

PRODUCT INFORMATION PACKET



Model No: 109088.00
Catalog No: 109088.00
Premium Duck™ Washdown Motor, 1 HP, 90 V, 1750 RPM, ZS56C 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





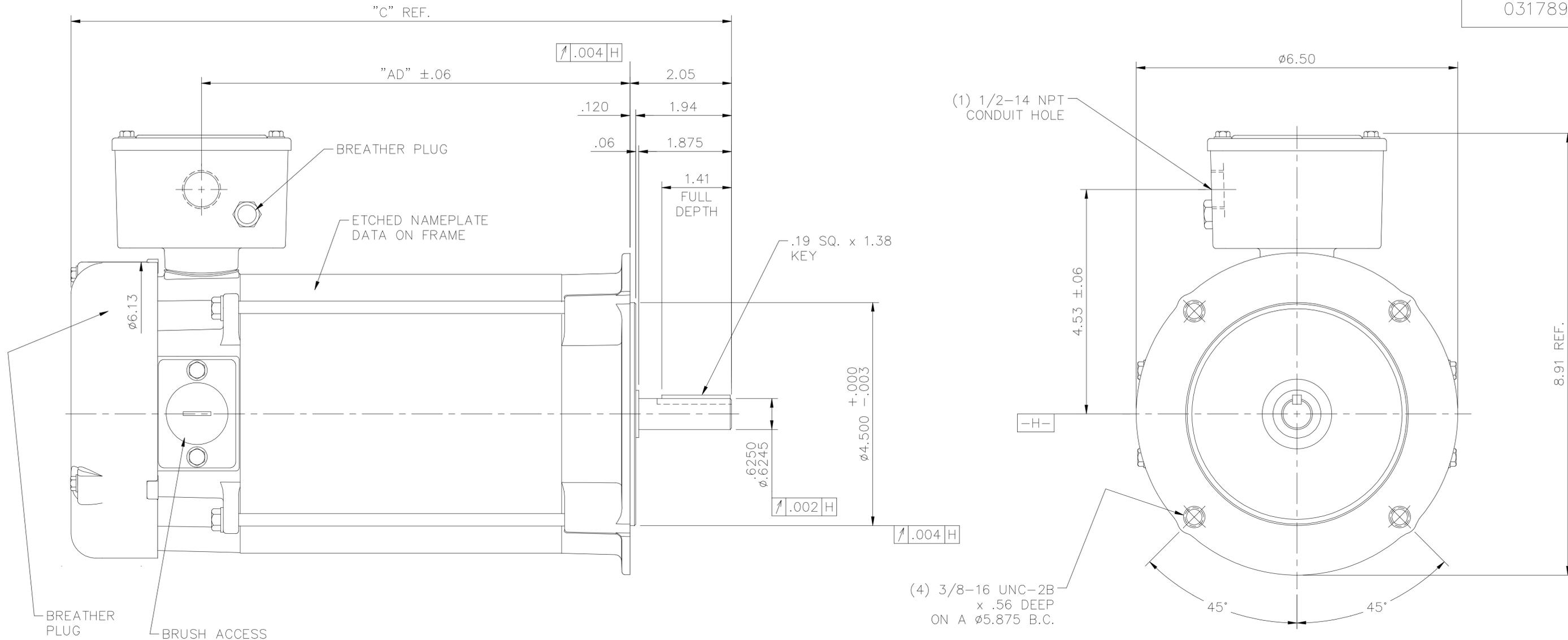
Nameplate Specifications

Output HP	1 Hp	Output KW	0.75 kW
Voltage	90 V	Speed	1750 rpm
Service Factor	1.0	Frame	ZS56C
Enclosure	Totally Enclosed Fan Cooled	Thermal Protection	No Protection
Efficiency	81.6 %	Ambient Temperature	40 °C
Current	9.5 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	Round
Overall Length	13.87 in	Frame Length	9.63 in
Shaft Diameter	0.625 in	Shaft Extension	2.05 in
Torque	36 LB-IN		
Outline Drawing	031789-ZS56C	Connection Drawing	005487

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



FRAME	"C"	"AD"
NS56C	12.87	8.16
RS56C	13.37	8.66
US56C	13.87	9.16
VS56C	14.37	9.66
WS56C	14.87	10.16
XS56C	15.37	10.66
YS56C	15.87	11.16
ZS56C	16.37	11.66

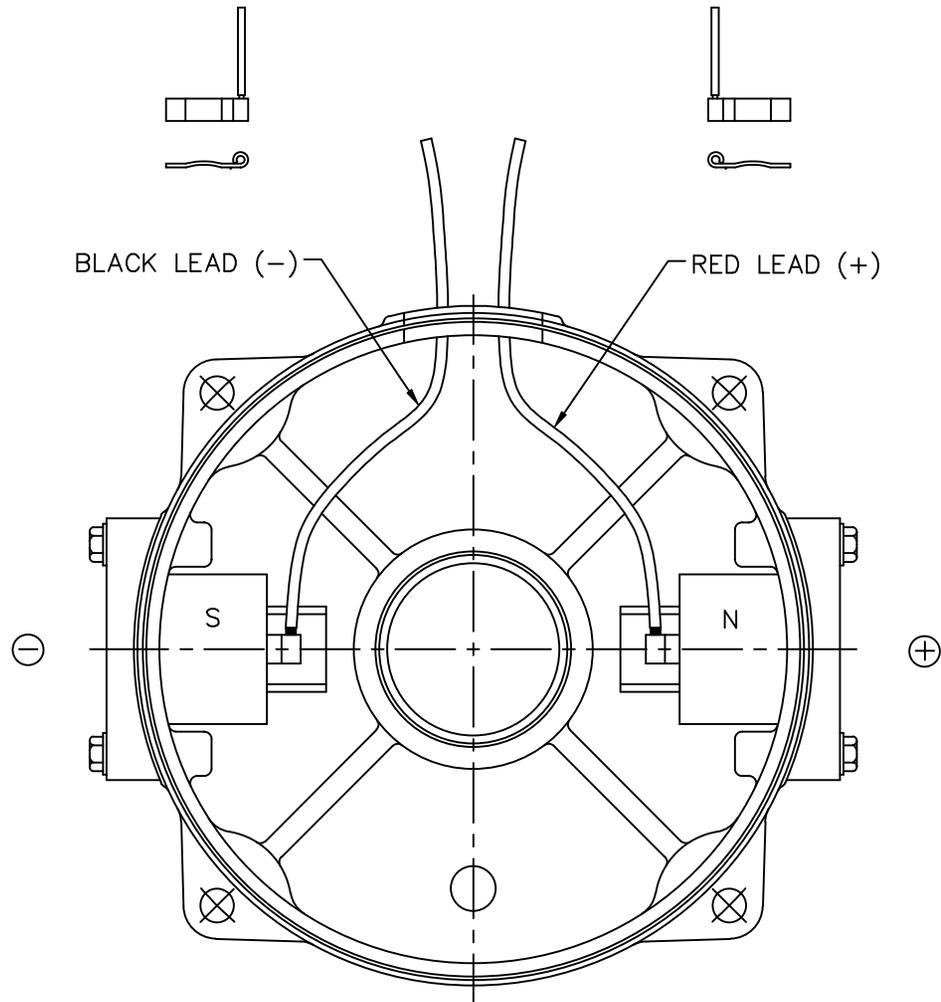
STAINLESS STEEL WASHGUARD MOTOR

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
002

		TOLERANCES UNLESS SPECIFIED		LEESON ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN PG 12/13/04	
		DEC.	INCHES			CHK	
		.X	±.1			APPD PG 12/13/04	
		.XX	±.03	TITLE		SCALE 1=2	
D	CORRECTED BREATHER LOCATION, ECO-0168998	IPG	6/18/19	.XXX	±.005	REF 030967	
01	ADDED FRAME DESIGNATION TO TABLE, PER 109088.00	IPG	1/31/05	SAD	.XXXX	MAT'L.	109088.00
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	031789	SIZE DRAWING NO.
				DIST			B 031789 D



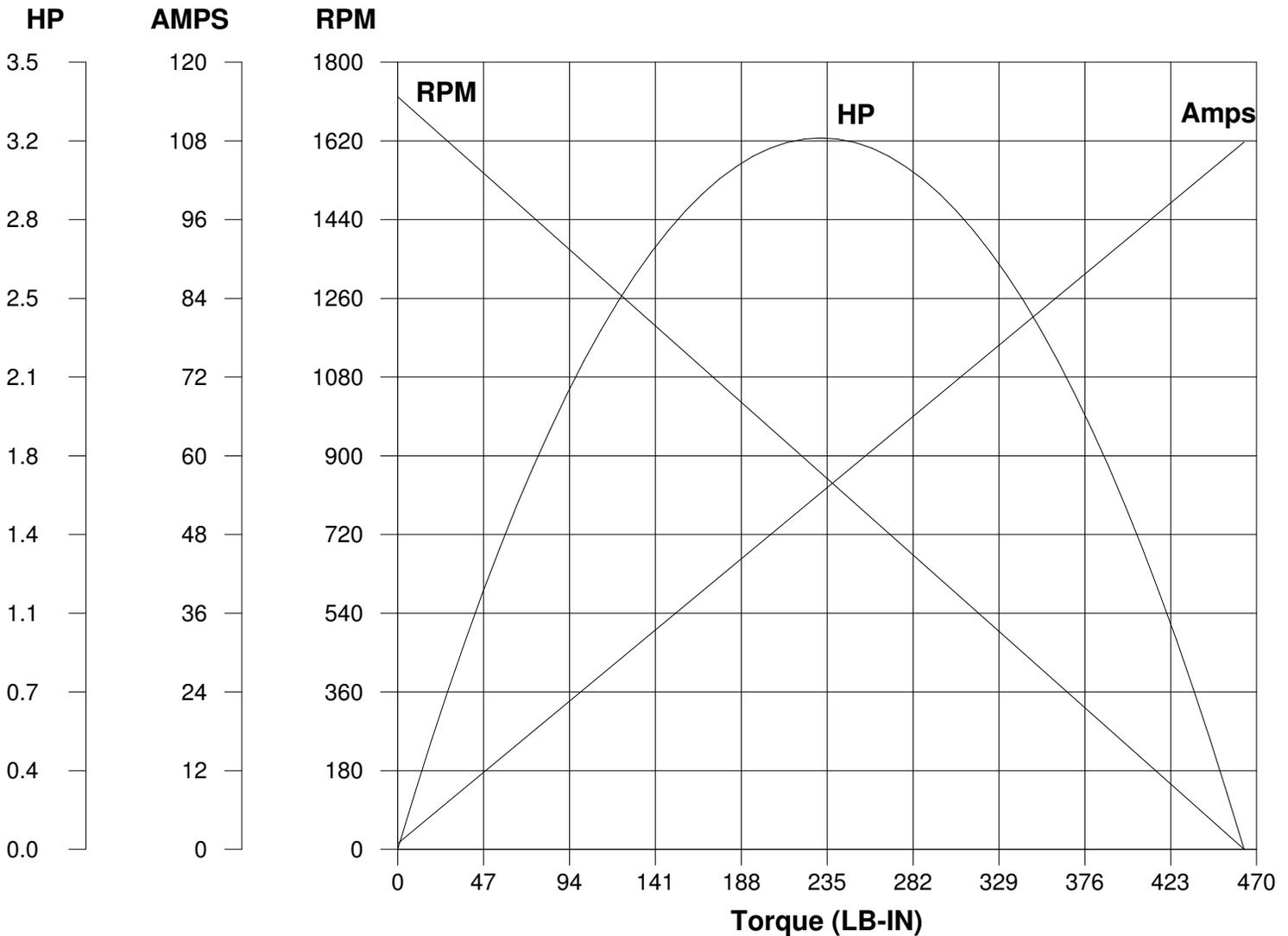
EXTERNAL CONNECTIONS FOR CCWLE ROTATION
 VIEWING LEAD END OF MOTOR WITH RED LEAD
 POSITIVE AND BLACK LEAD NEGATIVE.
 FOR CW ROTATION, REVERSE POLARITY.

				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 A	DRAWING NO. 005487.01	REV.
				DIST					

LEESON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE FOR DIRECT CURRENT PERMANENT MAGNET MOTOR

Model No. <u>C4D17WC8</u>	Catalog No. <u>109088.00</u>	
HP <u>1.000</u>	RPM <u>1750</u>	DC Volts <u>90.0</u>
F.F. <u>1.38</u>	Encl <u>TEFC</u>	Type <u>DF</u>
Max. Amb. <u>40.0 Deg C</u>	Insul. <u>F</u>	Frame <u>ZS56C</u>
		N.P. FLA <u>9.50</u>
		S.F. <u>1.00</u>
		Duty <u>CONT</u>



Ra 0.3970 Ohms
La 5.260 mHenrys
Ja 17.50 LB-IN²
Ke 51.28 V/KRPM

Kt 4.334 LB-IN/AMP
Imax 144.7 AMPS Allowed
FL Torque 36.00 LB-IN
FL EFF 81.60 %

Winding W- D552204-1 **Prepared by** V. Boehlen **Date** 10-18-2005