

DATA SHEET

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

60 Hz

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



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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 Removable Base
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.

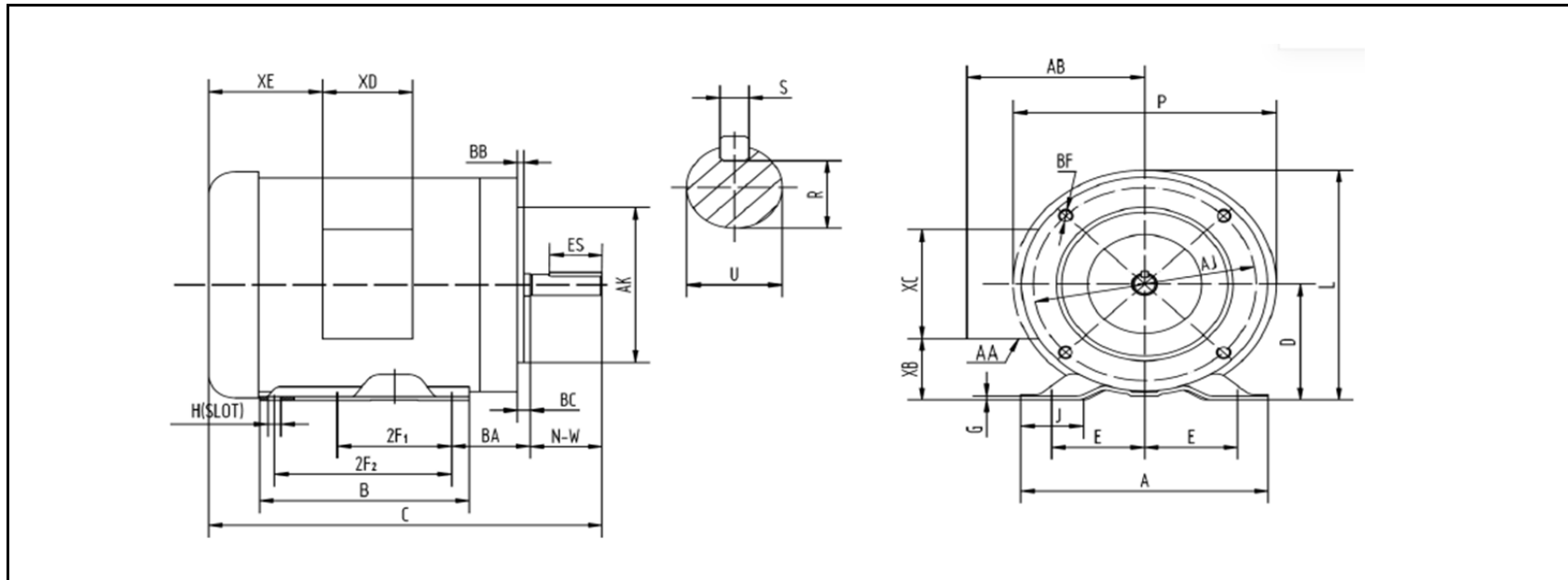
MOTOR DRAWING

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DIMENSION - INCHES

MOUNTING					A	B	C	D	G	J	L	P	AB
E	2F1	2F2	H	BA									
2.44	3	5	0.34	2.75	6.54	6.54	13.4	3.5	0.12	1.65	7.4	7.3	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

FLANGE				
AK	AJ	BF	BB	BC
4.5	5.875	3/8-16	0.16	-0.19

PERFORMANCE CURVES

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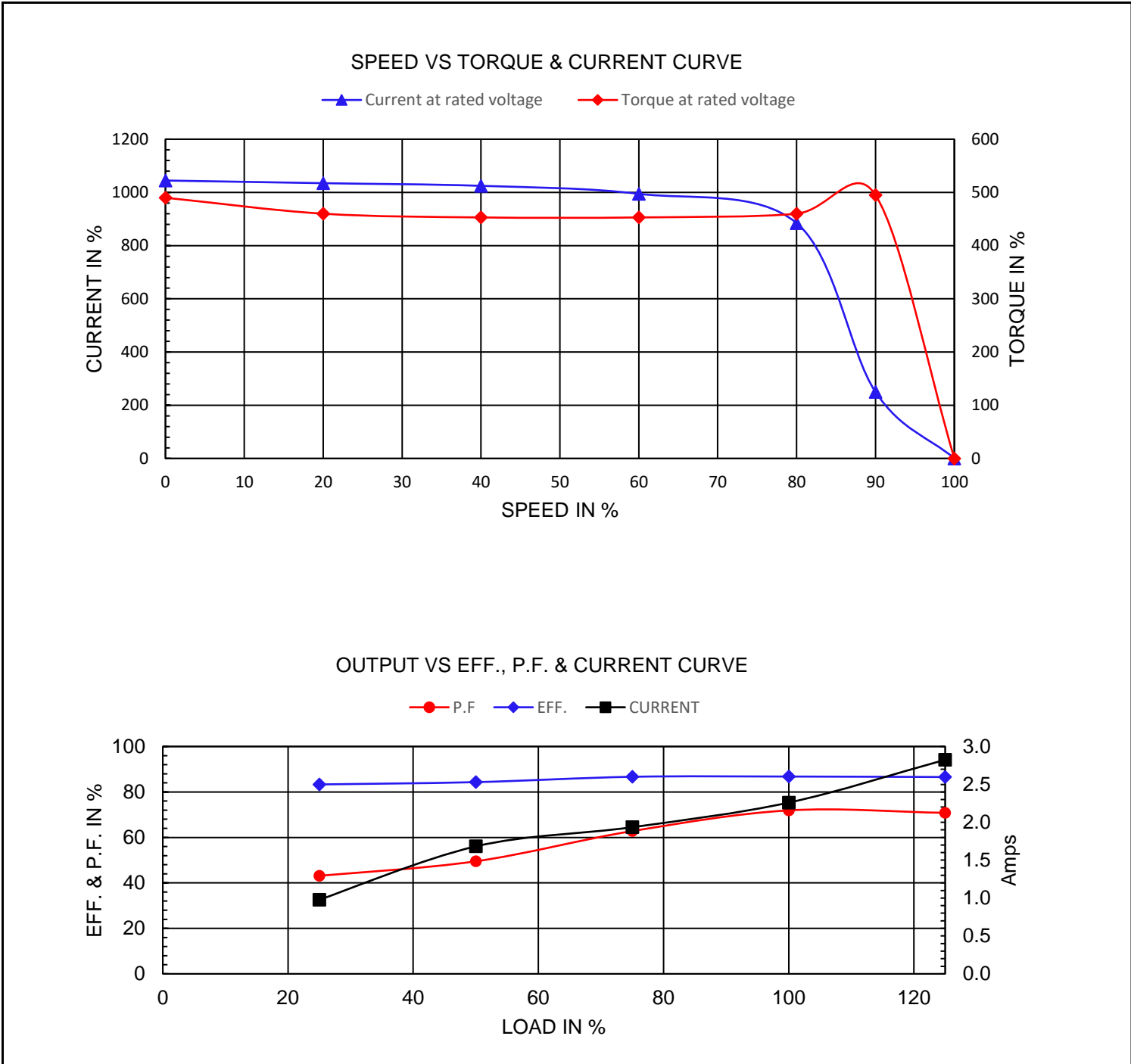
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Motor Type					
Output Rating (HP)	1-1/2		FL Speed	1760	
Full Load Torque	4.4 lb.ft		LRT (%FLT)	490	460 volt FLA 2.26
Rotor Wk ²	0.1352 lb-ft ²		BDT (%FLT)	495	230 volt FLA 4.73



NAMEPLATE / WIRING

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SAMPLE NAMEPLATE DATA

		THREE PHASE INDUCTION MOTOR					256950	CC315B
MODEL	FRAME	LOW VOLTAGE			HIGH VOLTAGE			MADE IN CHINA
Hz	ENCL. TEFC	BLUE (T1) —	LINE1	BLUE (T1) —	LINE1	WHITE (T2) —	LINE2	
HP	PH 3	BROWN (T7) —	LINE2	WHITE (T2) —	LINE3	ORANGE (T3) —	LINE3	
RPM	DUTY CONT	RED (T8) —		YELLOW (T4) —		INS		
VOLTS	CODE	ORANGE (T3) —	LINE3	BROWN (T7) —	INS	BLACK (T5) —	INS	
AMPS	INS. F	YEL/BLA (T9) —		YELLOW (T4) —		RED (T8) —	INS	
	DES.	BLACK (T5) —	INS	GRAY (T6) —	INS	YEL/BLA (T9) —	INS	
S. F.	LB/WT							
NOM. EFF (60Hz)	DE/ODE BRG.							
MAX. AMB. 40°C	Date Code XX/XXXX							
SERIAL NO. XXXXXXXXXX		WorldWide Electric Corporation						

ACCEPTABLE FOR FIELD WIRING
THERMALLY PROTECTED : NONE

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