

DATA SHEET

Premium Efficiency Motor: **NATE1-18-56CRD**

60 Hz

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



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Customer:

MOTOR INFORMATION

HP	1
RPM	1800
Phase	3
Frequency	60 Hz
Voltage	230/460
Frame Size	56HC
Enclosure	TEFC
Degree of Protection	IP43
Service Factor	1.15
Poles	4
Full Load Speed	1760
Insulation Class	F
Temp Rise	80°C
NEMA Code Letter	J
Duty Cycle	S1 / Continuous
Slip	0.02%
NEMA Design	B
Moment of Inertia	0.1069 lb.ft.^2
Sound Pressure Level	68 dB(A)
Max Ambient Temperature	40°C
Max Elevation	1000 m.a.s.l (3300 f.a.s.l)
Mounting	F1
Base	C-Face Footless
Rotation	Bi-Directional
Standard	NEMA MG-1
Approvals	CSA, CE

EFFICIENCY/POWER FACTOR

LOAD	EFF	P. F.
100%	85.7 %	69
75%	85.1 %	59.4
50%	82.1 %	46.0

TORQUE

FULL LOAD	LRT	BDT
3 lb.ft.	410 %	480 %

AMPERAGE INFORMATION

	230V	460V
Full Load Amps	3.29	1.61
Locked Rotor Amps	31.22	15.61
No Load Current	2.18	1.09
Usable at 208V	3	

BEARING INFORMATION

DE Bearing	6203 2RS
ODE Bearing	6203 2RS

ADDITIONAL DATA

F2 Suitable	No
Shaft Material	1045 Carbon Steel
Connection Diagram	230 / 460 V - 9 Lead Y
Approximate Weight	35 lbs.

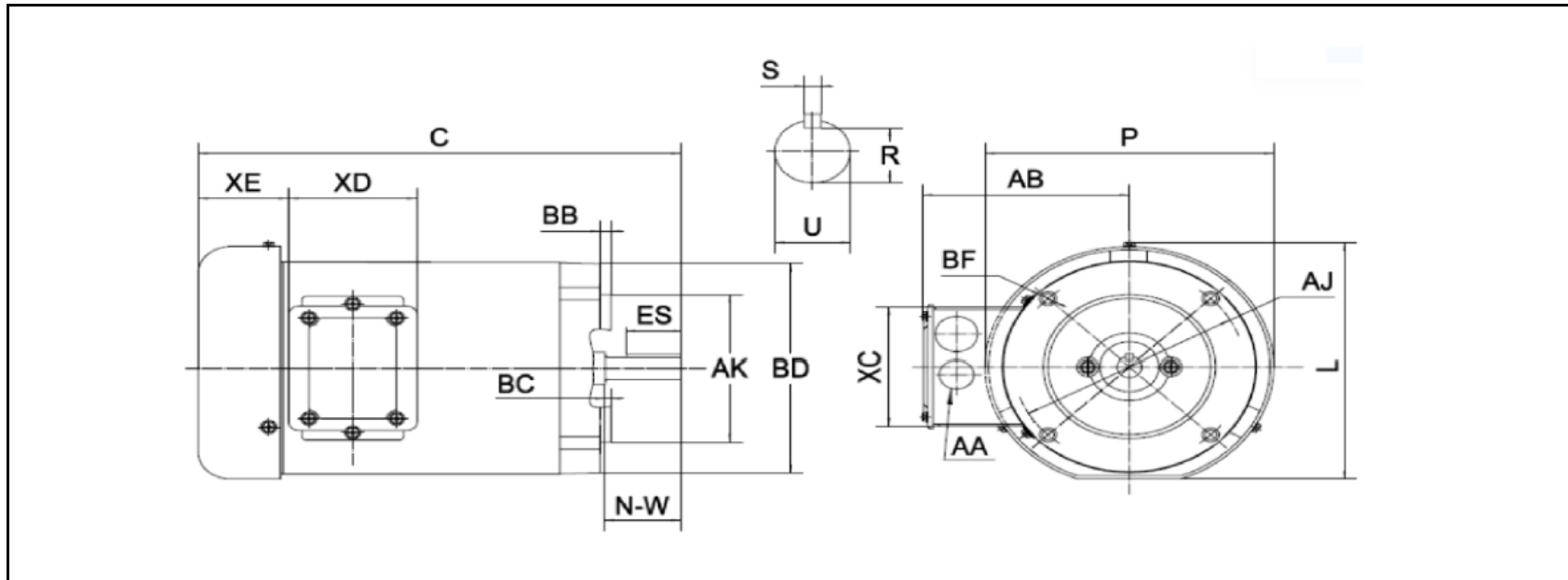
MOTOR DRAWING

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DIMENSION - INCHES

FLANGE MOUNTING						C	P	L	AB
AK	Max BD	AJ	BF	BB	BC				
4.5	5	5.875	3/8-16	0.16	-0.19	12.4	7.3	7.4	5.2

SHAFT & KEY				
S	ES	R	N-W	U
0.188	1.41	0.517	1.88	0.625

TERMINAL BOX				
AA	XB	XC	XD	XE
3-0.88/2-1.109	1.65	3.7	3.2	2.15

PERFORMANCE CURVES

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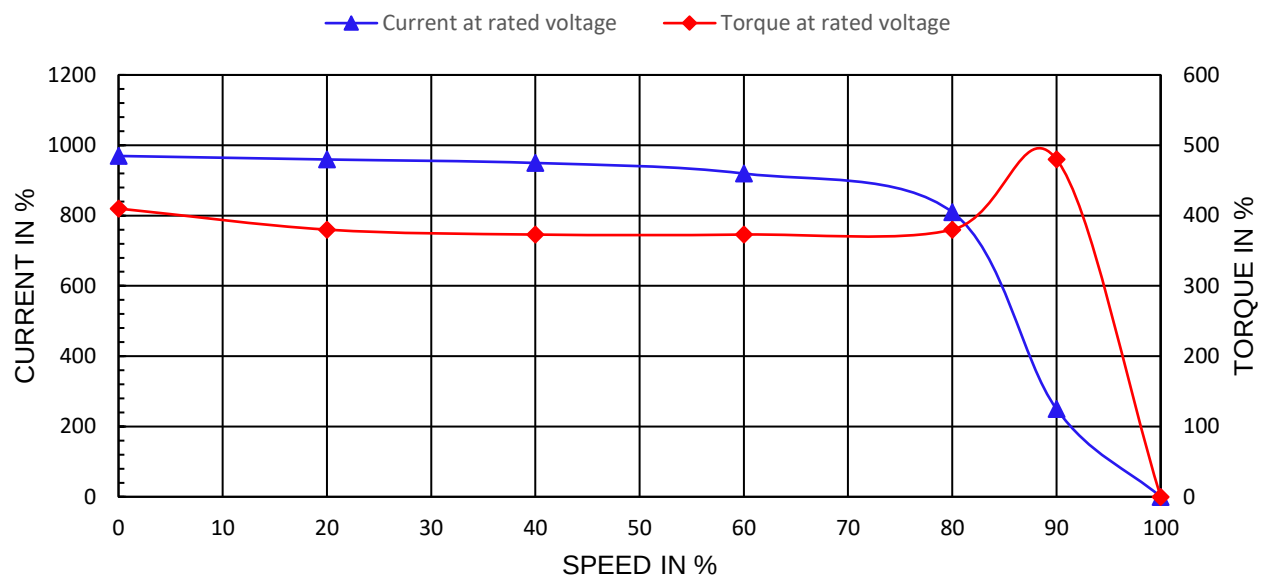
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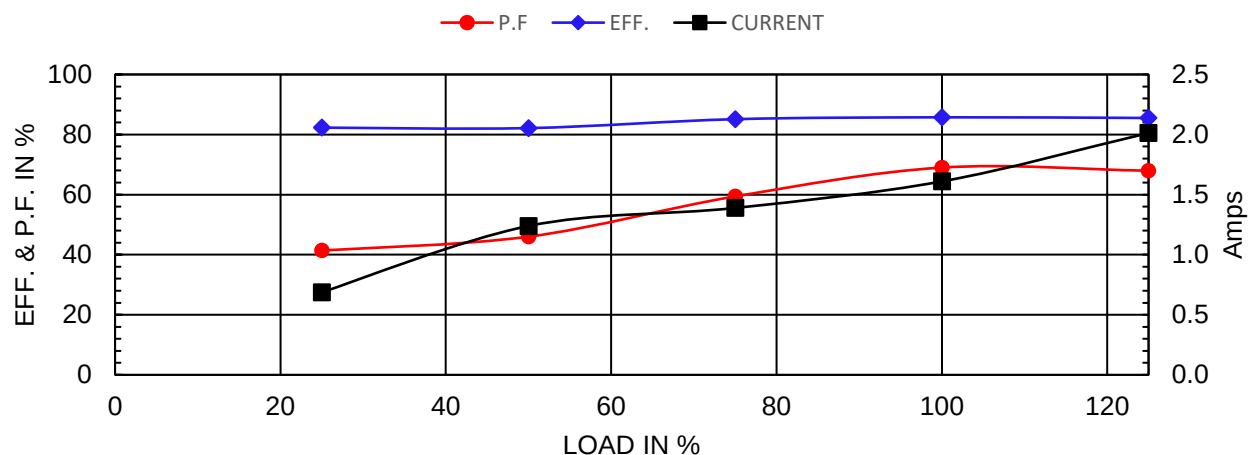
Customer:

Motor Type					
Output Rating (HP)	1		FL Speed	1760	
Full Load Torque	3 lb.ft		LRT (%FLT)	410	460 volt FLA 1.61
Rotor Wk^2	0.1069 lb-ft^2		BDT (%FLT)	480	230 volt FLA 3.29

SPEED VS TORQUE & CURRENT CURVE



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



NAMEPLATE / WIRING

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SAMPLE NAMEPLATE DATA

		THREE PHASE INDUCTION MOTOR				
				256950		CC315B
MODEL		FRAME		LOW VOLTAGE		HIGH VOLTAGE
Hz		ENCL. TEFC		BLUE (T1) — LINE1		BLUE (T1) — LINE1
HP		PH 3		BROWN (T7) — LINE1		WHITE (T2) — LINE2
RPM		DUTY CONT		WHITE (T2) — LINE2		ORANGE (T3) — LINE3
VOLTS		CODE		RED (T8) — LINE2		YELLOW (T4) — INS
AMPS		INS. F		ORANGE (T3) — LINE3		BROWN (T7) — INS
		DES.		YEL/BLA (T9) — LINE3		BLACK (T5) — INS
		LB/WT		YELLOW (T4) — INS		RED (T8) — INS
				BLACK (T5) — INS		GRAY (T6) — INS
				GRAY (T6) — INS		YEL/BLA (T9) — INS
NOM. EFF (60Hz)		DE/ODE BRG.		ACCEPTABLE FOR FIELD WIRING		
MAX. AMB. 40°C		Date Code XX/XXXXX		THERMALLY PROTECTED : NONE		
SERIAL NO. XXXXXXXXXX				WorldWide Electric Corporation		

Model	NATE1-18-56CRD	Frame	56HC
Hz	60 Hz 50Hz	Encl	TEFC
HP	1 3/4	PH	3
RPM	1760 1465	DUTY	CONT
Voltage	230/460 190/380	Code	J
Amps	3.29/1.61 3.06/1.53	Ins Cl	F
IP	IP43	Design	B
S.F.	1.15 1.15	LB/WT	35 lbs.
Nom.Eff.	85.7%	DE Brng	6203 2RS
		ODE Brng	6203 2RS