DATA SHEET

Premium Efficiency Motor: **PEWWE30-18-286TC** **60 Hz**

WorldWide Electric Corporation
1 (800) 808-2131
Worldwideelectric.net

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MOTOR INFORMATION

HP	30
RPM	1800
Phase	3
Frequency	60Hz
Voltage	230/460 V
Frame Size	286TC
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 1 Division 2 Groups A,B,C,D T3C(160°C)
Inverter Rating	10:1 CT / 20:1 VT PWM Type
Standard	NEMA MG-1
Approvals	CSA-US, CE

ADDITIONAL DATA

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

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

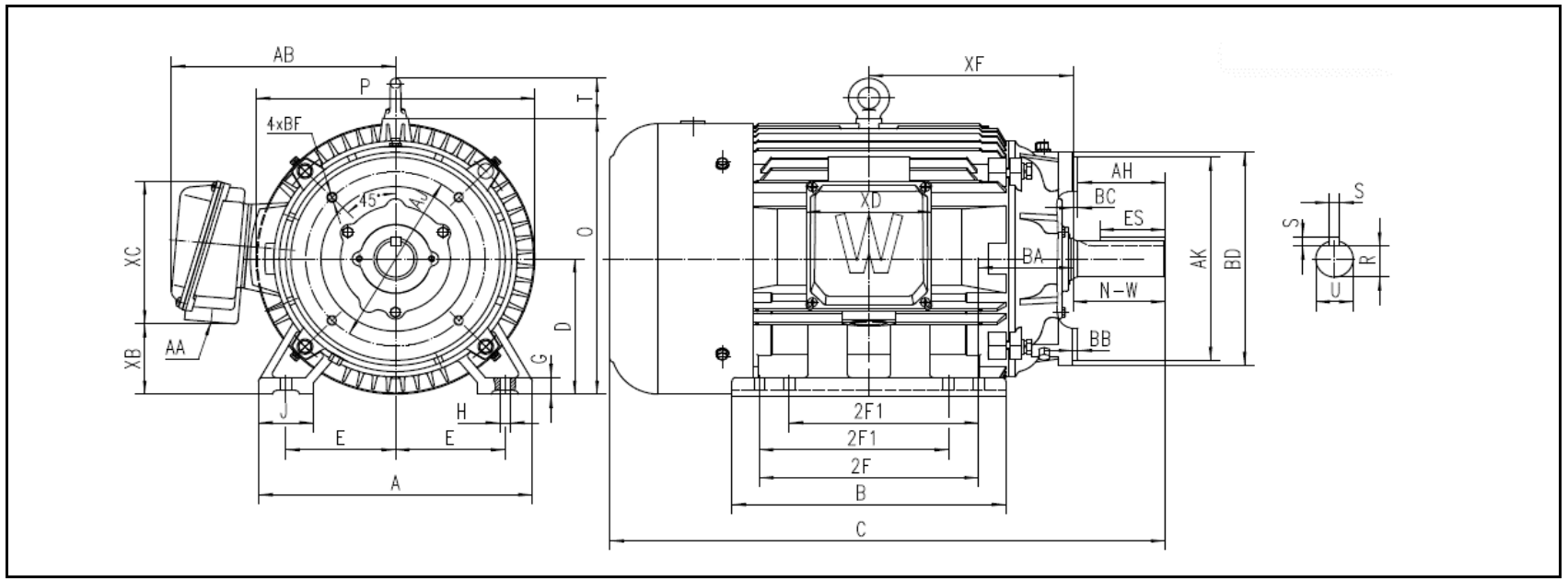
DE Bearing	6311 C3
ODE Bearing	6309 C3
Grease Type	SKF LGHP 2
DE Regreasing Interval	4000 Hours
ODE Regreasing Interval	5000 Hours

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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	AH	U
0.5	3.28	1.591	4.62	4.38	1.875

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

FLANGE					
AJ	AK	BB	BD	BF	BC
9	10.5	0.25	11.024	1/2-13	0.25

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PERFORMANCE CURVES

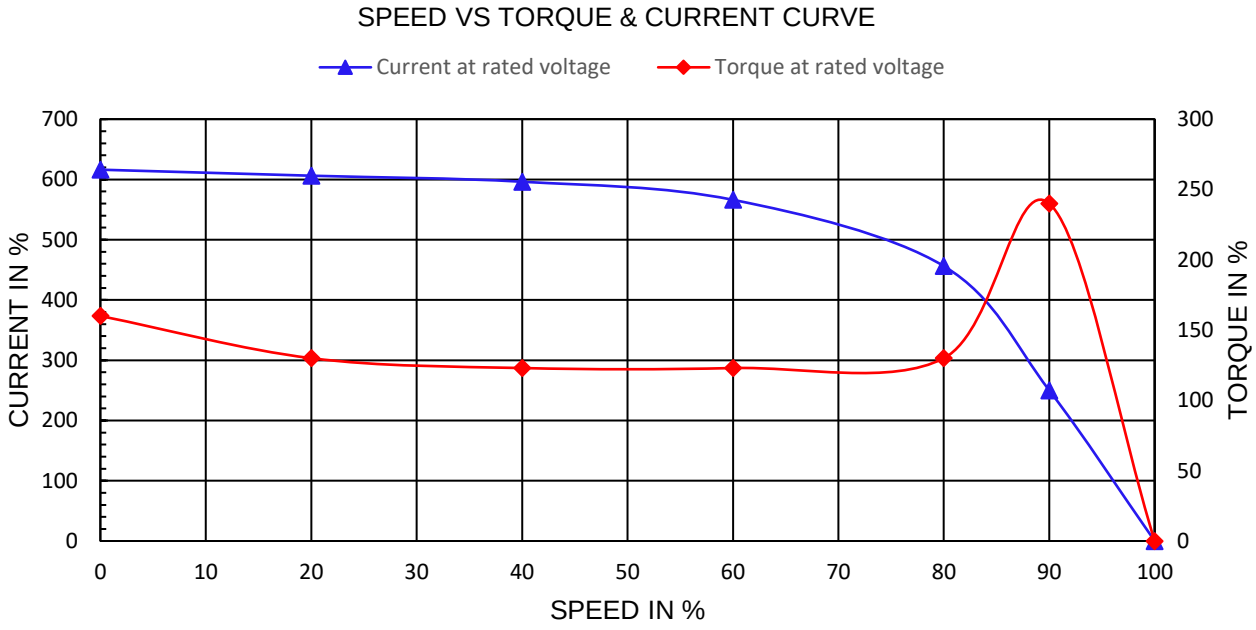
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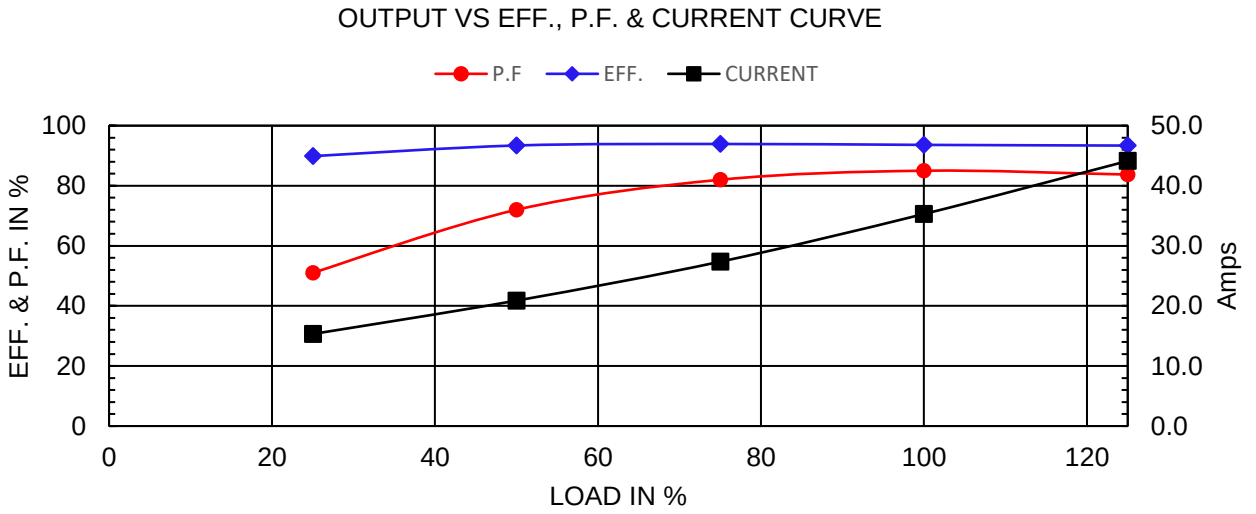
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Motor Type	PEWWE					
Output Rating (HP)	30		FL Speed	1770		
Full Load Torque	89	lb.ft	LRT (%FLT)	160	460 volt FLA	35.3
Rotor Wk^2	3.38	lb-ft^2	BDT (%FLT)	240	230 volt FLA	70.6





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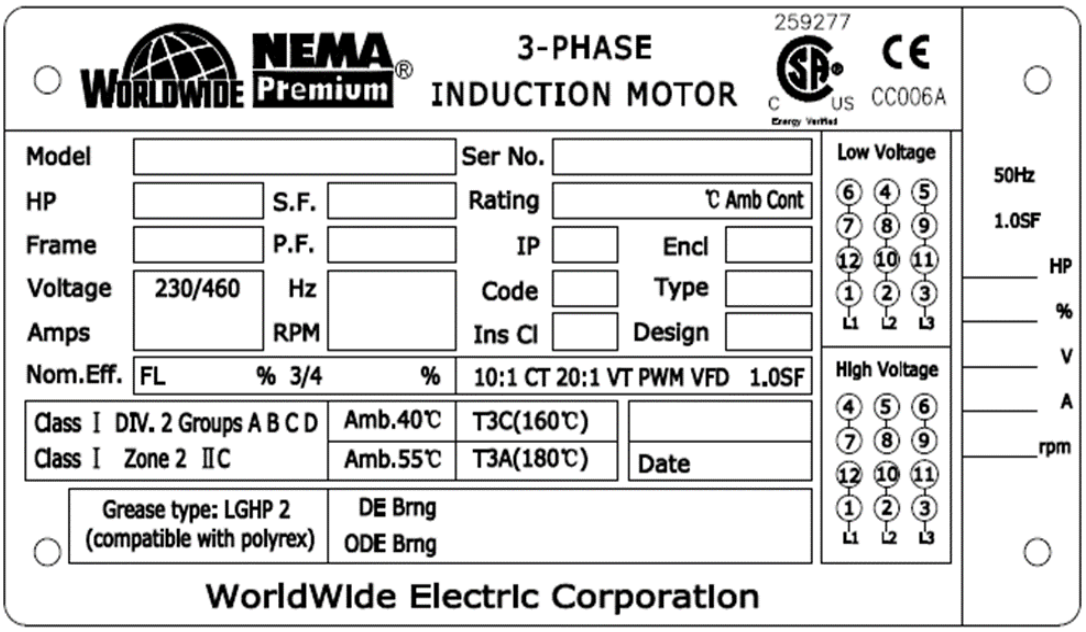
NAMEPLATE / WIRING

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

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SAMPLE NAMEPLATE DATA



Model	PEWWE30-18-286TC						
HP	30	S.F.	1.25	IP	IP55	Encl	TEFC
Frame	286TC	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
Class 1 Division 2 Groups A,B,C,D T3C(160°C)						Grease type:	SKF LGHP 2

50Hz

30 HP	200/400 V	83/41.5 A	1465 rpm
		Eff. 91.6%	

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