

# DATA SHEET

Premium Efficiency Motor: **PEWWE100-18-405TBB-IB**

**60 Hz**

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



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Customer:

## MOTOR INFORMATION

HP	100
RPM	1800
Phase	3
Frequency	60Hz
Voltage	230/460 V
Frame Size	405T
Enclosure	TEFC
Degree of Protection	IP55
Service Factor	1.25
Poles	4
Full Load Speed	1785
Insulation Class	F
Temp Rise	80°C
NEMA Code Letter	G
Duty Cycle	S1 / Continuous
Slip	0.83%
NEMA Design	B
Moment of Inertia	28.1 lb.ft.^2
Locked Rotor Time (Hot)	16 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 1 Division 2 Groups A,B,C,D T3A(180°C)
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%	95.4 %	0.86
75%	95.6 %	0.84
50%	95.4 %	0.77

## TORQUE

FULL LOAD	LRT	BDT
294 lb.ft.	160 %	250 %

## AMPERAGE INFORMATION

	230V	460V
Full Load Amps	228A	114A
Locked Rotor Amps	1450A	725A
No Load Current	70A	35A
Usable at 208V	252A	

## BEARING INFORMATION

DE Bearing	6316 C3
ODE Bearing	6313 M/C3
Grease Type	SKF LGHP 2
DE Regreasing Interval	2000 Hours
ODE Regreasing Interval	3000 Hours

## ADDITIONAL DATA

F2 Suitable	No
Shaft Material	1045 Carbon Steel
Connection Diagram	230 / 460 V - 12 Lead Δ
Approximate Weight	1108 lbs.

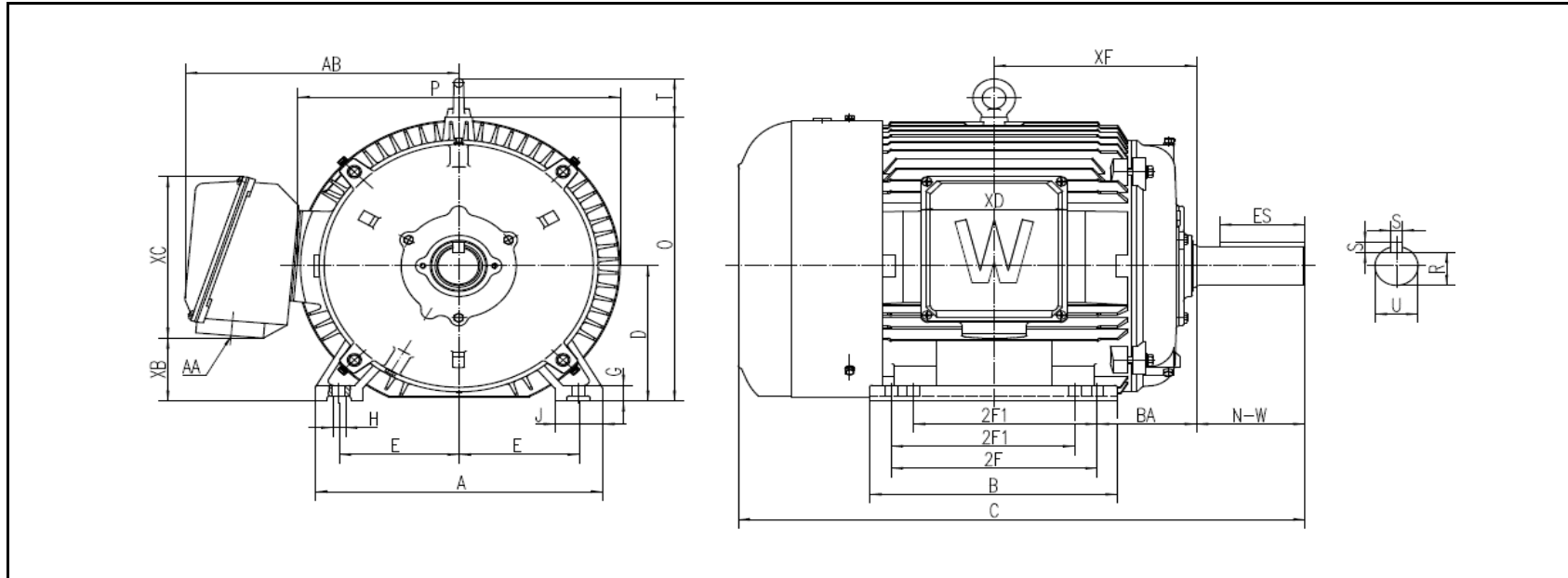
# MOTOR DRAWING

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## DIMENSION - INCHES

MOUNTING					A	B	C	D	G	J	P	O	T	AB
E	2F1	2F	H	BA										
8	12.25	13.75	0.81	6.62	19.136	16.535	37.815	10	1.181	3.15	21.535	21.024	2.835	18.264

SHAFT & KEY				
S	ES	R	N-W	U
0.75	5.65	2.45	7.25	2.875

TERMINAL BOX				
AA	XB	XC	XD	XF
3	4.659	11.933	9.764	13.494

# PERFORMANCE CURVES

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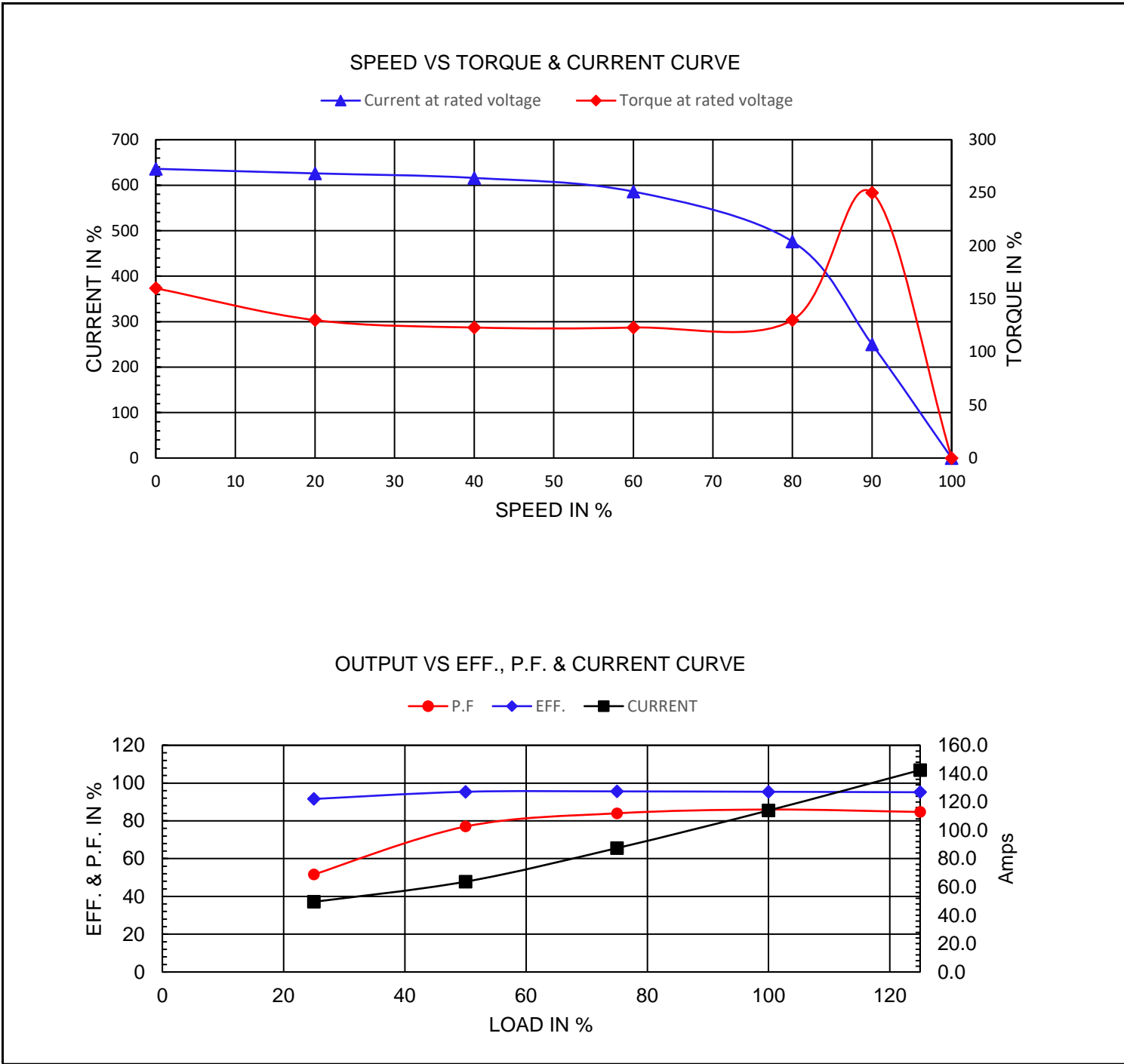
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Motor Type	PEWWE				
Output Rating (HP)	100	FL Speed	1785		
Full Load Torque	294 lb.ft	LRT (%FLT)	160	460 volt FLA	114 A
Rotor Wk^2	28.1 lb-ft^2	BDT (%FLT)	250	230 volt FLA	228 A



# NAMEPLATE / WIRING

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## SAMPLE NAMEPLATE DATA

				<b>3-PHASE INDUCTION MOTOR</b>		259277 	
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
Class I DIV. 2 Groups A B C D			Amb.40°C	DE Brng			
Class I Zone 2 IIC			Amb.55°C	ODE Brng			
				Grease type: LGHP 2 (compatible with polyrex)			
50Hz		HP	V	A	rpm	1.0SF	

Model

HP  S.F.  IP  Encl

Frame  P.F.  Code  Type

Voltage  Hz  Ins Cl  Ambient

Amps  RPM  Design  DE Brng 6316 C3

Nom.Eff.     ODE Brng 6313 M/C3

Grease type: SKF LGHP 2