

DATA SHEET

Premium Efficiency Motor: **NAT12-36-56CB**

60 Hz

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



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Customer:

MOTOR INFORMATION

HP	1/2
RPM	3600
Phase	3
Frequency	60 Hz
Voltage	230/460
Frame Size	56C
Enclosure	TEFC
Degree of Protection	IP43
Service Factor	1.15
Poles	2
Full Load Speed	3450
Insulation Class	F
Temp Rise	80°C
NEMA Code Letter	P
Duty Cycle	S1 / Continuous
Slip	0.04%
NEMA Design	B
Moment of Inertia	0.0277 lb.ft.^2
Sound Pressure Level	78 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%	70.6 %	79
75%	67.7 %	71.4
50%	61.3 %	60.1

TORQUE

FULL LOAD	LRT	BDT
0.76 lb.ft.	235 %	385 %

AMPERAGE INFORMATION

	230V	460V
Full Load Amps	1.7	1.3
Locked Rotor Amps	10.84	5.42
No Load Current	1.06	0.53
Usable at 208V	--	

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	19 lbs.

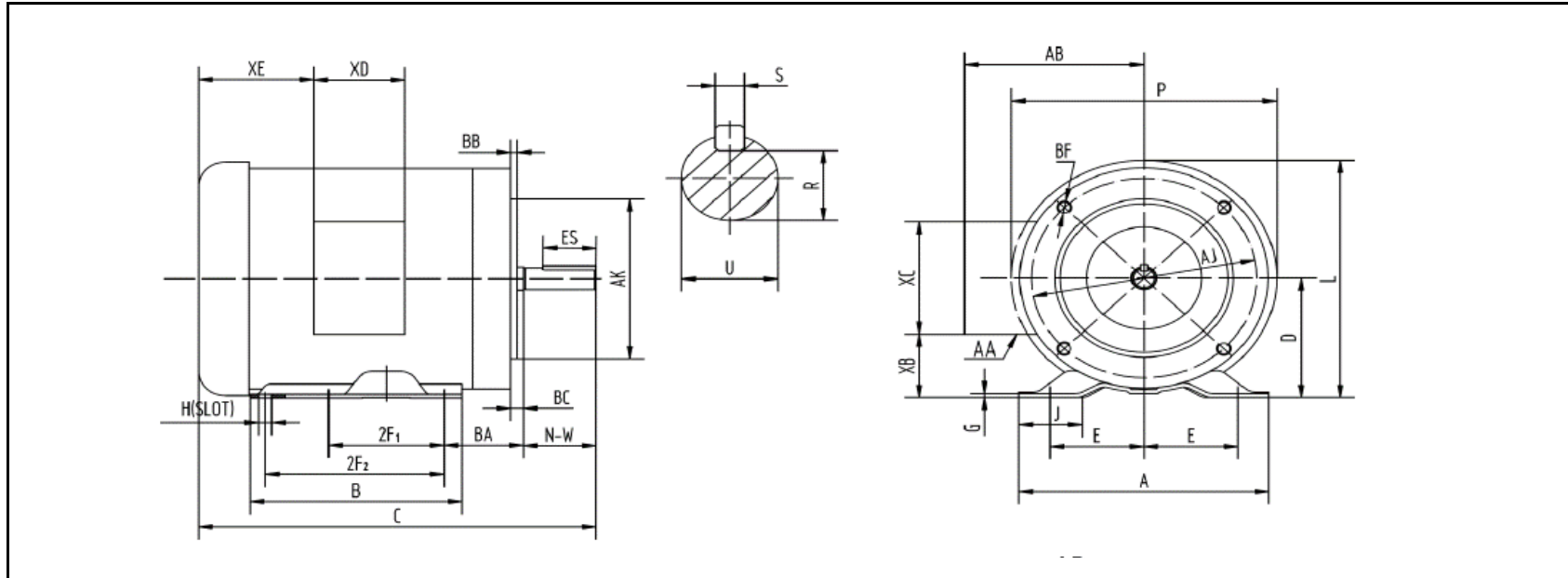
MOTOR DRAWING

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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	11.9	3.5	0.1	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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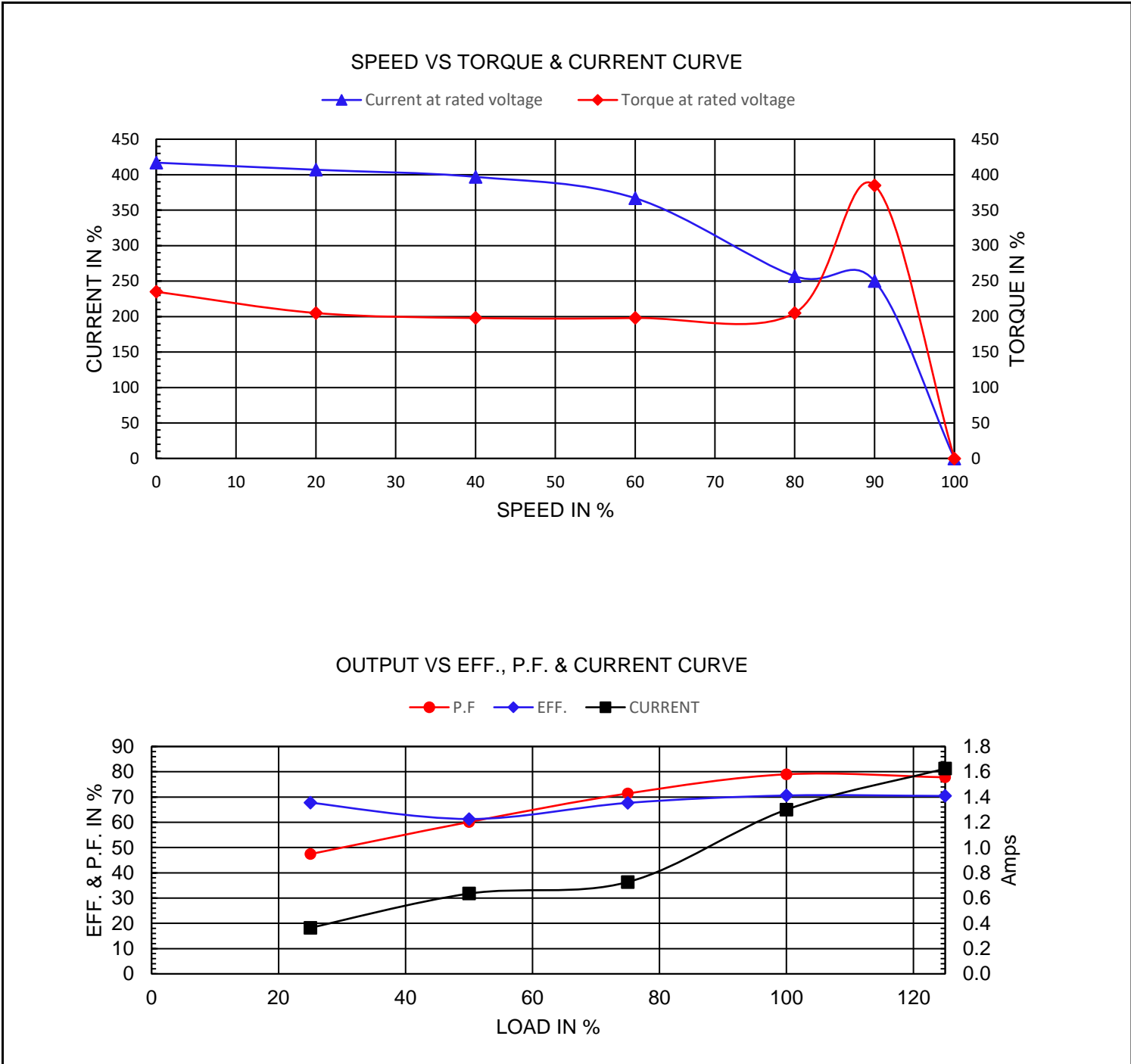
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Motor Type					
Output Rating (HP)	1/2		FL Speed	3450	
Full Load Torque	0.76 lb.ft		LRT (%FLT)	235	460 volt FLA 1.3
Rotor Wk ²	0.0277 lb-ft ²		BDT (%FLT)	385	230 volt FLA 1.7



NAMEPLATE / WIRING

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SAMPLE NAMEPLATE DATA

		THREE PHASE INDUCTION MOTOR					
MODEL	FRAME	LOW VOLTAGE		HIGH VOLTAGE		MADE IN CHINA	
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					

Model	NAT12-36-56CB	Frame	56C
Hz	60 Hz 50Hz	Encl	TEFC
HP	1/2 1/3	PH	3
RPM	3450 2850	DUTY	CONT
Voltage	230/460 190/380	Code	P
Amps	2.6/1.3 1.5/0.75	Ins Cl	F
IP	IP43	Design	B
S.F.	1.15 1.00	LB/WT	19 lbs.
Nom.Eff.	70.6%	DE Brng	6203 2RS
		ODE Brng	6203 2RS