

Installation Instructions

DCNHE30PF SERIES

Part Number: DCNHE30PF12-F, DCNHE30PF24-F, DCNHE30PF48-F



Expertise Applied | Answers Delivered



Description

Ideal for electric vehicle and industrial applications, including battery power supply, charging pile, motor control, circuit insulation, circuit protection, and industrial safety devices, the DCNHE30 Series high-voltage DC contactor relay is engineered for long-term durability with polarized contacts.

Its compact, bottom-mounting design reduces noise and allows flexible installation, while durable resin housing provides corrosion resistance. Sealed contacts prevent electrical arc leakage, and internal-thread M4 terminals ensure secure connections. IP67-rated, the DCNHE30 Series contactor is suitable for BEVs, HEVs, material handling, and electric transport vehicles.

Web Resources

Download 2D print, installation guide and technical resources at: littelfuse.com/DCNHE30

Order Information:

PART NUMBER	RATED CURRENT(A)	POLARIZED	AUX. CONTACT	COIL VOLTAGE(V DC)	MOUNTING	POWER CONNECTION
DCNHE30PF12-F	30	Yes	No	12	Bottom	Internal Thread
DCNHE30PF24-F	30	Yes	No	24	Bottom	Internal Thread
DCNHE30PF48-F	30	Yes	No	48	Bottom	Internal Thread

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 1/2 inch of the wire's insulation to expose the bare copper wire. Connect the control wires to the coil solenoid first, white 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.


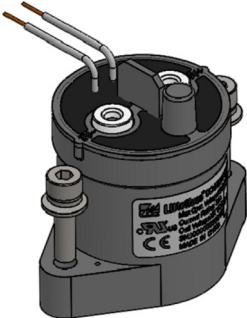
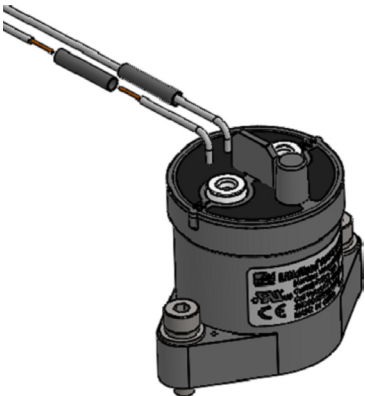
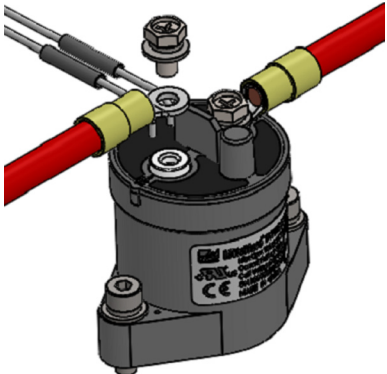
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STEP 1	 DANGER Electrical Hazard Turn Off Power Before Servicing	Prepare the Work Area - It is always advisable when working with electricity to take caution and turn off any power unit you may encounter while installing any electrical device.
STEP 2		Mount the Contactor - Mount the contactor using the recommended fasteners.
STEP 3		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, white 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 for the most up-to-date technical information.