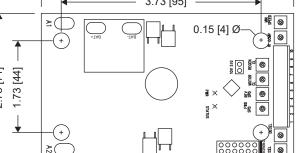


- Analog Input Voltage Range. 0 - 5; 0 - 10 VDC Form Factor .. 1.01 . 1.0% of base speed Load Regulation Speed Range 80:1 Maximum Vibration 0 - 50 Hz (>50 Hz) 0.5G (0.1G) Surrounding Air Temperature Range 32 - 104°F / 0 - 40°C .. 0.15 lbs / 0.07 kg Weight.
- · Do not disconnect any of the motor leads from the drive unless power is removed or the drive is disabled. Opening any one lead while the drive is running may damage the drive.
- Under no circumstances should power and logic level wires be bundled together. · Be sure potentiometer tabs do not make contact with the potentiometer's body. Grounding the
- input may cause damage to the drive.
- This product does not have internal solid state motor overload protection. It does not contain speed-sensitive overload protection, thermal memory retention, or provisions to receive and act upon signals from remote devices for over temperature protection. If motor protection is needed in the end-use product, it needs to be provided by additional equipment in accordance with NEC standards



Γ	MODEL	HEIGHT
	DCR300-6	1.33 [34]
	DCR600-6	1.95 [50]

ALL DIMENSIONS IN INCHES [MILLIMETERS]

Installation

Mounting

· Components are sensitive to electrostatic discharge. Avoid direct contact with the circuit board. Hold the drive by the chassis only.

· Protect from dirt, moisture, and accidental contact.

- Provide sufficient room for access to the terminal block and calibration trim pots. Mount away from heat sources. Operate within the surrounding air temperature range.
- Prevent loose connections by avoiding excessive vibration.

 Mount in either a horizontal or vertical plane. Four 0.19" (5 mm) wide slots in the chassis accept #8 pan head screws.

• The chassis should be earth grounded.

Wiring: Use 18 - 24 AWG wire for logic wiring. Use 10- 12 AWG wire for DC source (+BAT, -BAT) and motor (A1, A2) wiring. Follow NEC standards for wiring.

Shielding Guidelines: As a general rule, it is recommended to shield all conductors. If it is not practical to shield power conductors, it is recommended to shield all logic-level leads. If shielding of logic-level leads is not practical, the user should twist all logic leads with themselves to minimize induced noise. It may be necessary to earth ground the shielded cable. If noise is produced by devices other than the drive, ground the shield at the drive end. If noise is generated by the drive, ground the shield at the end away from the drive. Do not ground both ends of the shield.

Fusing: Use fast acting fuses rated for at least 150% of the maximum armature current. Fuse the positive terminal

Input Power

Connect the DC input power leads to terminals +BAT (positive) and -BAT (negative). Connecting the DC input power backwards will cause damage to the drive.

Motor

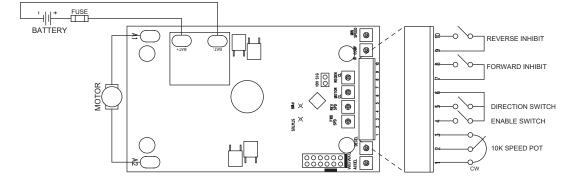
Connect the DC armature leads to terminals A1 and A2. If the motor does not spin in the desired direction. Direction Switch power down the drive and reverse these connections.

Speed Potentiometer / Analog Signal

Use a 10K ohm, 1/4 W potentiometer for speed control. Connect the counter-clockwise end of the Connect a forward inhibit switch to terminals 7 and 8 and a reverse inhibit switch to terminals 9 and 10. potentiometer to terminal 3, the wiper to terminal 2, and the clockwise end to terminal 1. If the Opening a connection regeneratively brakes the motor to a stop. The inhibits bypass the DECEL trim potentiometer works inversely of desired functionality, (i.e. to increase motor speed, you must turn the pot. The forward inhibit switch has no effect if the motor is running in reverse, and vice versa. If the use potentiometer counterclockwise), power off the drive and swap the terminal 1 and 3 connections. To use of only one inhibit switch is desired, jumper terminals 7 and 9 and then connect the switch to either the an analog signal, connect the common (-) end of the signal to terminal 3 and the reference (+) end of the forward or reverse inhibit input. If no inhibit switches are desired, jumper terminals 7 and 8 and jumper signal to terminal 2. terminals 9 and 10. Do not use the Inhibit functions for emergency stopping.

Connections

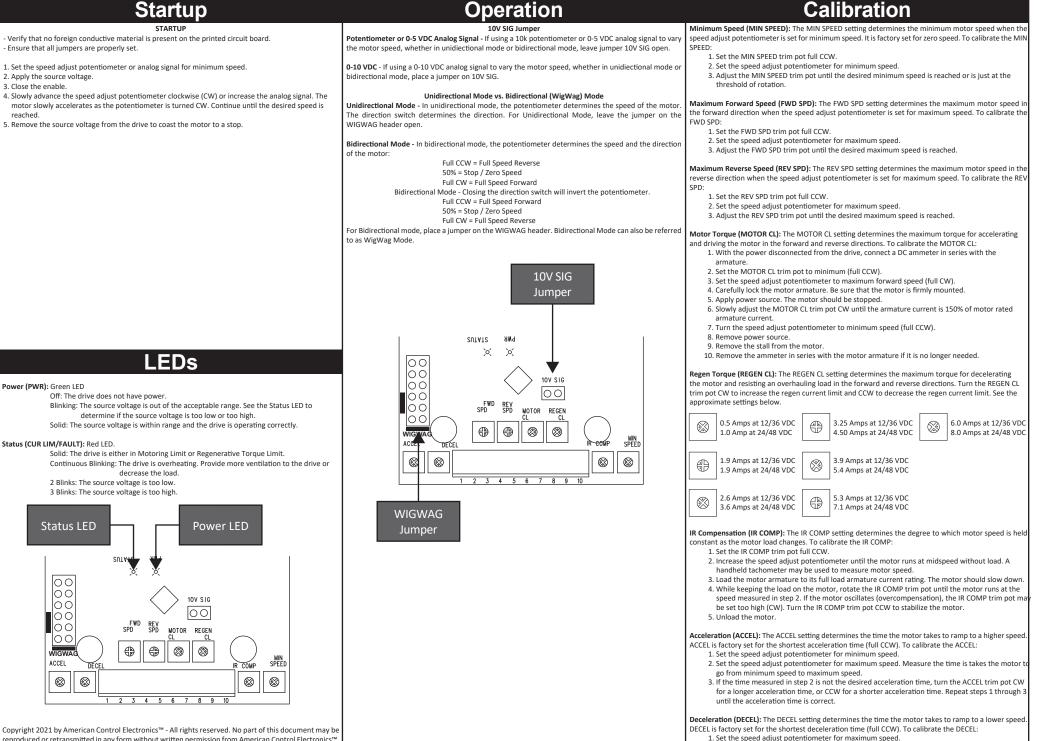
Enable Switch



Connect an enable switch to terminals 4 and 6. Close the switch to run and open the switch to coast the motor to a stop. The enable comes into effect regardless of direction. If no switch is desired, jumper the COM and EN terminals. Do not use the Enable function for emergency stopping.

Connect a direction switch to terminals 5 and 6. Close the switch to run in reverse.

Forward & Reverse Inhibit



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2. Apply the source voltage.

Power (PWR): Green LED

Status LED

00

00

00

00

00

00

WIGWAG

ACCEL

83 83

3. Close the enable.

reached.

2. Set the speed adjust potentiometer for minimum speed. Measure the time is takes the motor to

3. If the time measured in step 2 is not the desired deceleration time, turn the DECEL trim pot CW

for a longer deceleration time, or CCW for a shorter deceleration time. Repeat steps 1 through 3

go from maximum speed to minimum speed.

until the deceleration time is correct.