

DATA SHEET

Premium Efficiency Motor: **PEWWE100-12-444T-IB**

60 Hz

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



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Customer:

MOTOR INFORMATION

HP	100
RPM	1200
Phase	3
Frequency	60 Hz
Voltage	230/460 V
Frame Size	444T
Enclosure	TEFC
Degree of Protection	IP55
Service Factor	1.25
Poles	6
Full Load Speed	1190
Insulation Class	F
Temp Rise	80°C
NEMA Code Letter	G
Duty Cycle	S1 / Continuous
Slip	0.83%
NEMA Design	B
Moment of Inertia	55.7 lb.ft.^2
Locked Rotor Time (Hot)	19 seconds
Sound Pressure Level	74 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%	95.0 %	0.81
75%	95.3 %	0.78
50%	94.6 %	0.69

TORQUE

FULL LOAD	LRT	BDT
441 lb.ft.	150 %	230 %

AMPERAGE INFORMATION

	230V	460V
Full Load Amps	243A	122A
Locked Rotor Amps	1450A	725A
No Load Current	91A	45.5A
Usable at 208V	269A	

BEARING INFORMATION

DE Bearing	NU318 C3
ODE Bearing	6313 M/C3
Grease Type	SKF LGHP 2
DE Regreasing Interval	2200 Hours
ODE Regreasing Interval	4500 Hours

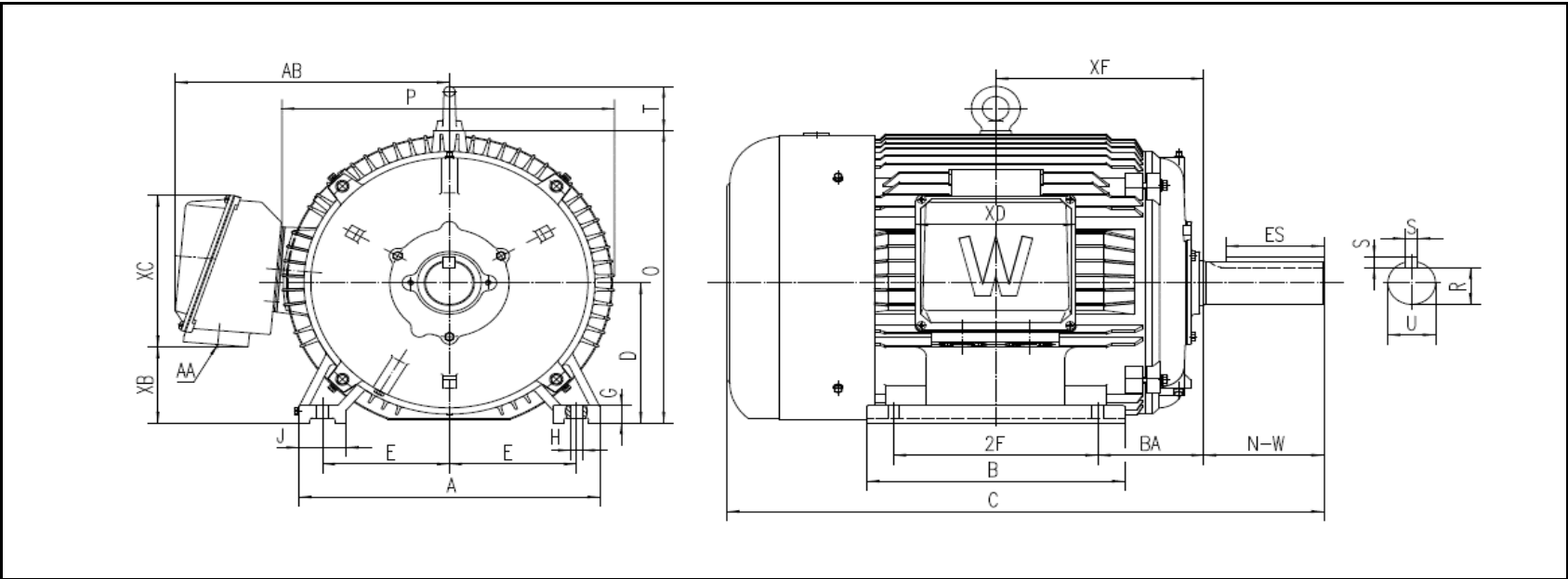
ADDITIONAL DATA

F2 Suitable	Yes
Shaft Material	1045 Carbon Steel
Connection Diagram	230 / 460 V - 12 Lead Δ
Approximate Weight	1425 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										
9	--	14.5	0.81	7.5	21.339	18.268	42.301	11	1.378	3.346	23.574	22.969	3.465	19.436

SHAFT & KEY				
S	ES	R	N-W	U
0.875	6.91	2.88	8.5	3.375

TERMINAL BOX				
AA	XB	XC	XD	XF
2 X 3	5.97	11.905	11.339	14.744

PERFORMANCE CURVES

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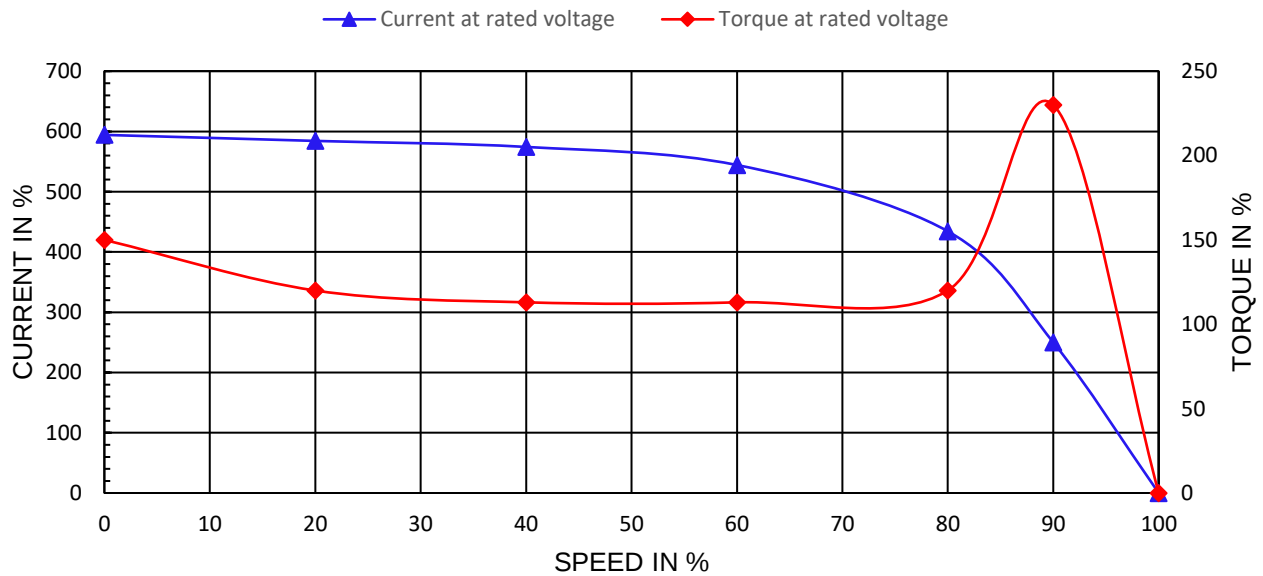
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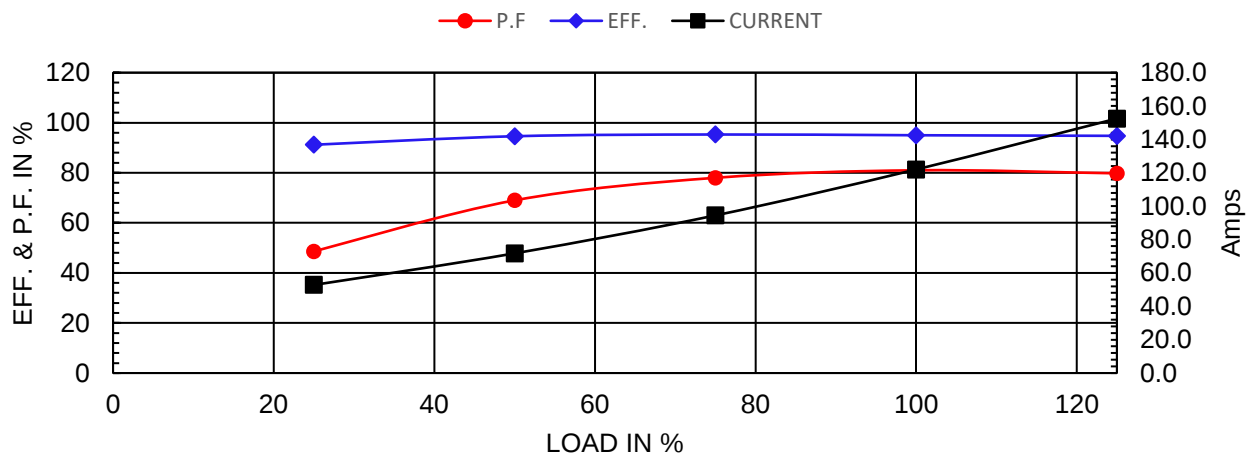
Customer:

Motor Type	PEWWE						
Output Rating (HP)	100		FL Speed	1190			
Full Load Torque	441 lb.ft		LRT (%FLT)	150	460 volt FLA	122	A
Rotor Wk^2	55.7 lb-ft^2		BDT (%FLT)	230	230 volt FLA	243	A

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 	CE CC006A
Model				Ser No.			
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				Amb.40°C			
Class I Zone 2 IIC				Amb.55°C			
				Grease type: LGHP 2 (compatible with polyrex)			
50Hz HP V A rpm 1.0SF							
WorldWide Electric Corporation							

Model **PEWWE100-12-444T-IB**

HP **100** S.F. **1.25** IP **IP55** Encl **TEFC**

Frame **444T** P.F. **0.81** Code **G** Type

Voltage **230/460 V** Hz **60 Hz** Ins Cl **F** Ambient **40°C**

Amps **243/122** RPM **1190** Design **B** DE Brng **NU318 C3**

Nom.Eff. **FL 95.0% 3/4 95.3%** ODE Brng **6313 M/C3**

Grease type: **SKF LGHP 2**

50Hz #N/A HP #N/A #N/A A #N/A rpm