

DATA SHEET

Premium Efficiency Motor: **PEWWE20-18-256JM**

60 Hz

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



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Customer:

MOTOR INFORMATION

HP	20
RPM	1800
Phase	3
Frequency	60 Hz
Voltage	230/460 V
Frame Size	256JM
Enclosure	TEFC
Degree of Protection	IP55
Service Factor	1.25
Poles	4
Full Load Speed	1765
Insulation Class	F
Temp Rise	80°C
NEMA Code Letter	G
Duty Cycle	S1 / Continuous
Slip	1.94%
NEMA Design	B
Moment of Inertia	2.23 lb.ft.^2
Locked Rotor Time (Hot)	22 seconds
Sound Pressure Level	68 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%	93.0 %	0.85
75%	93.2 %	0.82
50%	92.9 %	0.72

TORQUE

FULL LOAD	LRT	BDT
59.5 lb.ft.	180 %	250 %

AMPERAGE INFORMATION

	230V	460V
Full Load Amps	47.4A	23.7A
Locked Rotor Amps	290A	145A
No Load Current	18A	9A
Usable at 208V	52.4A	

BEARING INFORMATION

DE Bearing	6309 C3
ODE Bearing	6209 C3
Grease Type	SKF LGHP 2
DE Regreasing Interval	5000 Hours
ODE Regreasing Interval	5000 Hours

ADDITIONAL DATA

F2 Suitable	Yes
Shaft Material	1045 Carbon Steel
Connection Diagram	230 / 460 V - 9 Lead Δ
Approximate Weight	297 lbs.

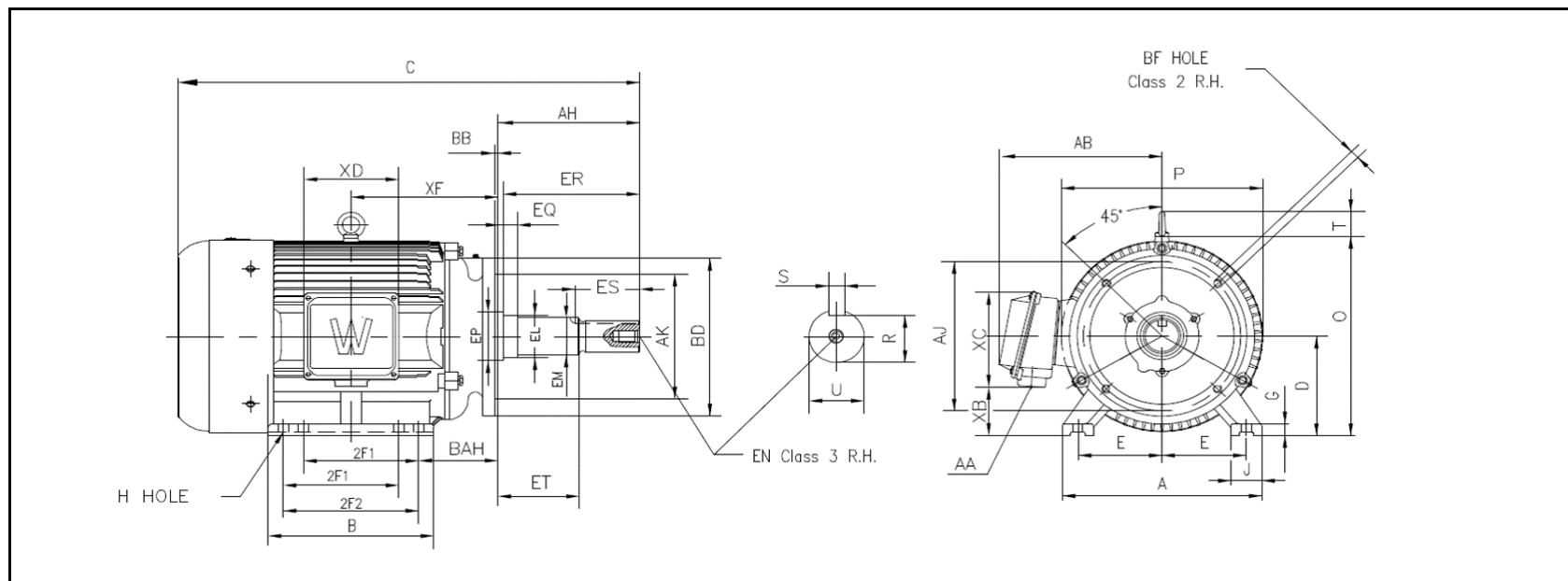
MOTOR DRAWING

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DIMENSION - INCHES

MOUNTING					A	B	C	D	G	J	P	O	T	AB
E	2F1	2F	H	BAH										
5	8.25	10	0.53	4.5	12.5	12	27	6.25	0.79	2.4	12.6	12.9	2.05	10.5

SHAFT & KEY												
S	ES	R	AH	EQ	ET	EM	EL	EP	ER	EN	U	
0.25	2.6	1.11	5.25	0.625	3	1.375	1.75	1.772	5.4	1/2-13	1.249	

FLANGE				
AJ	AK	BB	BD	BF
7.25	8.5	0.275	10	1/2-13

TERMINAL BOX				
AA	XB	XC	XD	XF
1.5	3	7.4	6.3	9.5

PERFORMANCE CURVES

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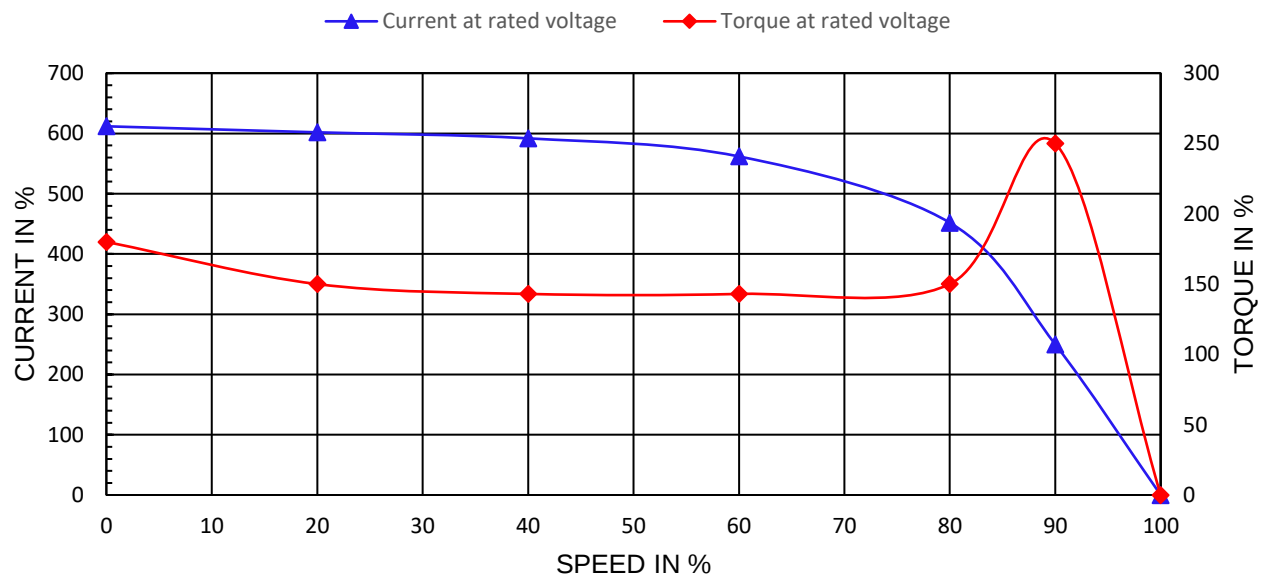
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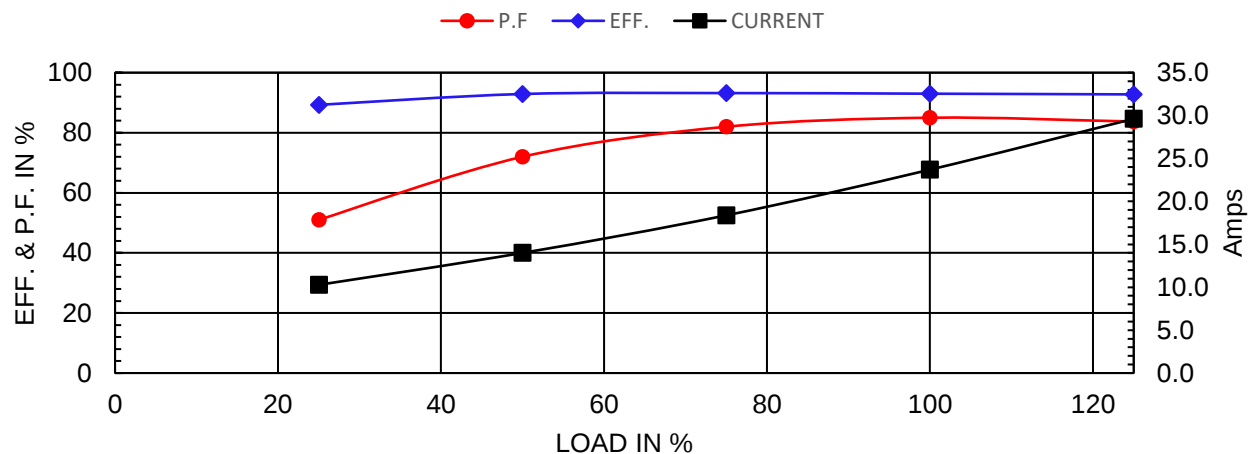
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Motor Type	PEWWE		FL Speed	1765		
Output Rating (HP)	20		LRT (%FLT)	180	460 volt FLA	23.7
Full Load Torque	59.5	lb.ft	BDT (%FLT)	250	230 volt FLA	47.4
Rotor Wk^2	2.23	lb-ft^2				

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 	CC006A
Model			Ser No.			Low Voltage	
HP		S.F.		IP		Encl	
Frame		P.F.		Code		Type	
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	
				DE Brng			
Class I DIV. 2 Groups A B C D				ODE Brng			
Class I Zone 2 IIC				Grease type:			
50Hz				HP	V	A	rpm S.F.1.0
WorldWide Electric Corporation							

Model	PEWWE20-18-256JM						
HP	20	S.F.	1.25	IP	IP55	Encl	TEFC
Frame	256JM	P.F.	0.85	Code	G	Type	
Voltage	230/460 V	Hz	60 Hz	Ins Cl	F	Ambient	40°C
Amps	47.4/23.7	RPM	1765	Design	B	DE Brng	6309 C3
Nom. Eff.	FL	93.0%	3/4	93.2%		ODE Brng	6209 C3
						Grease type:	SKF LGHP 2
50Hz 20 HP 200/400 V 55.9/28 A 1460 rpm							