

DATA SHEET

Premium Efficiency Motor: **MTSN-P50-3BD18R**

60 Hz

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Customer:

MOTOR INFORMATION

HP	1/2
RPM	1800
Phase	3
Frequency	60
Voltage	230/460
Frame Size	56C
Enclosure	TENV
Degree of Protection	IP69K
Service Factor	1.15
Poles	4
Full Load Speed	1745
Insulation Class	F
Temp Rise	80°C
NEMA Code Letter	R
Duty Cycle	S1
Slip	3.06%
NEMA Design	B
Moment of Inertia	0.069 lb.ft.^2
Locked Rotor Time (Hot)	12 seconds
Sound Pressure Level	58 dB(A)
Number of Starts	12
Max Ambient Temperature	40° C
Max Elevation	1000 m.a.s.l (3300 f.a.s.l)
Mounting	F1
Rotation	Bidirectional
Area of Classification	Div.2 Class I, Gr. A,B,C&D T2B
Inverter Rating	10:1 CT/20:1 VT
Standard	NEMA MG1, UL1004
Approvals	CSA,UL,CE

EFFICIENCY/POWER FACTOR

LOAD	EFF	P. F.
100%	78.5 %	0.7
75%	76.0 %	0.6
50%	71.0 %	0.52

TORQUE

FULL LOAD	LRT	BDT
1.5 lb.ft.	285 %	300 %

AMPERAGE INFORMATION

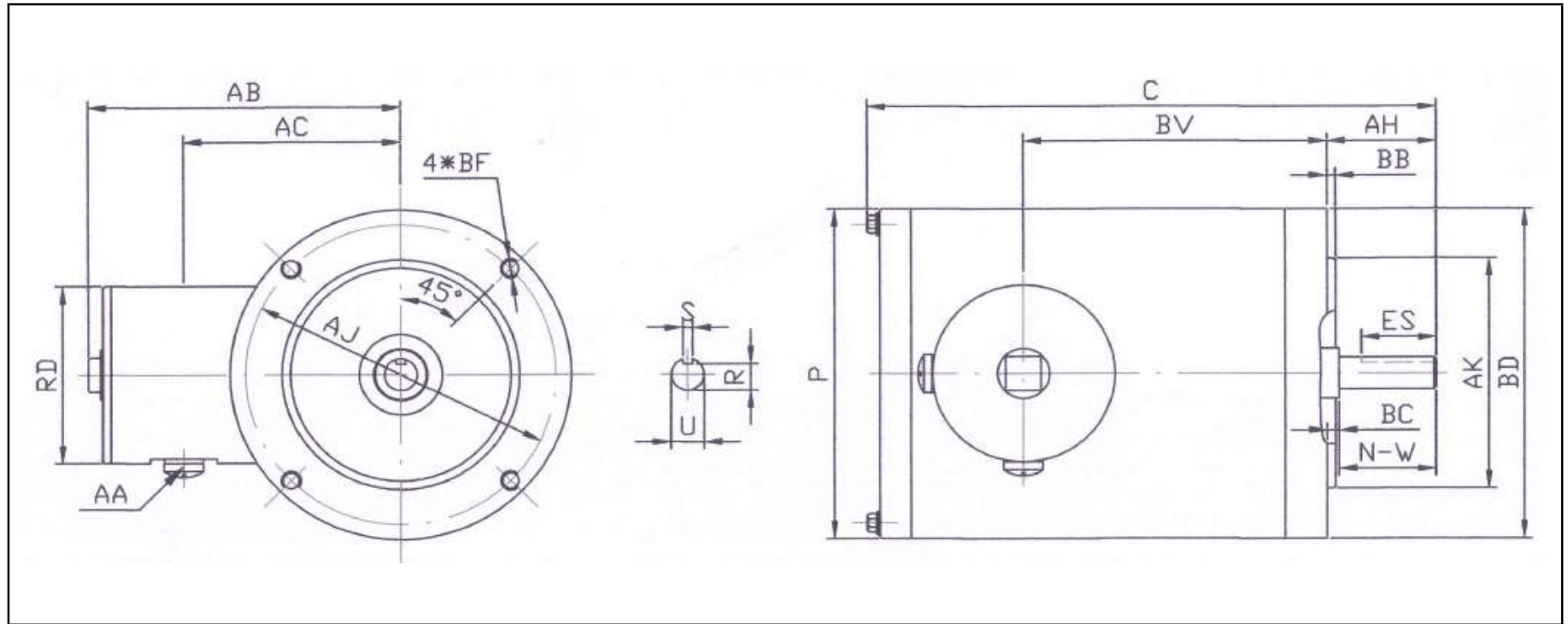
	230V	460V
Full Load Amps	1.6	0.8
Locked Rotor Amps	20	10
No Load Current	1.3	0.65
Usable at 208V	2	

BEARING INFORMATION

DE Bearing	6205 2RS
ODE Bearing	6205 2RS
Grease Type	Mobil Polyrex EM
DE Regreasing Interval	-- Hours
ODE Regreasing Interval	-- Hours
Grease Quantity	--

ADDITIONAL DATA

F2 Suitable	No
Shaft Material	304 Stainless Steel
Connection Diagram	9 Lead 2Y/Y
Approximate Weight	30 lbs.



DIMENSIONS - INCHES

C	T	P	BC	AB	FLANGE				
					AK	BD	AJ	BF	BB
9.8	--	6.45	-0.19	5.95	4.5	6.45	5.875	(4)3/8-16	0.16

SHAFT & KEY					
S	ES	R	N-W	U	AH
0.188	1.41	0.517	1.88	0.625	2.06

TERMINAL BOX				
AA	AB	AC	RD	BV
1/2	5.95	4.5	3.45	4.75

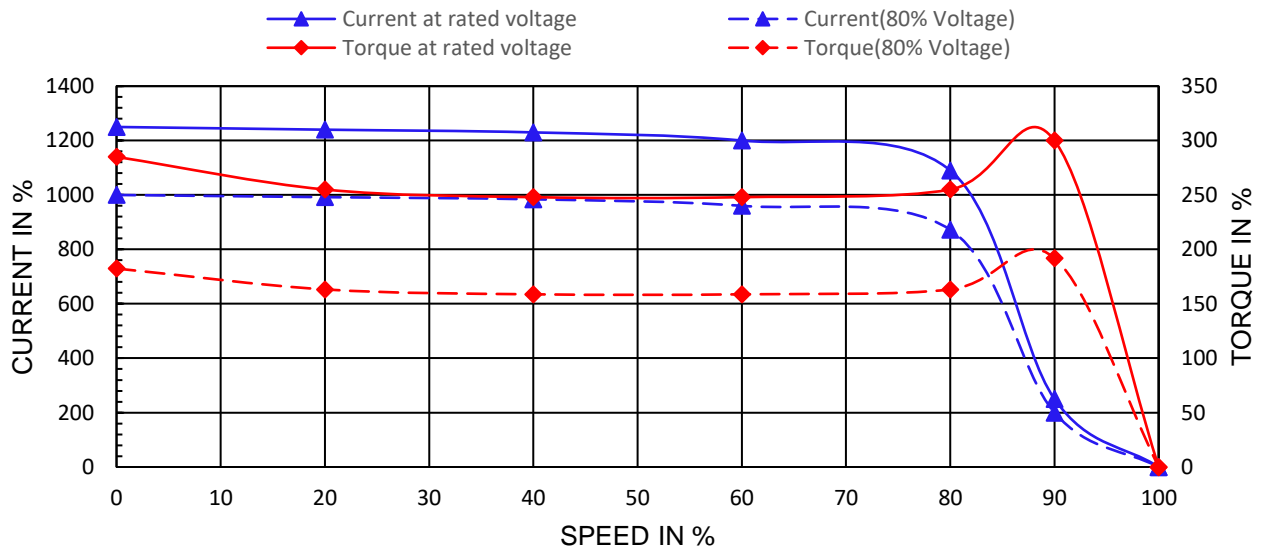
PERFORMANCE CURVES

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Motor Type	MTS		FL Speed	1745	
Output Rating (HP)	1/2		LRT (%FLT)	285	460 volt FLA 0.8
Full Load Torque	1.5	lb.ft	BDT (%FLT)	300	230 volt FLA 1.6
Rotor Wk^2	0.069	lb-ft^2			

SPEED VS TORQUE & CURRENT CURVE



OUTPUT VS EFF., P.F. & CURRENT CURVE

