



175326.00 AC VFD - NEMA 4X

The dual voltage isolated 175326.00 series inverter can accept a speed reference signal without a separate isolation card. It can be used with a variety of motors including 3-phase induction, single-phase permanent split capacitor (PSC), shaded pole and synchronous motors.

Packed with features, the 175326.00 series has a "doubling" jumper that can be set to output 230 VAC to a motor when only 115 VAC power supply is available. A jumper also determines if the VFD is set for automatic or manual restarting.

If automatic restart is selected, the inverter will restart after a low voltage fault or power loss, when the input voltage is restored to a minimum level. Another jumper selectable option is DC injection braking or coast-to-stop.

The compact 175326.00 series is available to 1.5 HP, and has the features and flexibility expected in a full-featured AC drive.

FEATURES

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

Doubler Mode - Allows for a 230 VAC output with a 115 VAC input.

Isolated Inputs - Accepts floating or grounded signals (0-5 VDC, 0-10 VDC, 4-20 mA).

Stopping Modes - Enable (N.C.) for coasting to a stop. DC Injection can be enabled for braking to a stop. Can be used for frequent starting and stopping.

Torque Foldback - Allows for up to 200% torque to overcome intermittent peak loads.

Auto or Manual Restart - Drive can be set for an automatic or manual restart after a low AC Line Voltage fault.

Line Fusing - Includes one on-board fuse.

Diagnostic LEDs - Enable, Fault, Power, Torque Limit
Prewired Switches - Enable & Direction (FORWARD/
OFF/REVERSE)

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SPECIFICATIONS

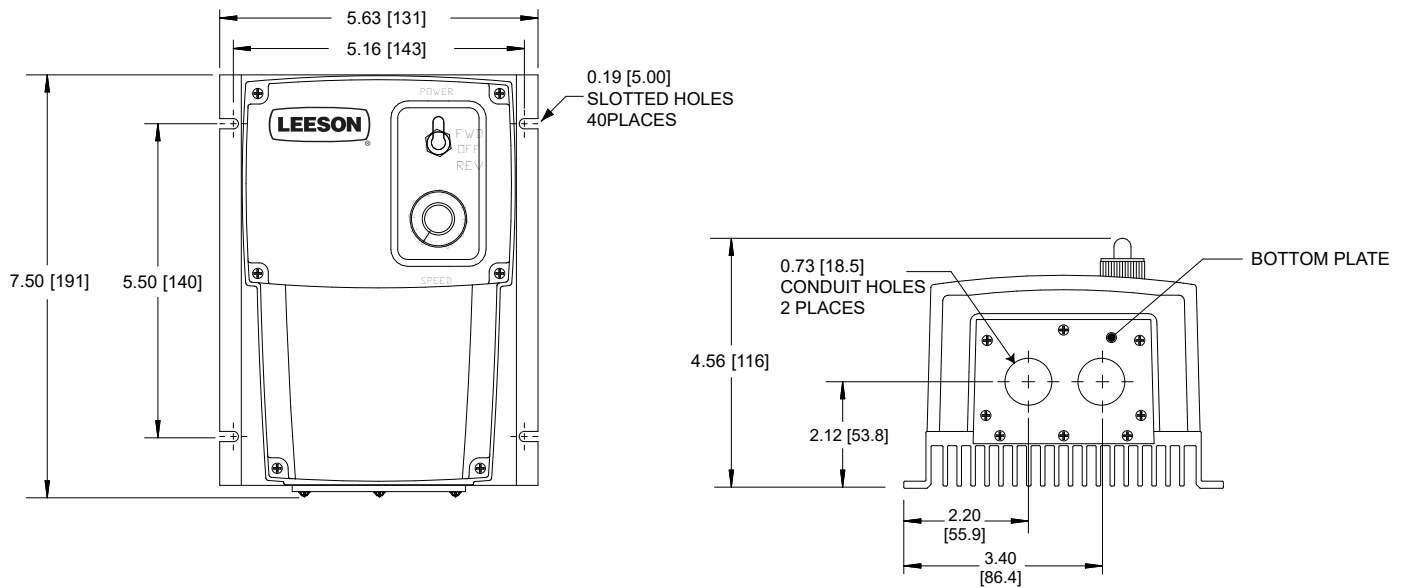
- AC Line Voltage: 115 / 230 VAC, $\pm 10\%$, 50/60 Hz, 1 \emptyset
- Standard Carrier Frequency; 16 kHz
- Maximum Output Frequency Range: 30 - 120 Hz
- Minimum Output Frequency Range: 0 - 30 Hz
- Maximum Field Amperage: 1 Amp
- Acceleration Time Range: 1 - 12 seconds
- Deceleration Time Range: 1 - 12 seconds Analog Signal Range: 0 - 5
- VDC, 0 - 10 VDC, 4 - 20 mA
- Input Impedance (S1 to S2): $>100K \Omega$
- Braking Current: 4 amps
- Braking Time: 1 - 12 seconds
- Ambient Temperature Range: 10°C - 40°C

ORDERING INFO

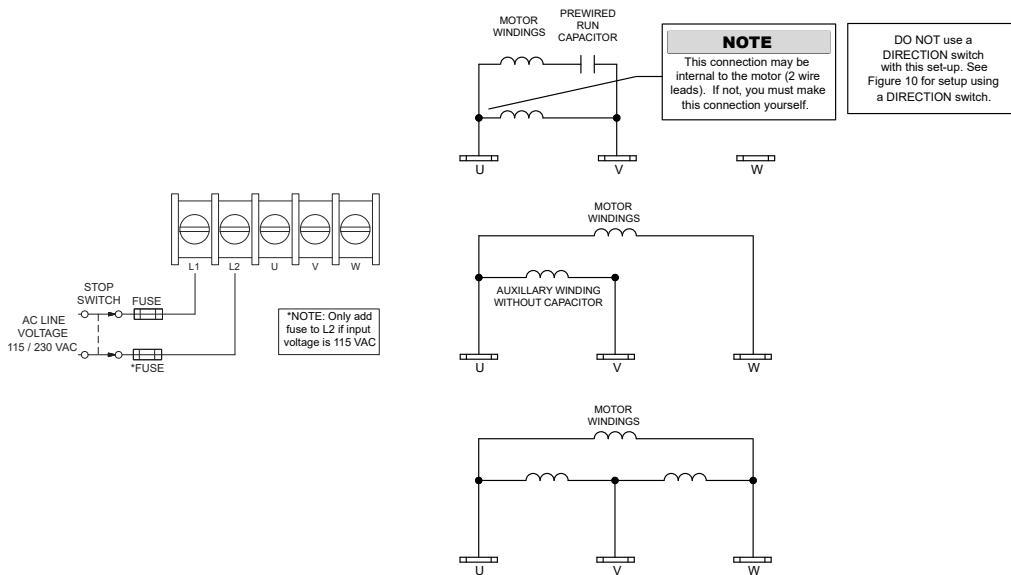
MODEL #	ENCLOSURE	MAXIMUM CURRENT (ADC)	INPUT VOLTAGE (VAC)	OUTPUT VOLTAGE (VDC)	POWER RANGE		FIELD/ SHUNT SUPPLY (VDC)	BRAKING	REVERSING	ISOLATION
					HP	KW				
175326.00	NEMA 4X	4	115 50/60 Hz-1 \emptyset	0-230 60Hz 1 or 3 \emptyset	3/8-1	.28-.75	YES	YES DC Injection Braking	YES	YES
			230 50/60 Hz-1 \emptyset							

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DIMENSIONAL DRAWINGS — INCHES [MILLIMETERS]



WIRING



TRIM POTS

- Acceleration
- Brake Current
- Maximum Speed Deceleration
- Brake Time
- Minimum Speed Slip Compensation
- Boost
- Torque Limit

ACCESSORIES

- 175325.00:** Carrier frequency capacitor kit

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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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