

DATA SHEET

Premium Efficiency Motor: **PEWWE30-18-286T**

60 Hz

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



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Customer:

MOTOR INFORMATION

HP	30
RPM	1800
Phase	3
Frequency	60Hz
Voltage	230/460 V
Frame Size	286T
Enclosure	TEFC
Degree of Protection	IP55
Service Factor	1.25
Poles	4
Full Load Speed	1770
Insulation Class	F
Temp Rise	80°C
NEMA Code Letter	G
Duty Cycle	S1 / Continuous
Slip	1.67%
NEMA Design	B
Moment of Inertia	3.38 lb.ft.^2
Locked Rotor Time (Hot)	12 seconds
Sound Pressure Level	70 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%	93.6 %	0.85
75%	93.9 %	0.82
50%	93.4 %	0.72

TORQUE

FULL LOAD	LRT	BDT
89 lb.ft.	160 %	240 %

AMPERAGE INFORMATION

	230V	460V
Full Load Amps	70.6A	35.3A
Locked Rotor Amps	435A	217.5A
No Load Current	26A	13A
Usable at 208V	78.1A	

BEARING INFORMATION

DE Bearing	6311 C3
ODE Bearing	6309 C3
Grease Type	SKF LGHP 2
DE Regreasing Interval	4000 Hours
ODE Regreasing Interval	5000 Hours

ADDITIONAL DATA

F2 Suitable	Yes
Shaft Material	1045 Carbon Steel
Connection Diagram	230 / 460 V - 12 Lead Δ
Approximate Weight	405 lbs.

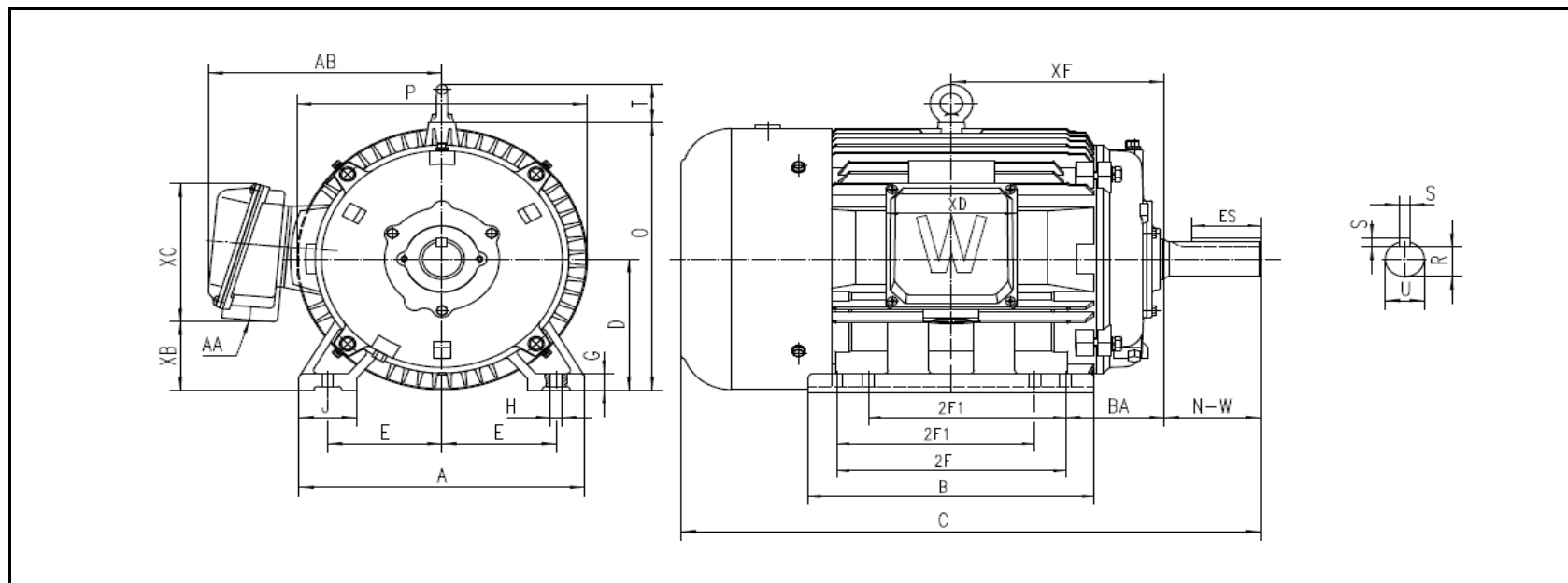
MOTOR DRAWING

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DIMENSION - INCHES

MOUNTING					A	B	C	D	G	J	P	O	T	AB
E	2F1	2F	H	BA										
5.5	9.5	11	0.53	4.75	13.74	13.74	27.858	7	0.866	2.756	13.976	14.283	2.047	11.239

SHAFT & KEY				
S	ES	R	N-W	U
0.5	3.28	1.591	4.62	1.875

TERMINAL BOX				
AA	XB	XC	XD	XF
1.5	3.645	7.381	6.299	10.248

PERFORMANCE CURVES

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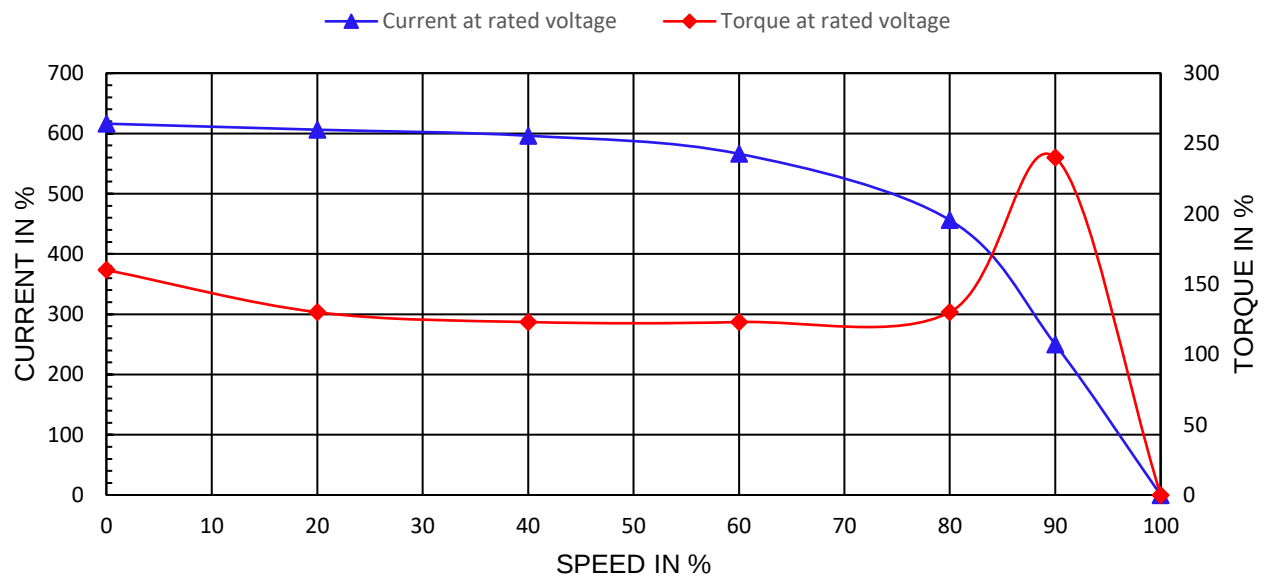
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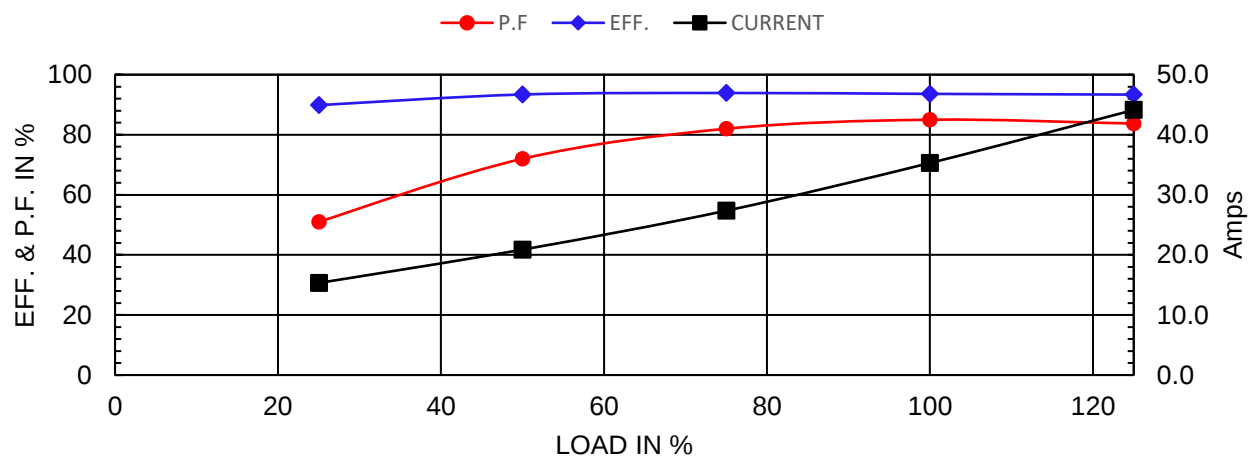
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Motor Type	PEWWE		FL Speed	1770		
Output Rating (HP)	30		LRT (%FLT)	160	460 volt FLA	35.3 A
Full Load Torque	89 lb.ft		BDT (%FLT)	240	230 volt FLA	70.6 A
Rotor Wk^2	3.38 lb-ft^2					

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 ODE Brng Grease type: LGHP 2 (compatible with polyrex)					
Class I DIV. 2 Groups A B C D		Amb.40°C		T3C(160°C)					
Class I Zone 2 IIC		Amb.55°C		T3A(180°C)					
50Hz	HP	V	A	rpm	S.F1.0				
WorldWide Electric Corporation									

Model **PEWWE30-18-286T**

HP **30** S.F. **1.25** IP **IP55** Encl **TEFC**

Frame **286T** P.F. **0.85** Code **G** Type

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

Amps **70.6/35.3** RPM **1770** Design **B** DE Brng **6311 C3**

Nom.Eff. **FL 93.6% 3/4 93.9%** ODE Brng **6309 C3**

Grease type: **SKF LGHP 2**

50Hz 30 HP 200/400 V 83/41.5 A 1465 rpm