

DATA SHEET

Premium Efficiency Motor: **MTSN-P50-3BD36**

60 Hz

Document Generated: 22-Sep-2021

Document ID:

Customer:

MOTOR INFORMATION

HP	1/2
RPM	3600
Phase	3
Frequency	60
Voltage	230/460
Frame Size	56C
Enclosure	TENV
Degree of Protection	IP69K
Service Factor	1.15
Poles	2
Full Load Speed	3490
Insulation Class	F
Temp Rise	80°C
NEMA Code Letter	R
Duty Cycle	S1
Slip	3.06%
NEMA Design	B
Moment of Inertia	0.036 lb.ft.^2
Locked Rotor Time (Hot)	12 seconds
Sound Pressure Level	73 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%	74.0 %	0.83
75%	70.0 %	0.76
50%	63.0 %	0.66

TORQUE

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

AMPERAGE INFORMATION

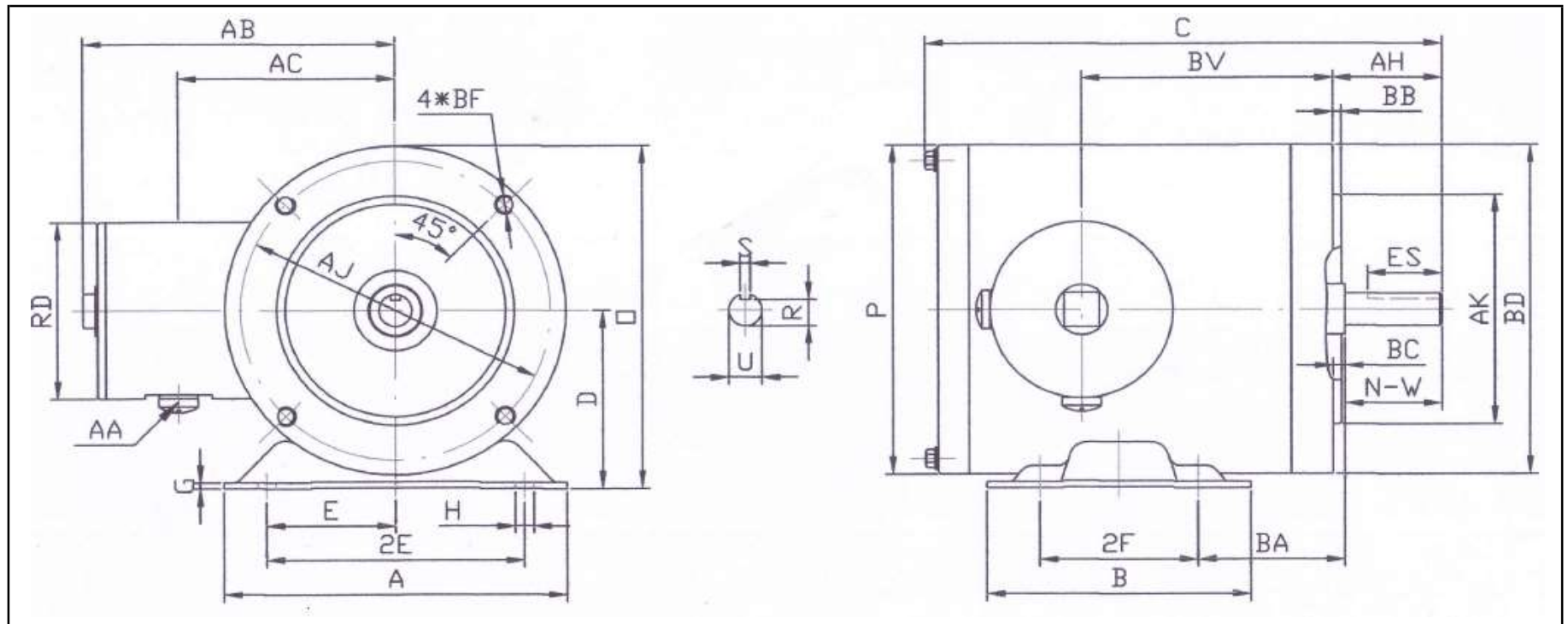
	230V	460V
Full Load Amps	1.5	0.75
Locked Rotor Amps	20	10
No Load Current	0.95	0.475
Usable at 208V	2	

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	29 lbs.



DIMENSIONS - INCHES

MOUNTING					A	B	C	D	G	T	P	O	BC	AB
E	2E	2F	H	BA										
2.44	4.88	3	1.22*0.34	2.75	6.5	5	9.8	3.5	0.118	--	6.45	6.73	-0.19	5.95

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

FLANGE				
AK	BD	AJ	BF	BB
4.5	6.45	5.875	(4)3/8-16	0.16

PERFORMANCE CURVES

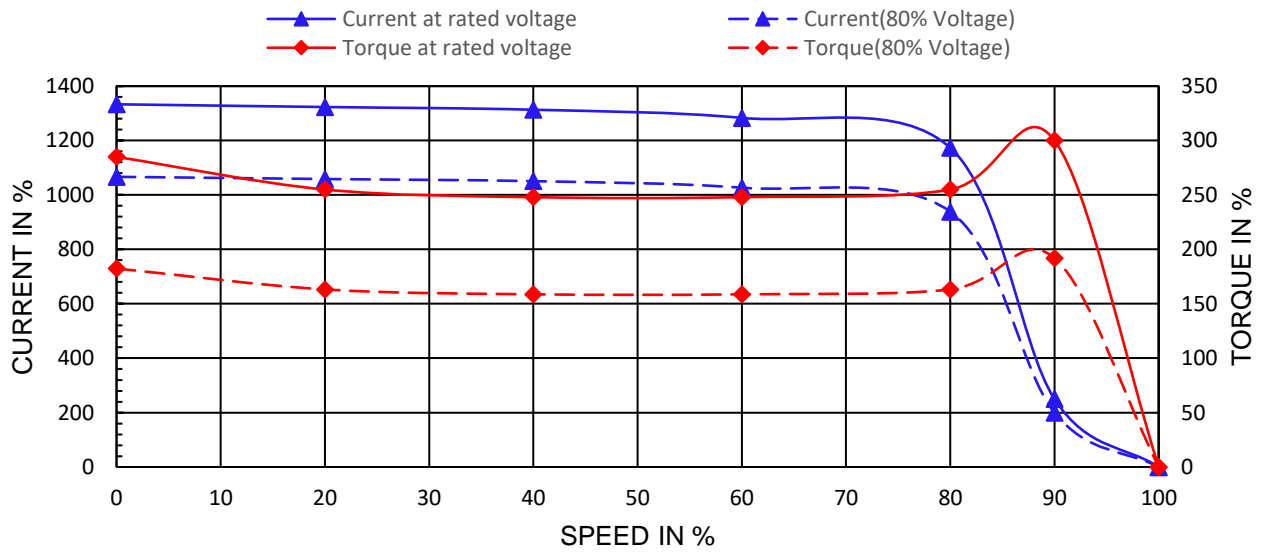
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Motor Type	MTS		FL Speed	3490	
Output Rating (HP)	1/2		LRT (%FLT)	285	460 volt FLA 0.75
Full Load Torque	0.7	lb.ft	BDT (%FLT)	300	230 volt FLA 1.5
Rotor Wk^2	0.036	lb-ft^2			

SPEED VS TORQUE & CURRENT CURVE



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

