

DATA SHEET

Premium Efficiency Motor: **MTSP-010-3BD18**

60 Hz

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Customer:

MOTOR INFORMATION

HP	10
RPM	1800
Phase	3
Frequency	60
Voltage	230/460
Frame Size	215TC
Enclosure	TEFC
Degree of Protection	IP69
Service Factor	1.15
Poles	4
Full Load Speed	1760
Insulation Class	F
Temp Rise	80°C
NEMA Code Letter	H
Duty Cycle	S1
Slip	2.22%
NEMA Design	B
Moment of Inertia	1.16 lb.ft.^2
Locked Rotor Time (Hot)	12 seconds
Sound Pressure Level	69 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%	91.7 %	0.83
75%	92.0 %	0.76
50%	91.0 %	0.65

TORQUE

FULL LOAD	LRT	BDT
29.3 lb.ft.	200 %	265 %

AMPERAGE INFORMATION

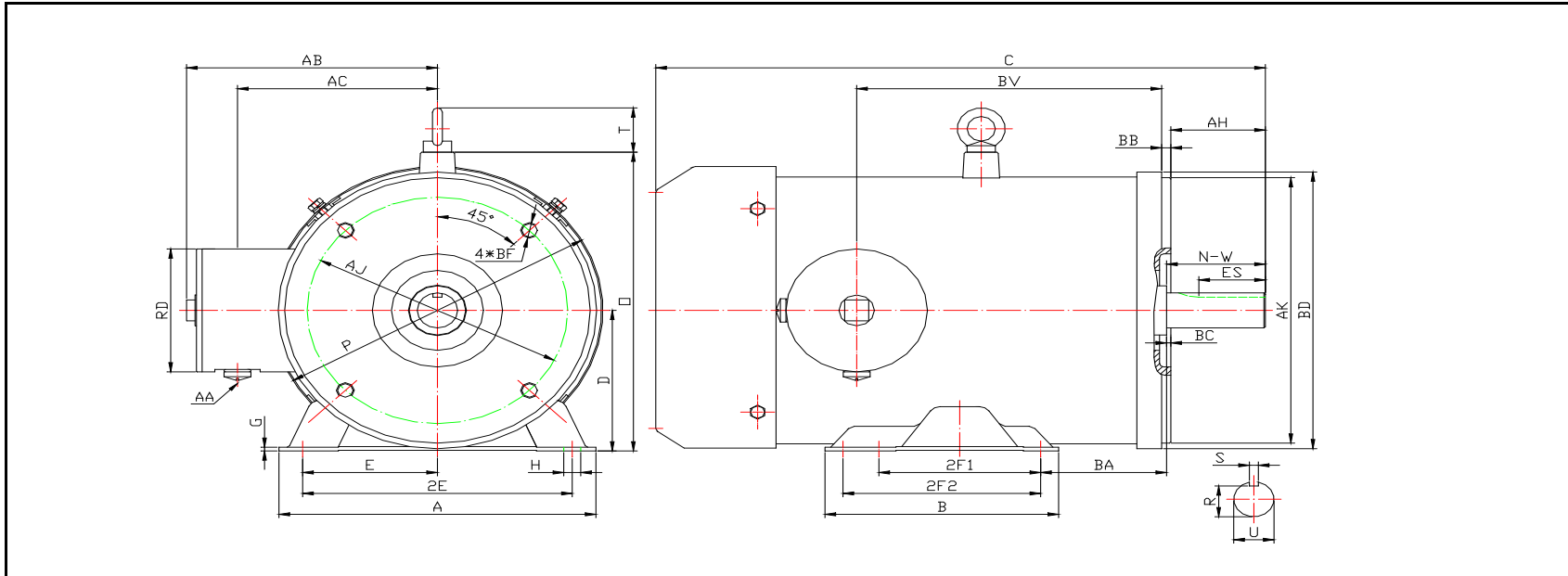
	230V	460V
Full Load Amps	24.4A	12.2
Locked Rotor Amps	162A	81A
No Load Current	12.2A	6.1A
Usable at 208V	26 A	

BEARING INFORMATION

DE Bearing	6308 2RS
ODE Bearing	6208 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	210 lbs.



DIMENSION - INCHES

MOUNTING						A	B	C	D	G	P	O	T
E	2E	2F1	2F2	H	BA								
4.25	8.5	5.5	7	0.41	4.25	9.6	8.1	20.7	5.25	0.157	10.7	11.2	1.75

AB	BC	KEY		KEYSET	SHAFT			TERMINAL BOX				
		S	ES	R	AH	N-W	U	AA	AB	AC	RD	BV
7.85	0.25	0.312	2.41	1.201	3.12	3.38	1.375	1/2	7.85	6.41	3.95	11.15

FLANGE				
AJ	AK	BB	BD	BF
7.25	8.5	0.25	10.08	4*1/2-13

REV.	SUMMARY OF MODIFICATIONS	DATE
0		10/21/2020

PERFORMANCE CURVES

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Motor Type	MTS		FL Speed	1760	
Output Rating (HP)	10		LRT (%FLT)	200	
Full Load Torque	29.3	lb.ft	460 volt FLA	12.2	
Rotor Wk ²	1.16	lb-ft ²	230 volt FLA	24.4A	
			BDT (%FLT)	265	

