



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
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DATA SHEET

Premium Efficiency Motor: **PEWWE30-36-286TC**

60 Hz

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Customer:

MOTOR INFORMATION

HP	30
RPM	3600
Phase	3
Frequency	60 Hz
Voltage	230/460 V
Frame Size	286TC
Enclosure	TEFC
Degree of Protection	IP55
Service Factor	1.25
Poles	2
Full Load	3550
Speed	F
Temperature Class	80°C
NEMA Code Letter	G
Duty Cycl	S1 / Continuous
Slip	1.40%
NEMA Design	B
Moment of Inertia	1.61 lb.ft.^2
Locked Rotor Time (Hot)	18 seconds
Sound Pressure Level	75 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%	91.7	
%	0.889254%	0.86
50%	92.1	

1 % 0.8

TORQUE

FULL LOAD	LRT	BDT
44.4 lb.ft.	150 %	230 %

AMPERAGE INFORMATION

	230V	460V
Full Load Amps	69.6A	34.8A
Locked Rotor Amps	435A	217.5A
No Load Current	21.2A	10.6A
Usable at 208V	77A	

BEARING INFORMATION

DE Bearing	6311 C3
ODE Bearing Grease Ty	6309 C3
pe DE Regreasing	SKF LGHP 2
Interval	2400 Hours
ODE Regreasing Interval	3000 Hours

ADDITIONAL DATA

F2 Suitable	Yes
Shaft Material	1045 Carbon Steel
Connection Diagram	230 / 460 V - 12 Lead
Approximate	Δ
Weight	373 lbs.



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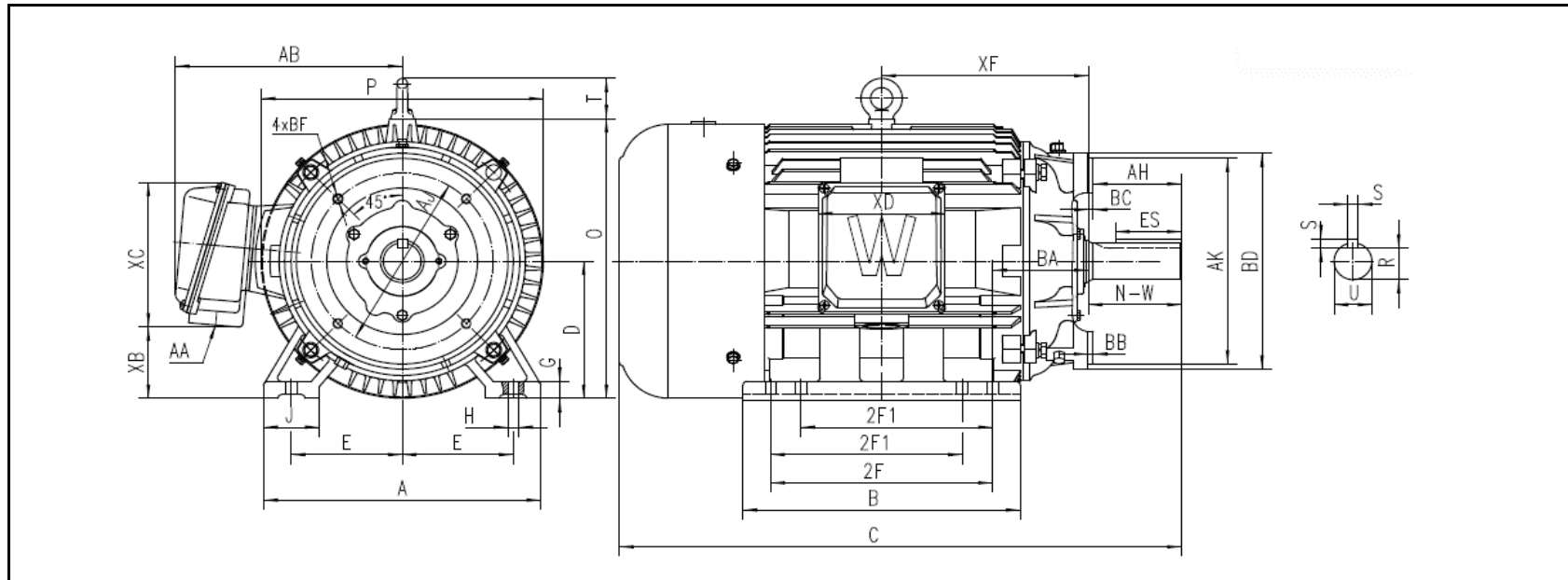
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MOTOR DRAWING

Premium Efficiency Motor: **PEWWE30-36-286TC**



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

Premium Efficiency Motor:

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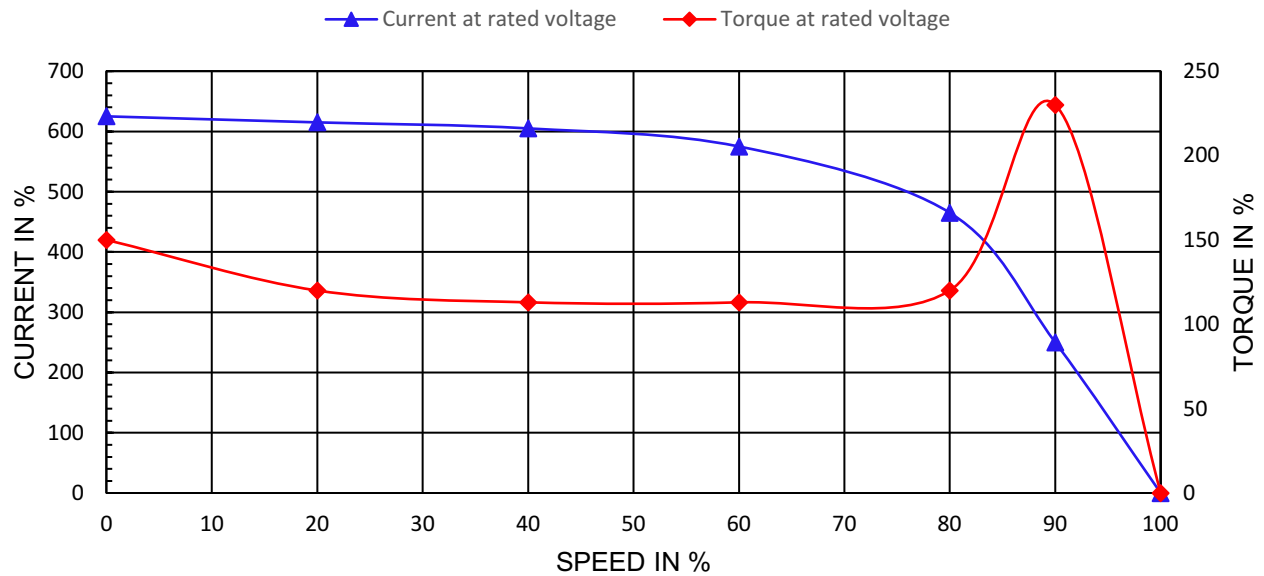
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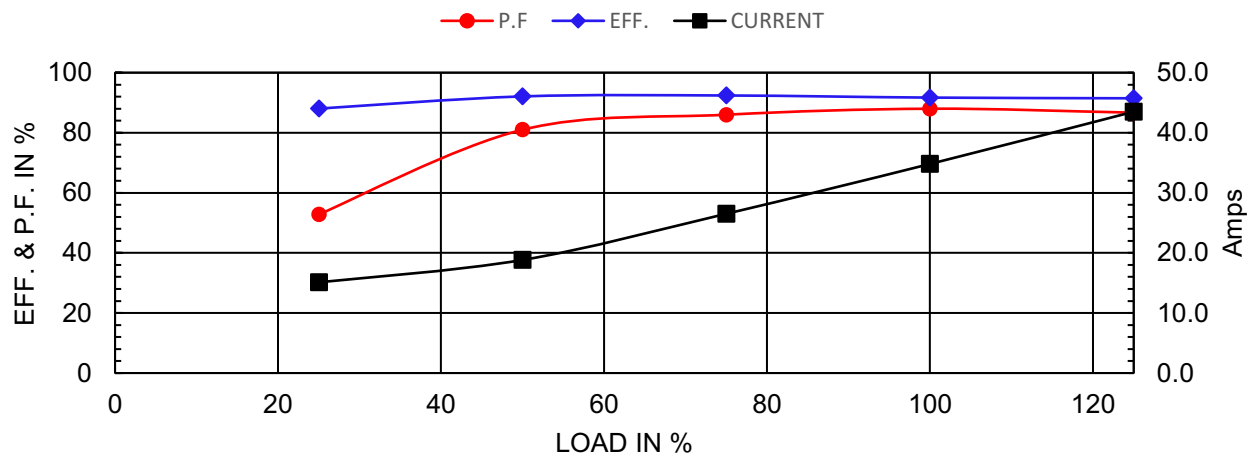
Motor Type	PEWWE		FL Speed	3550			
Output Rating	30		LRT (%FLT)	150	460 volt FLA	34.8	A
(HP) Full Load	44.4	lb.ft	BDT (%FLT)	230	230 volt FLA	69.6	A
Torque Rotor	1.61	lb-ft^2					

Wk^2

SPEED VS TORQUE & CURRENT CURVE



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



NAMEPLATE / WIRING

Premium Efficiency Motor: **PEWWE30-36-286TC**

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SAMPLE NAMEPLATE DATA

		NEMA Premium ®				Electrical Helper.org For All Your Electric Needs Since 1928 411 N Platte Ave. York, NE. 68467						CC006A																
Model				AC-DC MOTORS :: SALES & SERVICE REWINDING :: CUSTOM CONTROL PANEL		Kelly MacMillan Office Ph: 888-226-4917 Fax: 888-226-4917 Cell: 402-679-1579 E-Mail: kelly@electricalhelper.com		Type		Low Voltage		<table border="1"> <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>L1</td><td>L2</td><td>L3</td></tr> </table>		6	4	5	7	8	9	12	10	11	1	2	3	L1	L2	L3
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7	8	9																										
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L1	L2	L3																										
HP		S.F.		Code		Type		Rating	°C Amb Cont	High Voltage		<table border="1"> <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> <tr><td>L1</td><td>L2</td><td>L3</td></tr> </table>		4	5	6	7	8	9	12	10	11	1	2	3	L1	L2	L3
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12	10	11																										
1	2	3																										
L1	L2	L3																										
Frame		P.F.		Ins Cl		Date																						
Voltage	230/460	Hz		Design																								
Amps		RPM																										
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				Amb.40°C	T3C(160°C)	DE Brng																						
Class I Zone 2 IIC				Amb.55°C	T3A(180°C)	ODE Brng																						
				Grease type: LGHP 2 (compatible with polyrex)																								
50Hz		HP	V	A	rpm	S.F1.0																						
WorldWide Electric Corporation																												

Model	PEWWE30-36-												
286TC HP	30	S.F.	1.25	IP	IP55	Encl	TEFC						
Frame	286T	P.F.	0.88	Code	G	Type							
Voltage	230/460 V	Hz	60 Hz	Ins Cl	F	Ambient	40°C						
Amps	69.6/34.8	RPM	3550	Design	B	DE Brng 6311 C3 ODE Brng 6309 C3 Grease type: SKF LGHP							
Nom.Eff.	FL	91.7%	3/4	92.4%									
50Hz 30 HP 200/400 V 80.4/40.2 A 2945 rpm													