



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
Fax: 888-226-4917
Cell: 402-679-1579
E-Mail: kelly@electricalhelper.com



WorldWide
ELECTRIC CORPORATION



DATA SHEET

Premium Efficiency Motor: **WPEVHS125-18-460-405TP-16.5,**

60 Hz

Document Generated: 11-May-2022
Document ID:

Customer:

MOTOR INFORMATION

HP	125
RPM	1800
Phase	3
Frequency	60 Hz
Voltage	460
Frame Size	405TP
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	0.63%
NEMA Design	B
Moment of Inertia	37.8 lb.ft.^2
Locked Rotor Time (Hot)	49 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%	95.4 %	0.87
50%	94.7 %	0.84

TORQUE

FULL LOAD	LRT	BDT
365 lb.ft.	209 %	274 %

AMPERAGE INFORMATION

	230V	460V
Full Load Amps	-A	139A
Locked Rotor Amps	-A	812.9A
No Load Current	-A	45.6A

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 △
Approximate Weight	1505 lbs.

Vertical Hollow Shaft Motor Drawing



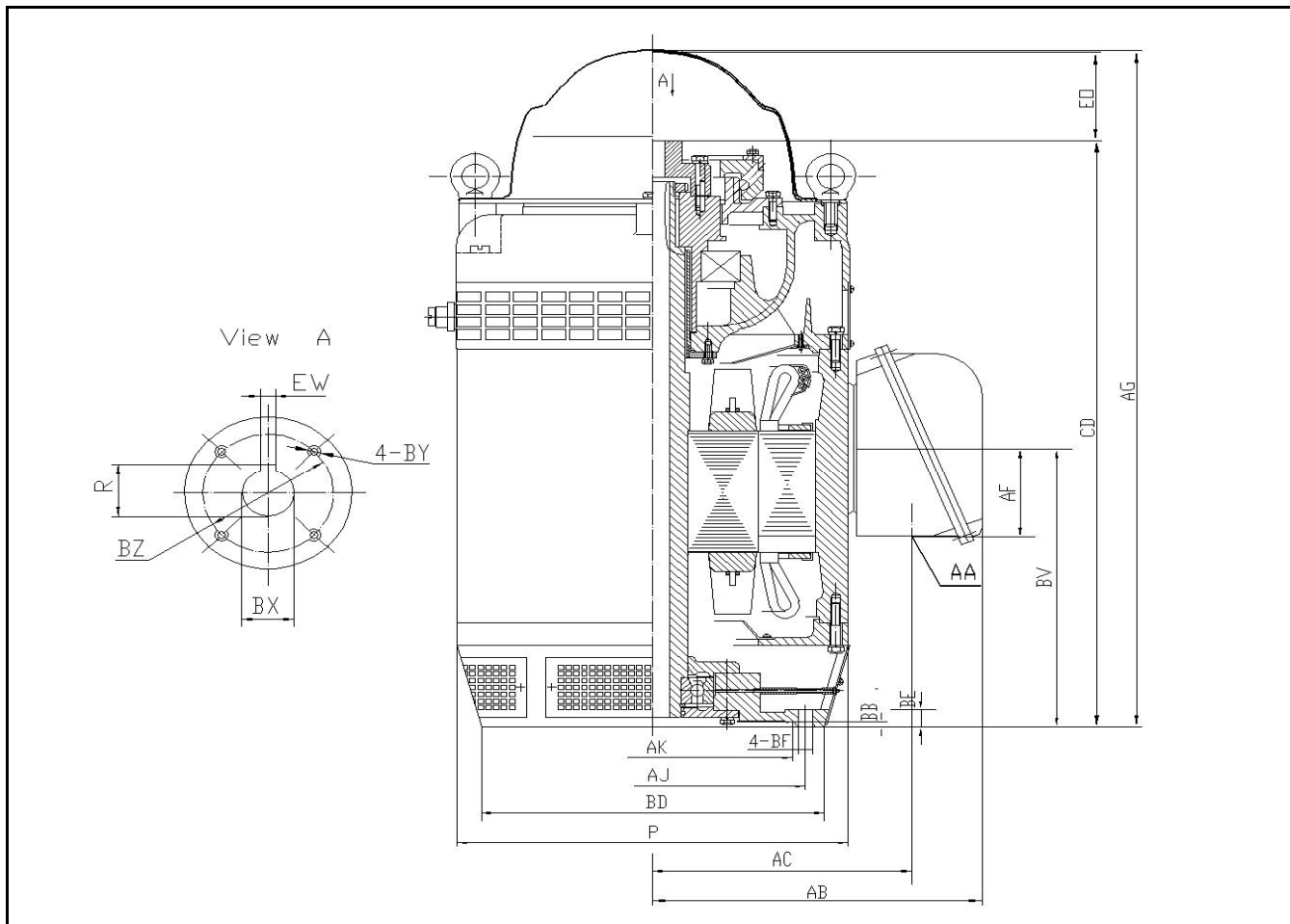
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405TP - 16.5 BD



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

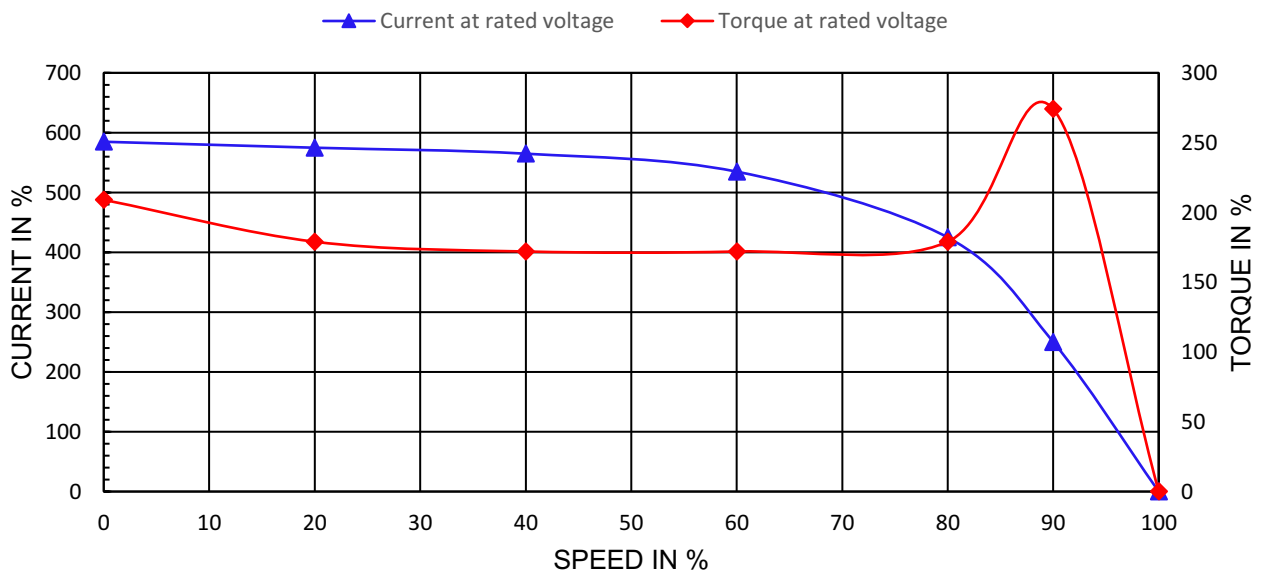
Premium Efficiency Motor:

WPEVHS125-18-460-405TP-16.5

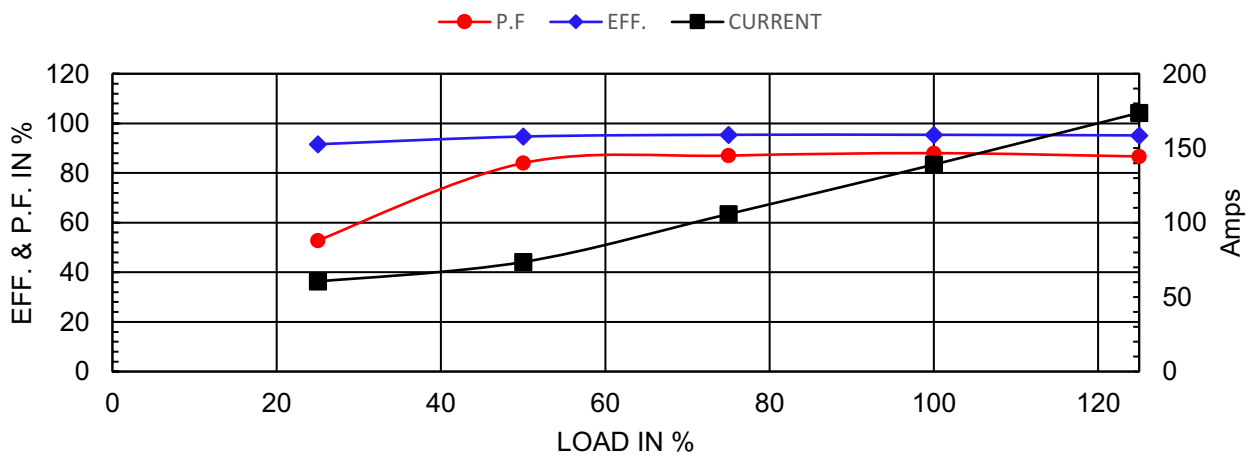
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Motor Type	WPEVHS		FL Speed	1785		
Output Rating (HP)	125		LRT (%FLT)	209	460 volt FLA	139A
Full Load Torque	365	lb.ft	BDT (%FLT)	274	230 volt FLA	-A
Rotor Wk^2	95.4	lb-ft^2				

SPEED VS TORQUE & CURRENT CURVE



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



NAMEPLATE / WIRING

Premium Efficiency Motor: **WPEVHS125-18-460-405TP-16.5**



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SAMPLE NAMEPLATE DATA

		PREMIUM EFFICIENCY THREE PHASE VHS MOTOR			CC326B
Model:					
Frame:	Ins Cl: F	Hz:	60	50	460V T4 T9 T6 T8 T5 T7 T10 T11 T12 T2 T3 T1 MADE IN CHINA
HP:	AMB. 40 C	Volt:	460	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	WPEVHS125-18-460-405TP-16.5		60 Hz	50 Hz
Frame	405TP		Amps	139A
HP	125		RPM	1785
Nom.Eff.	95.4%		SF	1.15
DE/ODE Brng	6317-C3	7230B	SFA	162A
Down Thrust	6700 lbs		LRA	812.9A
				1125A