

DATA SHEET

Premium Efficiency Motor: **WPEVHS100-18-460-404TP-DB-16.5, 60 Hz**

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



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Customer:

MOTOR INFORMATION	
HP	100
RPM	1800
Phase	3
Frequency	60 Hz
Voltage	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

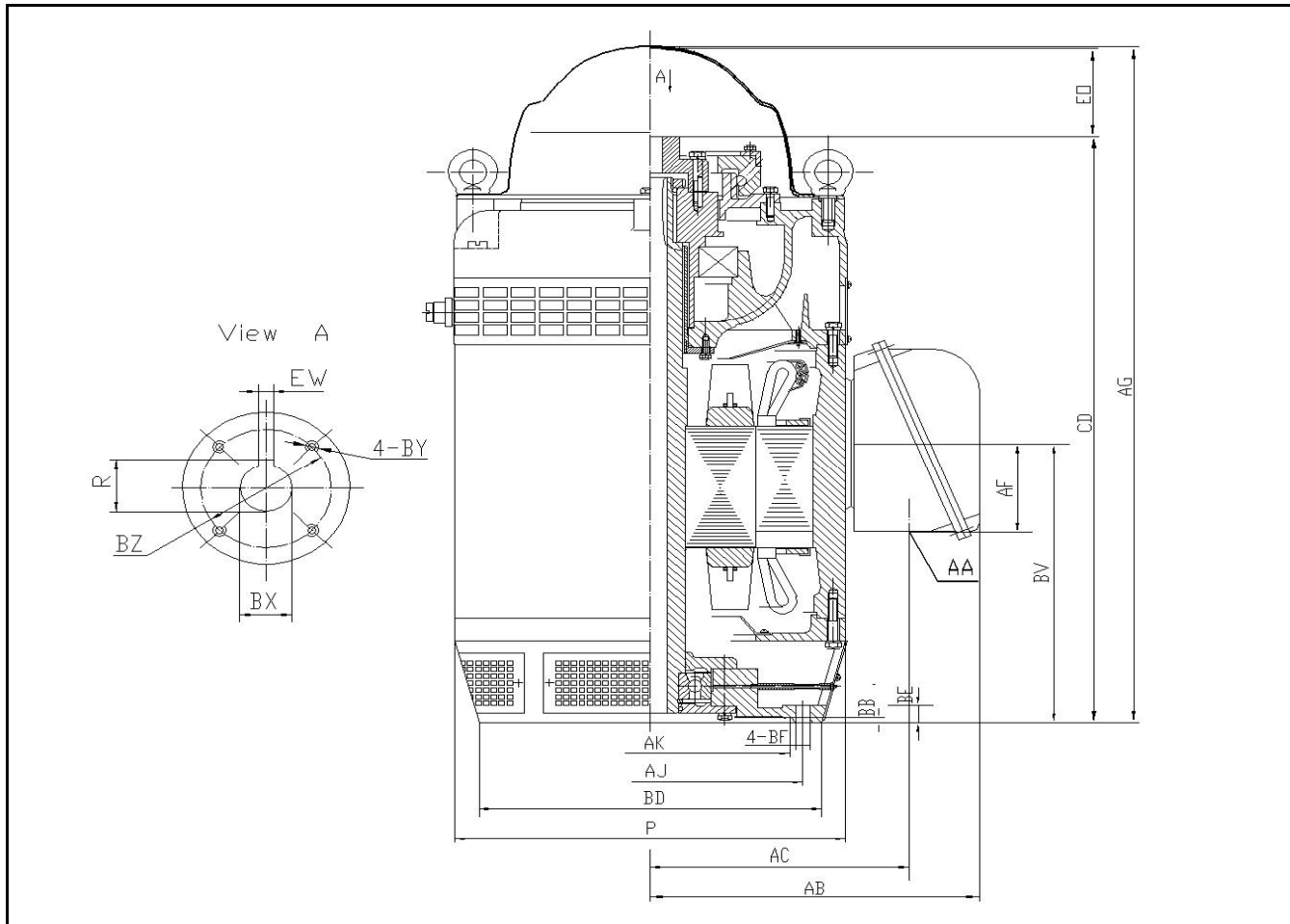
TORQUE		
FULL LOAD	LRT	BDT
292 lb.ft.	211 %	246 %

AMPERAGE INFORMATION		
	230V	460V
Full Load Amps	-A	112A
Locked Rotor Amps	-A	713A
No Load Current	-A	36.5A

BEARING INFORMATION	
Lower (DE) Bearing	6317-C3
Upper (ODE) Bearing	7230B/DT
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	13400 lbs
Shaft Material	45 Carbon Steel
Connection Diagram	12 Lead Δ
Approximate Weight	1455 lbs.

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

PERFORMANCE CURVES

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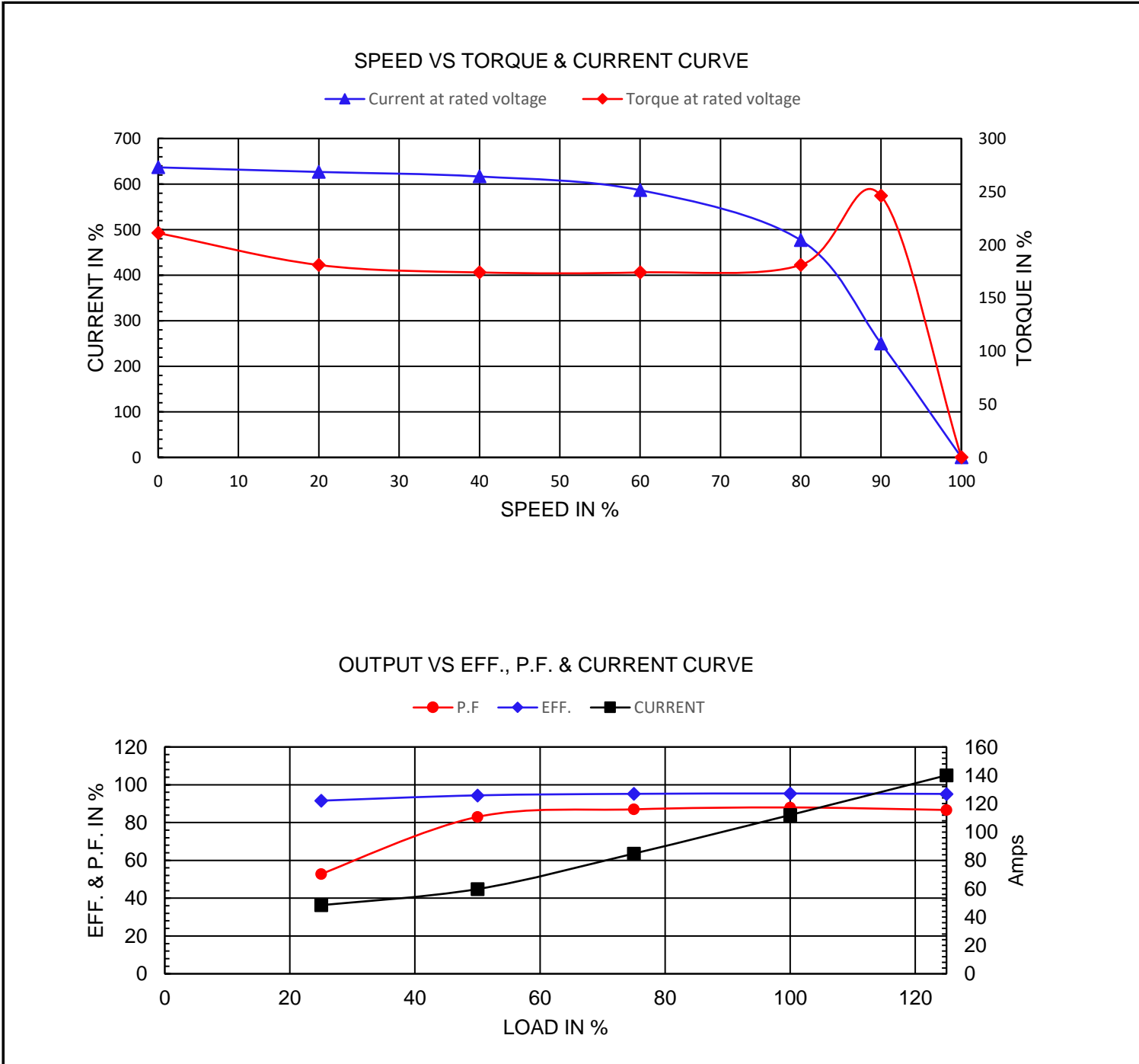
Premium Efficiency Motor:

WPEVHS100-18-460-404TP-DB-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	-A



NAMEPLATE / WIRING

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Premium Efficiency Motor: **WPEVHS100-18-460-404TP-DB-16.5**

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SAMPLE NAMEPLATE DATA

		PREMIUM EFFICIENCY THREE PHASE VHS MOTOR				CC326B														
Model:																				
Frame:	Ins Cl: F	Hz:	60	50	<table border="1"> <tr> <td colspan="2">460V</td> </tr> <tr> <td>T4</td> <td>T9</td> <td>T6</td> </tr> <tr> <td>T8</td> <td>T5</td> <td>T7</td> </tr> <tr> <td>T10</td> <td>T11</td> <td>T12</td> </tr> <tr> <td>T2</td> <td>T3</td> <td>T1</td> </tr> </table>		460V		T4	T9	T6	T8	T5	T7	T10	T11	T12	T2	T3	T1
460V																				
T4	T9	T6																		
T8	T5	T7																		
T10	T11	T12																		
T2	T3	T1																		
HP:	AMB. 40 C	Volt:	460	400	MADE IN CHINA															
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	WPEVHS100-18-460-404TP-DB-16.5	60 Hz	50 Hz
Frame	404TP	Amps	112A
HP	100	RPM	131A
Nom.Eff.	95.4%	SF	1785
DE/ODE Brng	6317-C3 7230B/DT	SFA	1485
Down Thrust	13400 lbs	LRA	1.15
			163A
			784A