

Installation Instructions

DCNEVT150 Series High Current High Voltage DC Contactor Relays

Part Numbers: DCNEVT150-BS, DCNEVT150-B, DCNEVT150-CS & DCNEVT150-C



Specifications Overview

Amperage:	150A Continuous Carry
Housing:	Nylon UL 94-V0
Voltage Rating:	450V
Connector:	KET090-II, 2-Pole Connector MG651026 Terminal ST730676-3
Operating Temperature:	-40°C to 85°C
Circuitry:	SPST NO
Voltage:	B: 12V DC Nominal, 9 - 15V DC Working C: 24V DC Nominal, 18 - 28V DC Working
Max Coil Inrush Current:	B: 500mA Max to coil C: 250mA Max to coil
Mounting:	M5
Mounting Bolt Torque:	3 - 4 Nm (26-35 in-lb)
Contact Torque:	5 - 6 Nm (45- 53 in-lb)
Terminals:	M6 Silver Plated Copper
Approvals:	UL File No. E510407

Web Resources

Download 2D print and technical resources at:
littelfuse.com/DCNEVT150

WARNING

The installation and the operation of this device and any maintenance must be carried out by a qualified person in accordance with specific local standards and safety regulations.

Do not touch live parts.

To avoid damage to persons and material, the device must be replaced in case of mechanical and/or electrical damage. These installation instructions do not contain all detailed information of this product and do not consider every possible application of the product.

For DCN Series Contactor Relays with polarized terminals, it is important to ensure that the positive input from the power source is connected to the + (positive) terminal and the load is connected to the – (negative) terminal. Incorrect connections can greatly affect the expected life of the contactor relay. DCN Series Contactor Relays with non-polarized terminals may have the power source and load connected to either terminal.

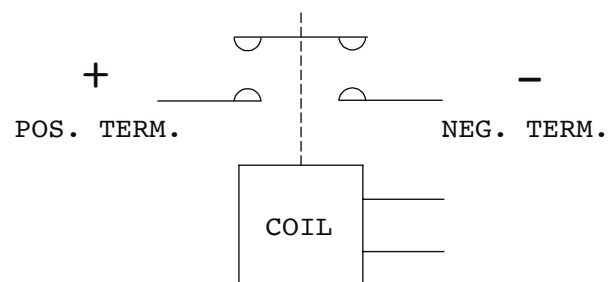
Installation

Assemble the Contactor Relay in the following sequence:

- 1. Prepare the Work Area** - It is always advisable when working with electricity to take caution and turn off any power unit you may encounter while installing any electrical device.
- 2. Mount the Contactor** - Mount the contactor using the mounting hardware that is supplied with the contactor or the recommended fasteners.
- 3. Prepare the Wiring and Connect the Control Wires** - Strip all the wires that will be connected to the control coil and the contactor terminations with a wire stripper. Remove approximately ½ inch of the wire's insulation to expose the bare copper wire. Install the control wires into the mating connector (not provided). Insert the connector into mating coil solenoid connector on the contactor. Do not allow any loose strands to short against any equipment and cause electrical damage.
- 4. Connecting the Switched Power Wires** - Verify the switched contacts are open, no continuity between the threaded terminal posts. Using the hardware that is supplied with the contactor or the recommended fasteners, connect the Line power feed wire to one of the contactor terminal posts. Connect the Load power output wire to the remaining contactor terminal post. As with the control wires, be sure that a good electrical connection is made. Do not allow any loose strands to short against any equipment and cause electrical damage.

Step by step images shown in Figure 2 on page 2.

Electrical Diagram


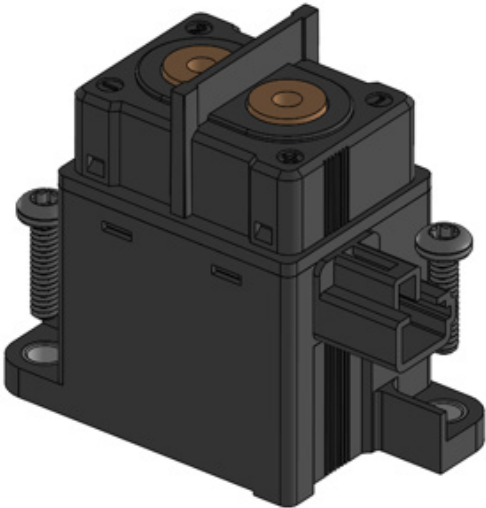
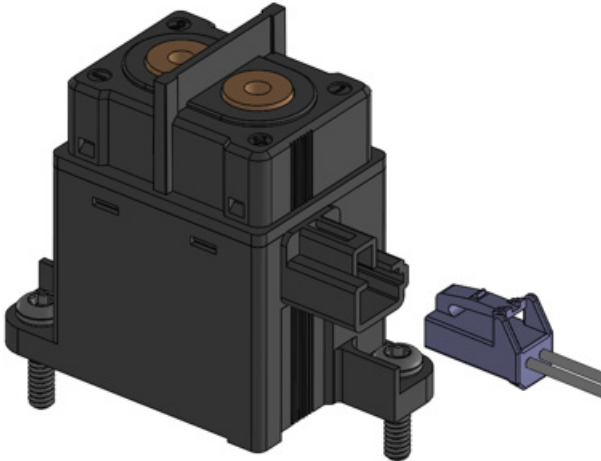
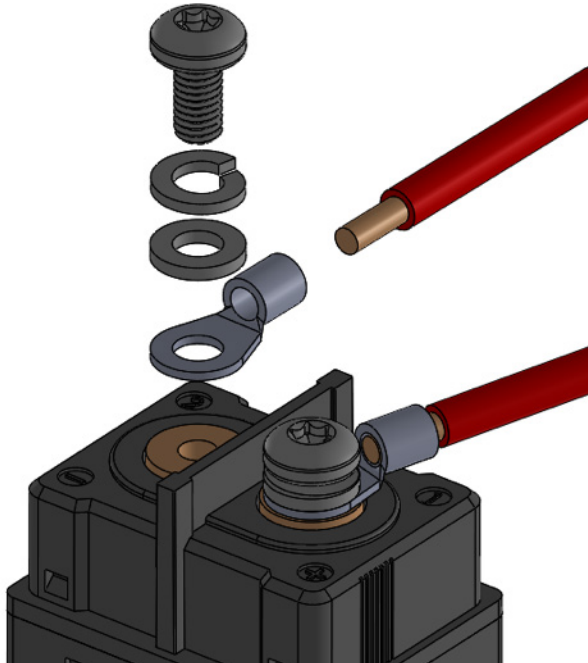


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Figure 2 - Step by Step Installation

<p>STEP 1</p>	<div data-bbox="191 409 802 562" data-label="Image">  <p>DANGER</p> </div> <p>Electrical Hazard Turn Off Power Before Servicing</p>	<p>STEP 2</p>	<div data-bbox="971 317 1453 821" data-label="Image">  </div> <p>Mount the contactor using the mounting hardware that is supplied with the contactor or the recommended fasteners.</p>
<p>STEP 3</p>	<div data-bbox="199 1094 797 1549" data-label="Image">  </div> <p>Strip all the wires that will be connected to the control coil and the contactor terminations with a wire stripper. Remove approximately 1/2 inch of the wire's insulation to expose the bare copper wire. Install the control wires into the mating connector (not provided). Insert the connector into mating coil solenoid connector on the contactor. Do not allow any loose strands to short against any equipment and cause electrical damage.</p>	<p>STEP 4</p>	<div data-bbox="927 1037 1511 1696" data-label="Image">  </div> <p>Verify the switched contacts are open, no continuity between the threaded terminal posts. Using the hardware that is supplied with the contactor or the recommended fasteners, connect the Line power feed wire to one of the contactor terminal posts. Connect the Load power output wire to the remaining contactor terminal post. As with the control wires, be sure that a good electrical connection is made. Do not allow any loose strands to short against any equipment and cause electrical damage.</p>