

Instruction Manual for Dodge Model 50 Clutch/Brake Power Supplies

These instructions must be read thoroughly before installing or operating this product.



FEATURES

- 120 VAC Input 50/60 Hz
- Full Wave 90 VDC Output
- 0.80 Amp Rating
- Switch Protection
- Operates a clutch or brake

SPECIFICATIONS

INPUT: 120 VAC, 50/60 Hz, 1 phase, 100 VA Max.

OUTPUT: 90 VDC nominal, full wave rectified, 0.80 amps Max.

AMBIENT TEMPERATURE: -40°F (-40°C) to 122°F (50°C)

SWITCHING: Supplied by customer.

1. Electromechanical:
Single pole single throw, rated 120 VAC, 1 amp min.
2. Solid state:
Triac, rated 120 VAC, 1 amp min. (off state leakage current at 2 mA Max.)

WARNING: Because of the possible danger to person(s) or property from accidents which may result from the improper use of products, it is important that correct procedures be followed: Products must be used in accordance with the engineering information specified in the catalog. Proper installation, maintenance and operation procedures must be observed. The instructions in the instruction manuals must be followed. Inspections should be made as necessary to assure safe operation under prevailing conditions. Proper guards and other suitable safety devices or procedures as may be desirable or as may be specified in safety codes should be provided, and are neither provided by Baldor Electric Company nor are the responsibility of Baldor Electric Company. This unit and its associated equipment must be installed, adjusted and maintained by qualified personnel who are familiar with the construction and operation of all equipment in the system and the potential hazards involved. When risk to persons or property may be involved, a holding device must be an integral part of the driven equipment beyond the speed reducer output shaft.

DESCRIPTION

The Model 50 Clutch/Brake power supply is capable of operating any DODGE clutch or brake within its rating. Switching for the DODGE Model 50 is done on the 120 VAC input of the power supply via a customer supplied switch. Internal circuitry provides suppression of switching transients thus ensuring both fast response and switch protection.

INSTALLATION

1. MOUNTING:

The Model 50 power supply may be mounted in any convenient location using the mounting dimensions shown in Figure 1.

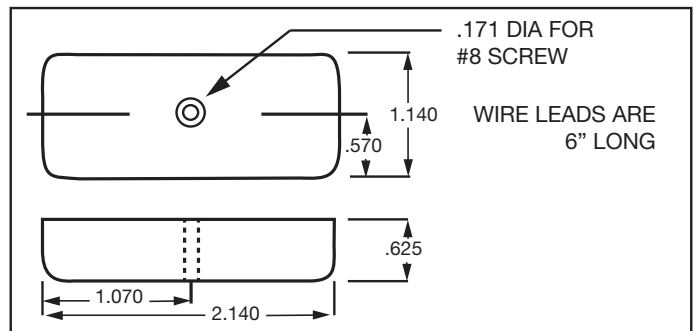


Figure 1 - Mounting of Model 50 Power Supply

2. WIRING:

Connections to the power source, switch and clutch or brake coils as per Figure 2.

Clutch/Brake Connections: Before connecting the lead wires from the clutch or brake, measure the coil resistance to ensure it is at least 112 ohms. If two clutches or brakes are used on a single output, the equivalent parallel total resistance must exceed 112 ohms. This will make sure the power supply will handle the amperage required. The wire size for making connections should be consistent with current ratings of the clutch and brake and length of wire between the power supply, switch, clutch or brake.

WARNING: The user is responsible for conforming to the National Electrical Code and all other applicable local codes in respect to wiring practices, grounding, disconnects, and overcurrent protection. Installation of an approved disconnecting means in the line side of the controller is of particular importance. Failure to observe these precautions could result in severe bodily injury or loss of life.



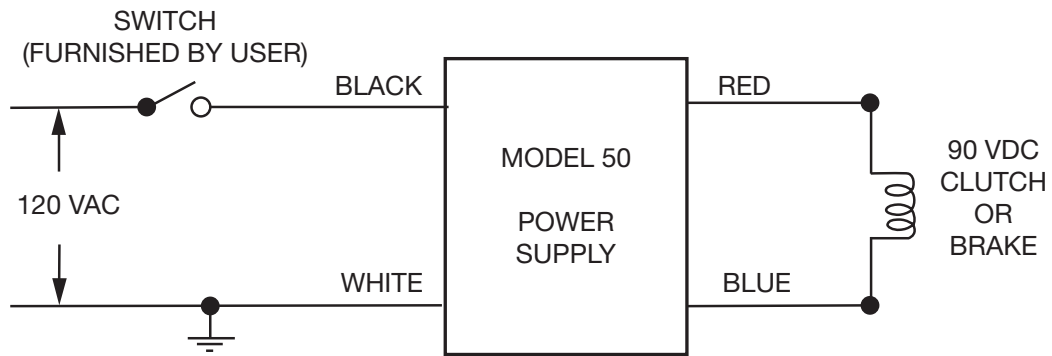


Figure 2 - Connection Diagram

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