

DATA SHEET

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

60 Hz

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



Document Generated: 15-Feb-2023

Document ID:

Customer:

MOTOR INFORMATION

HP	100
RPM	1800
Phase	3
Frequency	60 Hz
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 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.

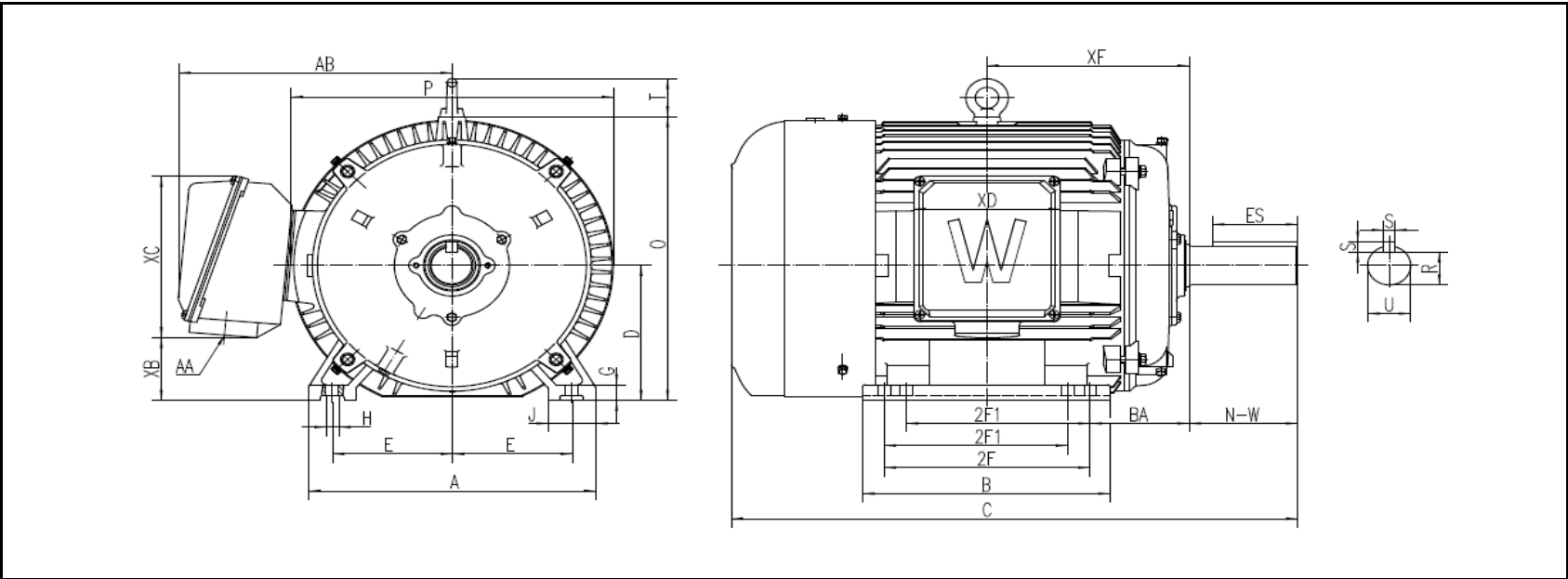
MOTOR DRAWING

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

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



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

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



Premium Efficiency Motor:

PEWWE100-18-405TBB

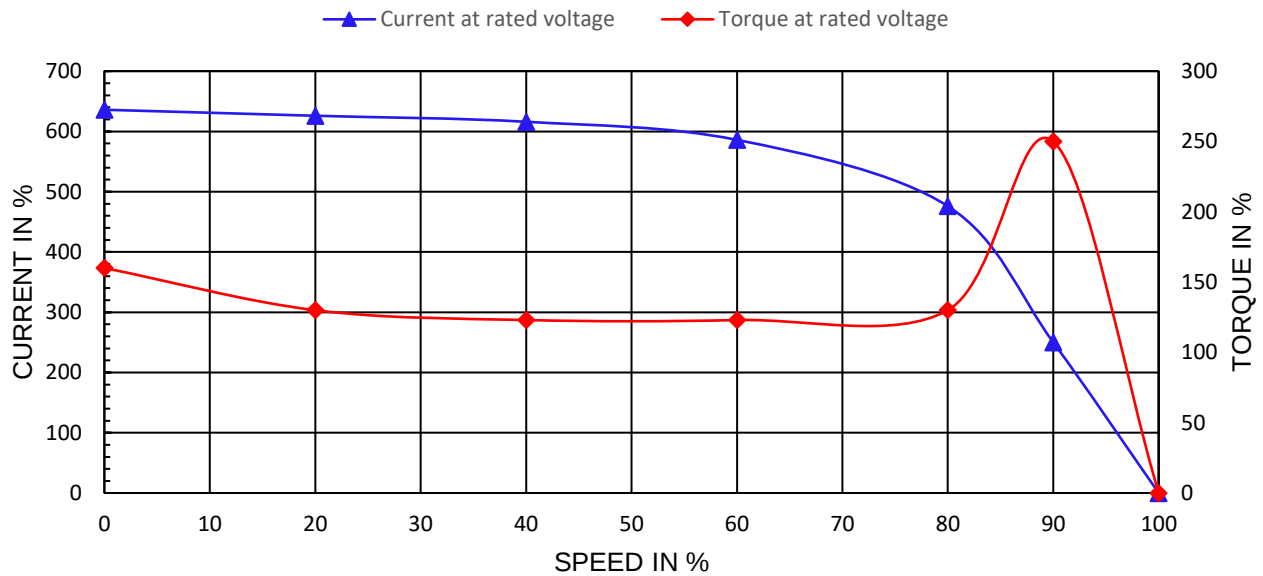
Document Generated: 15-Feb-2023

Document ID:

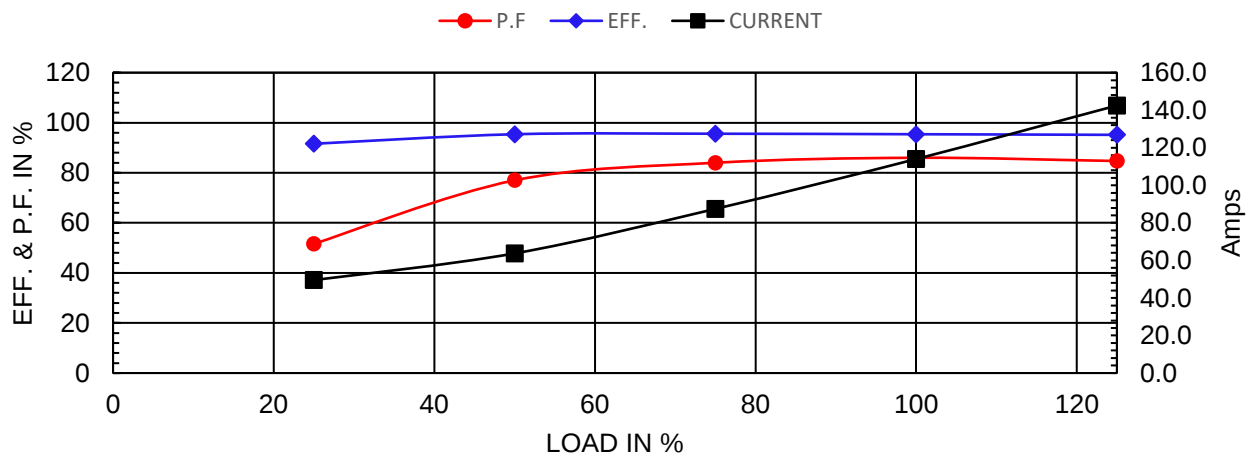
Customer:

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

SPEED VS TORQUE & CURRENT CURVE



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



NAMEPLATE / WIRING

Premium Efficiency Motor:

PEWWE100-18-405TBB

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



Document Generated: 15-Feb-2023
Document ID:

Customer:

SAMPLE NAMEPLATE DATA

		NEMA Premium		3-PHASE INDUCTION MOTOR		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 Class I Zone 2 IIC				DE Brng ODE Brng Grease type: LGHP 2 (compatible with polyrex)			
Amb.40°C Amb.55°C							
50Hz HP V A rpm 1.0SF							
WorldWide Electric Corporation							

Model **PEWWE100-18-405TBB**

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

Frame **405T** 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