Installation Instructions

DCNHC350 SERIES

Part Number: DCNHC350MHA-F

Littelfuse

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Description

Designed for electric vehicles and industrial machinery, the DCNHC350 Series high-voltage DC contactor is suited for demanding applications, including battery power supply, charging pile, motor control, circuit insulation, circuit protection, and industrial safety devices. Its compact design helps reduce operational noise, while the corrosion-resistant resin housing delivers reliable performance even in harsh environments.

Sealed, non-polarized contacts prevent electrical arc leakage for safety and ensure the contactor is a match for a variety of electrical systems. Using Pulse Width Modulation (PWM), the attached Coil Economizer minimizes coil power draw and heat once the contactor is energized, ensuring efficient operation.

Web Resources

Download 2D print, installation guide and technical resources at: **littelfuse.com/DCNHC350**

Installation

Assemble the contactor in the following sequence:

Step 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.

Step 2. Mount the Contactor - Mount the contactor using the recommended fasteners.

Step 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. Connect the control wires to the coil solenoid first, red connect + (positive) and black connect - (negative) wires on contactor. When installing the wires, be sure that a good electrical connection is made by using an appropriate electrical connector. Do not allow any loose strands to short against any equipment and cause electrical damage.

Step 4. Connecting the Switched Power Wires - Verify the switched contacts are open, no continuity between terminals "A1" and "A2". Using the hardware that is supplied with the contactor or the recommended fasteners, connect the Line power feed wire to the contactor terminal marked "A1". Connect the Load power output wire to the contactor terminal marked "A2". 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 5. Connecting the Switched Auxiliary Contact Wires - Connect the low power Line feed wire to the white wires and the low power Load output wire to the blue wire. When installing the 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.

Order Information:

PART NUMBER	RATED CURRENT(A)	POLARIZED	AUX CONTACT	COIL VOLTAGE(V DC)	MOUNTING	POWER CONNECTION
DCNHC350MHA-F	350	No	Yes	12~36	Bottom	Internal Thread

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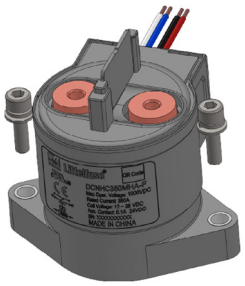
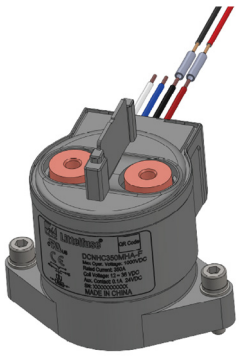
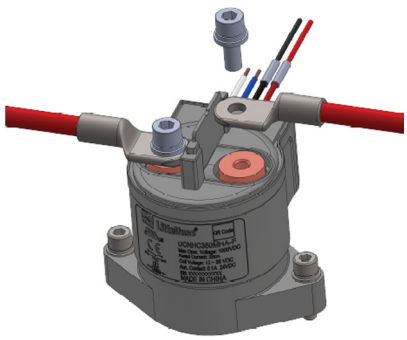
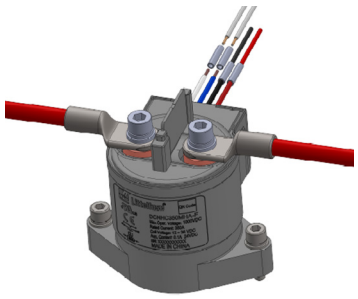
STEP 1	**DANGER** Electrical Hazard Turn Off Power Before Servicing	Prepare the Work Area - It is always advisable when working with electricity to take caution and turn off any power unit you may encounter while installing any electrical device.
STEP 2		Mount the Contactor - Mount the contactor using the recommended fasteners.
STEP 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. Connect the control wires to the coil solenoid first, red connect + (positive) and black connect - (negative) wires on contactor. When installing the wires, be sure that a good electrical connection is made by using an appropriate electrical connector. Do not allow any loose strands to short against any equipment and cause electrical damage.
STEP 4		Connecting the Switched Power Wires - Verify the switched contacts are open, no continuity between terminals "A1" and "A2". Using the hardware that is supplied with the contactor or the recommended fasteners, connect the Line power feed wire to the contactor terminal marked "A1". Connect the Load power output wire to the contactor terminal marked "A2". 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 5		Connecting the Switched Auxiliary Contact Wires - Connect the low power Line feed wire to the white wires and the low power Load output wire to the blue wire. When installing the 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.

Specifications, descriptions and illustrative material in this literature are as accurate as known at the time of publication, and are subject to changes without notice. Visit littelfuse.com for the most up-to-date technical information.

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