



174709.00 DC DRIVE-1Q SCR-NEMA 4X

The 174709.00 is a reliable and cost-effective solution for controlling your permanent magnet or shunt-wound DC motors in variable-speed applications. It uses SCR's to provide full-wave rectification of the AC line input. This dual voltage drive operates using 115 VAC or 230 VAC, 50/60 Hz, to operate 90 or 180 VDC SCR brush-type motors from 1/20 to 2 HP. Packaged in a NEMA 4X enclosure, this user-friendly drive possesses diagnostics and options to accommodate user needs.

FEATURES

NEMA 4X - Water resistant and dust proof enclosure.

Field Supply - Voltage output to energize the field winding of a shunt-wound motor.

Stopping Modes - Inhibit (N.O.) for coasting to a stop. Can be used for frequent starting and stopping.

Line Fusing - Includes two fuses.

Diagnostic LEDs - Current Limit

Case LEDs - Power

Pre-Wired Switches - Power (ON/OFF)

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SPECIFICATIONS

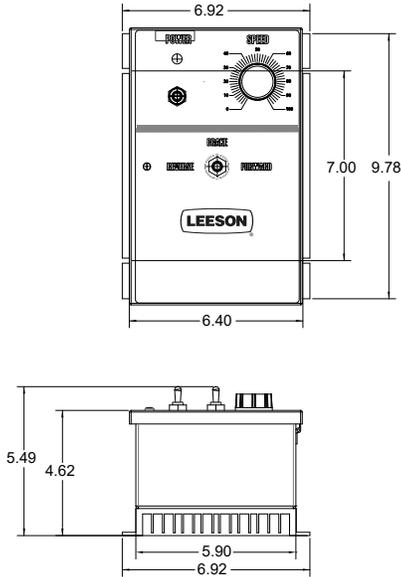
- AC Line Voltage: 115 / 230 VAC, $\pm 10\%$, 50/60 Hz, 1 \emptyset
- Field Voltage **with 115 VAC Line (230 VAC Line):**
50/100 (100/200) VDC
- Maximum Field Amperage: 1 Amp
- Acceleration Time Range **with 90V Armature:** 0.5 - 11 seconds
with 180V Armature: 0.5 - 22 seconds
- Deceleration Time Range **with 90V Armature:** coast to 13 seconds
with 180V Armature: coast to 25 seconds
- Analog Signal Range **with 90V Armature:** 0 - 1.4 VDC
with 180V Armature: 0 - 2.8 VDC Input Impedance (S1 to S2: >100K Ω)
- Form Factor: 1.37 at base speed
- Load Regulation: 1% of base speed or better
- Speed Range: 60:1
- Ambient Temperature Range: 10°C - 40°C

ORDERING INFO

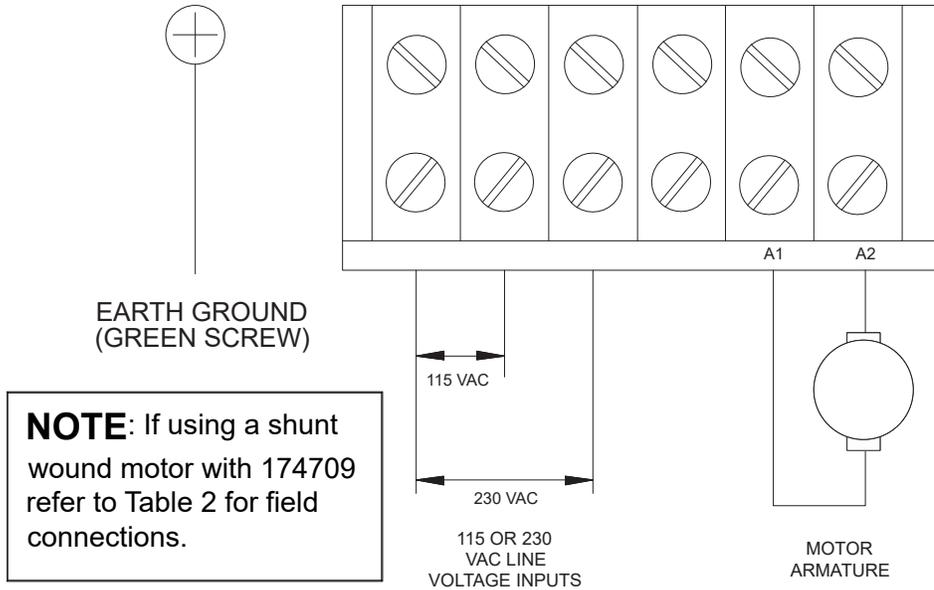
MODEL #	ENCLOSURE	MAXIMUM CURRENT (ADC)	INPUT VOLTAGE (VAC)	OUTPUT VOLTAGE (VDC)	POWER RANGE		FIELD/SHUNT SUPPLY (VDC)	BRAKING	REVERSING	ISOLATION
					HP	KW				
174709.00	NEMA 4X	15	115	0-90	1-1 1/2	.75-1.1	YES	NO	NO	NO
			230	0-90	1-1 1/2	.75-1.1				
				0-180	2-3	1.5-2.2				

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DIMENSIONAL DRAWINGS — INCHES [MILLIMETERS]



WIRING



TRIM POTS

- Acceleration
- IR Compensation
- Current Limit
- Maximum Speed Deceleration
- Minimum Speed

ACCESSORIES

- 900282.01:** Inhibit Plug with 18" wire leads

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Regal Beloit America, Inc.

1051 Cheyenne Avenue

Grafton, WI 53024

Customer Service: 262-377-8810

Fax: 262-377-9025

www.regalbeloit.com

APPLICATION CONSIDERATIONS

The proper selection and application of power transmission products and components, including the related area of product safety, is the responsibility of the customer. Operating and performance requirements and potential associated issues will vary appreciably depending upon the use and application of such products and components. The scope of the technical and application information included in this publication is necessarily limited. Unusual operating environments and conditions, lubrication requirements, loading supports, and other factors can materially affect the application and operating results of the products and components and the customer should carefully review its requirements. Any technical advice or review furnished by Regal Beloit America, Inc. and/or its affiliates ("Regal") with respect to the use of products and components is given in good faith and without charge, and Regal assumes no obligation or liability for the advice given, or results obtained, all such advice and review being given and accepted at customer's risk.

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