

PRODUCT INFORMATION PACKET



Model No: 109069.00

Catalog No: 109069.00

Premium Duck™ Washdown Motor, 0.50 HP, 90 V, 1750 RPM, US56C Frame, TEFC



Regal and LEESON are trademarks of Regal Rexnord Corporation or one of its affiliated companies.

©2025 Regal Rexnord Corporation, All Rights Reserved. MC017097E





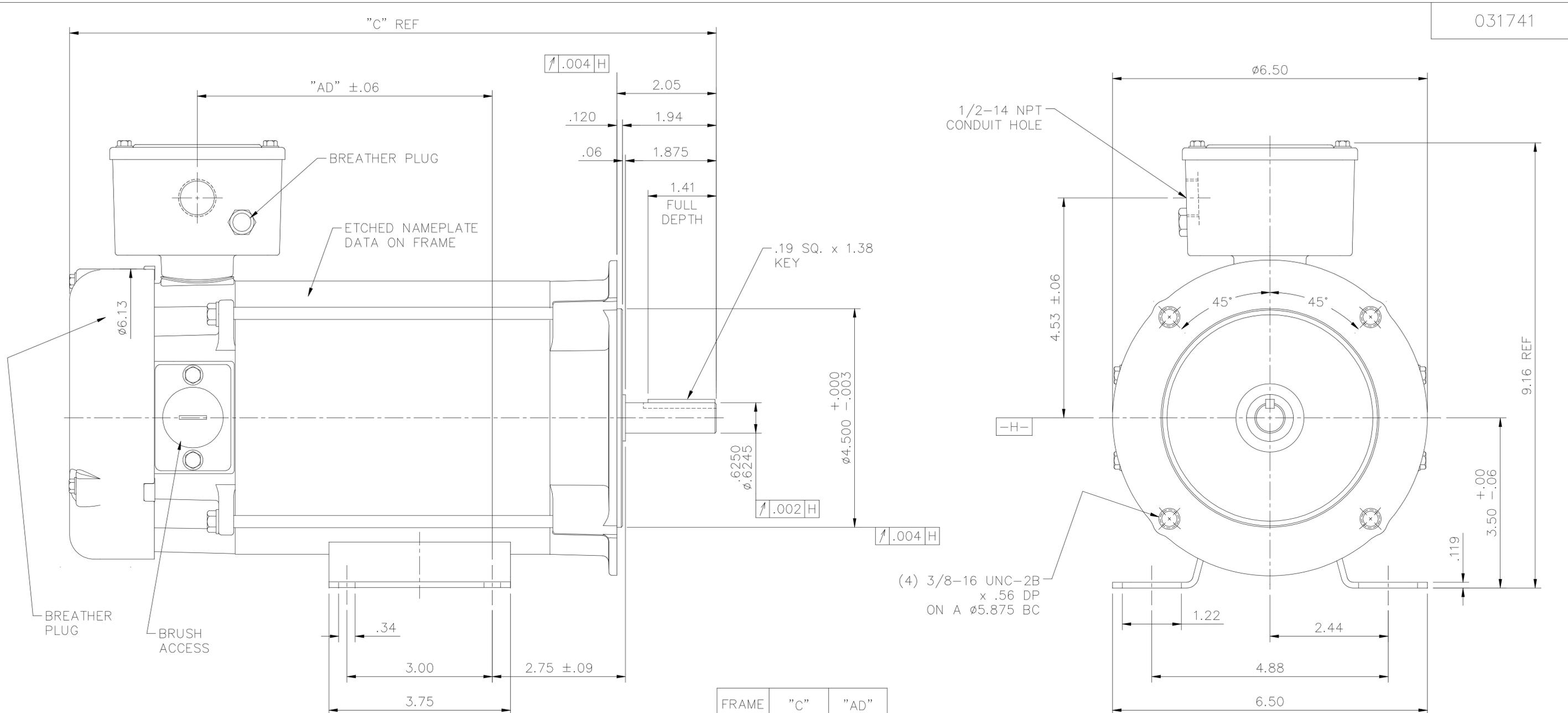
Nameplate Specifications

Output HP	0.50 Hp	Output KW	0.37 kW
Voltage	90 V	Speed	1750 rpm
Service Factor	1.0	Frame	US56C
Enclosure	Totally Enclosed Fan Cooled	Thermal Protection	No Protection
Efficiency	79 %	Ambient Temperature	40 °C
Current	5.2 A	Duty	Continuous
Insulation Class	F	Drive End Bearing Size	6205
Opp Drive End Bearing Size	6203	UL	Recognized
CSA	Y	CE	N

Technical Specifications

Rotation	Reversible	Mounting	Rigid C base
Overall Length	15.37 in	Frame Length	7.25 in
Shaft Diameter	0.625 in	Shaft Extension	2.05 in
Torque	18 LB-IN		
Outline Drawing	031741-US56C	Connection Drawing	005487

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:04/08/2025



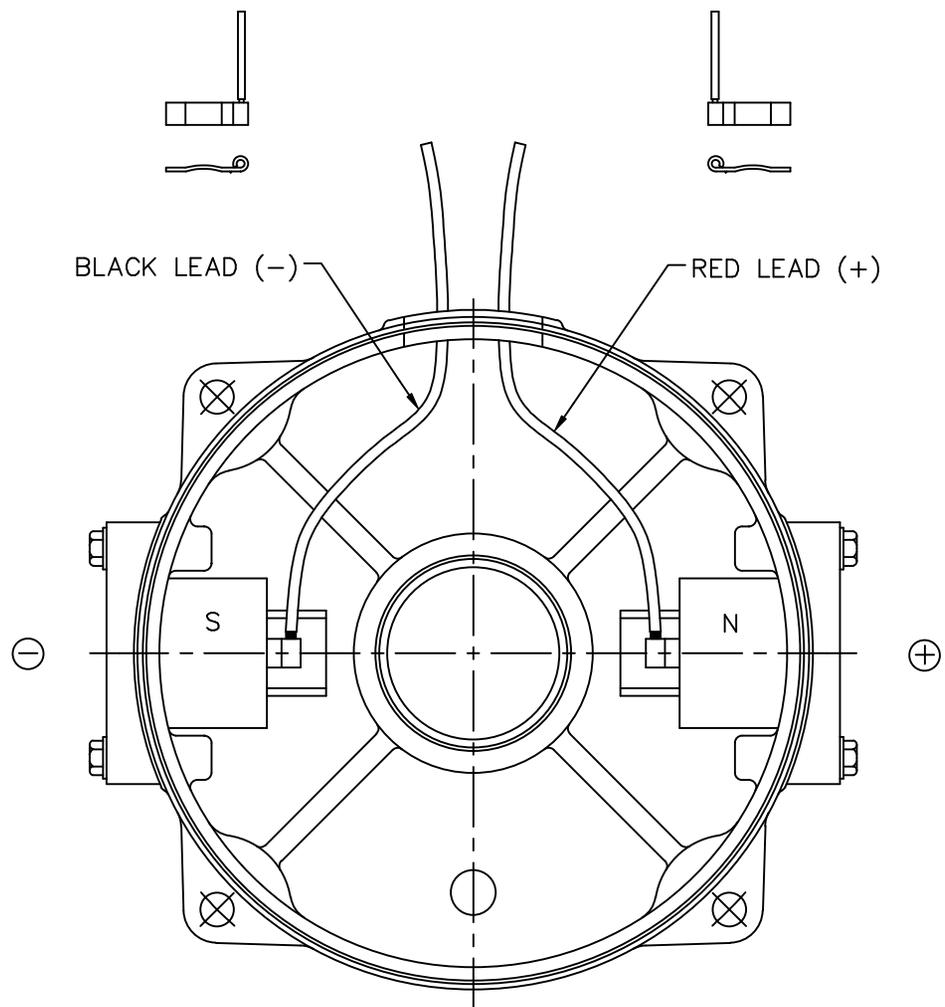
STAINLESS STEEL WASHGUARD MOTOR

SPECIAL FEATURES:

- 1) VITON CONDUIT BOX & COVER GASKETS
- 2) VITON O-RINGS IN ENDBELL RABBETS
- 3) VITON O-RINGS IN BRUSH HOLDER & CAP
- 4) VITON SHAFT SEAL
- 5) BREATHER PLUGS IN CONDUIT BOX & ENDBELL
- 6) ETCHED NAMEPLATE DATA ON MOTOR FRAME
- 7) ALL-STAINLESS STEEL CONSTRUCTION

ORACLE REV
003

NO.	REVISION	BY & DATE	CHK	ANG	TOLERANCES UNLESS SPECIFIED		TITLE	DRAWN	PG	
					DEC.	INCHES				
					.X	±.1	ELECTRIC MOTORS GEARMOTORS AND DRIVES	PG 9/8/03		
								CHK		
							LEESON	PG 11/30/04		
								APPD		
E	CORRECTED BREATHER LOCATION, ECO-0168998	IPG 6/18/19		.XX	±.03		OUTLINE 48 FRAME DC - S56C MOUNT - TEFC	SCALE	1=2	
02	ADDED FRAME DESIGNATION TO TABLE, PER 109075.00	IPG 1/11/05	SAD	.XXX	±.005			REF	030967	
01	RELEASED FOR PRODUCTION	PG 11/30/04	PG	.XXXX	±.0005	MAT'L.	STAINLESS STEEL	FMF	STANDARD	
					±1/2'	FINISH		PREV		
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 THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT					RFP	CAD FILE	031741	SIZE	DRAWING NO.	REV.
					DIST			B	031741	E



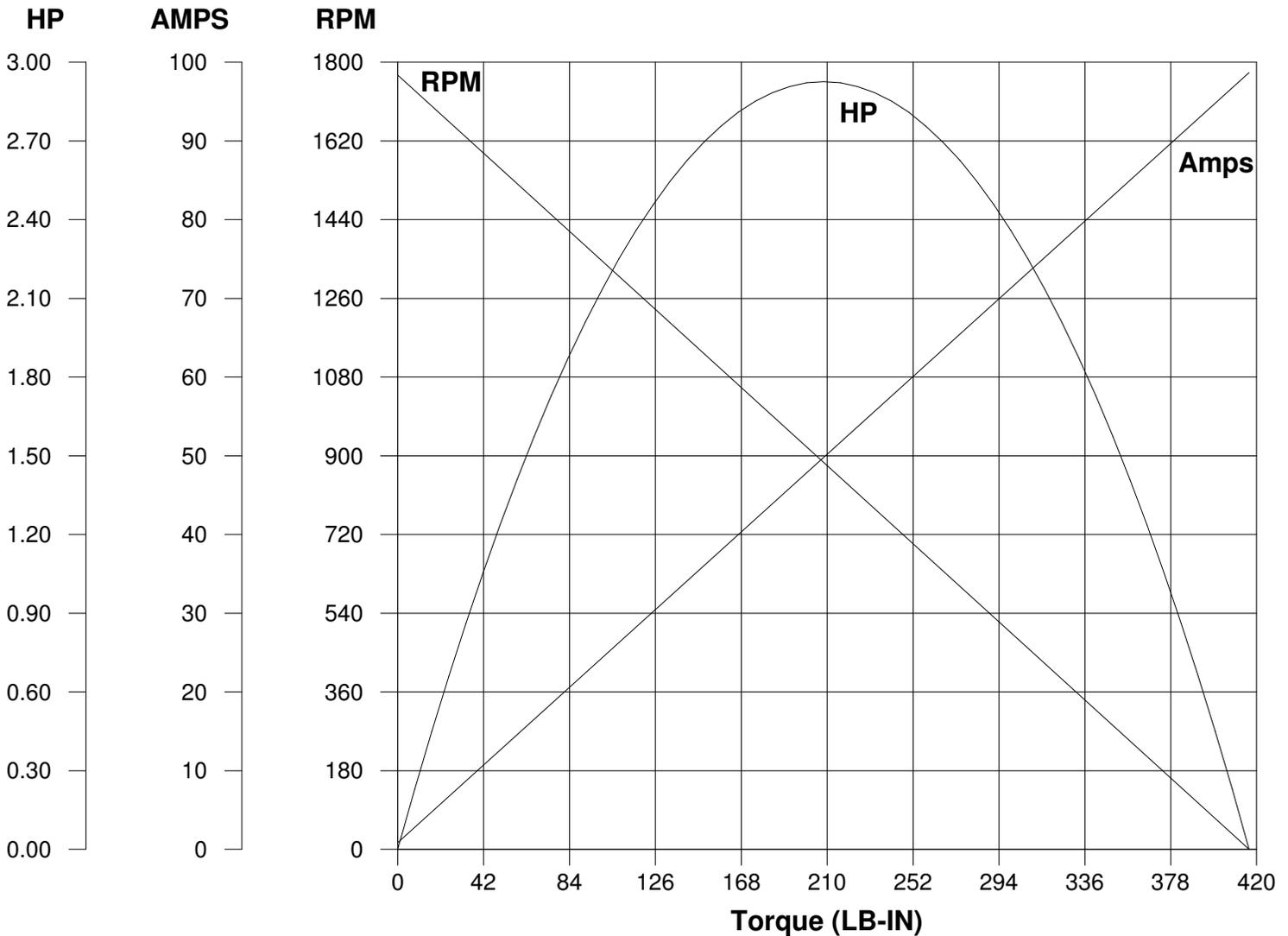
EXTERNAL CONNECTIONS FOR CCWLE ROTATION
 VIEWING LEAD END OF MOTOR WITH RED LEAD
 POSITIVE AND BLACK LEAD NEGATIVE.
 FOR CW ROTATION, REVERSE POLARITY.

				TOLERANCES UNLESS SPECIFIED		 ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN PG 12/10/04		
				DEC.	INCHES		CHK		
				.X	±.1		APPD PG 12/10/04		
				.XX	±.01		SCALE 5=8		
				.XXX	±.005		REF		
				.XXXX	±.0005	MAT'L.	FMF 109075.00		
NO.	REVISION	BY & DATE	CHK	ANG	±1/2"	FINISH	PREV		
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 THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT				RFP	CAD FILE	005487	SIZE	DRAWING NO.	REV.
				DIST			A	005487.01	

LEESON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE FOR DIRECT CURRENT PERMANENT MAGNET MOTOR

Model No. <u>C4D17WK9</u>	Catalog No. <u>109069.00</u>	
HP <u>0.500</u>	RPM <u>1750</u>	DC Volts <u>90.0</u>
F.F. <u>1.38</u>	Encl <u>TEFC</u>	N.P. FLA <u>5.20</u>
Max. Amb. <u>40.0 Deg C</u>	Insul. <u>F</u>	Type <u>DF</u>
		Frame <u>US56C</u>
		S.F. <u>1.00</u>
		Duty <u>Cont</u>



Ra 0.6180 Ohms
La 7.141 mHenrys
Ja 10.63 LB-IN²
Ke 50.39 V/KRPM

Kt 4.259 LB-IN/AMP
Imax 96.5 AMPS Allowed
FL Torque 18.00 LB-IN
FL EFF 79.00 %

Winding W- D552691-1 **Prepared by** V. Boehlen **Date** 10-17-2005