

DATA SHEET

Premium Efficiency Motor: **PEWWE1.5-18-145JM**

60 Hz

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



Document Generated: 16-Feb-2023
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Customer:

MOTOR INFORMATION	
HP	1.5
RPM	1800
Phase	3
Frequency	60 Hz
Voltage	230/460 V
Frame Size	145JM
Enclosure	TEFC
Degree of Protection	IP55
Service Factor	1.25
Poles	4
Full Load Speed	1755
Insulation Class	F
Temp Rise	80°C
NEMA Code Letter	M
Duty Cycle	S1 / Continuous
Slip	2.50%
NEMA Design	B
Moment of Inertia	0.0908 lb.ft.^2
Locked Rotor Time (Hot)	14 seconds
Sound Pressure Level	60 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%	86.5 %	0.73
75%	86.2 %	0.63
50%	83.2 %	0.49

TORQUE		
FULL LOAD	LRT	BDT
4.49 lb.ft.	280 %	390 %

AMPERAGE INFORMATION		
	230V	460V
Full Load Amps	4.45A	2.22A
Locked Rotor Amps	40A	20A
No Load Current	2.98A	1.49A
Usable at 208V	4.92A	

BEARING INFORMATION	
DE Bearing	6206ZZ C3
ODE Bearing	6205ZZ C3
Grease Type	--
DE Regreasing Interval	- Hours
ODE Regreasing Interval	- Hours

ADDITIONAL DATA	
F2 Suitable	Yes
Shaft Material	1045 Carbon Steel
Connection Diagram	230 / 460 V - 9 Lead Y
Approximate Weight	52.6 lbs.

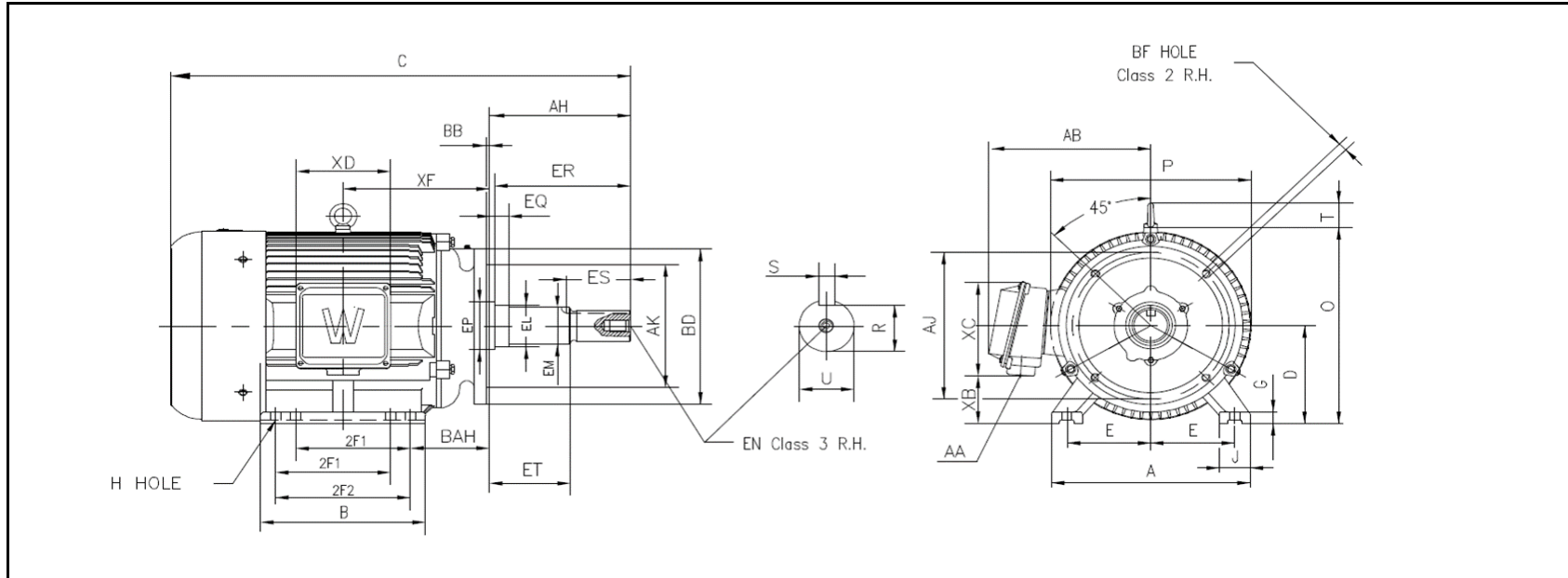
MOTOR DRAWING

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DIMENSION - INCHES

MOUNTING					A	B	C	D	G	J	P	O	T	AB
E	2F1	2F	H	BAH										
2.75	4	5	0.34	2.87	7	6.6	16	3.5	0.43	1	7.8	7.6	1.42	6.7

SHAFT & KEY												
S	ES	R	AH	EQ	ET	EM	EL	EP	ER	EN	U	
0.188	1.65	0.768	4.25	0.625	2.875	1	1.155	1.181	4.37	3/8-16	0.874	

FLANGE				
AJ	AK	BB	BD	BF
5.875	4.5	0.156	6.6	3/8-16

TERMINAL BOX				
AA	XB	XC	XD	XF
3/4	1.6	4.6	4.1	5.37

PERFORMANCE CURVES

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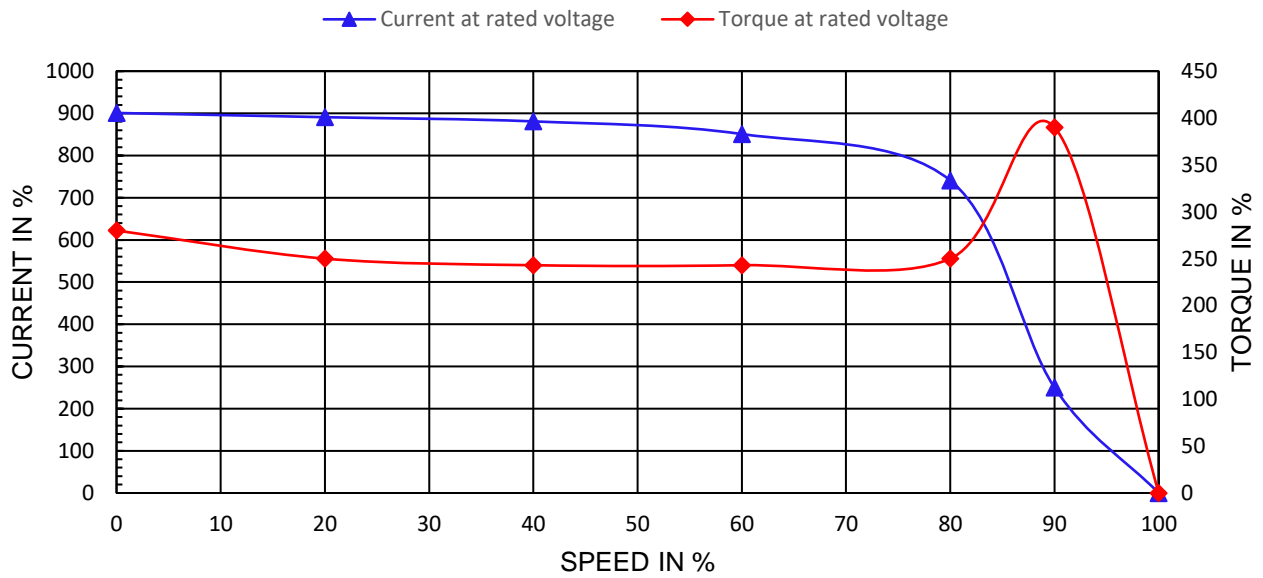
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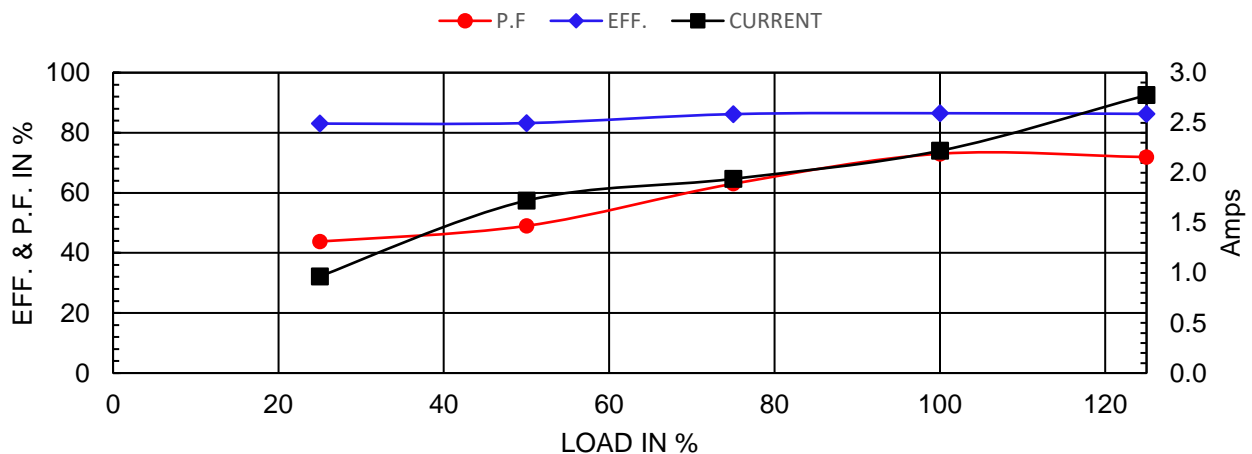
Customer:

Motor Type	PEWWE		FL Speed	1755		
Output Rating (HP)	1.5		LRT (%FLT)	280	460 volt FLA	2.22
Full Load Torque	4.49	lb.ft	BDT (%FLT)	390	230 volt FLA	4.45
Rotor Wk^2	0.0908	lb-ft^2				

SPEED VS TORQUE & CURRENT CURVE



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



NAMEPLATE / WIRING

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WORLDWIDE
ELECTRIC CORPORATION

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SAMPLE NAMEPLATE DATA

		NEMA Premium		3-PHASE INDUCTION MOTOR		259277			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
4	5	6																			
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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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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.F1.0															
WorldWide Electric Corporation																					

Model	PEWWE1.5-18-145JM								
HP	1.5	S.F.	1.25	IP	IP55	Encl	TEFC		
Frame	145JM	P.F.	0.73	Code	M	Type			
Voltage	230/460 V	Hz	60 Hz	Ins Cl	F	Ambient	40°C		
Amps	4.45/2.22	RPM	1755	Design	B	DE Brng	6206ZZ C3		
Nom.Eff.	FL	86.5%	3/4	86.2%		ODE Brng	6205ZZ C3		
						Grease type:	--		
50Hz		1.5 HP	200/400 V	5.44/2.72 A	1450 rpm				