



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
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DATA SHEET

Premium Efficiency Motor: **WPEVHS30-18-286TP-16.5,**

60 Hz

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Customer:

MOTOR INFORMATION

HP	30
RPM	1800
Phase	3
Frequency	60 Hz
Voltage	230/460
Frame Size	286TP
Enclosure	ODP - WPI
Degree of Protection	IP23
Service Factor	1.15
Poles	4
Full Load Speed	1785
Insulation Class	F
Temp Rise	80°C
NEMA Code Letter	F
Duty Cycle	S1 / Continuous
Slip	1.15%
NEMA Design	B
Moment of Inertia	5.99 lb.ft.^2
Locked Rotor Time (Hot)	58 seconds
Sound Pressure Level	88 dB(A)
Number of Starts	3 Cold / 2 Hot
Max Ambient Temperature	40°C
Max Elevation	1000 m.a.s.l (3300 f.a.s.l)
Mounting	V1
Rotation	CCW - with Anti-Reverese Ratchet
Area of Classification	Safe
Inverter Rating	10:1 VT
Standard	NEMA MG-1
Approvals	CSA

EFFICIENCY/POWER FACTOR

LOAD	EFF	P. F.
100%	94.1	
%	0.8693 %	0.83
50%	92.9 %	0.74

TORQUE

FULL LOAD	LRT	BDT
88 lb.ft.	207 %	242 %

AMPERAGE INFORMATION

	230V	460V
Full Load Amps	68.2A	34.1A
Locked Rotor Amps	412.2A	206.1
No Load Current	A	
	24.8A	12.4A

BEARING INFORMATION

Lower (DE) Bearing	7312B
Upper (ODE) Bearing	6212-C3
DE Lubrication Type	Mobil Polyrex EM
ODE Lubrication Type	Mobil Polyrex EM
DE Regreasing Interval	3800 Hours
ODE Regreasing Interval	3800 Hours
Lubrication Quantity	30g / 60g

ADDITIONAL DATA

Down Thrust	3200 lbs
Shaft Material	45 Carbon Steel
Connection Diagram	12 Lead 2Δ/Δ
Approximate Weight	591 lbs.

Vertical Hollow Shaft Motor Drawing



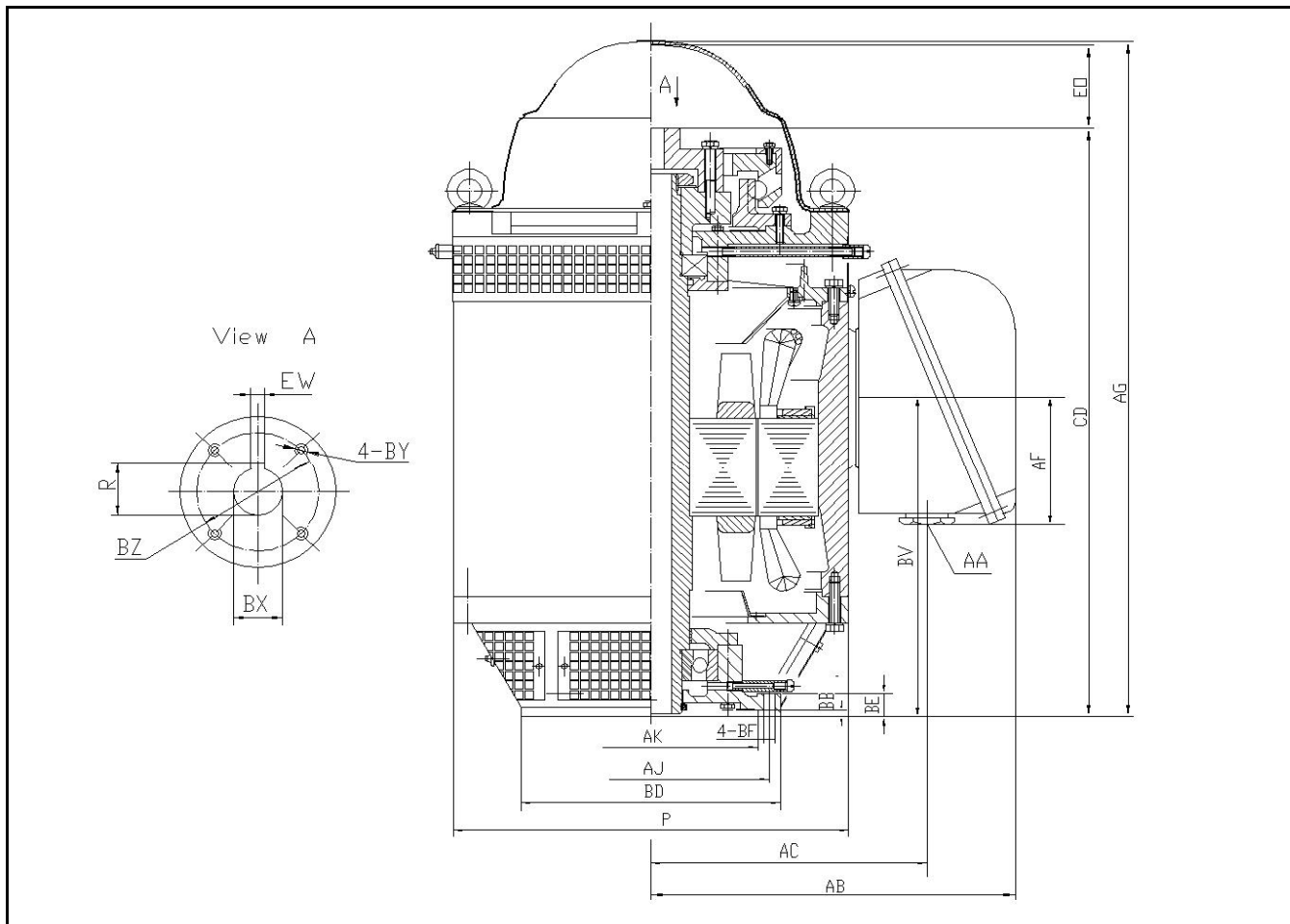
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286TP - 16.5 BD



DIMENSIONS - INCHES

COUPLING - STANDARD BORE				
BX	EW	R	BY	BZ
1	1/4	1.13	10-32	1-3/8

OVERALL			
P	AB	AG	BV
15.24	14.39	28.2	12.6

1

BASE						
AJ	AK	BB	BD	BF	EO	BE
14.75	13.5	0.25	16.5	4 * 0.69	3.22	0.79
CD	AC	AF	AA			
24.75	10.6	5.83	3 NPT			

Revised - 5/11/2022



PERFORMANCE CURVES

Premium Efficiency Motor:

WPEVHS30-18-286TP-16.5

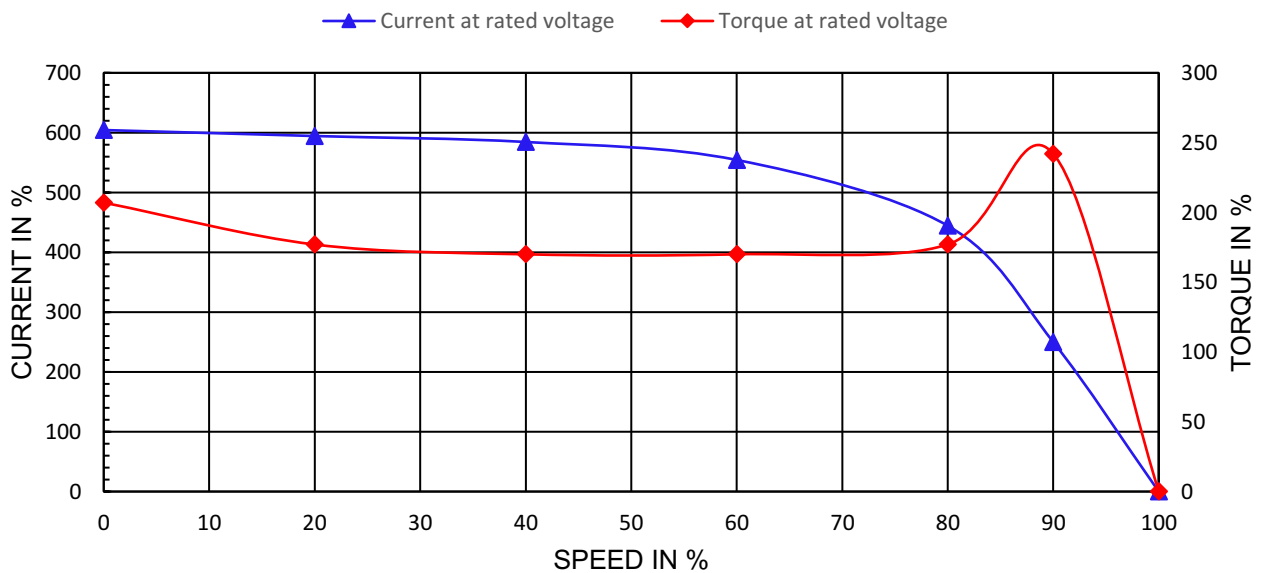
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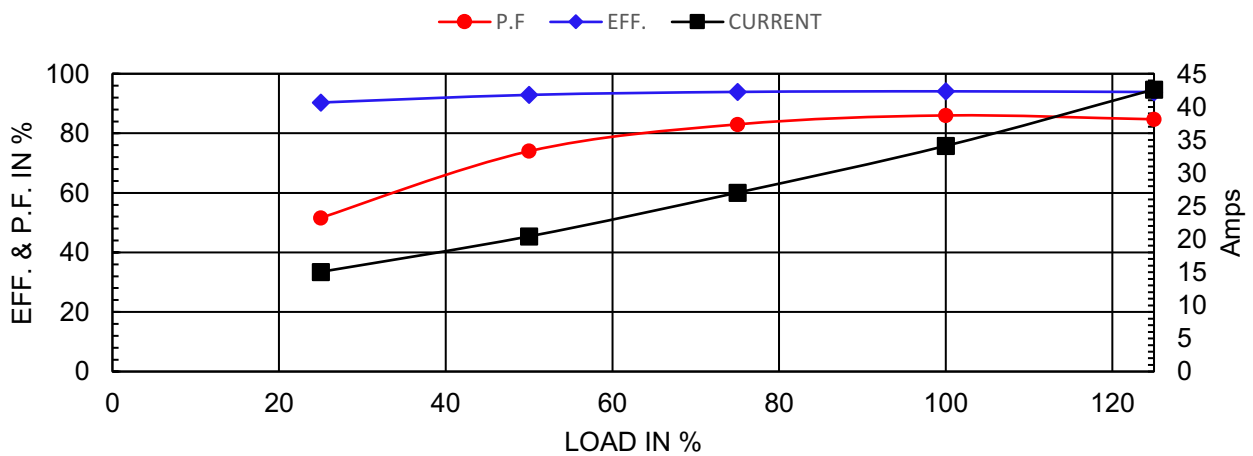
Customer:

Motor Type	WPEVHS				
Output Rating (HP)	30		FL Speed	1785	
Full Load Torque	88	lb.ft	LRT (%FLT)	207	460 volt FLA 34.1A
Rotor Wk^2	94.1	lb-ft^2	BDT (%FLT)	242	230 volt FLA 68.2A

SPEED VS TORQUE & CURRENT CURVE



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





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NAMEPLATE / WIRING

Premium Efficiency Motor: **WPEVHS30-18-286TP-16.5**

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SAMPLE NAMEPLATE DATA

		PREMIUM EFFICIENCY THREE PHASE VHS MOTOR				CC326B
Model:						
Frame:	Ins Cl:	F	Hz:	60	50	230V T4 T9 T6 T8 T5 T7 T10 T11 T12 T2 T3 T1
HP:	AMB.	40 C	Volt:	230/460	200/400	
Duty:	CONT	Lbs.	Amps:			460V T4 T5 T6 T7 T8 T9 T10 T11 T12 T2 T3 T1
Nominal Eff:			RPM:			
Encl:	WPI DP		SF:			MADE IN CHINA
DE/ODE Brng:			SFA:	A	A	
S/N			LRA:	A	A	
Down thrust rating:					lbs.	
Inverter Rated 10:1 VT ROTATION 						
WORLDWIDE ELECTRIC CORPORATION						

Model	WPEVHS30-18-286TP-			60 Hz	50 Hz
16.5 Frame	286TP			Amps	
HP	30			68.2/34.1A	80/40A
Nom.Eff.	94.1%			RPM	
DE/ODE Brng	7312B 6212-			1785	1485
C3 SFA Down Thrust	3200 lbs			SF	
				1.15	1.15
				80/40A	94/47A
				LRA	
				412.2/206.1A	522/261A