

# DATA SHEET

Premium Efficiency Motor: **NATE1.5-36-56CRD**

**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	3600
Phase	3
Frequency	60 Hz
Voltage	230/460
Frame Size	56HC
Enclosure	TEFC
Degree of Protection	IP43
Service Factor	1.15
Poles	2
Full Load Speed	3500
Insulation Class	F
Temp Rise	80°C
NEMA Code Letter	H
Duty Cycle	S1 / Continuous
Slip	0.03%
NEMA Design	B
Moment of Inertia	0.0485 lb.ft.^2
Sound Pressure Level	73 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%	85.2 %	84.7
75%	84.8 %	78.9
50%	81.9 %	67.6

## TORQUE

FULL LOAD	LRT	BDT
2.21 lb.ft.	355 %	405 %

## AMPERAGE INFORMATION

	230V	460V
Full Load Amps	4.32	1.98
Locked Rotor Amps	37.98	18.99
No Load Current	1.8	0.9
Usable at 208V	4	

## 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	30.5 lbs.

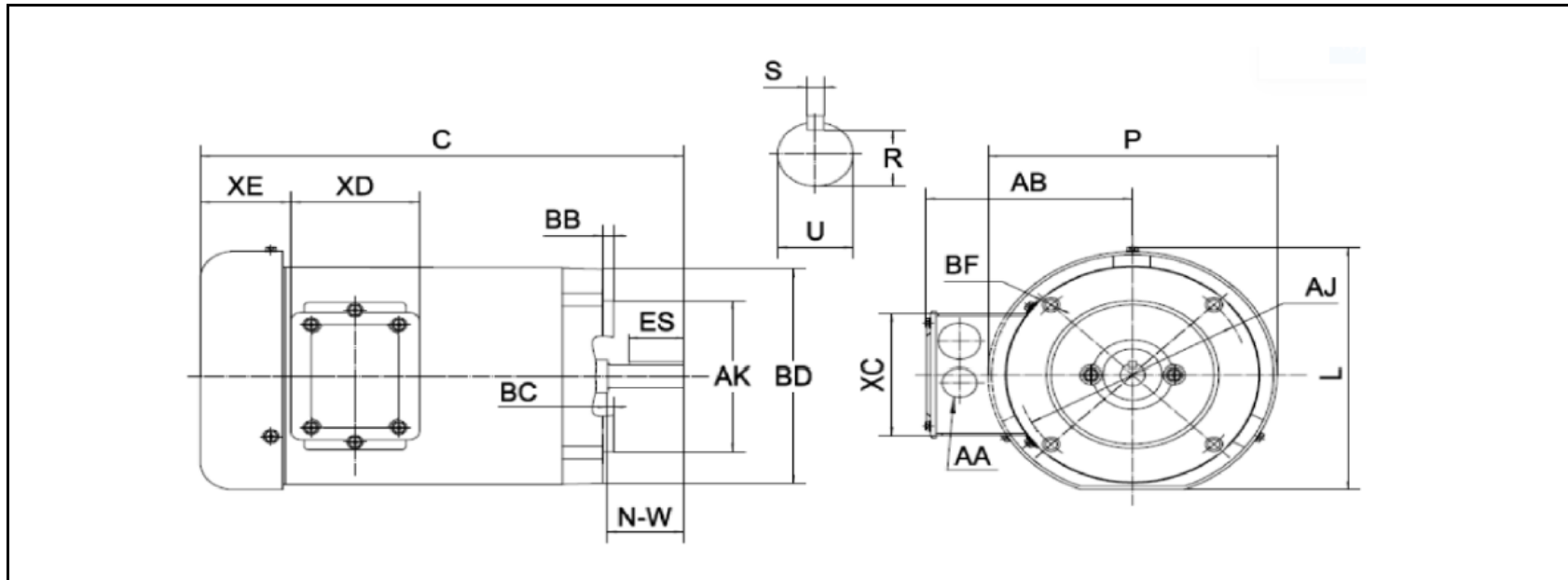
# MOTOR DRAWING

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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	11.9	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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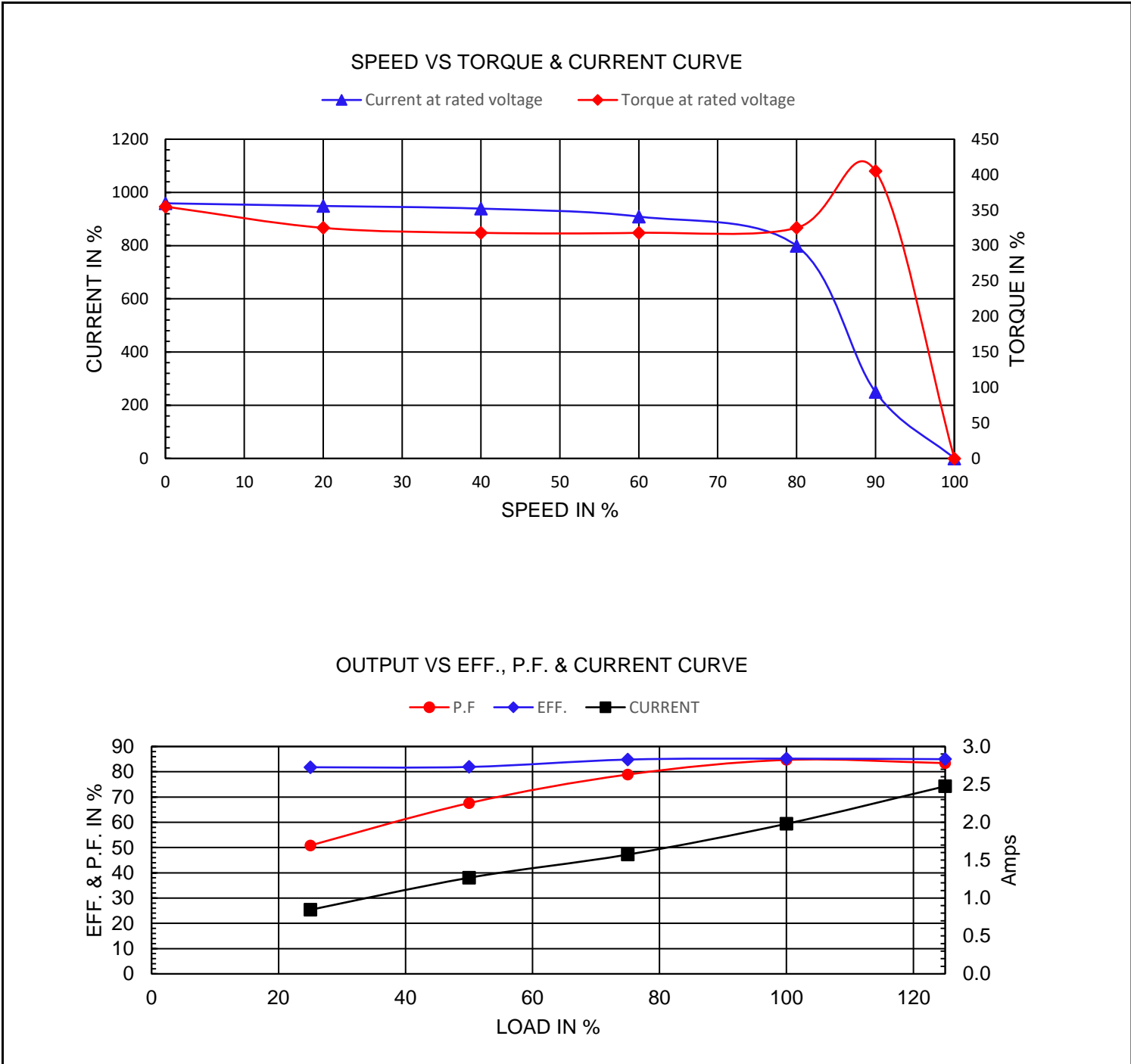


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**NATE1.5-36-56CRD**

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Motor Type					
Output Rating (HP)	1-1/2		FL Speed	3500	
Full Load Torque	2.21 lb.ft		LRT (%FLT)	355	460 volt FLA 1.98
Rotor Wk <sup>2</sup>	0.0485 lb-ft <sup>2</sup>		BDT (%FLT)	405	230 volt FLA 4.32



# NAMEPLATE / WIRING

Premium Efficiency Motor: **NATE1.5-36-56CRD**

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## SAMPLE NAMEPLATE DATA

		<b>THREE PHASE INDUCTION MOTOR</b>								CC315B	
<b>MODEL</b>			<b>FRAME</b>			<b>LOW VOLTAGE</b>			<b>HIGH VOLTAGE</b>		
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		
S. F.			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 THERMALLY PROTECTED : NONE							
MAX. AMB. 40°C		Date Code XX/XXXX									
SERIAL NO. XXXXXXXXXX				WorldWide Electric Corporation							

<b>Model</b>	NATE1.5-36-56CRD		<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>	3500	2915	<b>DUTY</b>	CONT
<b>Voltage</b>	230/460	190/380	<b>Code</b>	H
<b>Amps</b>	4.32/1.98	3.42/1.71	<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>	30.5 lbs.
<b>Nom.Eff.</b>	85.2%		<b>DE Brng</b>	6203 2RS
			<b>ODE Brng</b>	6203 2RS