

PRODUCT INFORMATION PACKET



Model No: 109069.00
Catalog No: 109069.00
0.50 HP Washdown Duty DC Motor, 1750 RPM, 90 V, 56C Frame, TEFC
NEMA Motors



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The Regal logo is located in the bottom right corner. It features the word "REGAL" in a white, sans-serif font, set against a dark grey, trapezoidal background. The background of the entire page on the right side is a blue gradient with a halftone dot pattern.



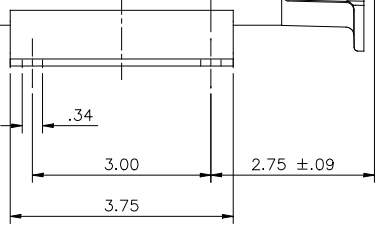
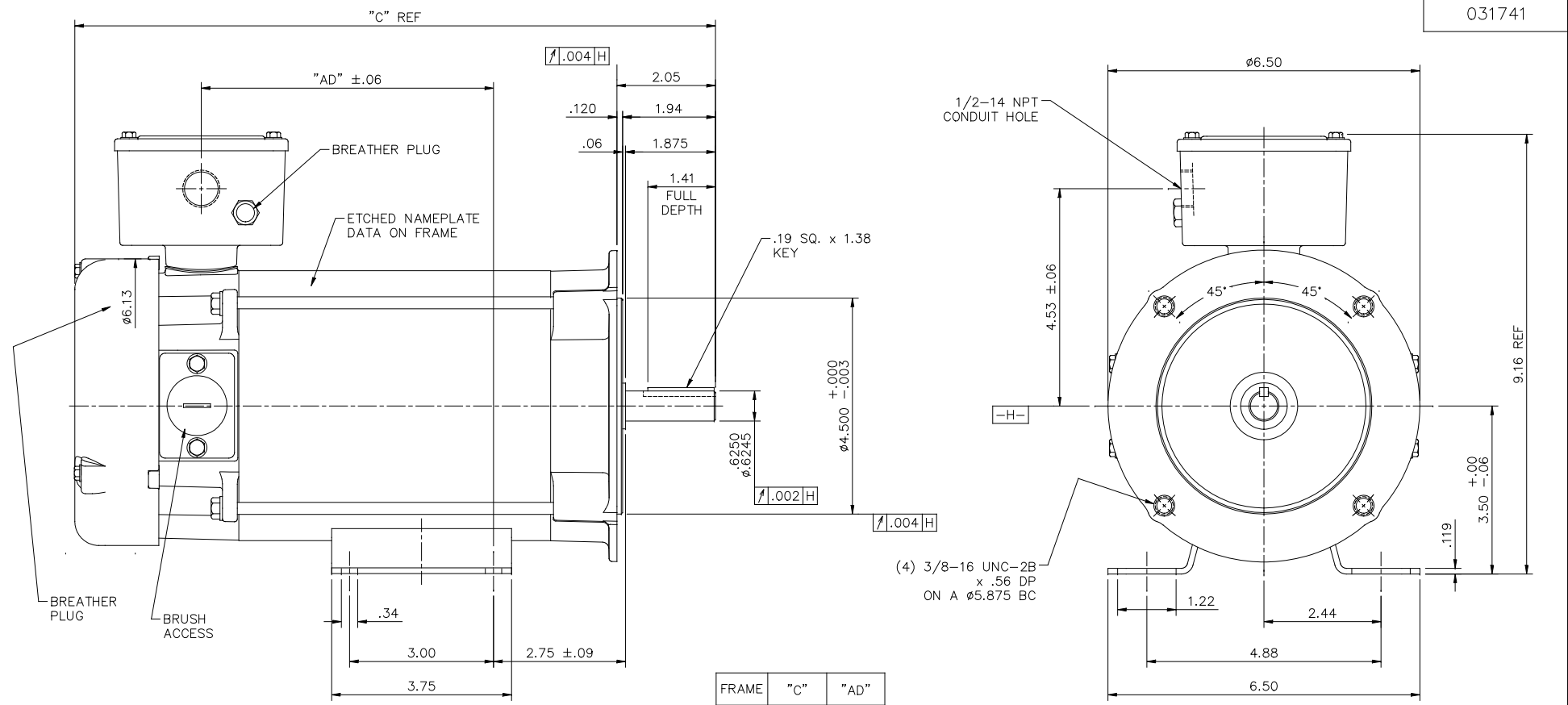
Nameplate Specifications

Output HP	0.50 Hp	Output KW	0.37 kW
Voltage	90 V	Current	5.2 A
Speed	1750 rpm	Service Factor	1
Efficiency	79 %	Duty	Continuous
Insulation Class	F	Frame	US56C
Enclosure	Totally Enclosed Fan Cooled	Thermal Protection	No
Ambient Temperature	40 °C	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
Outline Drawing	031741-US56C	Connection Drawing	005487

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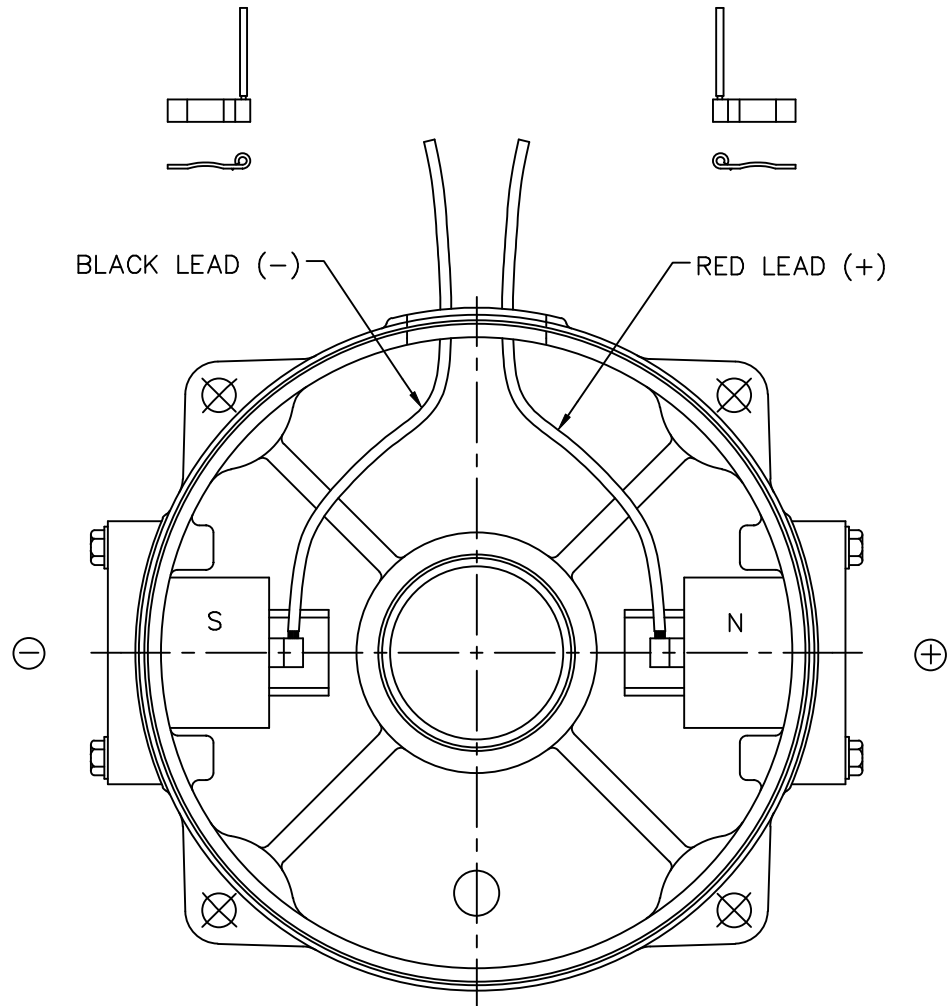
FRAME	"C"	"AD"
NS56C	12.87	5.59
RS56C	13.37	6.09
US56C	13.87	6.59
VS56C	14.37	7.09
WS56C	14.87	7.59
XS56C	15.37	8.09
YS56C	15.87	8.59
ZS56C	16.37	9.09

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

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		TOLERANCES UNLESS SPECIFIED		LEESON	ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN
		DEC.	INCHES			CHK
		.X	±.1			APPD PG 11/30/04
E	CORRECTED BREATHER LOCATION, ECO-0168998	IPG	6/18/19	.XX	±.03	TITLE
02	ADDED FRAME DESIGNATION TO TABLE, PER 109075.00	IPG	1/11/05	.XXX	±.005	48 FRAME DC - S56C MOUNT - TEFC
01	RELEASED FOR PRODUCTION	PG	11/30/04	.XXXX	±.0005	MAT'L
NO.	REVISION	BY & DATE	CHK	ANG	±1/2"	FINISH
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
				CHK	SIZE	DRAWING NO.
				DIST	B	031741
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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
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				DIST			A 005487.01
							REV.

LEESON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE FOR DIRECT CURRENT PERMANENT MAGNET MOTOR

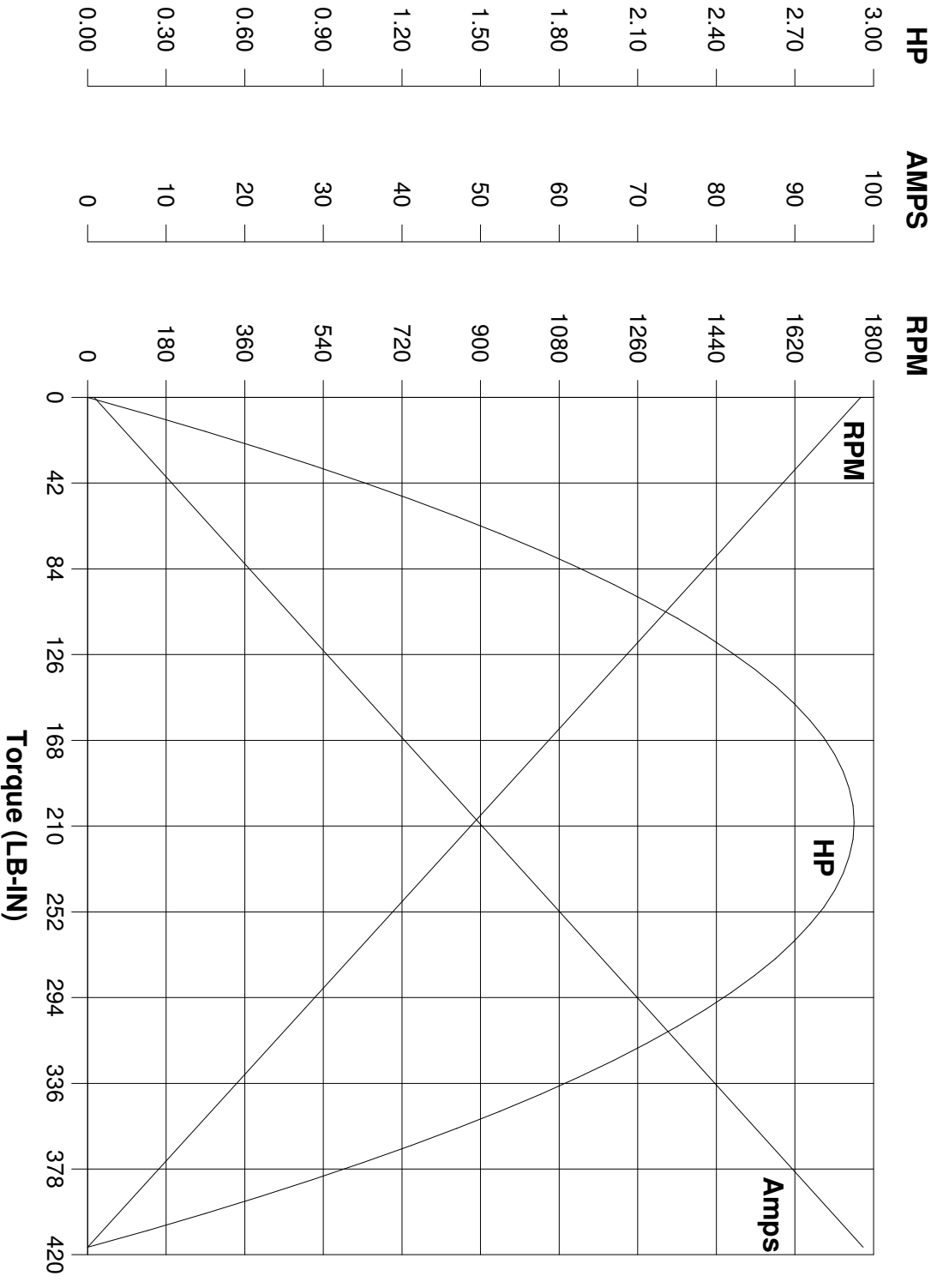
Model No. C4D17WK9

Catalog No. 109069.00

HP 0.500 RPM 1750 DC Volts 90.0 N.P. FLA 5.20

F.F. 1.38 Encl TEFC Type DF S.F. 1.00

Max. Amb. 40.0 Deg C Insul. F Frame US56C Duty Cont



Ra 0.6180 Ohms
 La 7.141 mHenrys
 Ja 10.63 LB-IN^{1/2}
 Ke 50.39 V/KRPM

Kt 4.259 LB-IN/AMP
 I_{max} 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