



Electrical Helper.org
For All Your Electric Needs Since 1928
411 N Platte Ave. York, NE. 68467

AC-DC MOTORS :: SALES & SERVICE
REWINDING :: CUSTOM CONTROL PANEL

Kelly MacMillan
Office Ph: 888-226-4917
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DATA SHEET

Premium Efficiency Motor: **PEWWE30-18-286TZ-GD,**

60 Hz

Document Generated: 11-Dec-2023

Document ID:

Customer:

MOTOR INFORMATION

HP	30
RPM	1800
Phase	3
Frequency	60
Voltage	230/460
Frame Size	286TZ
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
Inverter Rating	10:1 CT / 20:1 VT
Standard	NEMA MG-1
Approvals	CSA, 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

BEARING INFORMATION

DE Bearing	6311ZZ C3
ODE Bearing	6309ZZ C3

ADDITIONAL DATA

F2 Suitable	Y
Shaft Material	1045 Carbon Steel
Connection Diagram	230 / 460 V - 12 Lead Δ
Lead Length	72 inches
Approximate Weight	408 lbs.

MOTOR DRAWING

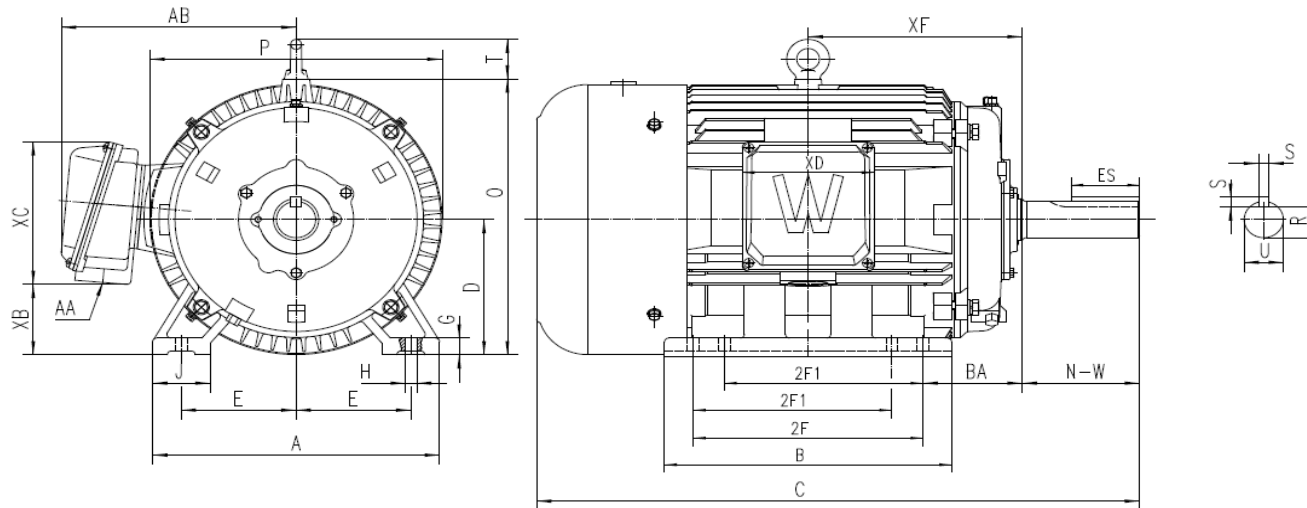
Premium Efficiency Motor: **PEWWE30-18-286TZ-GD**



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DIMENSION - INCHES

MOUNTING					A	B	C	D	G	J	P	O	T	AB
E	2F1	2F2	H	BA										
5.5	9.5	11	0.53	4.75	13.74	13.74	28.858	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	5.62	1.875

TERMINAL BOX				
AA	XB	XC	XD	XE
1-1/2	3.645	7.381	6.299	10.248



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PERFORMANCE CURVES

Premium Efficiency Motor:

PEWWE30-18-286TZ-GD

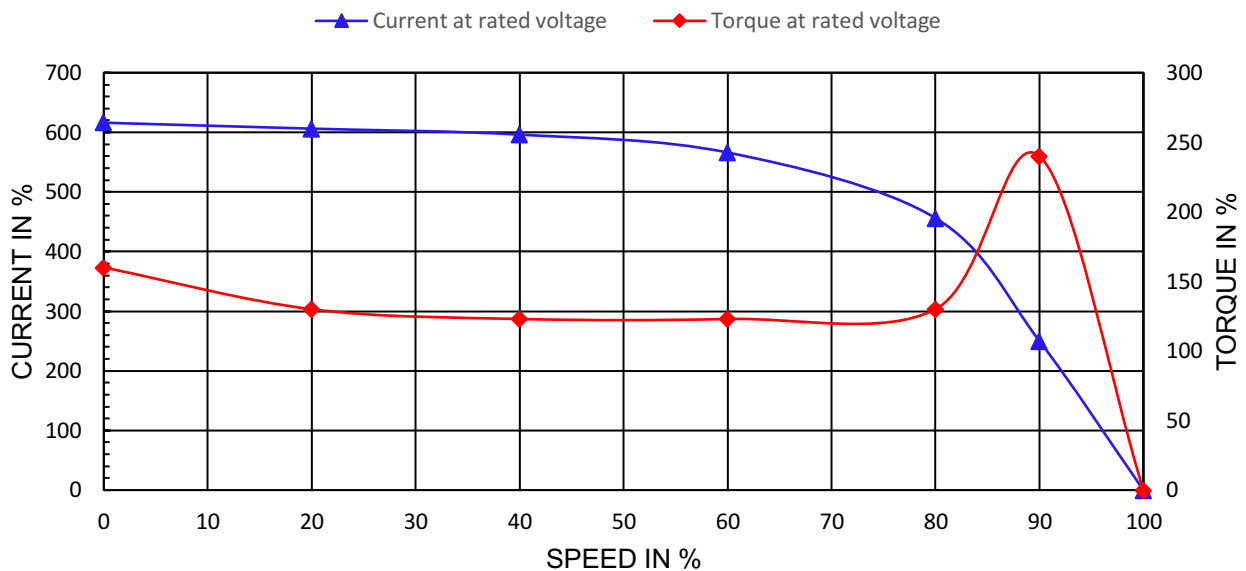
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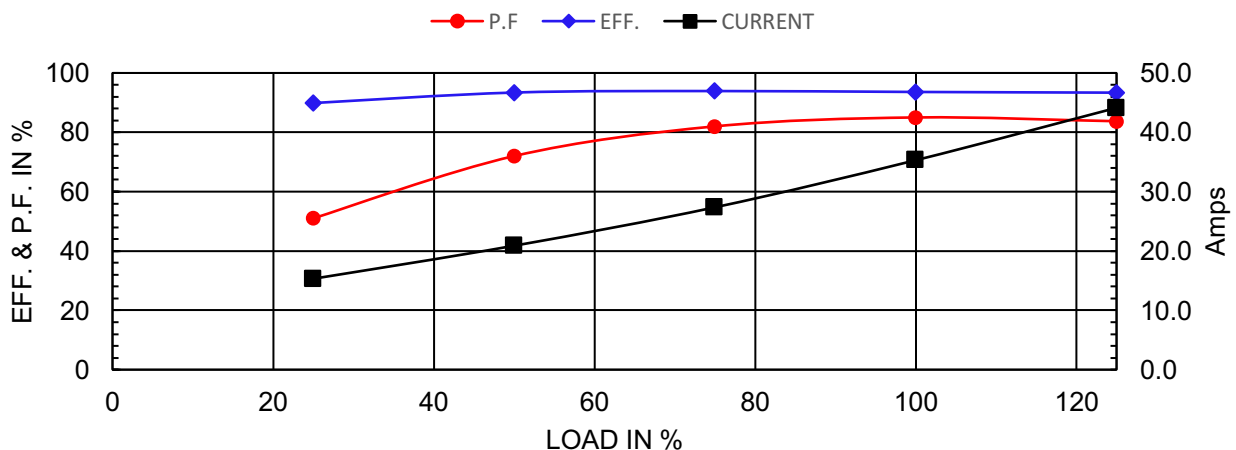
Customer:

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

SPEED VS TORQUE & CURRENT CURVE



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





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NAMEPLATE / WIRING

Premium Efficiency Motor: **PEWWE30-18-286TZ-GD**

Document Generated: 11-Dec-2023	Customer:
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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																															
<table border="1" style="width: 100%;"> <tr> <td>Class I DIV. 2 Groups A B C D</td> <td>Amb.40°C</td> <td>T3C(160°C)</td> </tr> <tr> <td>Class I Zone 2 IIC</td> <td>Amb.55°C</td> <td>T3A(180°C)</td> </tr> </table>				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)	DE Brng ODE Brng		<table border="1" style="width: 100%;"> <tr><td>6</td><td>4</td><td>5</td></tr> <tr><td>7</td><td>8</td><td>9</td></tr> <tr><td>12</td><td>10</td><td>11</td></tr> <tr><td>1</td><td>2</td><td>3</td></tr> <tr><td>4</td><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td><td>9</td></tr> <tr><td>12</td><td>10</td><td>11</td></tr> <tr><td>1</td><td>2</td><td>3</td></tr> </table>		6	4	5	7	8	9	12	10	11	1	2	3	4	5	6	7	8	9	12	10	11	1	2	3
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50Hz HP V A rpm S.F1.0																																					
WorldWide Electric Corporation																																					

Model	PEWWE30-18-286TZ-GD						
HP	30	S.F.	1.25	IP	IP55	Encl	TEFC
Frame	286TZ	P.F.	0.85	Code	G	Type	BJPE
Voltage	230/460	Hz	60	Ins Cl	F	Rating	40°C
Amps	70.6/35.3	RPM	1770	Design	B	DE Brng	6311ZZ C3
Nom.Eff.	93.6%	3/4 Eff	93.9%			ODE Brng	6309ZZ C3

50Hz							
HP	30	Volts	200/400	200V FLA	83A	RPM	1465
				400V FLA	41.5		