

DATA SHEET

Premium Efficiency Motor: **WPEVHS20-18-256TP-16.5,**

60 Hz



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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MOTOR INFORMATION

HP	20
RPM	1800
Phase	3
Frequency	60 Hz
Voltage	230/460
Frame Size	256TP
Enclosure	ODP - WPI
Degree of Protection	IP23
Service Factor	1.15
Poles	4
Full Load	1785
Speed	F
Temperature Class	80°C
NEMA Code Letter	G
Duty	S1 / Continuous
Slip	1.08%
NEMA Design	B
Moment of Inertia	4.66 lb.ft.^2
Locked Rotor Time	68 seconds
(Hot) Sound Pressure	88 dB(A)
Number of Starts	3 Cold / 2 Hot
Max Ambient	40°C
Temperature	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%		93.0	
%	0.869	92.5%	0.82
50%		91.6 %	0.7

TORQUE

FULL LOAD	LRT	BD
58 lb.ft.	198 %	254 %

AMPERAGE INFORMATION

	230V	460V
Full Load Amps	47A	23.5A
Locked Rotor	285.2A	142.6
Amps No Load	A 16.8A	8.4A

Current

BEARING INFORMATION

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

Quantity

30g / 60g

ADDITIONAL DATA

Down Thrust	3200 lbs
Shaft Material	45 Carbon Steel
Connection Diagram	
Approximate Weight	121 lbs. 2Δ/Δ

Weight



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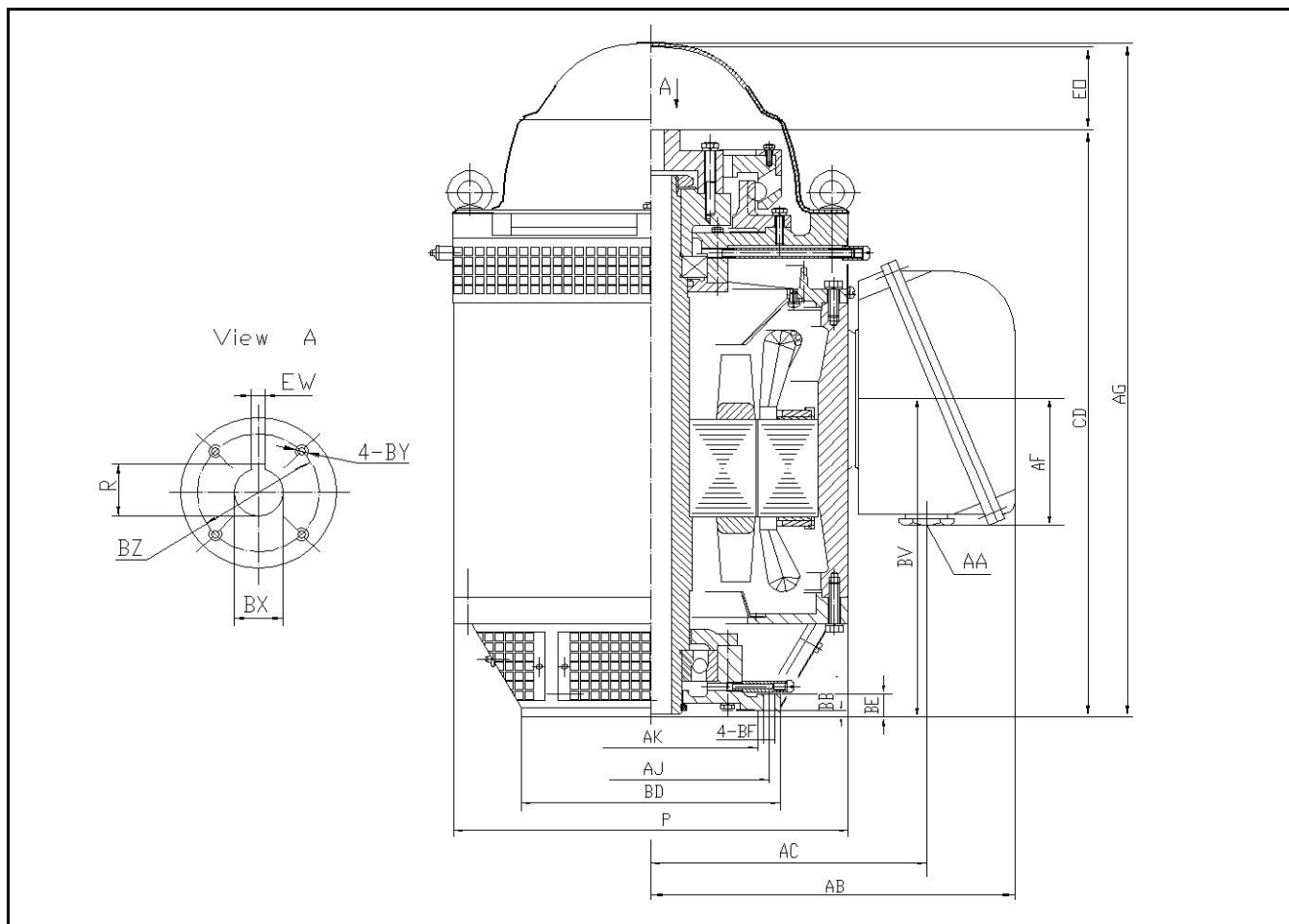
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256TP - 16.5 BL



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	26.8	11.8

2

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		
	23.38	10.6	5.83	3 NPT		



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PERFORMANCE CURVES

Premium Efficiency Motor:

WPEVHS20-18-256TP-16.5

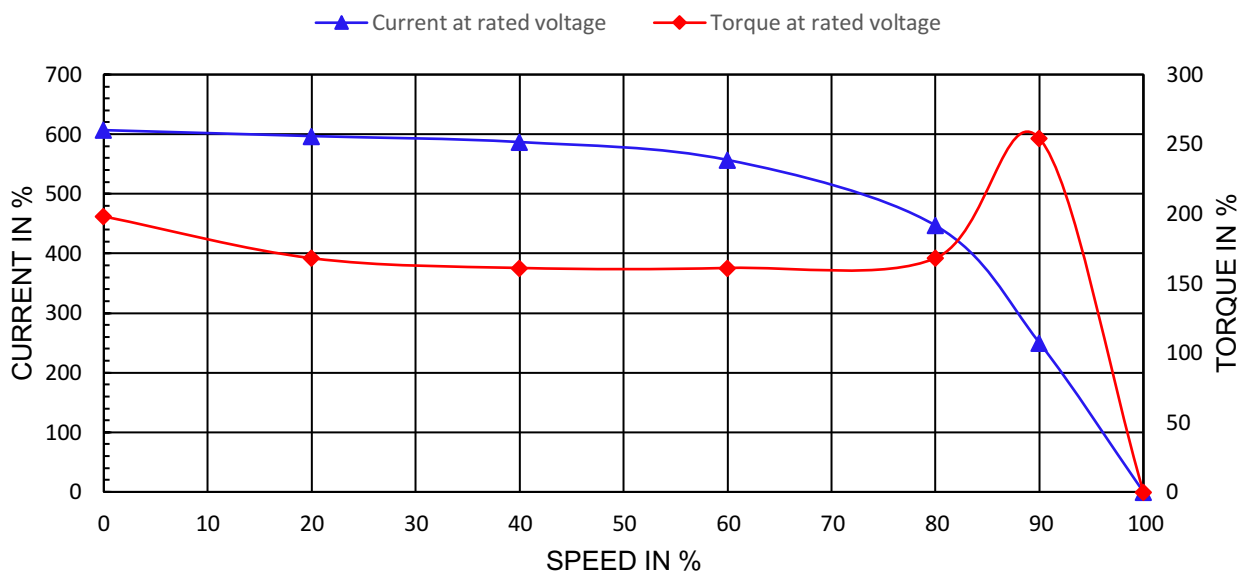
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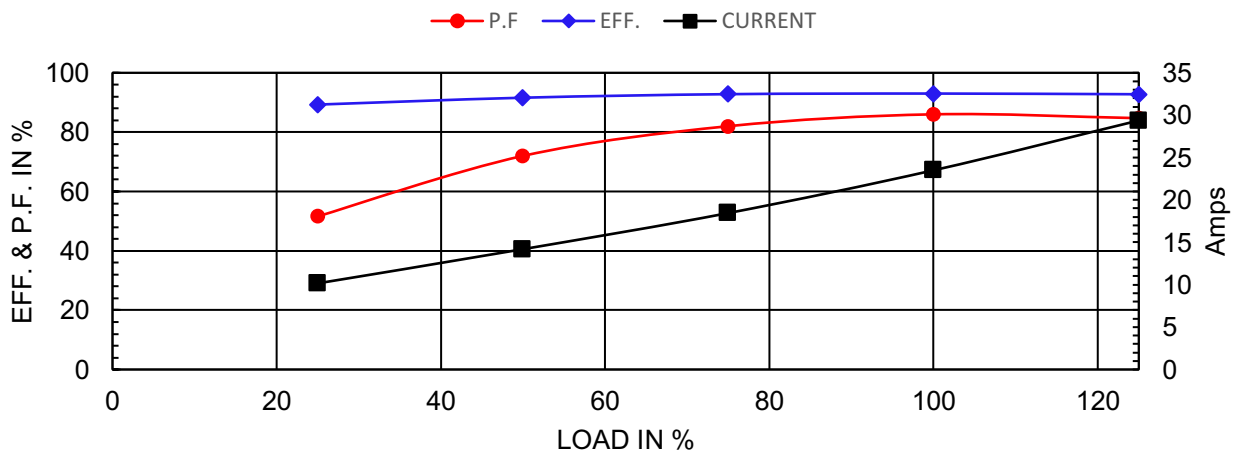
Motor Type	WPEVHS				
Output Rating	20		FL Speed	1785	
(HP) Full Load	58	lb.ft	LRT (%FLT)	198	460 volt FLA 23.5A
Torque Rotor	93	lb-ft^2	BDT (%FLT)	254	230 volt FLA 47A

Wk^2

SPEED VS TORQUE & CURRENT CURVE



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



NAMEPLATE / WIRING

Premium Efficiency Motor: **WPEVHS20-18-256TP-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		

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

Model	WPEVHS20-18-256TP-		60 Hz	50 Hz
16.5 Frame	256TP	Amps	47.0/23.5A	54/27A
HP	20	RPM	1785	1485
Nom.Eff.	93.0%	SF	1.15	1.15
DE/ODE Brng	7312B 6212-		54/27A	62/31A
C3 SFA Down Thrust	3200 lbs	LRA	285.2/142.6A	362/181A