



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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WorldWide
ELECTRIC CORPORATION



DATA SHEET

Premium Efficiency Motor: **WPEVHS100-18-404TP-16.5,**

60 Hz

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Customer:

MOTOR INFORMATION

HP	100
RPM	1800
Phase	3
Frequency	60 Hz
Voltage	230/460
Frame Size	404TP
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	G
Duty Cycle	S1 / Continuous
Slip	0.54%
NEMA Design	B
Moment of Inertia	35.7 lb.ft.^2
Locked Rotor Time (Hot)	61 seconds
Sound Pressure Level	97 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%	95.4 %	0.88
75%	95.2 %	0.87
50%	94.4 %	0.83

TORQUE

FULL LOAD	LRT	BDT
292 lb.ft.	211 %	246 %

AMPERAGE INFORMATION

	230V	460V
Full Load Amps	224A	112A
Locked Rotor Amps	1426A	713A
No Load Current	73A	36.5A

BEARING INFORMATION

Lower (DE) Bearing	6317-C3
Upper (ODE) Bearing	7230B
DE Lubrication Type	Mobil Polyrex EM
ODE Lubrication Type	ISO VC 32 Oil
DE Regreasing Interval	3800 Hours
ODE Regreasing Interval	3800 Hours
Lubrication Quantity	70g / 4.76qt

ADDITIONAL DATA

Down Thrust	6700 lbs
Shaft Material	45 Carbon Steel
Connection Diagram	12 Lead 2Δ/Δ
Approximate Weight	1455 lbs.



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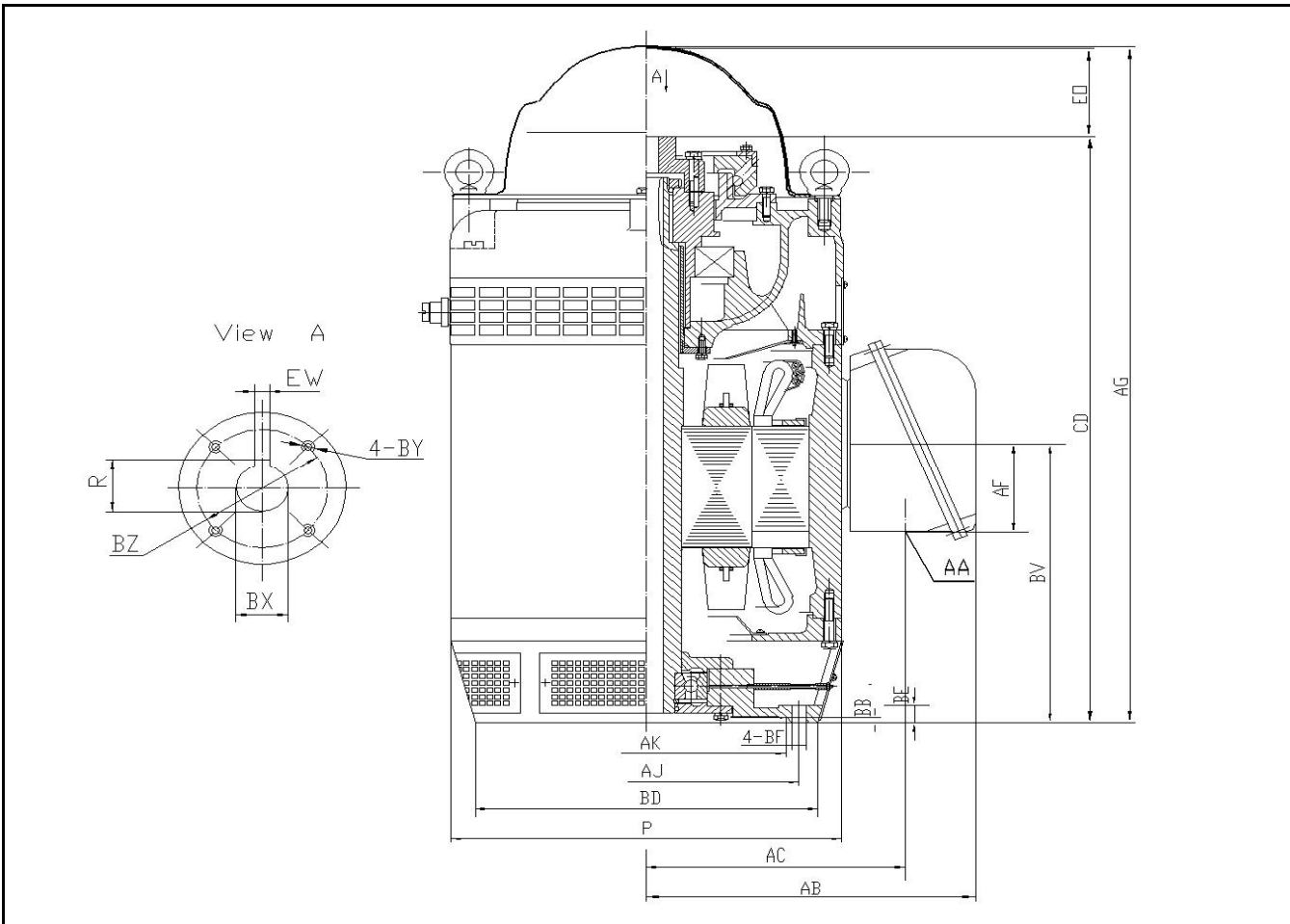
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Vertical Hollow Shaft Motor Drawing

404TP - 16.5 BD



DIMENSIONS - INCHES

COUPLING - STANDARD BORE				
BX	EW	R	BY	BZ
1-1/2	3/8	1.668	1/4-20	2-1/8

OVERALL			
P	AB	AG	BV
21	17.3	42.2	19.31

BASE						
AJ	AK	BB	BD	BF	EO	BE
14.75	13.5	0.25	16.5	4 * 0.69	4.56	0.99

CD	AC	AF	AA
36.94	13.68	5.83	3 NPT



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PERFORMANCE CURVES

Premium Efficiency Motor:

WPEVHS100-18-404TP-16.5

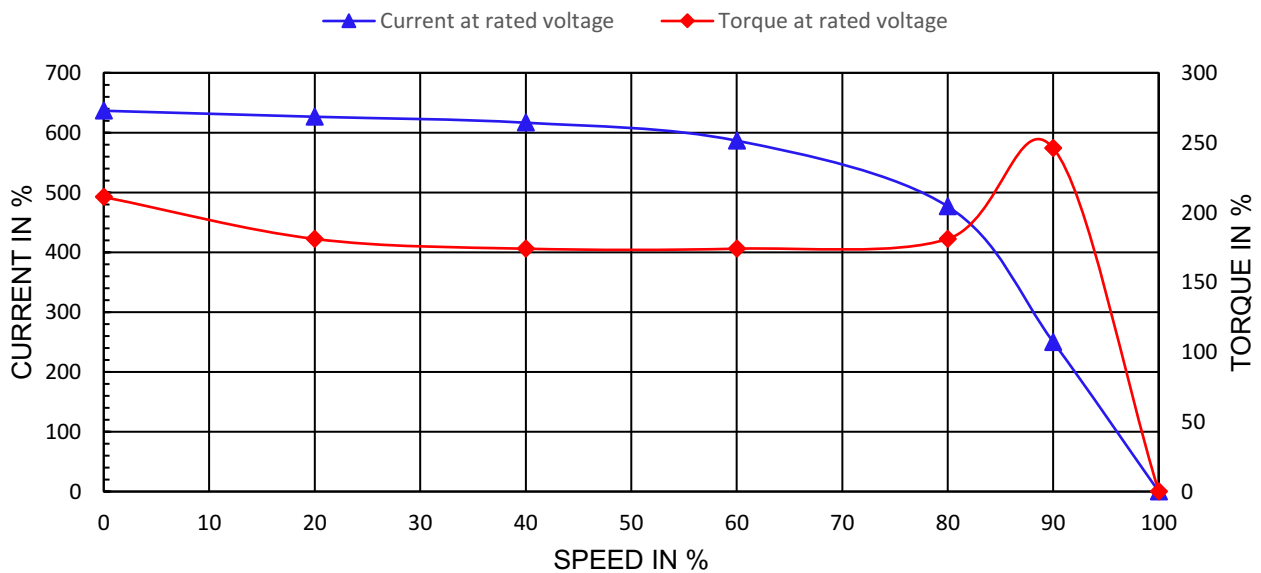
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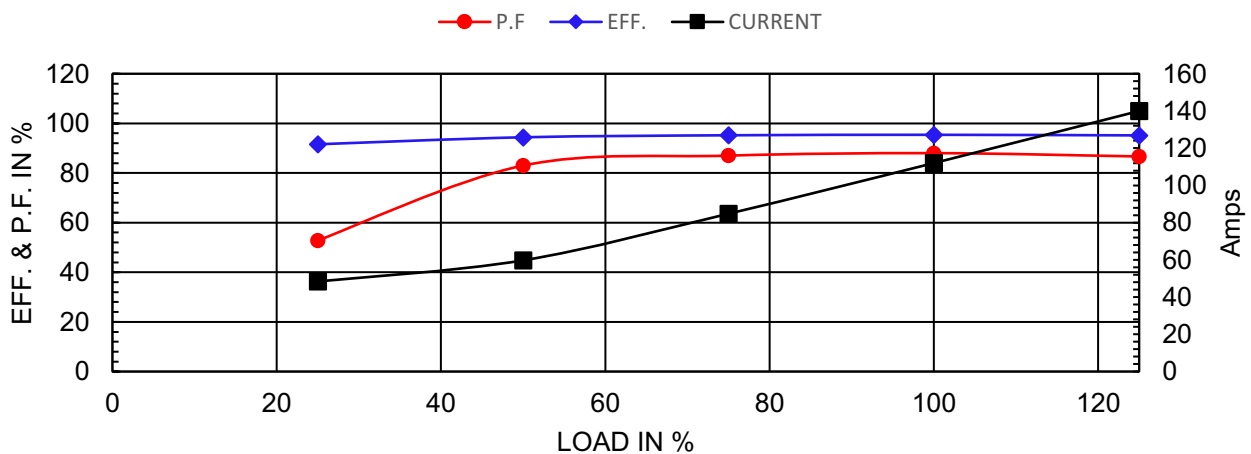
Customer:

Motor Type	WPEVHS			
Output Rating (HP)	100	FL Speed	1785	
Full Load Torque	292 lb.ft	LRT (%FLT)	211	460 volt FLA 112A
Rotor Wk^2	95.4 lb-ft^2	BDT (%FLT)	246	230 volt FLA 224A

SPEED VS TORQUE & CURRENT CURVE



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





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NAMEPLATE / WIRING

Premium Efficiency Motor: **WPEVHS100-18-404TP-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 460V T4 T5 T6 T7 T8 T9 T10 T11 T12 T2 T3 T1 MADE IN CHINA
HP:	AMB. 40 C	Volt:	230/460	200/400	
Duty: CONT	Lbs.	Amps:			
Nominal Eff:		RPM:			
Encl: WPI DP		SF:			
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	WPEVHS100-18-404TP-16.5			60 Hz	50 Hz
Frame	404TP			Amps	
HP	100			224/112A	262/131A
Nom.Eff.	95.4%			RPM	
DE/ODE Brng	6317-C3	7230B		1785	1485
Down Thrust	6700 lbs			SF	
				1.15	1.15
				SFA	
				256/128A	326/163A
				LRA	
				1426/713A	1568/784A