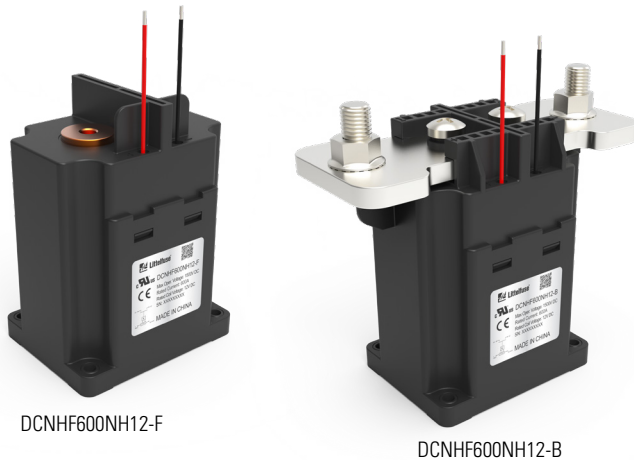


# Installation Instructions

DCNHF600 Series

Part Number: DCNHF600NH12-F & DCNHF600NH24-F & DCNHF600NH12-B & DCNHF600NH24-B



## Description

The DCNHF600 Series high-voltage DC contactor relay is designed for demanding electric vehicle and industrial high-power DC applications. Rated for 600A continuous current and up to 1500V DC contact voltage, it is well suited for applications requiring high current capacity and reliable high-voltage switching, including battery power supply, electric vehicle power distribution, charging pile, motor control, circuit isolation, circuit protection, and safety devices for industrial machinery.

Featuring SPST normally open (NO) circuitry with non-polarized contacts, the DCNHF600 Series contactor supports bidirectional current switching to accommodate a wide range of electrical systems. Its bottom-mounting design enables secure installation, while a double-coil design with wire lead coil connection enhances operational stability in high-power environments.

The DCNHF600 Series contactor is available with internal-thread terminals or stud terminals, providing flexibility for high-current connections. The 12V DC and 24V DC coil voltage options support common EV and industrial control system requirements.

## Web Resources

Download 2D print, installation guide and technical resources at: [littelfuse.com/DCNHF600](http://littelfuse.com/DCNHF600)

## Ordering Information

PART NUMBER	RATED CURRENT(A)	POLARIZED	AUX. CONTACT	COIL VOLTAGE(V DC)	MOUNTING	POWER CONNECTION
DCNHF600NH12-F	600	No	No	12	Bottom	Internal Thread
DCNHF600NH24-F	600	No	No	24	Bottom	Internal Thread
DCNHF600NH12-B	600	No	No	12	Bottom	Stud Terminal
DCNHF600NH24-B	600	No	No	24	Bottom	Stud Terminal

## Installation

Assemble the relay 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 mounting hardware that is supplied with the contactor or 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 1/2 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 by step images shown in Figure 2 on page 2.**


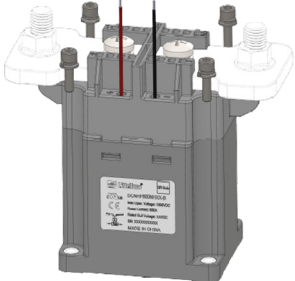
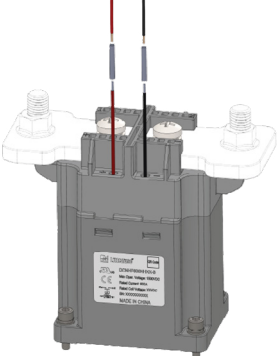
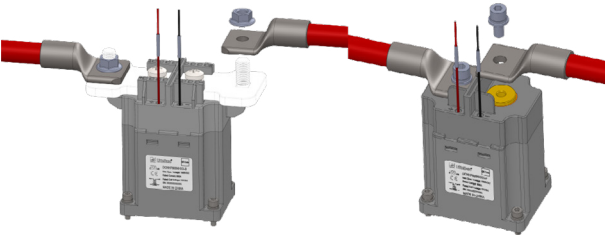
# Installation Instructions

DCNHF600 Series

Part Number: DCNHF600NH12-F & DCNHF600NH24-F & DCNHF600NH12-B & DCNHF600NH24-B



Expertise Applied | Answers Delivered

STEP 1	 <b>DANGER</b>  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 mountin hardware that is supplied with the contactor or 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.

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](http://littelfuse.com) for the most up-to-date technical information.