

DATA SHEET

Premium Efficiency Motor: **PEWWE2-36-145JM**

60 Hz

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



Document Generated: 16-Feb-2023

Document ID:

Customer:

MOTOR INFORMATION

HP	2
RPM	3600
Phase	3
Frequency	60 Hz
Voltage	230/460 V
Frame Size	145JM
Enclosure	TEFC
Degree of Protection	IP55
Service Factor	1.25
Poles	2
Full Load Speed	3495
Insulation Class	F
Temp Rise	80°C
NEMA Code Letter	L
Duty Cycle	S1 / Continuous
Slip	2.92%
NEMA Design	B
Moment of Inertia	0.0483 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%	85.5 %	0.8
75%	85.0 %	0.71
50%	82.5 %	0.58

TORQUE

FULL LOAD	LRT	BDT
3.01 lb.ft.	230 %	340 %

AMPERAGE INFORMATION

	230V	460V
Full Load Amps	5.48A	2.74A
Locked Rotor Amps	50A	25A
No Load Current	3.2A	1.6A
Usable at 208V	6.05A	

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	49.7 lbs.

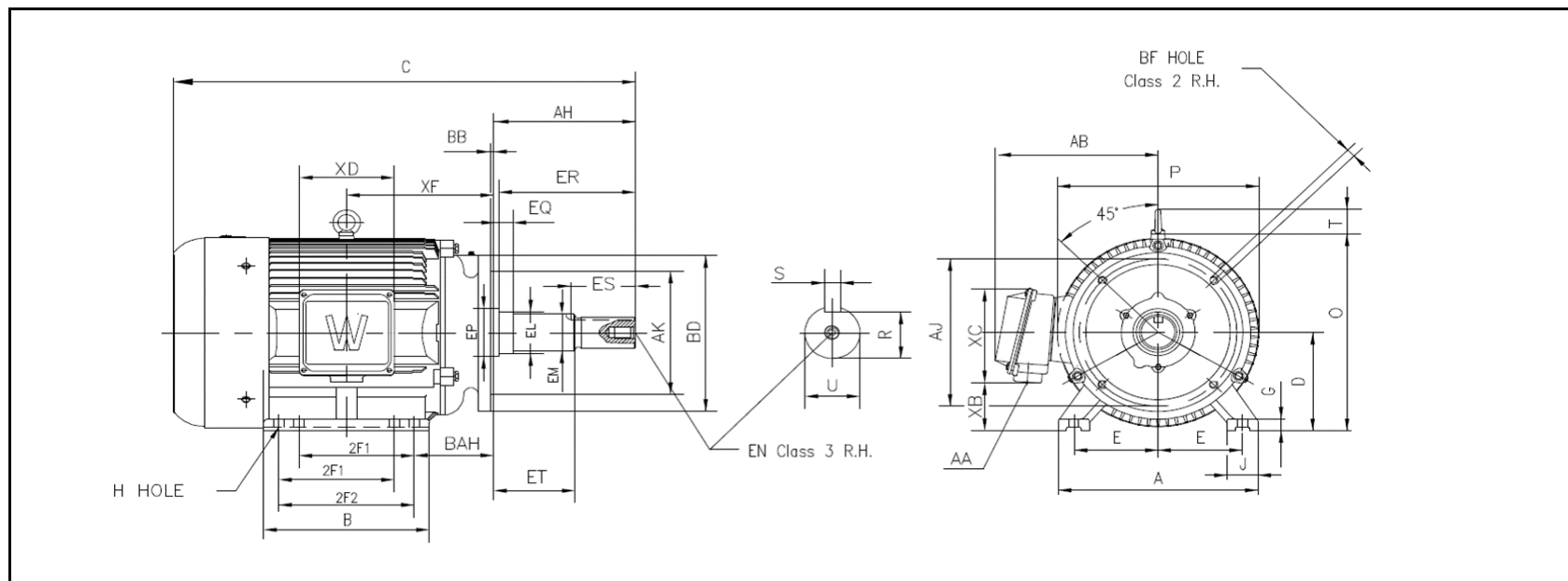
MOTOR DRAWING

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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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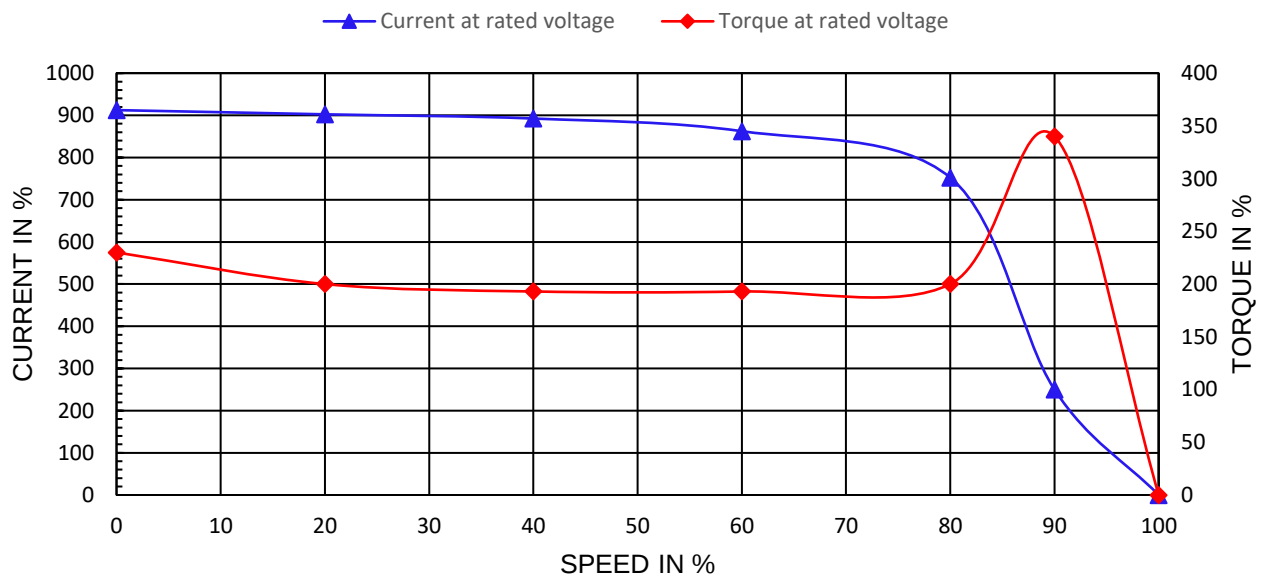
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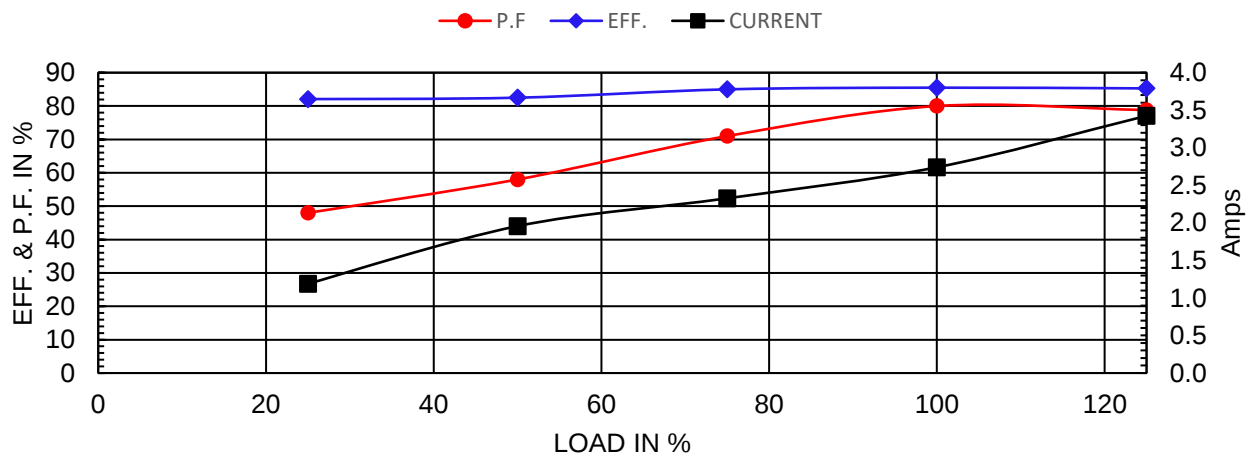
Customer:

Motor Type	PEWWE		FL Speed	3495		
Output Rating (HP)	2		LRT (%FLT)	230	460 volt FLA	2.74
Full Load Torque	3.01	lb.ft	BDT (%FLT)	340	230 volt FLA	5.48
Rotor Wk^2	0.0483	lb-ft^2				

SPEED VS TORQUE & CURRENT CURVE



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



NAMEPLATE / WIRING

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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		<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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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:													

Model	PEWWE2-36-145JM						
HP	2	S.F.	1.25	IP	IP55	Encl	TEFC
Frame	145JM	P.F.	0.8	Code	L	Type	
Voltage	230/460 V	Hz	60 Hz	Ins Cl	F	Ambient	40°C
Amps	5.48/2.74	RPM	3495	Design	B	DE Brng	6206ZZ C3
Nom.Eff.	FL	85.5%	3/4	85.0%		ODE Brng	6205ZZ C3
						Grease type:	--

50Hz 2 HP 200/400 V 6.62/3.31 A 2880 rpm