

# DATA SHEET

Premium Efficiency Motor: **NATE1.5-18-56CRD**

**60 Hz**

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



Document Generated: 24-Feb-2023  
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Customer:

MOTOR INFORMATION	
HP	1-1/2
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	0.1352 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%	86.8 %	71.9
75%	86.7 %	62.8
50%	84.3 %	49.5

TORQUE		
FULL LOAD	LRT	BDT
4.4 lb.ft.	490 %	495 %

AMPERAGE INFORMATION		
	230V	460V
Full Load Amps	4.73	2.26
Locked Rotor Amps	47.22	23.61
No Load Current	2.8	1.4
Usable at 208V	5	

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	42.6 lbs.

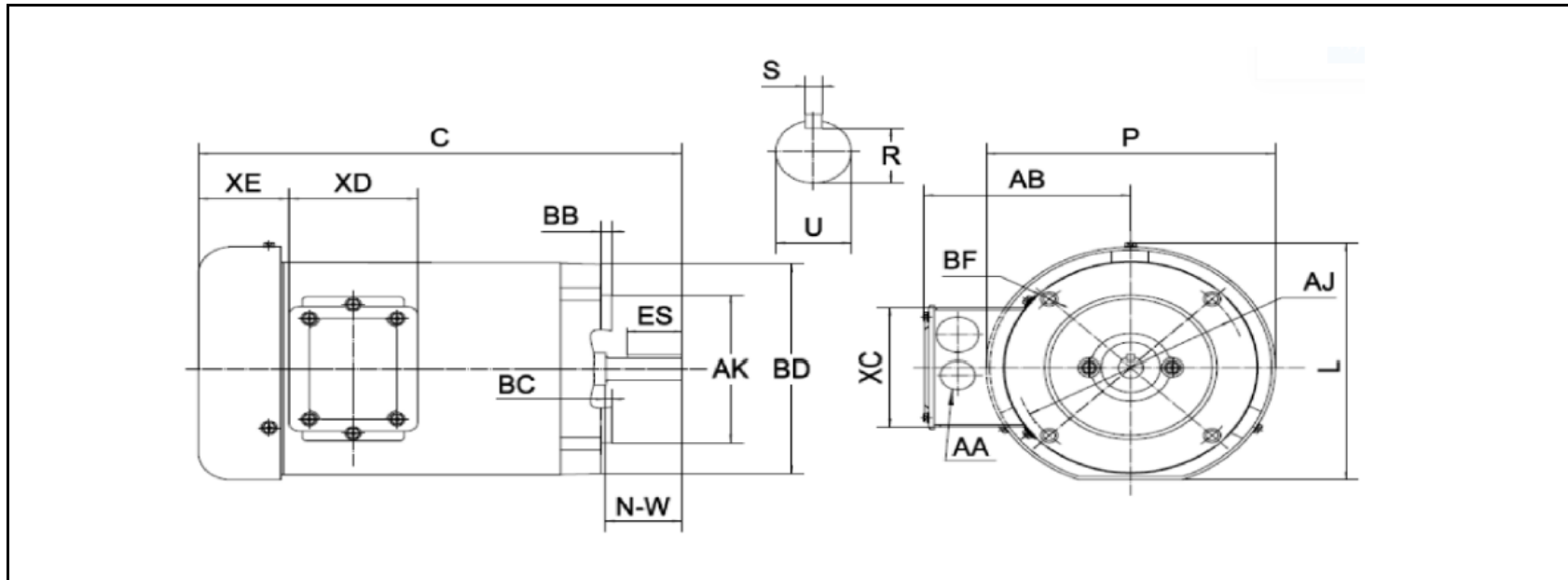
# MOTOR DRAWING

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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	13.4	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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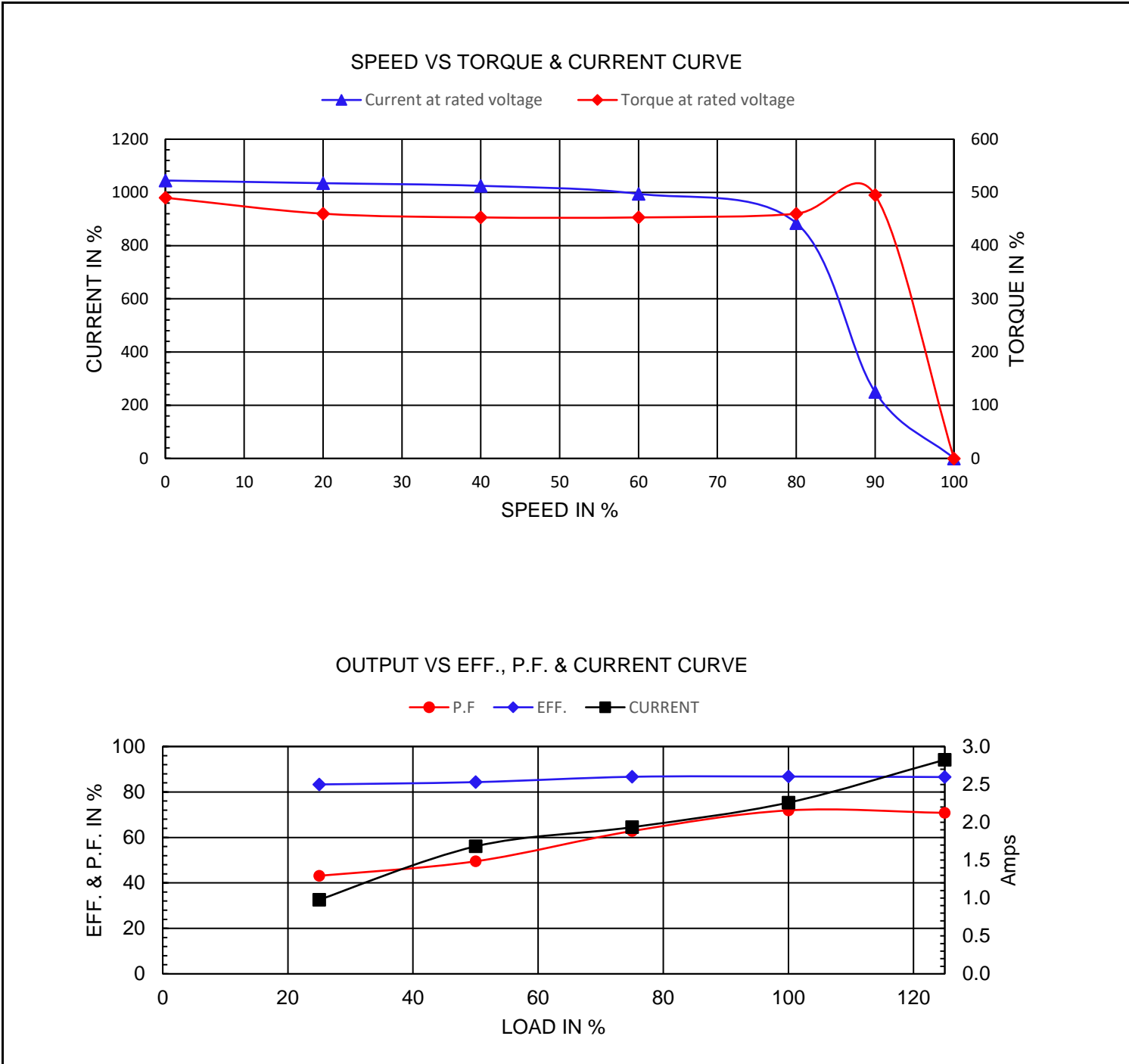
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Motor Type					
Output Rating (HP)	1-1/2		FL Speed	1760	
Full Load Torque	4.4 lb.ft		LRT (%FLT)	490	460 volt FLA 2.26
Rotor Wk <sup>2</sup>	0.1352 lb-ft <sup>2</sup>		BDT (%FLT)	495	230 volt FLA 4.73



# NAMEPLATE / WIRING

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## SAMPLE NAMEPLATE DATA

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

<b>Model</b>	NATE1.5-18-56CRD	<b>Frame</b>	56HC
<b>Hz</b>	60 Hz      50Hz	<b>Encl</b>	TEFC
<b>HP</b>	1-1/2      1	<b>PH</b>	3
<b>RPM</b>	1760      1465	<b>DUTY</b>	CONT
<b>Voltage</b>	230/460      190/380	<b>Code</b>	J
<b>Amps</b>	4.73/2.26      4.1/2.05	<b>Ins Cl</b>	F
<b>IP</b>	IP43	<b>Design</b>	B
<b>S.F.</b>	1.15      1.15	<b>LB/WT</b>	42.6 lbs.
<b>Nom.Eff.</b>	86.8%	<b>DE Brng</b>	6203 2RS
		<b>ODE Brng</b>	6203 2RS