

DATA SHEET

Premium Efficiency Motor: **PEWWE10-18-215TC**

60 Hz

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



Document Generated: 14-Oct-2024
Document ID:

Customer:

MOTOR INFORMATION

HP	10
RPM	1800
Phase	3
Frequency	60 Hz
Voltage	230/460 V
Frame Size	215TC
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	0.75 lb.ft.^2
Locked Rotor Time (Hot)	13 seconds
Sound Pressure Level	64 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(160°C)
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%	91.7 %	0.84
75%	91.9 %	0.79
50%	91.6 %	0.69

TORQUE

FULL LOAD	LRT	BDT
29.8 lb.ft.	170 %	280 %

AMPERAGE INFORMATION

	230V	460V
Full Load Amps	24.3A	12.2A
Locked Rotor Amps	162A	81A
No Load Current	10A	5A
Usable at 208V	26.9A	

BEARING INFORMATION

DE Bearing	6308ZZ C3
ODE Bearing	6207ZZ C3
Grease Type	--
DE Regreasing Interval	- Hours
ODE Regreasing Interval	- Hours

ADDITIONAL DATA

F2 Suitable	No
Shaft Material	1045 Carbon Steel
Connection Diagram	230 / 460 V - 9 Lead Δ
Approximate Weight	179 lbs.

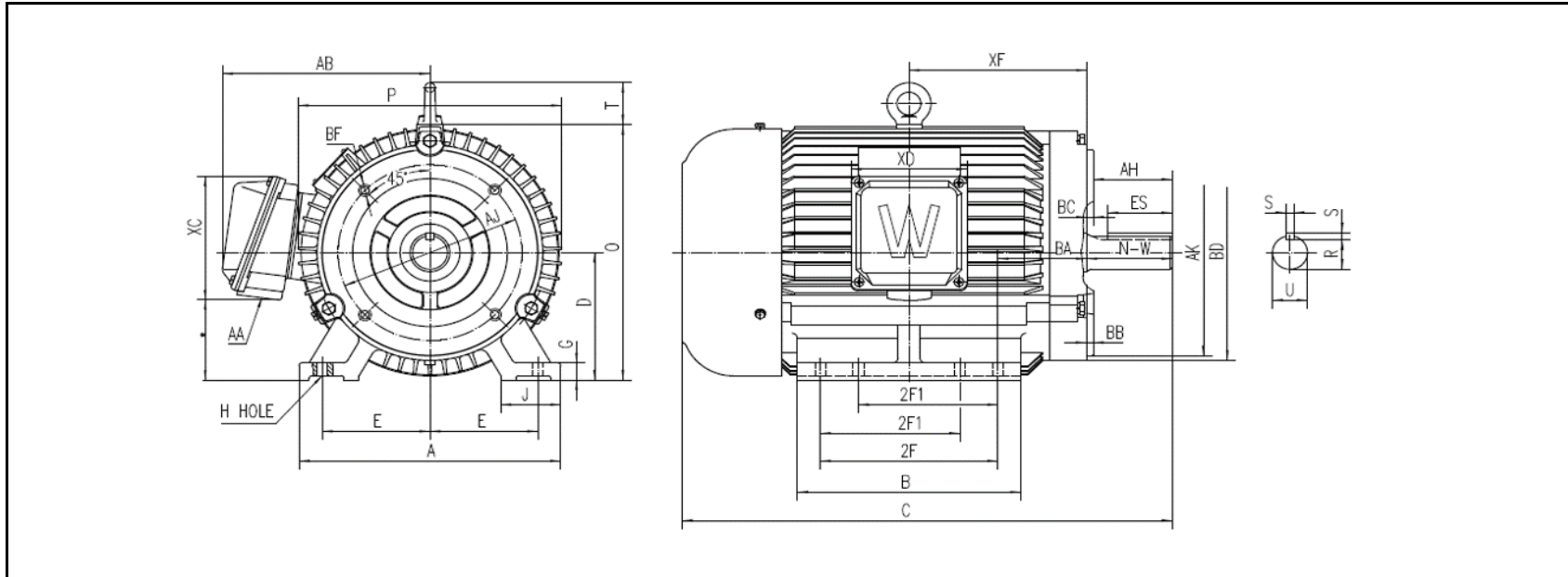
MOTOR DRAWING

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DIMENSION - INCHES

MOUNTING					A	B	C	D	G	J	P	O	T	AB
E	2F1	2F	H	BA										
4.25	5.5	7	0.41	3.5	10.315	8.819	19.319	5.25	0.709	2.362	10.389	10.526	1.732	8.178

SHAFT & KEY					
S	ES	R	N-W	AH	U
0.312	2.41	1.201	3.38	3.12	1.375

TERMINAL BOX				
AA	XB	XC	XD	XF
1	3.296	5.098	4.567	7.002

FLANGE					
AJ	AK	BB	BD	BF	BC
7.25	8.5	0.25	8.898	1/2-13	0.25

PERFORMANCE CURVES

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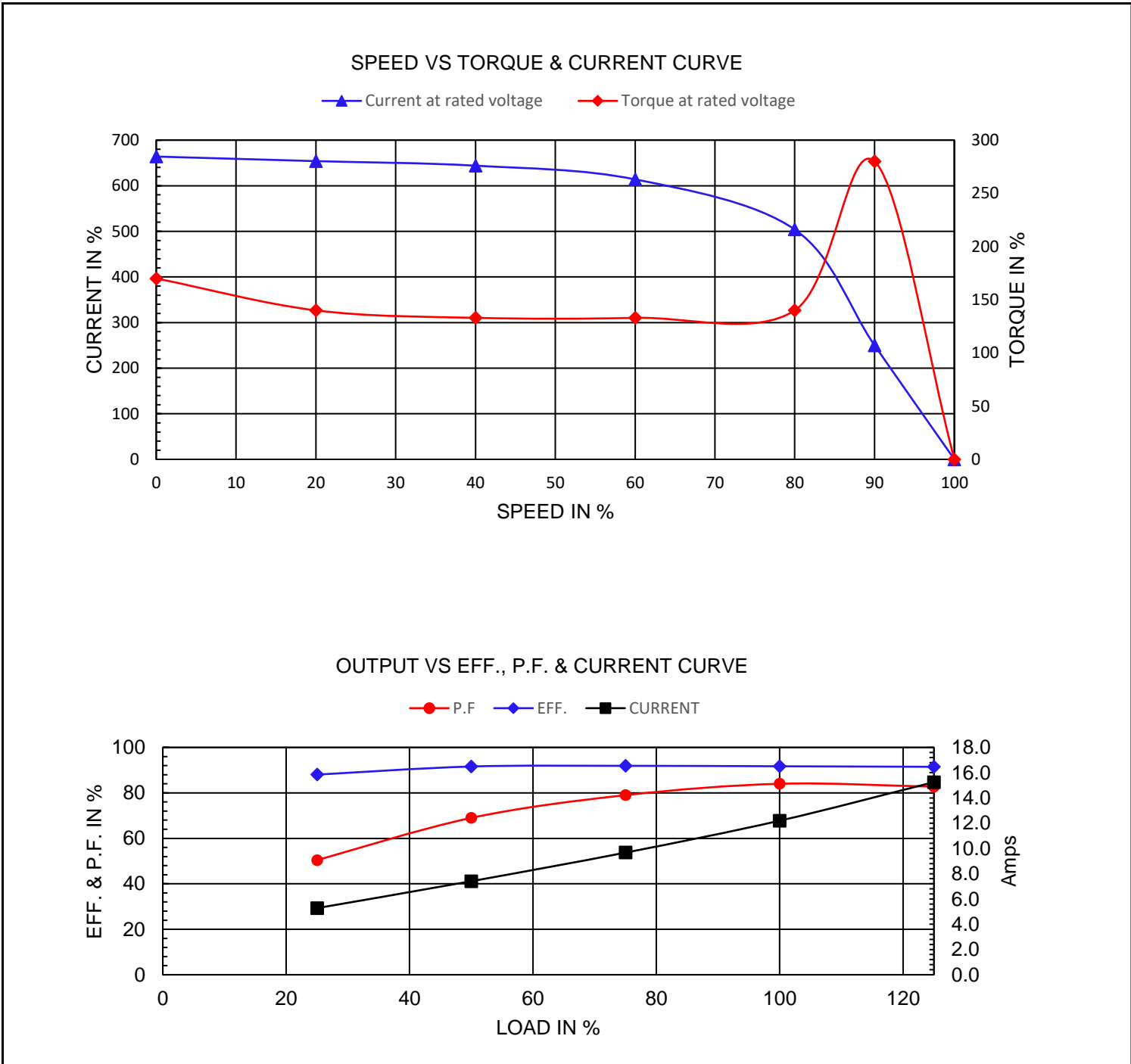
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Motor Type	PEWWE		FL Speed	1760	
Output Rating (HP)	10		LRT (%FLT)	170	460 volt FLA 12.2
Full Load Torque	29.8	lb.ft	BDT (%FLT)	280	230 volt FLA 24.3
Rotor Wk ²	0.75	lb-ft ²			



NAMEPLATE / WIRING

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ELECTRIC CORPORATION

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SAMPLE NAMEPLATE DATA

		3-PHASE INDUCTION MOTOR		259277 	
Model	<input type="text"/>	Ser No.	<input type="text"/>	Low Voltage 50Hz 1.0SF HP % V A rpm	
HP	<input type="text"/>	S.F.	<input type="text"/>	Rating	<input type="text"/> °C Amb Cont
Frame	<input type="text"/>	P.F.	<input type="text"/>	IP	<input type="text"/>
Voltage	<input type="text"/>	Hz	<input type="text"/>	Code	<input type="text"/>
Amps	<input type="text"/>	RPM	<input type="text"/>	Ins Cl	<input type="text"/>
Nom.Eff.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Class I DIV. 2 Groups A B C D Class I Zone 2 IIC		Amb.40°C Amb.55°C	T3C(160°C) T3A(180°C)	10:1 CT 20:1 VT PWM VFD 1.0SF Date	
Grease type:		DE Brng ODE Brng			
WorldWide Electric Corporation					

Model	<input type="text" value="PEWWE10-18-215TC"/>				
HP	<input type="text" value="10"/>	S.F.	<input type="text" value="1.25"/>	IP	<input type="text" value="IP55"/>
Frame	<input type="text" value="215TC"/>	P.F.	<input type="text" value="0.84"/>	Code	<input type="text" value="H"/>
Voltage	<input type="text" value="230/460 V"/>	Hz	<input type="text" value="60 Hz"/>	Ins Cl	<input type="text" value="F"/>
Amps	<input type="text" value="24.3/12.2"/>	RPM	<input type="text" value="1760"/>	Design	<input type="text" value="B"/>
Nom.Eff.	<input type="text" value="FL 91.7% 3/4 91.9%"/>	DE Brng <input type="text" value="6308ZZ C3"/> ODE Brng <input type="text" value="6207ZZ C3"/>		Grease type: <input type="text" value="--"/>	
Class 1 Division 2 Groups A,B,C,D		T3C(160°C)			
50Hz					
<input type="text" value="10 HP"/>		<input type="text" value="200/400 V"/>		<input type="text" value="28.9/14 A"/>	
<input type="text" value="1455 rpm"/>					
<input type="text" value="Eff. 88.7%"/>					