

DATA SHEET

Premium Efficiency Motor: **PEWWE100-18-405TSC**

60 Hz

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



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Document ID:

Customer:

MOTOR INFORMATION

HP	100
RPM	1800
Phase	3
Frequency	60 Hz
Voltage	230/460 V
Frame Size	405TSC
Enclosure	TEFC
Degree of Protection	IP55
Service Factor	1.15
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 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%	95.4 %	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 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.

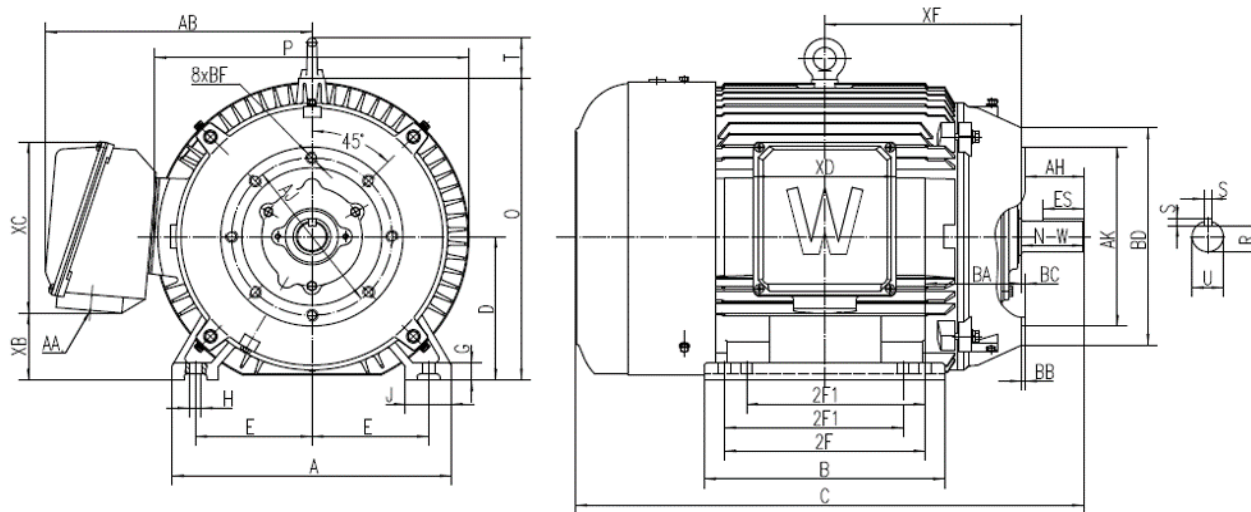
MOTOR DRAWING

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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	34.823	10	1.181	3.15	21.535	21.024	2.835	18.264

SHAFT & KEY					
S	ES	R	N-W	AH	U
0.5	2.78	1.845	4.25	4	2.125

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

FLANGE					
AJ	AK	BB	BD	BF	BC
11	12.5	0.25	15.157	58-11	0.25

PERFORMANCE CURVES

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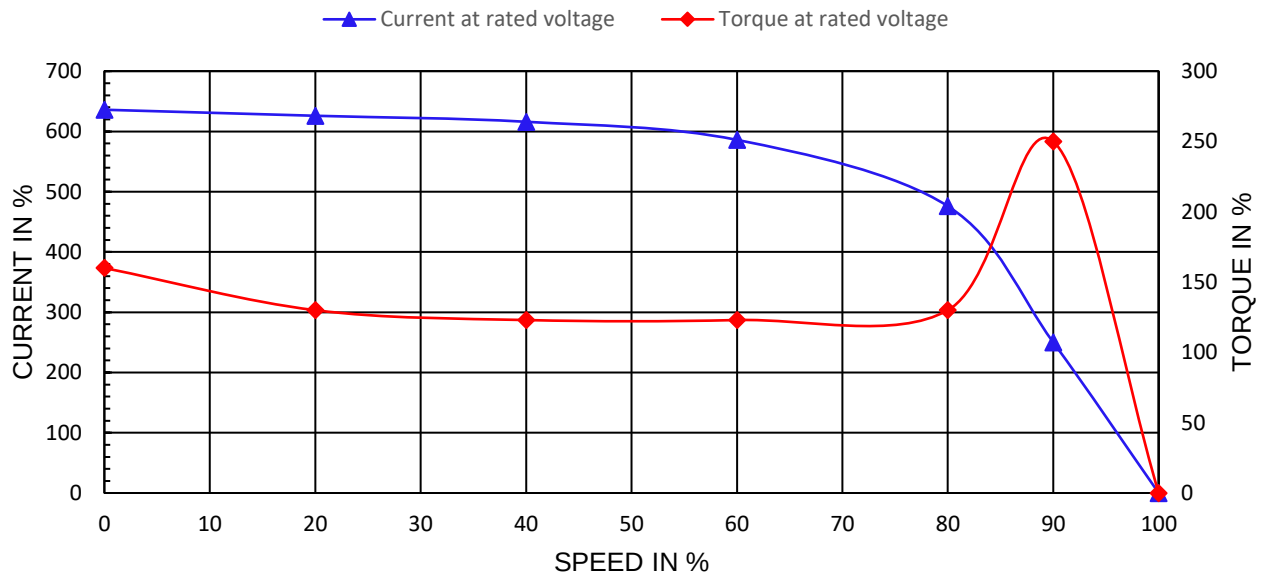
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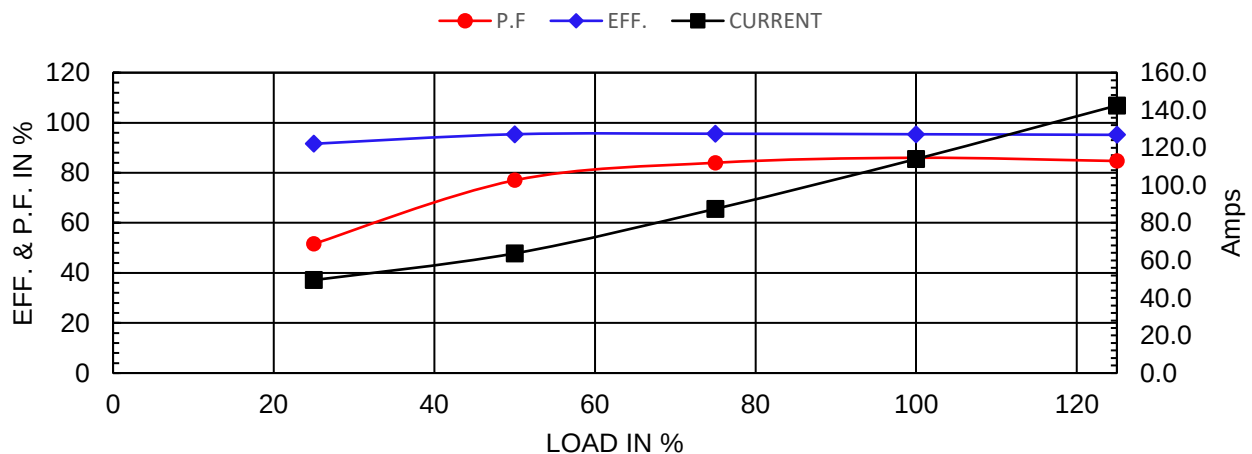
Customer:

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

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 6 4 5 7 8 9 12 10 11 1 2 3 L1 L2 L3		
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 Class I Zone 2 II C				Amb.40°C Amb.55°C		DE Brng ODE Brng Grease type: LGHP 2 (compatible with polyrex)		
50Hz		HP		V		A	rpm	1.0SF
WorldWide Electric Corporation								

Model	PEWWE100-18-405TSC							
HP	100	S.F.	1.15	IP	IP55	Encl	TEFC	
Frame	405TSC	P.F.	0.86	Code	G	Type		
Voltage	230/460 V	Hz	60 Hz	Ins Cl	F	Ambient	40°C	
Amps	228/114	RPM	1785	Design	B	DE Brng	6316 C3	
Nom.Eff.	FL	95.4%	3/4	95.6%		ODE Brng	6313 C3	
						Grease type:	SKF LGHP 2	
50Hz		100 HP	200/400 V	266/133	A	1485 rpm		