



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: **WPEVHS40-18-324TP-16.5,**

60 Hz

Document Generated: 11-May-2022
Document ID:

Customer:

MOTOR INFORMATION

HP	40
RPM	1800
Phase	3
Frequency	60 Hz
Voltage	230/460
Frame Size	324TP
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	0.93%
NEMA Design	B
Moment of Inertia	11.4 lb.ft.^2
Locked Rotor Time (Hot)	58 seconds
Sound Pressure Level	91 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 %	0.87
75%	93.9 %	0.84
50%	92.8 %	0.77

TORQUE

FULL LOAD	LRT	BDT
117 lb.ft.	201 %	264 %

AMPERAGE INFORMATION

	230V	460V
Full Load Amps	92A	46A
Locked Rotor Amps	561.2A	280.6A
No Load Current	33A	16.5A

BEARING INFORMATION

Lower (DE) Bearing	6213-C3
Upper (ODE) Bearing	7221B
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	40g / 2.34qt

ADDITIONAL DATA

Down Thrust	5500 lbs
Shaft Material	45 Carbon Steel
Connection Diagram	12 Lead 2Δ/Δ
Approximate Weight	761 lbs.

Vertical Hollow Shaft Motor Drawing



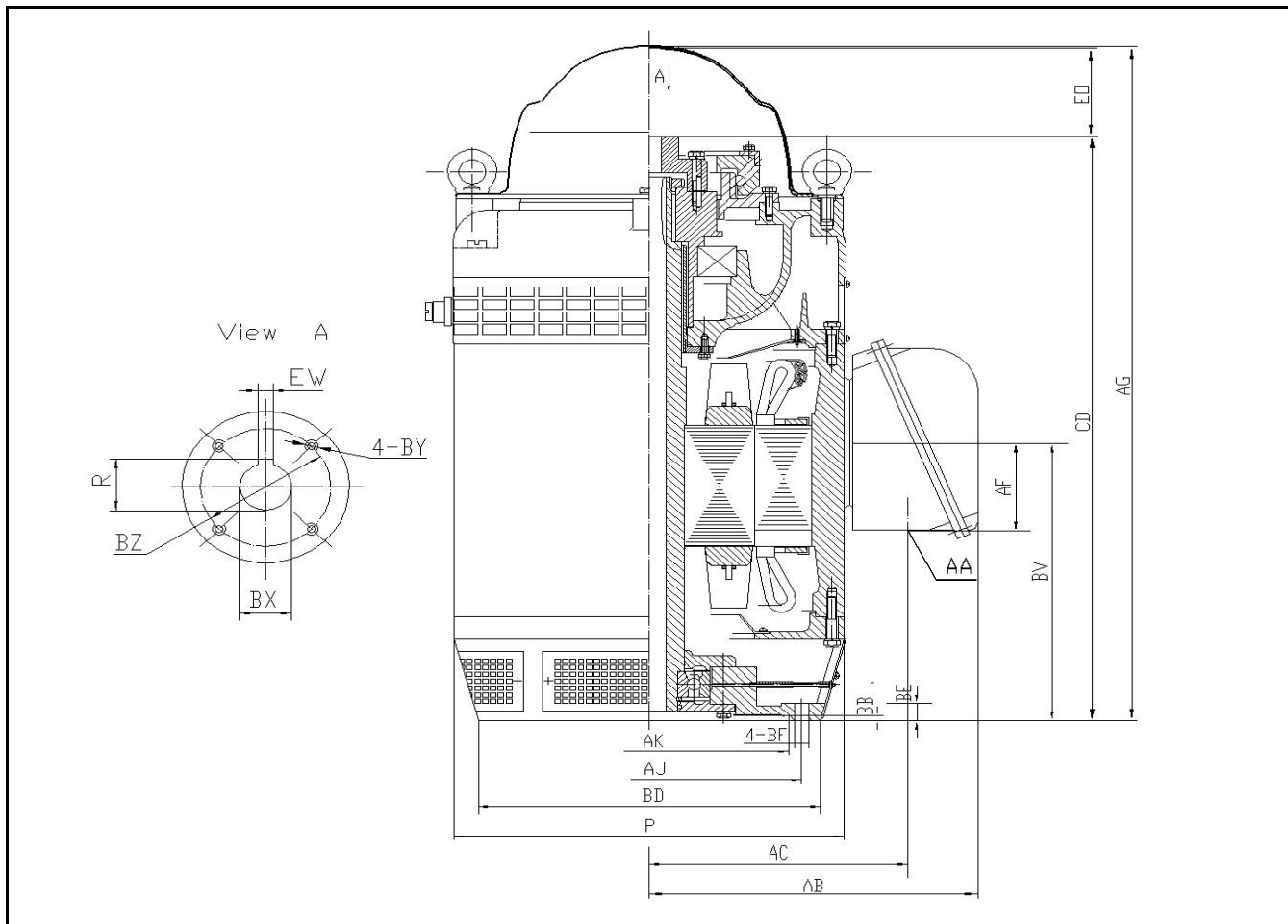
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324TP - 16.5 BD



DIMENSIONS - INCHES

COUPLING - STANDARD BORE				
BX	EW	R	BY	BZ
1-1/4	1/4	1.367	1/4-20	1-3/4

OVERALL			
P	AB	AG	BV
17.32	15.44	32.7	14.58

BASE						
AJ	AK	BB	BD	BF	EO	BE
14.75	13.5	0.25	16.5	4 * 0.69	4.22	0.79

CD	AC	AF	AA
28.22	11.65	5.83	3 NPT



PERFORMANCE CURVES

Premium Efficiency Motor:

WPEVHS40-18-324TP-16.5

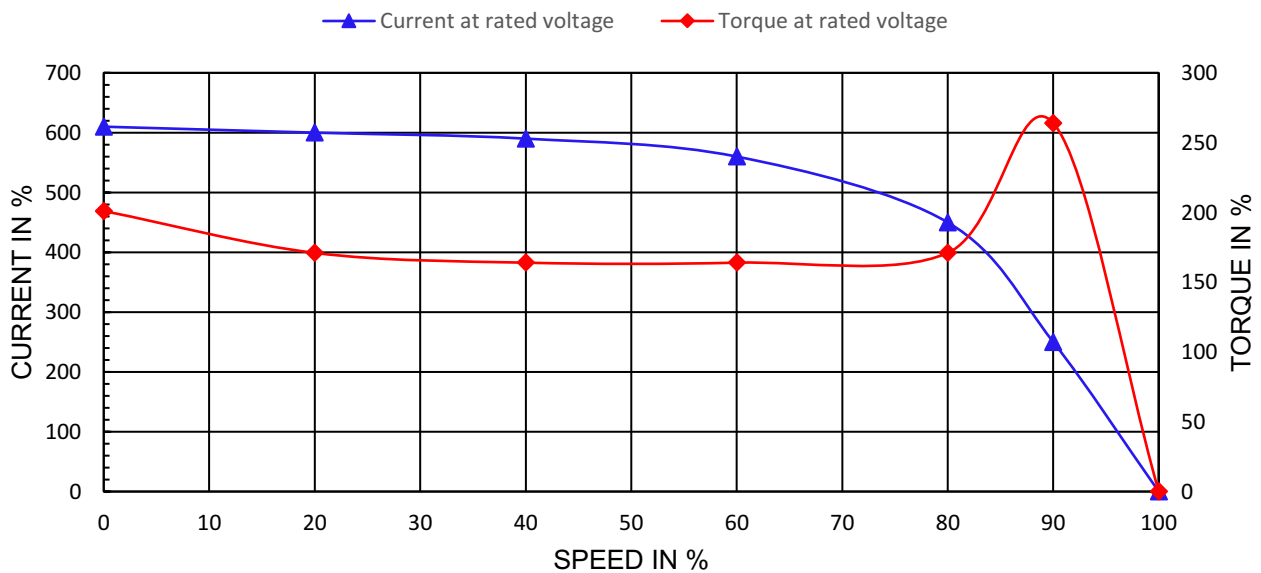
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Document ID:

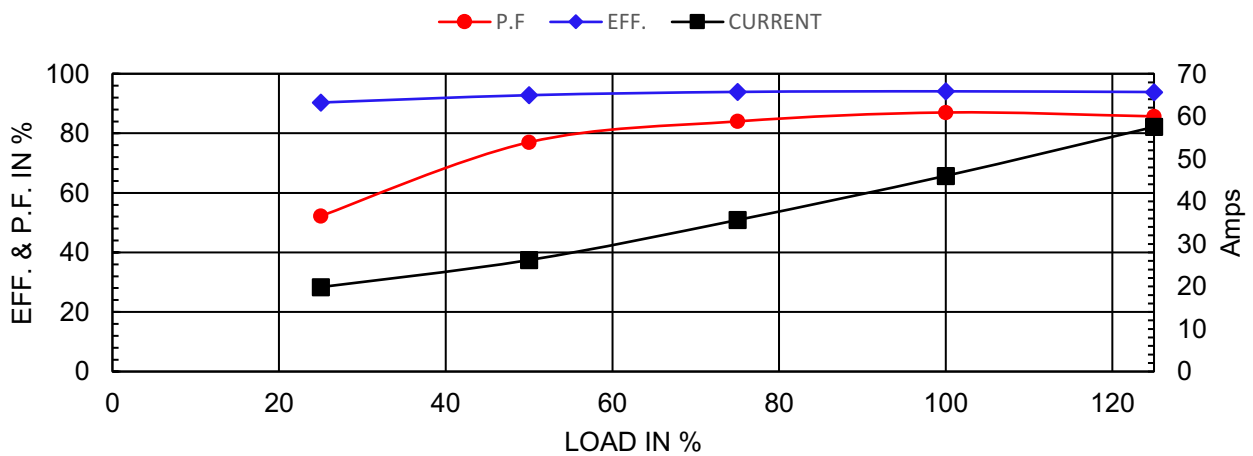
Customer:

Motor Type	WPEVHS			
Output Rating (HP)	40	FL Speed	1785	
Full Load Torque	117 lb.ft	LRT (%FLT)	201	460 volt FLA 46A
Rotor Wk^2	94.1 lb-ft^2	BDT (%FLT)	264	230 volt FLA 92A

SPEED VS TORQUE & CURRENT CURVE



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





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NAMEPLATE / WIRING

Premium Efficiency Motor: **WPEVHS40-18-324TP-16.5**

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SAMPLE NAMEPLATE DATA

 PREMIUM EFFICIENCY THREE PHASE VHS MOTOR		 CC326B
Model:		
Frame:	Ins Cl: F	Hz: 60 50
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		

MADE IN CHINA

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

Model	WPEVHS40-18-324TP-16.5		
Frame	324TP	Amps	60 Hz 92.0/46.0A 50 Hz 104/52A
HP	40	RPM	1785 1485
Nom.Eff.	94.1%	SF	1.15 1.15
DE/ODE Brng	6213-C3 7221B	SFA	104/52A 116/58A
Down Thrust	5500 lbs	LRA	561.2/280.6A 618/309A