

DATA SHEET

Premium Efficiency Motor: **PEWWE7.5-18-213JM**

60 Hz

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



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Document ID:

Customer:

MOTOR INFORMATION

HP	7.5
RPM	1800
Phase	3
Frequency	60 Hz
Voltage	230/460 V
Frame Size	213JM
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 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%	91.7 %	0.83
75%	91.8 %	0.78
50%	91.2 %	0.67

TORQUE

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

AMPERAGE INFORMATION

	230V	460V
Full Load Amps	18.5A	9.23A
Locked Rotor Amps	127A	63.5A
No Load Current	8A	4A
Usable at 208V	20.4A	

BEARING INFORMATION

DE Bearing	6309ZZ 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 Y
Approximate Weight	158 lbs.

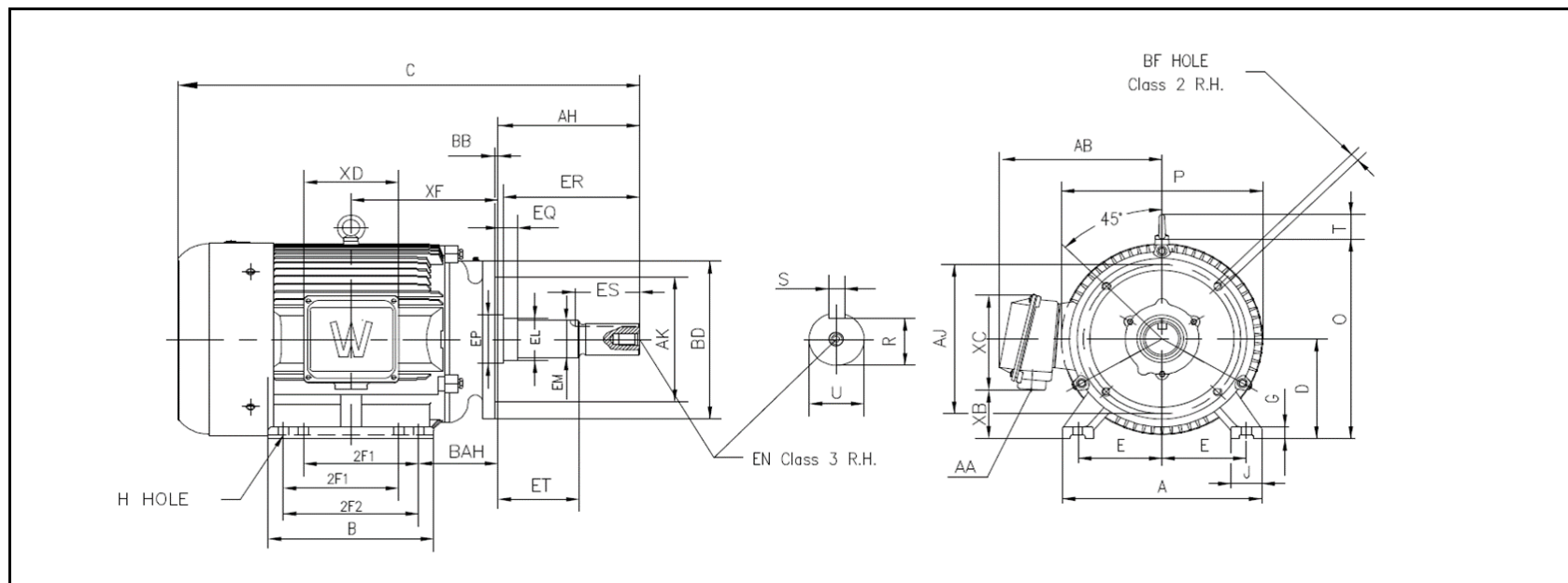
MOTOR DRAWING

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DIMENSION - INCHES

MOUNTING					A	B	C	D	G	J	P	O	T	AB
E	2F1	2F	H	BAH										
4.25	--	5.5	0.41	4.5	10.5	7.5	20	5.25	0.71	2.4	10.4	10.6	1.73	8.5

SHAFT & KEY												
S	ES	R	AH	EQ	ET	EM	EL	EP	ER	EN	U	
0.188	1.732	0.77	4.25	0.625	2.875	1	1.25	1.772	4.5	3/8-16	0.874	

FLANGE				
AJ	AK	BB	BD	BF
7.25	8.5	0.275	8.9	1/2-13

TERMINAL BOX				
AA	XB	XC	XD	XF
1	3.3	5.1	4.6	7.25

PERFORMANCE CURVES

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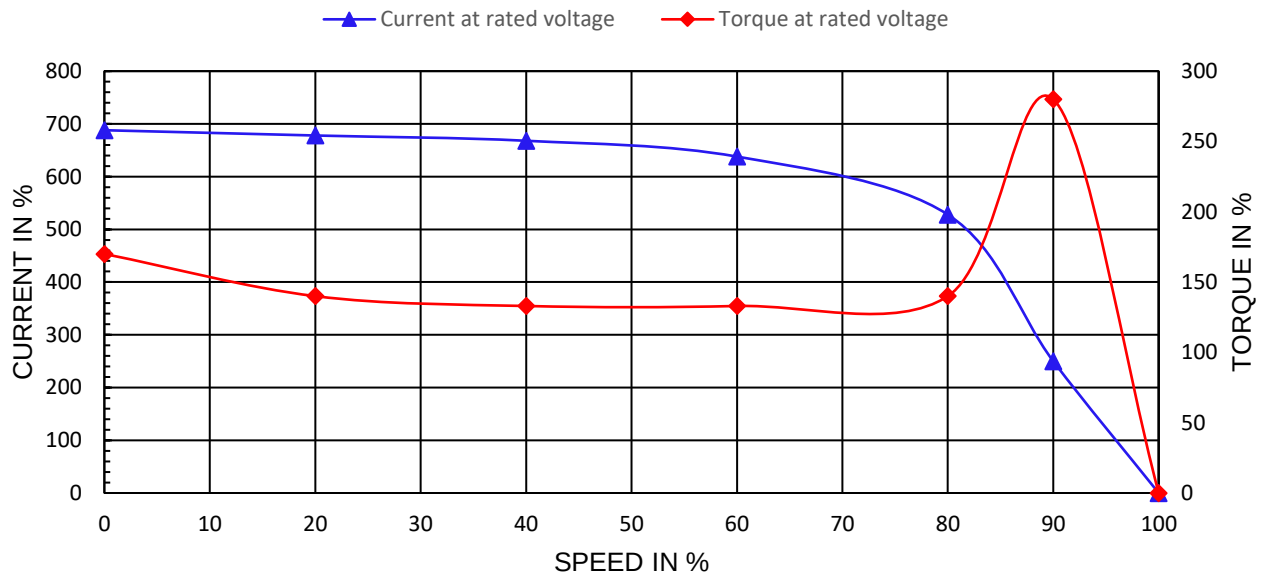
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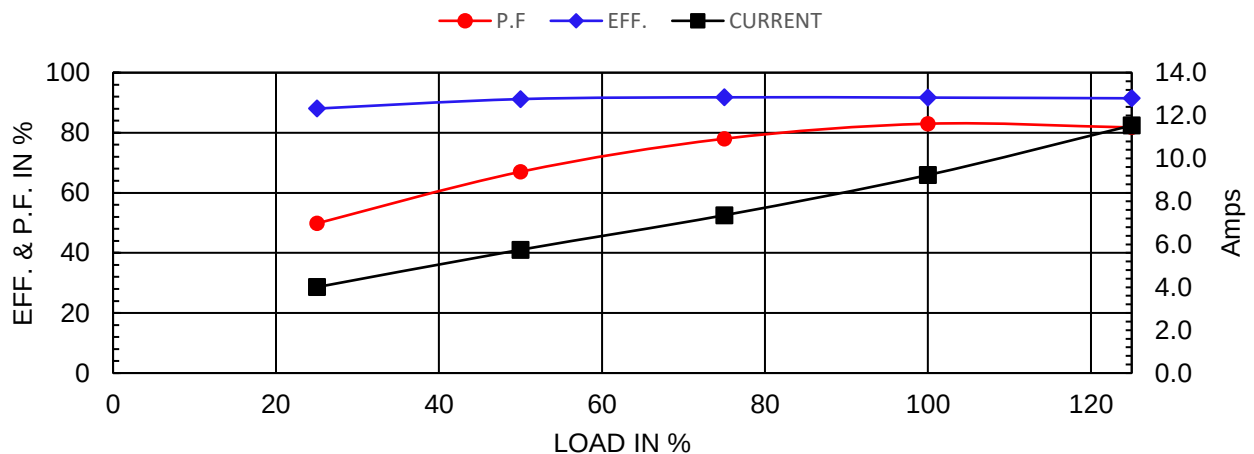
Customer:

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)	280	230 volt FLA 18.5

SPEED VS TORQUE & CURRENT CURVE



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



NAMEPLATE / WIRING

Premium Efficiency Motor:

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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		<table border="1"> <tr><td>4</td><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td><td>9</td></tr> <tr><td>1</td><td>2</td><td>3</td></tr> <tr><td>L1</td><td>L2</td><td>L3</td></tr> </table>		4	5	6	7	8	9	1	2	3	L1	L2	L3
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L1	L2	L3																			
Frame		P.F.		Code		Type		<table border="1"> <tr><td>4</td><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td><td>9</td></tr> <tr><td>1</td><td>2</td><td>3</td></tr> <tr><td>L1</td><td>L2</td><td>L3</td></tr> </table>		4	5	6	7	8	9	1	2	3	L1	L2	L3
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Voltage	230/460	Hz		Ins Cl		Rating	°C Amb Cont	<table border="1"> <tr><td>4</td><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td><td>9</td></tr> <tr><td>1</td><td>2</td><td>3</td></tr> <tr><td>L1</td><td>L2</td><td>L3</td></tr> </table>		4	5	6	7	8	9	1	2	3	L1	L2	L3
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1	2	3																			
L1	L2	L3																			
Amps		RPM		Design		Date															
Nom.Eff.	FL	% 3/4	%	230/460V	10:1 CT 20:1 VT PWM VFD	1.0SF															
				DE Brng																	
Class I DIV. 2 Groups A B C D				Amb.40°C		T3C(160°C)		ODE Brng													
Class I Zone 2 II C				Amb.55°C		T3A(180°C)		Grease type:													
50Hz HP V A rpm S.F1.0																					
WorldWide Electric Corporation																					

Model	PEWWE7.5-18-213JM						
HP	7.5	S.F.	1.25	IP	IP55	Encl	TEFC
Frame	213JM	P.F.	0.83	Code	H	Type	
Voltage	230/460 V	Hz	60 Hz	Ins Cl	F	Ambient	40°C
Amps	18.5/9.23	RPM	1760	Design	B	DE Brng	6309ZZ C3
Nom.Eff.	FL	91.7%	3/4	91.8%		ODE Brng	6207ZZ C3
						Grease type:	--
50Hz 7.5 HP 200/400 V 22.2/11.1 A 1455 rpm							