

DATA SHEET

Premium Efficiency Motor: **NAT12-18-56CB**

60 Hz

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



Document Generated: 5-Aug-2025
Document ID:

Customer:

MOTOR INFORMATION

HP	1/2
RPM	1800
Phase	3
Frequency	60 Hz
Voltage	230/460
Frame Size	56C
Enclosure	TEFC
Degree of Protection	IP43
Service Factor	1.15
Poles	4
Full Load Speed	1725
Insulation Class	F
Temp Rise	80°C
NEMA Code Letter	M
Duty Cycle	S1 / Continuous
Slip	0.04%
NEMA Design	B
Moment of Inertia	0.0381 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%	70.7 %	71.9
75%	69.4 %	62.3
50%	64.6 %	49.2

TORQUE

FULL LOAD	LRT	BDT
1.51 lb.ft.	250 %	325 %

AMPERAGE INFORMATION

	230V	460V
Full Load Amps	1.9	0.95
Locked Rotor Amps	10.16	5.08
No Load Current	1.36	0.68
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.

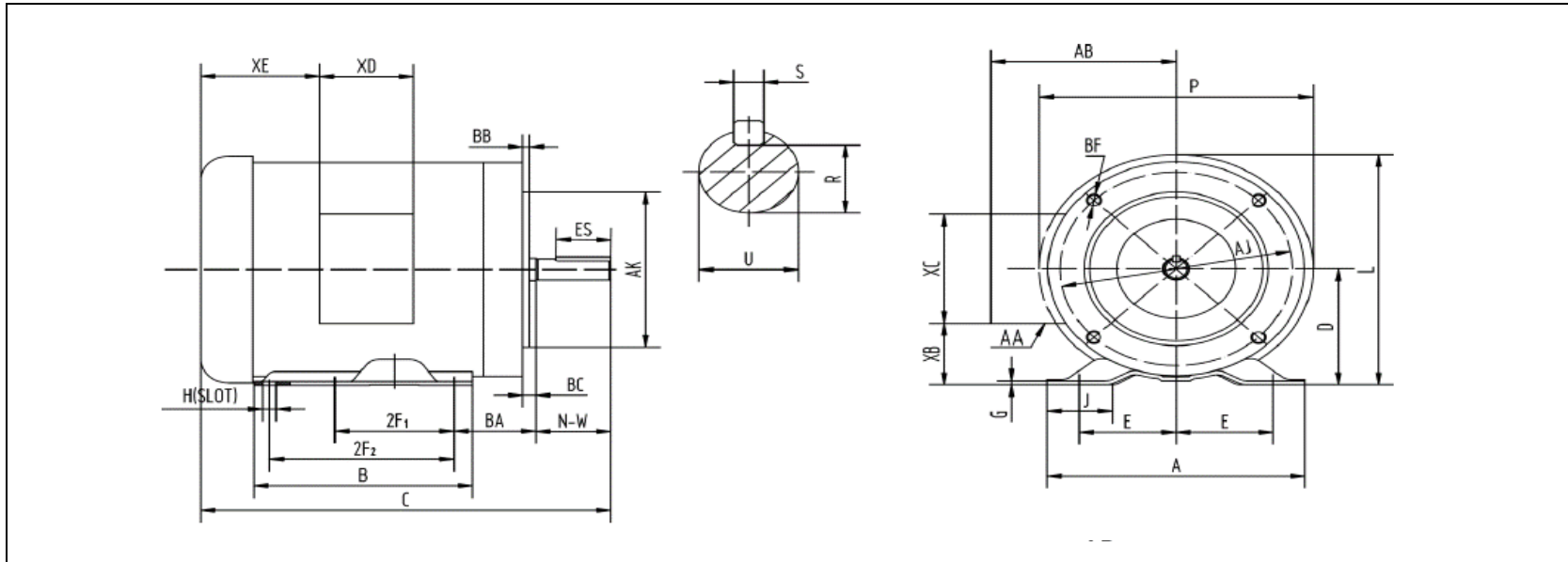
MOTOR DRAWING

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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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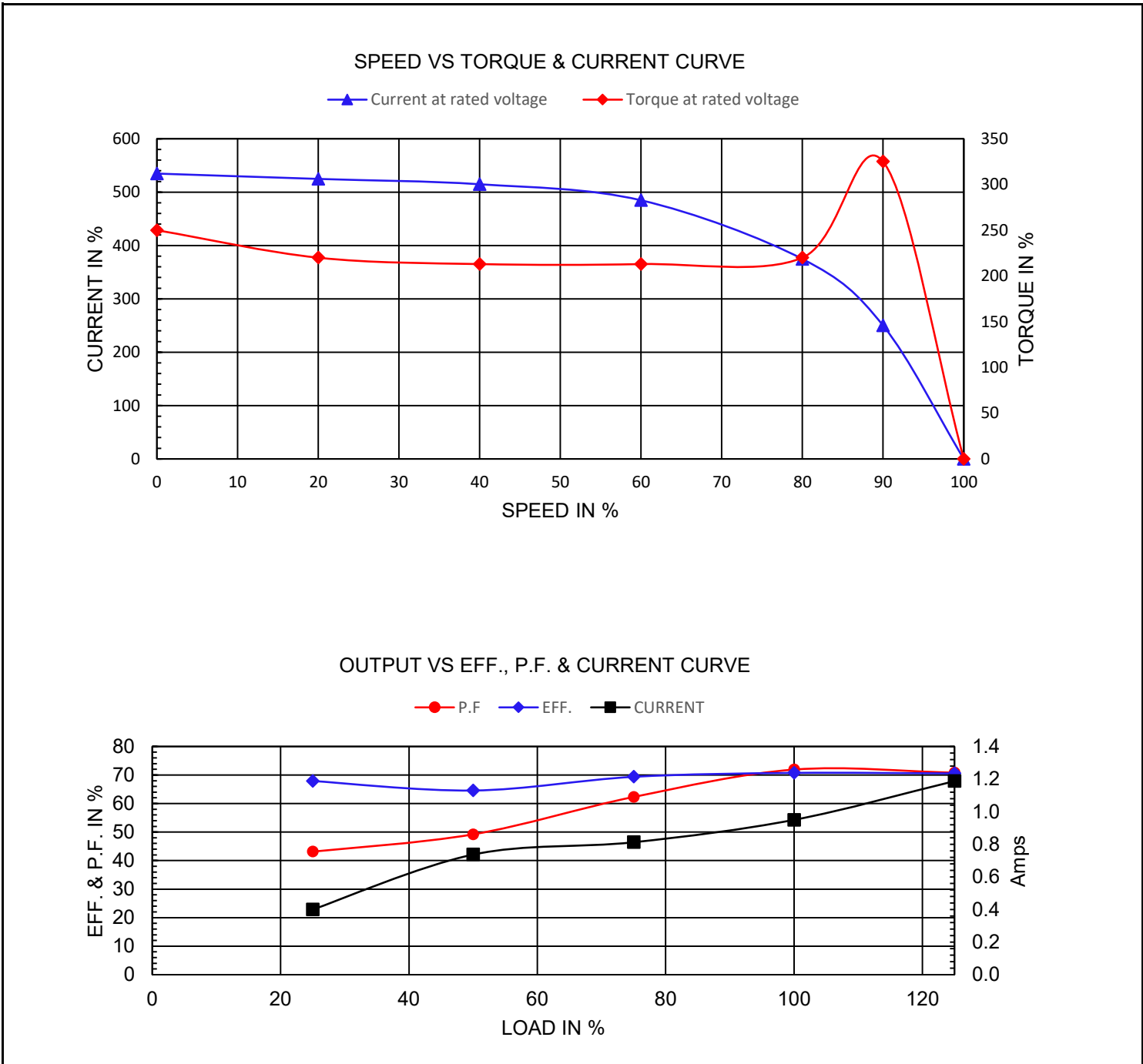
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Motor Type			FL Speed	1725		
Output Rating (HP)	1/2		LRT (%FLT)	250	460 volt FLA	0.95
Full Load Torque	1.51	lb.ft	BDT (%FLT)	325	230 volt FLA	1.9
Rotor Wk^2	0.0381	lb-ft^2				



NAMEPLATE / WIRING

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SAMPLE NAMEPLATE DATA

		THREE PHASE INDUCTION MOTOR		 Energy Verified 256950		MADE IN CHINA																																																							
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Hz	60 Hz	Encl	TEFC
HP	1/2	PH	3
RPM	1725	DUTY	CONT
Voltage	230/460	Code	M
Amps	1.9/0.95	Ins Cl	F
IP	IP43	Design	B
S.F.	1.15	LB/WT	19 lbs.
Nom.Eff.	70.7%	DE Brng	6203 2RS
		ODE Brng	6203 2RS