

# DATA SHEET

Premium Efficiency Motor: **MTSP-1P5-3BD18R-14**

**60 Hz**

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Customer:

## MOTOR INFORMATION

HP	1.5
RPM	1800
Phase	3
Frequency	60
Voltage	230/460
Frame Size	145TC
Enclosure	TEFC
Degree of Protection	IP69K
Service Factor	1.15
Poles	4
Full Load Speed	1750
Insulation Class	F
Temp Rise	80°C
NEMA Code Letter	M
Duty Cycle	S1
Slip	2.78%
NEMA Design	B
Moment of Inertia	0.138 lb.ft. <sup>2</sup>
Locked Rotor Time (Hot)	12 seconds
Sound Pressure Level	61 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%	86.5 %	0.75
75%	83.0 %	0.61
50%	79.0 %	0.5

## TORQUE

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

## AMPERAGE INFORMATION

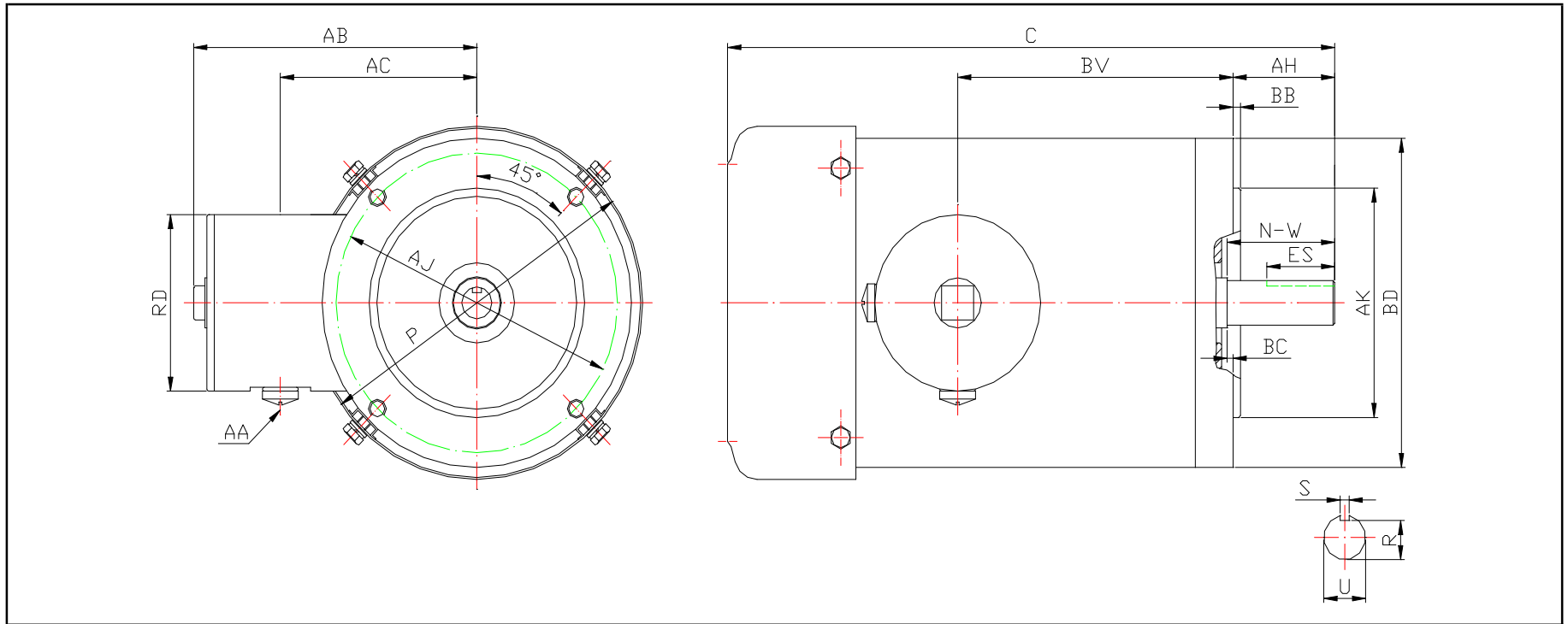
	230V	460V
Full Load Amps	4	2
Locked Rotor Amps	40	20
No Load Current	3.3	1.65
Usable at 208V	4	

## 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	41 lbs.



**DIMENSIONS - INCHES**

C	T	P	BC	AB	FLANGE				
					AK	BD	AJ	BF	BB
12.63	--	6.95	0.12	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	0.771	2.25	0.875	2.12

TERMINAL BOX				
AA	AB	AC	RD	BV
1/2	5.95	4.5	3.45	5.75

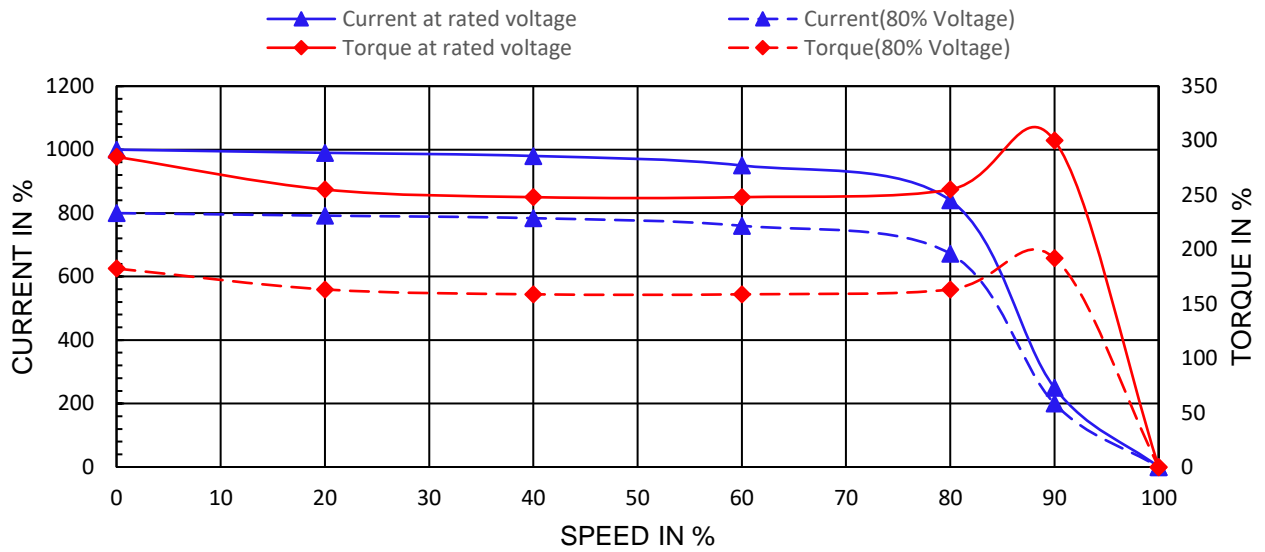
# PERFORMANCE CURVES

Premium Efficiency Motor: **MTSP-1P5-3BD18R-14**

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Motor Type	MTS		FL Speed	1750	
Output Rating (HP)	1.5		LRT (%FLT)	285	460 volt FLA 2
Full Load Torque	4.4	lb.ft	BDT (%FLT)	300	230 volt FLA 4
Rotor Wk^2	0.138	lb-ft^2			

SPEED VS TORQUE & CURRENT CURVE



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

