DATA SHEET

Premium Efficiency Motor: **NAT12-18-56** **60 Hz**

WorldWide Electric Corporation
1 (800) 808-2131
Worldwideelectric.net

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MOTOR INFORMATION

HP	1/2
RPM	1800
Phase	3
Frequency	60 Hz
Voltage	230/460
Frame Size	56
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	4.16%
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	Rigid
Rotation	Bi-Directional
Standard	NEMA MG-1
Approvals	CSA, CE

ADDITIONAL DATA

F2 Suitable	No
Shaft Material	1045 Carbon Steel
Connection Diagram	230 / 460 V - 9 Lead Y
Approximate Weight	17.8 lbs.

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

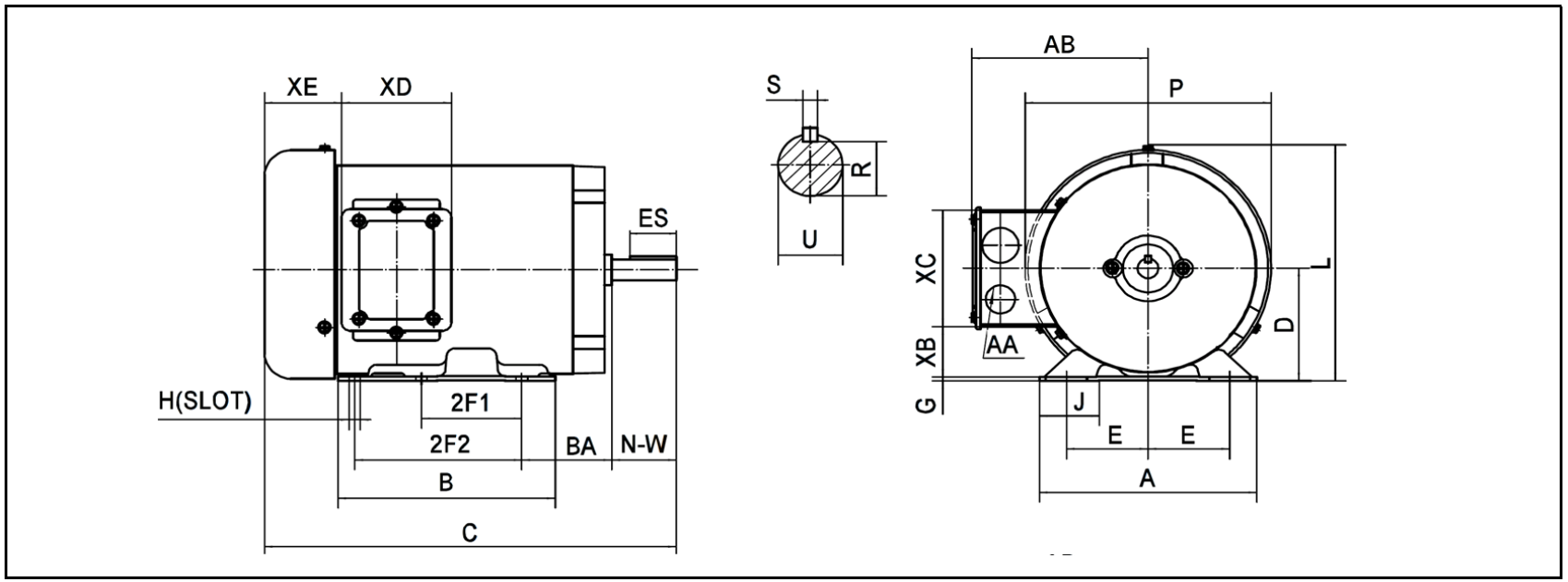
DE Bearing	6203 2RS
ODE Bearing	6203 2RS

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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	11.7	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

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PERFORMANCE CURVES

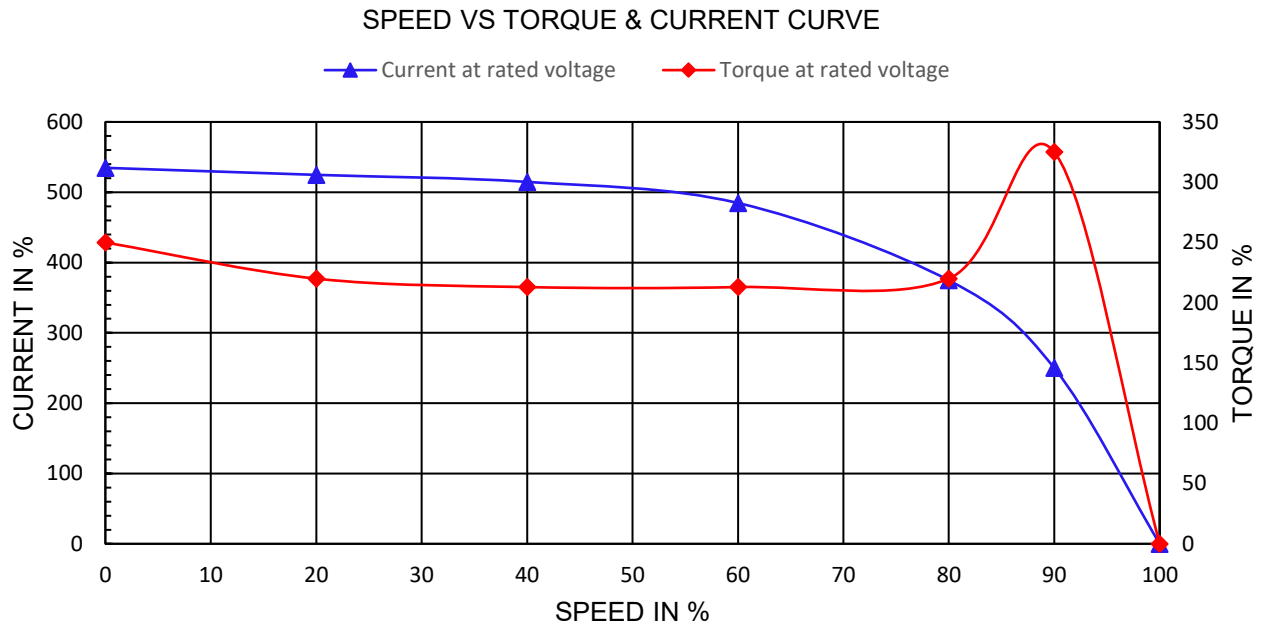
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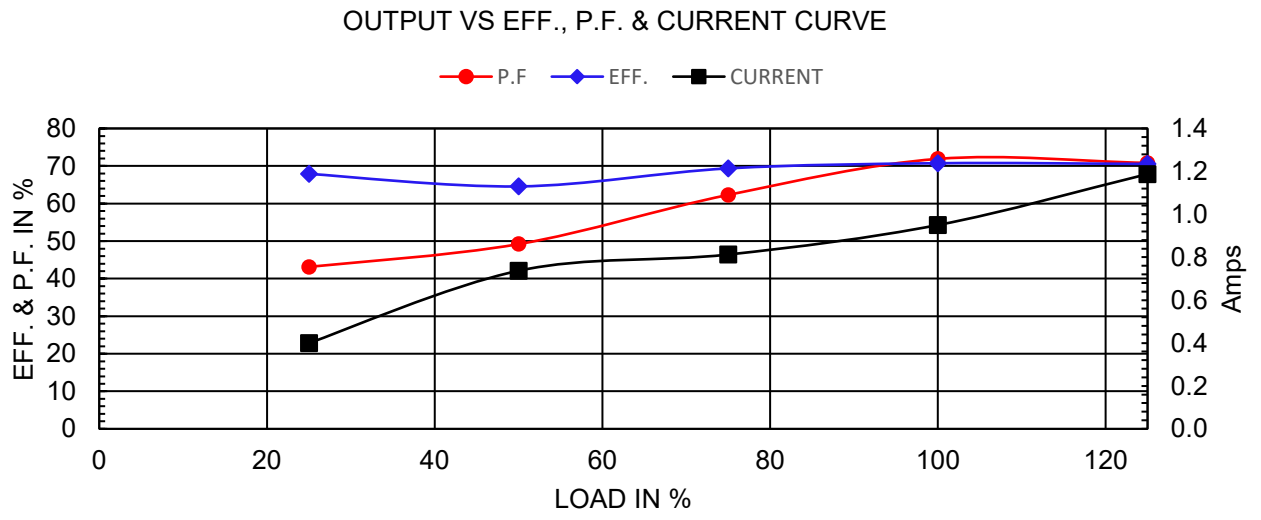
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Motor Type							
Output Rating (HP)	1/2		FL Speed	1725			
Full Load Torque	1.51	lb.ft	LRT (%FLT)	250	460 volt FLA	0.95	
Rotor Wk^2	0.0381	lb-ft^2	BDT (%FLT)	325	230 volt FLA	1.9	





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NAMEPLATE / WIRING

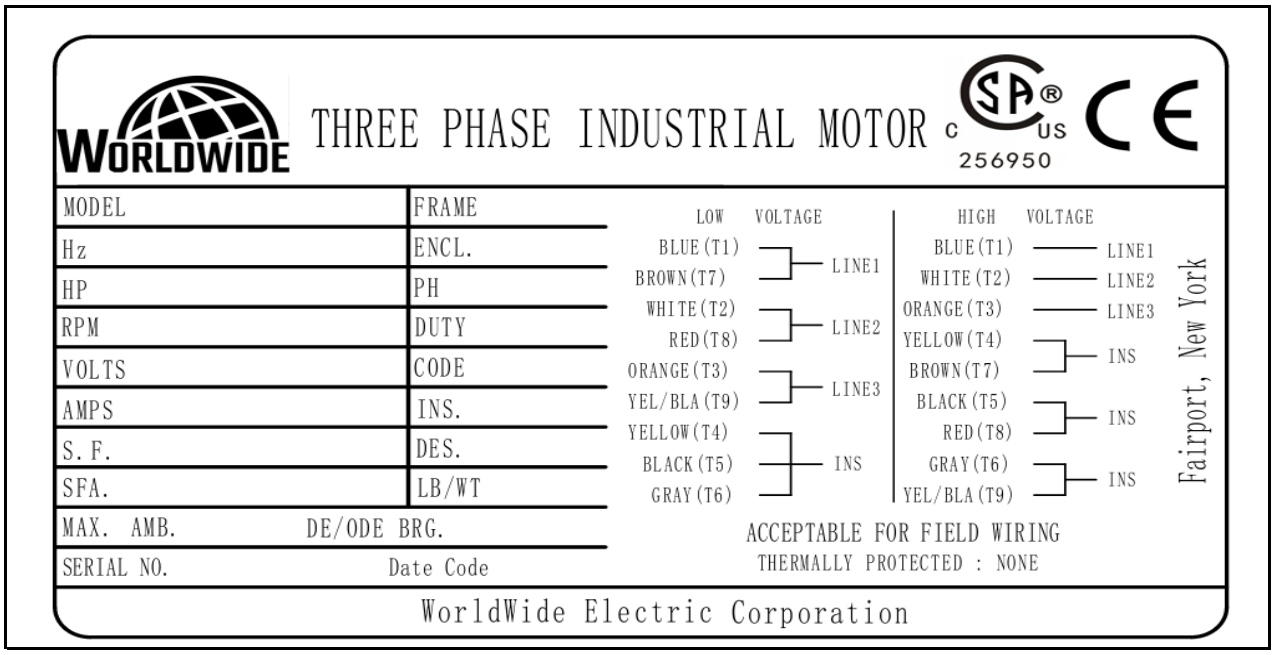
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SAMPLE NAMEPLATE DATA



Model	NAT12-18-56		**Frame**	56	
Hz	60 Hz	50Hz	**Encl**	TEFC	
HP	1/2	1/3	**PH**	3	
RPM	1725	1425	**DUTY**	CONT	
Voltage	230/460	190/380	**Code**	M	
Amps	1.9/0.95	1.7/0.85	**Ins Cl**	F	IP43
S.F.	1.15	1.15	**Design**	B	
SFA.	2.0/1.0	1.8/0.9	**LB/WT**	17.8 lbs.	
Max.AMB.	40°C		**DE Brng**	6203 2RS	
			ODE Brng	6203 2RS	

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