

**Electrical Helper.org**For All Your Electric Needs Since 1928
411 N Platte Ave. York, NE. 68467AC-DC MOTORS :: SALES & SERVICE
REWINDING :: CUSTOM CONTROL PANEL

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**WorldWide**
ELECTRIC CORPORATION

DATA SHEET

Premium Efficiency Motor: **PEWWE7.5-18-213TZ-GD,****60 Hz**

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Customer:

MOTOR INFORMATION

HP	7.5
RPM	1800
Phase	3
Frequency	60
Voltage	230/460
Frame Size	213TZ
Enclosure	TEFC
Degree of Protection	IP55
Service Factor	1.25
Poles	4
Full Load Speed	1760
Insulation Class	F
Temp Rise	80°C
NEMA Code Letter	H
Duty Cycle	S1 / Continuous
Slip	2.22%
NEMA Design	B
Moment of Inertia	0.652 lb.ft.^2
Locked Rotor Time (Hot)	12 seconds
Sound Pressure Level	63 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%	91.7	
%	0.8395%	0.7
50%	8	
	91.2 %	0.67

TORQUE

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

AMPERAGE INFORMATION

	230V	460V
Full Load Amps	18.5A	9.23
Locked Rotor Amps	A	
No Load Current	127A	63.5
	A 8A	4A

BEARING INFORMATION

DE Bearing	6308ZZ
ODE Bearing	C3
	6207ZZ
	C3

ADDITIONAL DATA

F2 Suitable	N
Shaft Material	1045 Carbon Steel
Connection Diagram	230 / 460 V - 9 Lead
Lead Length	Δ
Approximate Weight	72 inches 159 lbs.



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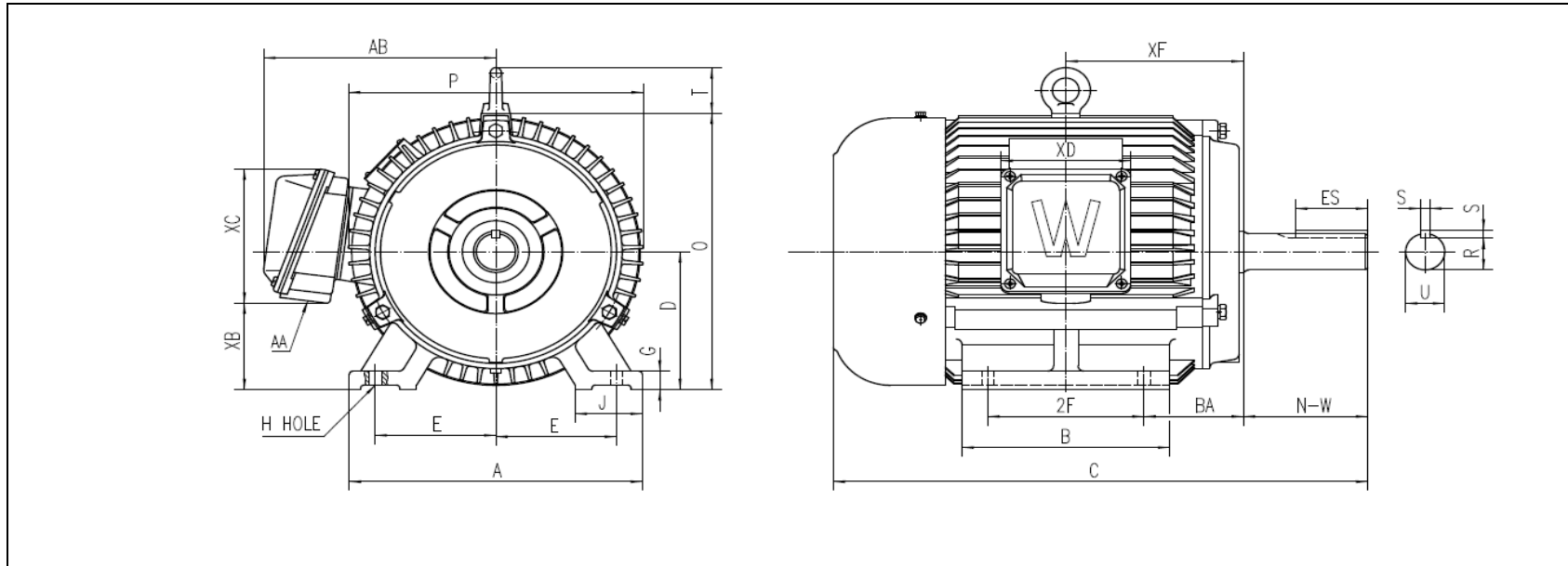
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MOTOR DRAWING

Premium Efficiency Motor: **PEWWE7.5-18-213TZ-GD**



DIMENSION - INCHES

MOUNTING					A	B	C	D	G	J	P	O	T	AB
E	2F1	2F2	H	BA										
4.25	5.5	--	0.41	3.5	10.315	7.323	18.823	5.25	0.709	2.362	10.389	10.526	1.732	8.178

SHAFT & KEY				
S	ES	R	N-W	U
0.312	2.41	1.201	4.38	1.375

TERMINAL BOX				
AA	XB	XC	XD	XE
1	3.296	5.098	4.567	6.254



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PERFORMANCE CURVES

Premium Efficiency Motor:

PEWWE7.5-18-213TZ-GD

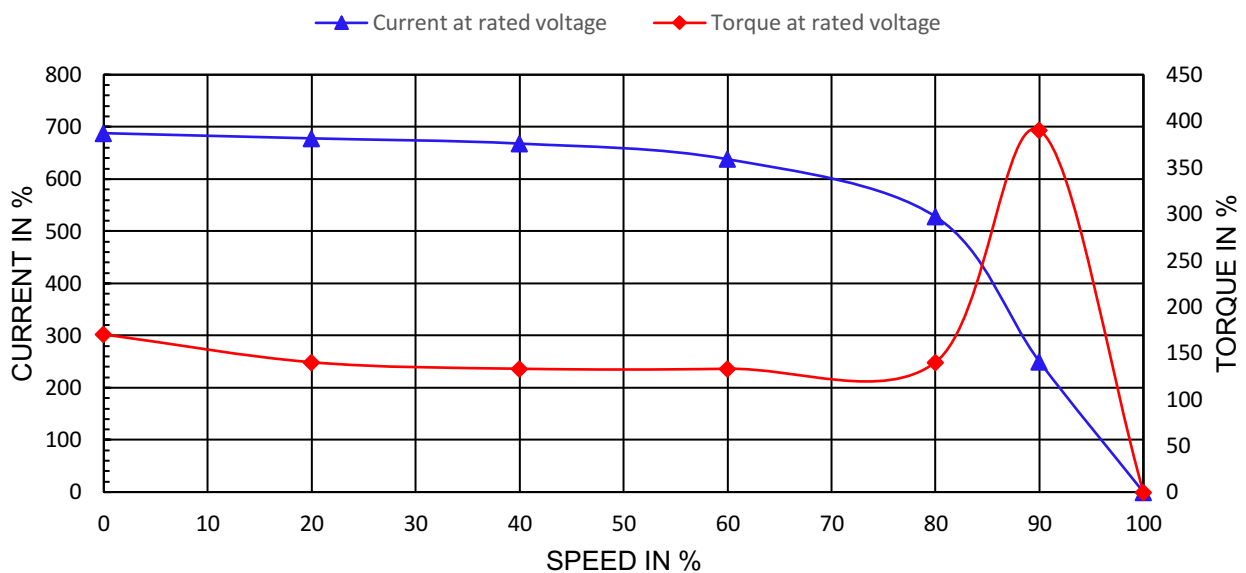
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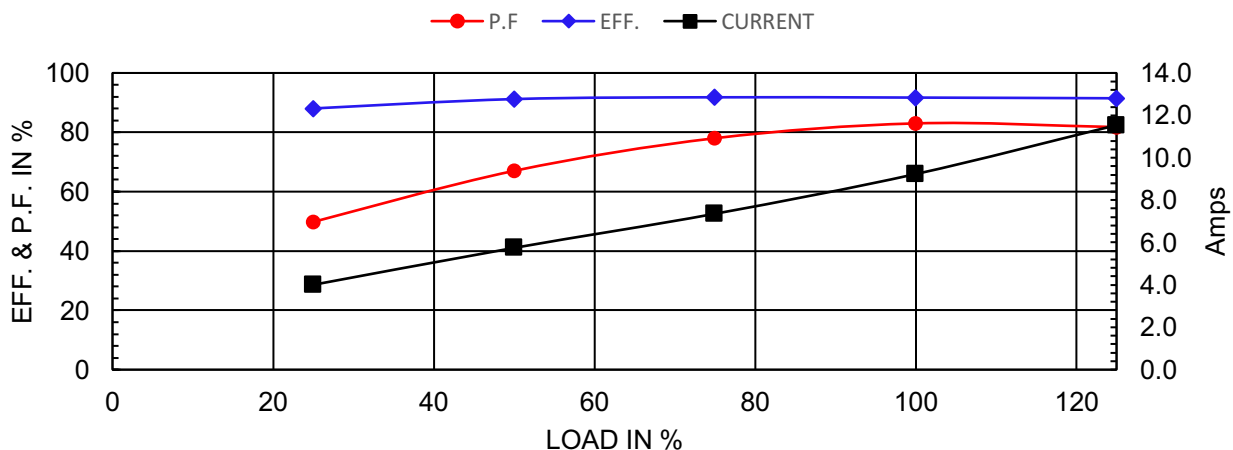
Customer:

Motor Type	PEWWE				
Output Rating (HP)	7.5		FL Speed	1760	
Full Load Torque	22.4	lb.ft	LRT (%FLT)	170	460 volt FLA 9.23
Rotor Wk^2	0.652	lb-ft^2	BDT (%FLT)	390	230 volt FLA 18.5

SPEED VS TORQUE & CURRENT CURVE



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





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NAMEPLATE / WIRING

Premium Efficiency Motor: **PEWWE7.5-18-213TZ-GD**

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SAMPLE NAMEPLATE DATA

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

Model	PEWWE7.5-18-213TZ-GD						
HP	7.5	S.F.	1.25	I	IP55	Encl	TEFC
Prame	213TZ	P.F.	0.83	Code	H	Type	BJPE
Voltage	230/460	Hz	60	Ins Cl	F	Rating	40°C
Amps	18.5/9.23	RPM	1760	Design	B	DE Brng	6308ZZ
C3 Nom.Eff.	91.7%	3/4 Eff	91.8%			ODE Brng	6207ZZ C3

50Hz							
HP	7.5	Volts	200/400	200V			
				FLA	22.2A	RPM	1455
				400V FLA	11.1		