

# 174422.00 DC DRIVE-1Q SCR-CHASSIS

The 174422.00 provides the power of two drives in one. Now, with one DC drive, you can control two different DC motors either independently or in a ratio mode. In independent mode, each side of the drive can be controlled independently from the other motor. There are two unique sets of trim pots for calibration. In ratio mode, one speed potentiometer sets the main speed while the other one determines the ratio of the speeds between the motors. In this mode, the drive replaces two single drives and possibly a separate master/follower card resulting in extreme cost and panel space savings.

The 174422.00 is easy to set up with simple jumpers to choose the speed/torque and independent/ratio modes. Set up parameters are easily adjusted with on board trim pots. For OEMs that have fixed settings, the drive is microprocessor based and can have the settings or ranges of the trim pots and other functions customized without any hardware changes.

## FEATURES

**Two Motor Outputs** - Two separate motor outputs.

**Two Operating Modes** - The motors can be run independently or in ratio mode.

**Microprocessor-based Design** - Allows custom programming and configuration for the unique needs of OEMs.

**Industry Standard Footprint** - Traditional mounting pattern and footprint allows for replacing competitive drives.

**Torque Mode** - Can be used for speed control or torque control in tensioning applications.

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

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## SPECIFICATIONS

- AC Line Voltage: 115 / 230 VAC,  $\pm 10\%$ , 50/60 Hz, 1 $\emptyset$
- Acceleration Time Range: 0.5 - 15 seconds
- Deceleration Time Range: coast to 15 seconds
- Analog Signal Range: 0 - 4.6 VDC
- Input Impedance (S1 to S2):  $>100K \Omega$
- Form Factor: 1.37 at base speed
- Load Regulation: 1% of base speed or better
- Speed Range: 60:1
- Ambient Temperature Range: 10°C - 55°C

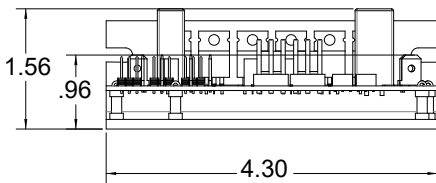
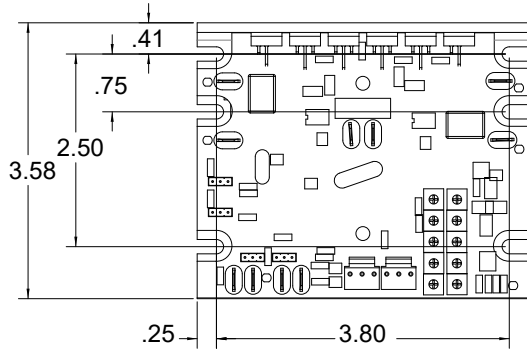
## ORDERING INFO

MODEL #	ENCLOSURE	MAXIMUM CURRENT (ADC)	INPUT VOLTAGE (VAC)	OUTPUT VOLTAGE (VDC)	POWER RANGE		FIELD/ SHUNT SUPPLY (VDC)	BRAKING	REVERSING	ISOLATION
					HP	KW				
174422.00	CHASSIS	11.5*	115	0-90	1/15-1	.05-.75	YES	NO	NO	NO
			230	0-90	1/15-1	.05-.75				
				0-180	1/2-2	.09-1.5				

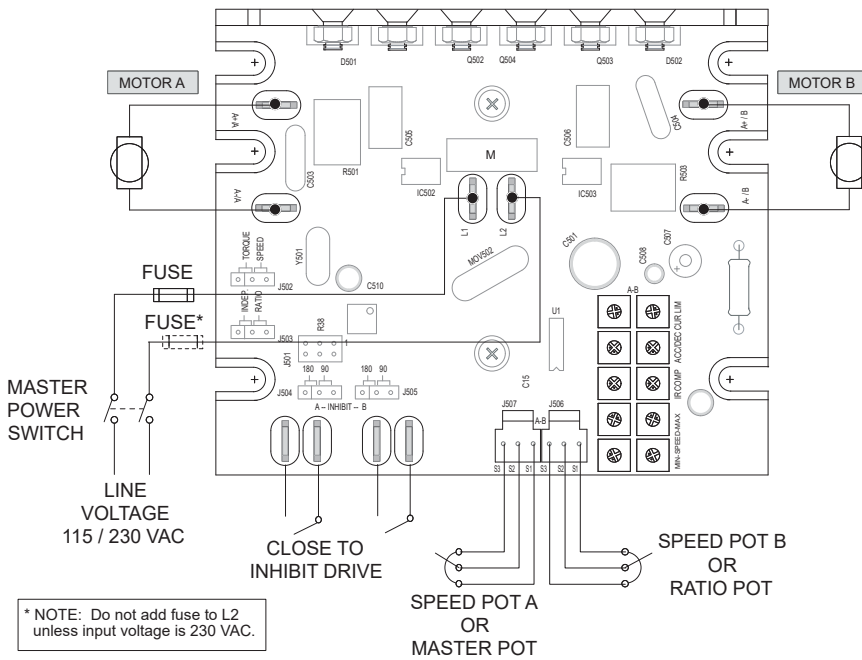
\*Each motor must be less than or equal to 10 amps and the combined amperage must be less than 11.5 amps.

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## DIMENSIONAL DRAWINGS — INCHES [MILLIMETERS]



## WIRING



## TRIM POTS

- Current Limit (A & B)
- Maximum Speed (A & B)
- IR Compensation (A & B)
- Minimum Speed (A & B)
- Acceleration / Deceleration (A & B)

## ACCESSORIES

- 006708.01:** Potentiometer kit (included with purchase of drive)
- 174314.00:** Heat sink

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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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