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TECHNOLOGY GROUP

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Find the *Leeson Speedmaster 174107.00* at our website: ***Click HERE***




# 174102.00, 174103.00 AND 174107.00 DC DRIVE - 1Q SCR - NEMA 4X

These drives provide a reliable and economical solution for variable speed control of DC motors from 1/8 to 2 horsepower.

Housed in a NEMA 4X enclosure, the dual voltage drive is ideal for washdown applications and provides protection from moisture, windblown dust and incidental contact.

Included are power and current limit LEDs, line fuses, inhibit pins for remote start/stop, and a speed adjust knob mounted on the front cover. In addition, the 174102.00 model includes an On/Off switch on the front cover; the 174107.00 model- a Forward/Off/Reverse switch; and the 174103.00 model- an On/Off switch and a Manual/Signal switch.

With excellent control and a plastic NEMA 4X enclosure, these drives are the perfect solution for many applications that require an enclosed drive.

**FEATURES**

**NEMA 4X Plastic Enclosure** - Plastic weatherproof and corrosion resistant enclosure that protects against dirt and splashing.

**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 on-board fuses.
Diagnostic LEDs - Current Limit, Power

**Pre-Wired Switches** - Power (ON/OFF)

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**SPECIFICATIONS**

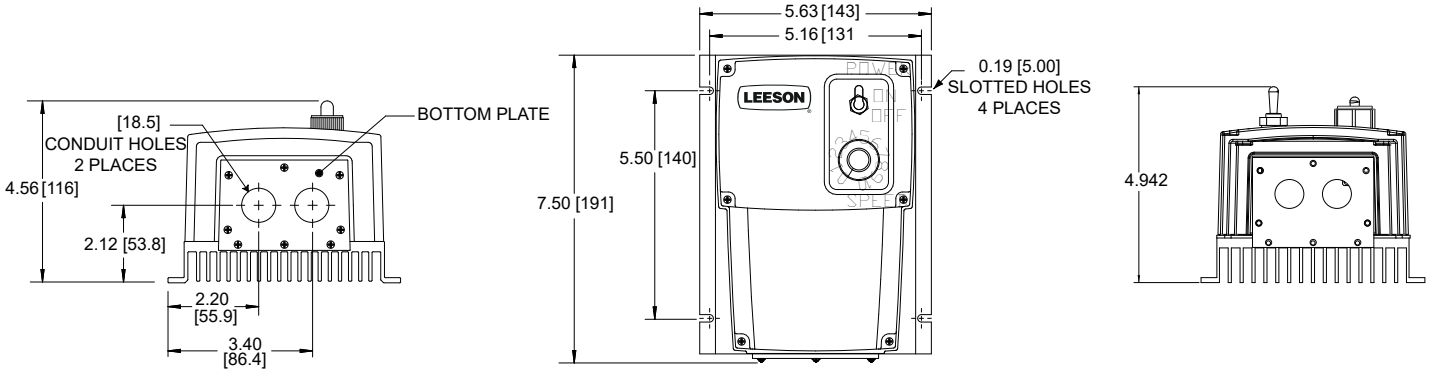
- AC Line Voltage: 115 / 230 VAC, ±10%, 50/60 Hz, 1Ø
- Field Voltage **with 115 VAC Line (230 VAC Line):**
- 50/100 (100/200) VDC
- Maximum Field Amperage: 1 Amp
- Acceleration Time Range: 0.5 - 15 seconds
- Deceleration Time Range: coast to 15 seconds
- Analog Signal Range **with 90V Armature:** Isolated 0 - 1.4 VDC
- **with 180V Armature:** Isolated 0 - 2.8 VDC
- Analog Signal Range 174103.00: 0 - 10 VDC, 4 - 20 mA
- 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**

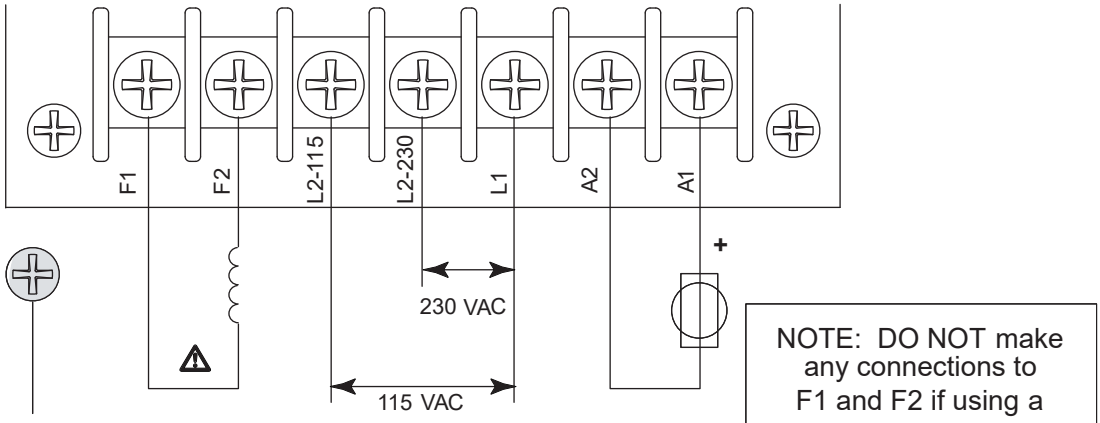
| MODEL # | ENCLOSURE | MAXIMUM CURRENT (ADC) | INPUT VOLTAGE (VAC) | OUTPUT VOLTAGE (VDC) | POWER RANGE | | FIELD/ SHUNT SUPPLY (VDC) | BRAKING | REVERSING | ISOLATION |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | HP | KW | | | | |
| 174102.00 | NEMA 4X | 10 | 115 | 0-90 | 1/8-1 | .09-.75 | YES | NO | NO | NO |
| | | | 230 | 0-90 | 1/8-1 | .09-.75 | | | | |
| | | | | 0-180 | 1/4-2 | .19-1.5 | | | | |
| 174103.00 | NEMA 4X | 10 | 115 | 0-90 | 1/8-1 | .09-.75 | YES | NO | NO | YES |
| | | | 230 | 0-90 | 1/8-1 | .09-.75 | | | | |
| | | | | 0-180 | 1/4-2 | .19-1.5 | | | | |
| 174107.00 | NEMA 4X | 10 | 115 | 0-90 | 1/8-1 | .09-.75 | YES | NO | YES | NO |
| | | | 230 | 0-90 | 1/8-1 | .09-.75 | | | | |
| | | | | 0-180 | 1/4-2 | .19-1.5 | | | | |

# 174102.00, 174103.00 AND 174107.00 DC DRIVE - 1Q SCR - NEMA 4X

**DIMENSIONAL DRAWINGS — INCHES [MILLIMETERS]**




**WIRING**




**EARTH GROUND (GREEN SCREW)** | **FIELD OUTPUT** | **LINE VOLTAGE INPUT (115 or 230 VAC)** | **MOTOR ARMATURE**

**TRIM POTS**

Acceleration
IR Compensation
Signal Maximum (174307.00)
Current Limit
Maximum Speed
Signal Minimum (174307.00)
Deceleration
Minimum Speed

**ACCESSORIES**

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

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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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REGAL®

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