

System 450™ Expansion Modules with Relay Output Catalog Page

Description

System 450 expansion modules allow you to increase the number of outputs in your control system to meet your application requirements. The following models are available:

- C450SBN-3C: Relay Expansion Module with one relay output
- C450SCN-3C: Relay Expansion Module with two relay outputs

Refer to the following documents for important product application information:

- *System 450™ Series Modular Controls Product Bulletin (LIT-12011458)*
- *System 450™ Series Expansion Modules with Relay Outputs Installation Instructions (Part No. 24-7664-2896)*

Features and Benefits

- **Durable, Compact, Interchangeable Modular Components with Plug-Together Connectors and DIN Rail or Direct Wall Mount Capability**—Eliminate field wiring between modules and allow you to quickly and easily design, assemble, install, and upgrade your control systems.
- **Versatile, Multipurpose, Field-Configurable Control Modules and Expansion Modules Designed for Global Use**—Allow you to create a wide variety of application-specific control systems capable of controlling temperature, pressure, or humidity, or all three conditions simultaneously, with only a small suite of module models.
- **Control Modules with Bright Backlit LCDs and Four-Button Touchpad User Interfaces, Up to Three Hard-Wired Input Sensors and Up to Ten Relay or Analog Outputs (In Any Combination) per Control System**—Provide quick, clear, visual status of your System 450 control system inputs and outputs with the touch of a button and enable you to quickly and easily set up and adjust your control system.

C450SCN-3C Expansion Module with Relay Output



Repair Information

If the System 450™ Expansion Module with Relay Output fails to operate within its specifications, replace the unit. For a replacement System 450™ Expansion Module with Relay Output, contact a Johnson Controls® representative.

Selection Chart

Product Code Number	Product Description
C450SBN-3C	Relay output Expansion Module provides one SPDT relay output.
C450SCN-3C	Relay output Expansion Module provides two SPDT relay outputs.
BKT287-1R	DIN Rail; 0.30 m (12 in.) long
BKT287-2R	DIN Rail; 1 m (39-1/3 in.) long
BKT287-3R	DIN Rail; 0.61 m (24 in.) long
BKT287-4R	DIN Rail; 0.36 m (14 in.) long
PLT344-1R	DIN Rail End Clamps
WHA-C450-100C	System 450 module connection extension cable, 100 cm (3.3 ft) long



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Technical Specifications

C450SBN-3C and C450SCN-3C Expansion Modules with Relay Output										
Product	C450SBN-3C: System 450 Expansion Module with one SPDT output relay C450SCN-3C: System 450 Expansion Module with two SPDT output relays									
Power Consumption	C450SBN-3C: 0.8 VA maximum C450SCN-3C: 1.2 VA maximum									
Supply Power	Internal Supply Power: C450YNN-1C Power Supply Module External Supply Power: 24 VAC (20 to 30 VAC) Safety Extra-Low Voltage (SELV) (Europe), Class 2 (North America), 50/60 Hz, 10 VA minimum Note: A System 450 control module or module assembly can use an internal or an external supply power source, but must not be connected to both simultaneously.									
Ambient Operating Conditions	Temperature: -40 to 66°C (-40 to 150°F) Humidity: Up to 95% RH noncondensing; maximum dew point 29°C (85°F)									
Ambient Shipping and Storage Conditions	Temperature: -40 to 80°C (-40 to 176°F) Humidity: Up to 95% RH noncondensing; maximum dew point 29°C (85°F)									
Output Relay Contacts	General: 1/2 HP at 120/240 VAC, SPDT Specific: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>AC Motor Ratings</th> <th>120 VAC</th> <th>208/240 VAC</th> </tr> </thead> <tbody> <tr> <td>AC Full-Load Amperes:</td> <td>9.8 A</td> <td>4.9 A</td> </tr> <tr> <td>AC Locked-Rotor Amperes:</td> <td>58.8 A</td> <td>29.4 A</td> </tr> </tbody> </table> 10 Amperes AC Noninductive at 24/240 VAC Pilot Duty: 125 VA at 24/240 VAC	AC Motor Ratings	120 VAC	208/240 VAC	AC Full-Load Amperes:	9.8 A	4.9 A	AC Locked-Rotor Amperes:	58.8 A	29.4 A
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AC Full-Load Amperes:	9.8 A	4.9 A								
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Control Construction	Independently mounted control, surface mounted with Lexan® 950 enclosure suitable for DIN rail mounting or direct mounting to a hard, even surface.									
Dimensions (H x W x D)	127 x 61 x 61 mm (5 x 2-3/8 x 2-3/8 in.)									
Weight	C450SBN-3C: 172 g (0.38 lb) C450SCN-3C: 186 g (0.41 lb)									
Compliance	United States: cULus Listed; UL 60730-1, File E27734; FCC Compliant to CFR47, Part 15, Subpart B, Class B Canada: cULus Listed; CAN/CSA-E60730-1, File E27734; Industry Canada (IC) Compliant to Canadian ICES-003, Class B limits Europe: CE Mark – Johnson Controls declares that this product is in compliance with the essential requirements and other relevant provisions of the EMC Directive. Australia and New Zealand: RCM mark, Australia/NZ Emissions Compliant									

