

Installation Instructions

DCNHS Series

High Voltage Ceramic Sealed DC Contactor Relays

Part Numbers: DCNHS40NG12, DCNHS40NG24, DCNHS40NG48



Expertise Applied | Answers Delivered



DCNHS40

Description

The DCNHS Series, A 750V DC Contactor Relay is a normally open (also known as monostable) relay with a resin body for corrosion resistance in harsh automotive environments. Ceramic brazing sealed contacts help ensure there is no leakage of electrical arc for safety. The contactor includes a magnetic blow out to achieve a rapid extinguishing of the DC arc.

The DCNHS Series Contactors Relays are available in a non-polarized 40A rated version and a 100A rated polarized version.

Web Resources

Download datasheet, 2D print, 3D model and more at:
littelfuse.com/DCNHS

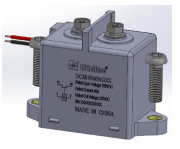
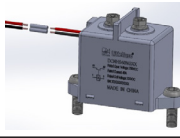
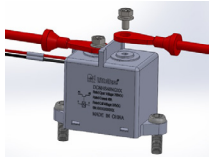
Ordering Information

PART NUMBERS	DESCRIPTION
DCNHS40NG12	DCNHS40 Series High Voltage Ceramic Sealed DC Contactor Relays, Coil Voltage: 12V
DCNHS40NG24	DCNHS40 Series High Voltage Ceramic Sealed DC Contactor Relays, Coil Voltage: 24V
DCNHS40NG48	DCNHS40 Series High Voltage Ceramic Sealed DC Contactor Relays, Coil Voltage: 48V

Installation

Assemble the DC 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. Connect the control wires to the coil solenoid first, red and black 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.
- 4. Connecting the Switched Power Wires** - Verify the switched contacts are open, no continuity between terminals "In" and "Out". Using the hardware that is supplied with the contactor or the recommended fasteners, This Contactor Relays with non-polarized terminals may have the power source and load connected to either terminal. 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 1	 DANGER Electrical Hazard Turn Off Power Before Servicing
STEP 2	
STEP 3	
STEP 4	

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.

Installation Instructions

DCNHS Series

High Voltage Ceramic Sealed DC Contactor Relays

Part Numbers: DCNHS100PG12, DCNHS100PG24, DCNHS100PG48



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DCNHS100

Description

The DCNHS Series, A 750V DC Contactor Relay is a normally open (also known as monostable) relay with a resin body for corrosion resistance in harsh automotive environments. Ceramic brazing sealed contacts help ensure there is no leakage of electrical arc for safety. The contactor includes a magnetic blow out to achieve a rapid extinguishing of the DC arc.

The DCNHS Series Contactors Relays are available in a non-polarized 40A rated version and a 100A rated polarized version.

Web Resources

Download datasheet, 2D print, 3D model and more at: littelfuse.com/DCNHS

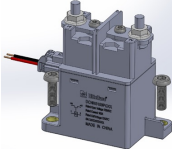
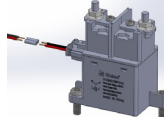
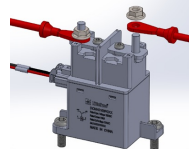
Ordering Information

PART NUMBERS	DESCRIPTION
DCNHS100PG12	DCNHS100 Series High Voltage Ceramic Sealed DC Contactor Relays, Coil Voltage: 12V
DCNHS100PG24	DCNHS100 Series High Voltage Ceramic Sealed DC Contactor Relays, Coil Voltage: 24V
DCNHS100PG48	DCNHS100 Series High Voltage Ceramic Sealed DC Contactor Relays, Coil Voltage: 48V

Installation

Assemble the DC 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. Connect the control wires to the coil solenoid first, red and black 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.
- 4. Connecting the Switched Power Wires** - Verify the switched contacts are open, no continuity between terminals "+C" and "-C". Using the hardware that is supplied with the contactor or the recommended fasteners, connect the Line power feed wire to the contactor terminal marked "+C". Connect the Load power output wire to the contactor terminal marked "-C". 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 1	 DANGER Electrical Hazard Turn Off Power Before Servicing
STEP 2	
STEP 3	
STEP 4	

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