

# PRODUCT INFORMATION PACKET



Model No: 118017.00  
Catalog No: 118017.00  
Explosion Proof Motor, 0.50 HP, 180 V, 1750 RPM, S56C Frame, TENV



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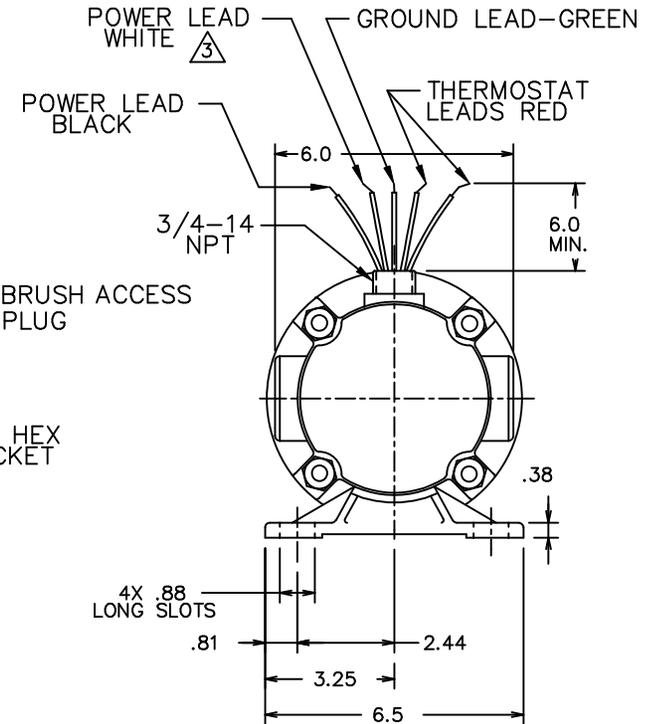
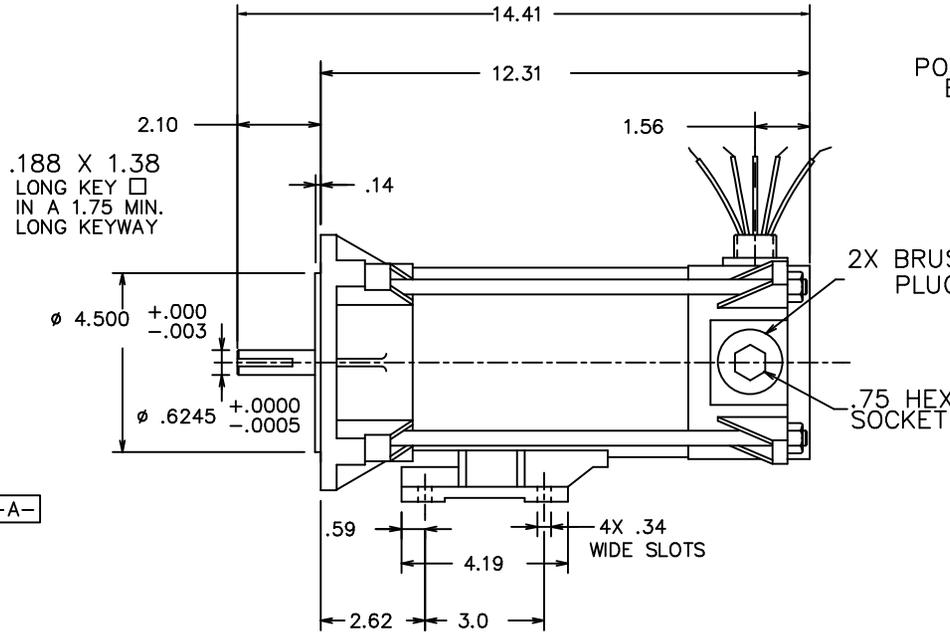
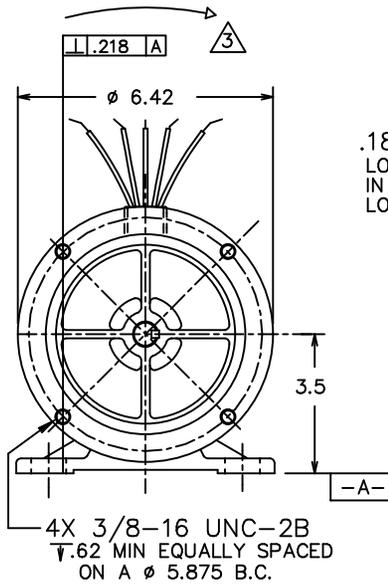
**Nameplate Specifications**

Output HP	<b>0.50 Hp</b>	Output KW	<b>0.37 kW</b>
Voltage	<b>180 V</b>	Speed	<b>1750 rpm</b>
Service Factor	<b>1.0</b>	Frame	<b>S56C</b>
Enclosure	<b>Totally Enclosed Non Ventilating</b>	Thermal Protection	<b>Automatic</b>
Efficiency	<b>82.6 %</b>	Ambient Temperature	<b>40 °C</b>
Current	<b>2.5 A</b>	Duty	<b>Continuous</b>
Insulation Class	<b>H</b>	Drive End Bearing Size	<b>6203</b>
Opp Drive End Bearing Size	<b>6203</b>	UL	<b>Recognized</b>
CSA	<b>Y</b>	CE	<b>N</b>

**Technical Specifications**

Rotation	<b>Reversible</b>	Mounting	<b>Rigid C base</b>
Overall Length	<b>14.41 in</b>	Shaft Diameter	<b>0.625 in</b>
Shaft Extension	<b>2.1 in</b>	Torque	<b>18.0 LB-IN</b>
Outline Drawing	<b>034444</b>		

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VOLTAGE	180 VDC
HORSEPOWER	1/2
RPM	1750
AMPERES	2.5
CONTINUOUS DUTY	
PERMANENT MAGNET FIELD	
CLASS H INSULATION	
BALL BEARINGS	

NOTE:

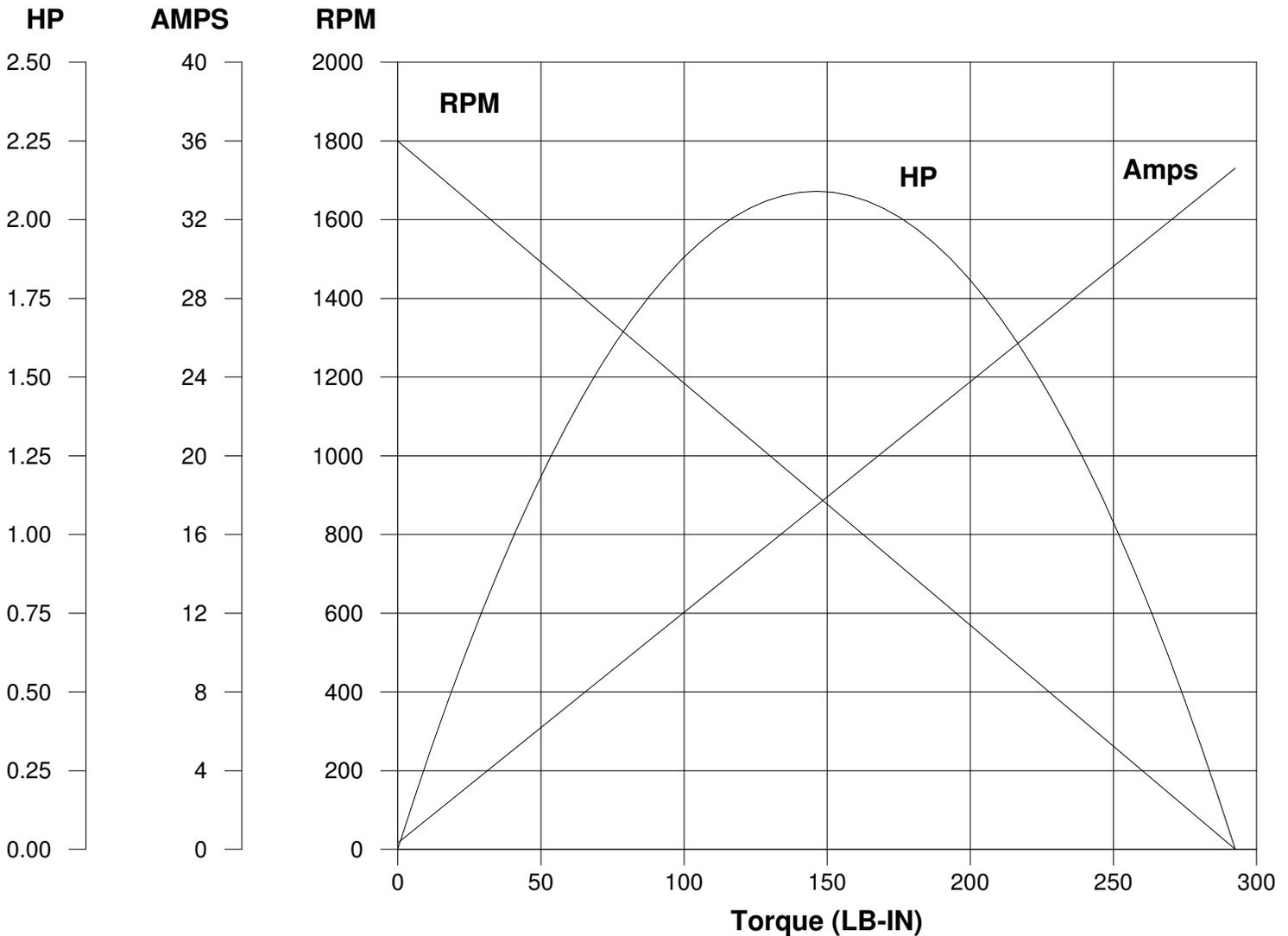
1. ALL DIMENSIONS REFERENCE UNLESS TOLERANCED.
2. MOTOR PAINTED BLUE SATIN.
3. POSITIVE TO WHITE WILL CAUSE CW ROTATION.
4. UL LISTED(E75276) AND CSA CERTIFIED(LR 701080)

				TOLERANCES UNLESS OTHERWISE SPECIFIED		<b>LEESON ELECTRIC CORPORATION</b>	
				DECIMALS		TITLE	
				.00	± .01	DRAWN ADS 06/12/95	OUTLINE 56 FRAME
				.000	± .005	CH'K'D.	EXPLOSION PROOF DC MOTOR
				.0000	± .0005	APPR.	MAT'L.
				FRACTIONS ± 1/64		SCALE NTS	
				ANGLES ± 1/2°		REF. PS 5214	FINISH
				INCH/MM		FMF C6D17EK3A	SIZE B
							DRAWING NO. 034444
01 OVERALL LENGTH WAS 15.97 WMM 10/7/97 NO. REVISION BY DATE FRACTIONS SCALE NTS ANGLE REF. PS 5214 FINISH SIZE B DRAWING NO. 034444 THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED							

# LEESON ELECTRIC CORPORATION

## TYPICAL PERFORMANCE CURVE FOR DIRECT CURRENT PERMANENT MAGNET MOTOR

Model No. <u>C6D17EK3</u>	Catalog No. <u>118017.00</u>	
HP <u>0.500</u>	RPM <u>1750</u>	DC Volts <u>180.0</u>
F.F. <u>1.40</u>	Encl <u>TENV</u>	Type <u>DE</u>
Max. Amb. <u>40.0 Deg C</u>	Insul. <u>H</u>	Frame <u>S56C</u>
		N.P. FLA <u>2.50</u>
		S.F. <u>1.00</u>
		Duty <u>Cont</u>



Ra	<u>3.6900</u>	Ohms
La	<u>20.30</u>	mHenrys
Ja	<u>6.710</u>	LB-IN <sup>2</sup>
Ke	<u>111.4</u>	V/KRPM

Kt	<u>9.420</u>	LB-IN/AMP
Imax	<u>34.0</u>	AMPS Allowed
FL Torque	<u>18.00</u>	LB-IN
FL EFF	<u>82.60</u>	%

Winding W- PS7-1A      Prepared by V. Boehlen      Date 05-04-2005