Class I Zone 2 IIC				Amb.55°C	T3A(180°C)	Grease type:									
50Hz HP V A rpm S.F.1.0															
WorldWide Electric Corporation															

Model	PEWWE15-18-254TZ-GD						
HP	15	S.F.	1.25	IP	IP55	Encl	TEFC
Frame	254TZ	P.F.	0.84	Code	G	Type	BJPE
Voltage	230/460	Hz	60	Ins Cl	F	Rating	40°C
Amps	36.2/18.1	RPM	1765	Design	B	DE Brng	6309ZZ C3
Nom.Eff.	92.4%	3/4 Eff	92.7%			ODE Brng	6209ZZ C3

50Hz							
HP	15	Volts	200/400	200V FLA	42.8A	RPM	1460
				400V FLA	21.4		