

Omron G7L-2A-BUBJ-CB-DC24

Omron G7L-2A-BUBJ-CB-DC24 General Purpose Relay Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the Omron G7L-2A-BUBJ-CB-DC24 General Purpose Relay. This relay is designed for high-capacity voltage applications, featuring a test button, Class B rated insulation, screw terminal connections, and upper bracket mounting. It is suitable for controlling larger power sources in various industrial settings.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Always disconnect power before installing, servicing, or removing this device.

- Ensure all local and national electrical codes are followed during installation.
- Installation and servicing should only be performed by qualified personnel.
- Verify correct voltage and current ratings before connecting the relay to any circuit.
- Do not operate the relay in environments exceeding its specified operating temperature range or dielectric strength.
- Inspect the relay for any physical damage before installation. Do not install damaged units.

3. PRODUCT OVERVIEW

The Omron G7L-2A-BUBJ-CB-DC24 is a robust general-purpose relay designed for reliable switching in demanding applications. It features Double Pole Single Throw Normally Open (DPST-NO) contacts, allowing for simple on/off switching of two independent circuits simultaneously.



This image displays the Omron G7L-2A-BUBJ-CB-DC24 General Purpose Relay, showing its robust housing, multiple screw terminals for electrical connections, and the integrated test button. The upper bracket mounting design is also visible.

Key Features:

- **Electric Relay with Test Button:** Allows for manual verification of operation status.
- **Screw Terminal Connection:** Provides secure and reliable electrical connections.
- **Upper Bracket Mounting:** Designed for easy installation in equipment racks.
- **DPST-NO Contacts:** Double Pole Single Throw Normally Open configuration for straightforward switching.
- **UL Class B Insulation:** Ensures flame resistance for enhanced safety.
- **Certifications:** UL recognized for safety and CSA certified for quality assurance.

4. SPECIFICATIONS

Specification	Value
Model Number	G7L-2A-BUBJ-CB-DC24
Contact Form	DPST-NO (Double Pole Single Throw Normally Open)
Input Current Rating	79 mA
Input Voltage	24VDC
Load Rating	220VAC, 25 Amp
Dielectric Strength	4,000VAC
Operating Temperature	-25 to +60 degrees C

Specification	Value
Enclosure Dimensions (H x W x D)	49 x 34.5 x 68.6mm (2.8 x 1.5 x 2.1 inches)
Insulation Class	Class B
Connector Type	Screw Terminal
Mounting Type	Upper Bracket
Contact Material	Silver or Copper
Weight	0.71 ounces
Standards Met	UL (Underwriter's Laboratories), CSA (Canadian Standards Association)

5. INSTALLATION

5.1 Pre-Installation Checks

- Ensure the power supply to the circuit is completely disconnected.
- Verify that the relay's specifications (voltage, current) match the requirements of your application.
- Confirm that the mounting location is stable and within the specified operating temperature range.

5.2 Mounting

The G7L-2A-BUBJ-CB-DC24 relay is designed for upper bracket mounting. Secure the relay firmly to the designated upper bracket within your equipment rack or control panel using appropriate fasteners. Ensure there is adequate clearance for wiring and ventilation.

5.3 Wiring

This relay utilizes screw terminal connections. Follow the wiring diagram provided with your system or equipment. The relay has DPST-NO contacts. Connect the control circuit to the 24VDC input terminals and the load circuits to the appropriate screw terminals for the 220VAC, 25 amp load. Ensure all connections are tight and secure to prevent loose contacts and potential hazards.

1. Identify the control input terminals (24VDC).
2. Identify the load output terminals (220VAC, 25A).
3. Strip wire insulation to the appropriate length for screw terminals.
4. Insert wires into the correct terminals and tighten screws securely. Do not overtighten to avoid damaging the terminals.
5. Double-check all wiring for correctness and security before restoring power.

6. OPERATION

The Omron G7L-2A-BUBJ-CB-DC24 relay functions by using a small 24VDC control signal to switch a larger 220VAC, 25 amp load. When the 24VDC control voltage is applied, the internal mechanism activates, closing the Normally Open (NO) contacts and allowing current to flow through the connected load circuit.

6.1 Test Button Functionality

The integrated test button allows for manual verification of the relay's switching action without applying the control voltage. Pressing the test button will manually close the contacts, enabling you to check the continuity of the load circuit or confirm the mechanical operation of the relay. Release the button to return the contacts to their normally open state.

7. MAINTENANCE

Regular inspection and basic maintenance can help ensure the longevity and reliable operation of your Omron relay.

- **Visual Inspection:** Periodically inspect the relay for any signs of physical damage, discoloration, or loose connections.
- **Terminal Tightness:** Ensure all screw terminals remain tight. Loose connections can lead to overheating and intermittent operation.
- **Environmental Conditions:** Verify that the operating environment remains within the specified temperature and humidity limits.
- **Cleaning:** If necessary, gently clean the exterior of the relay with a dry, soft cloth. Do not use solvents or abrasive cleaners.

8. TROUBLESHOOTING

If the relay is not functioning as expected, consider the following troubleshooting steps:

- **No Switching Action:**
 - Check if the 24VDC control voltage is correctly applied to the input terminals.
 - Verify the control circuit wiring for continuity and correct polarity.
 - Use the test button to confirm the mechanical operation of the relay. If the test button works but electrical activation does not, the issue may be with the control signal.
- **Load Not Receiving Power:**
 - Ensure the 220VAC power source for the load is active and correctly wired to the relay's load terminals.
 - Check the load circuit wiring for breaks or loose connections.
 - Confirm that the relay contacts are closing when activated (either by control signal or test button).
- **Overheating/Unusual Noise:**
 - Immediately disconnect power.
 - Check for loose wiring connections at the terminals.
 - Ensure the load current does not exceed the relay's 25 amp rating.
 - Verify the input voltage is stable and within the 24VDC specification.

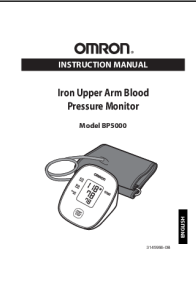
If problems persist after performing these checks, consult a qualified electrician or contact Omron technical support.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your Omron G7L-2A-BUBJ-CB-

DC24 General Purpose Relay, please refer to the official Omron website or contact your authorized Omron distributor. Keep your purchase receipt for warranty claims.

Related Documents - G7L-2A-BUBJ-CB-DC24

	OMRON A22 Pushbutton Switch: Features, Models, and Specifications Comprehensive data sheet for OMRON A22 series pushbutton switches, covering features, model numbers, ordering information, specifications, dimensions, and safety precautions for both lighted and non-lighted cylindrical switches.
	OMRON BP5000 Upper Arm Blood Pressure Monitor: Instruction Manual Learn how to use the OMRON BP5000 Upper Arm Blood Pressure Monitor with this comprehensive instruction manual. Covers setup, operation, safety guidelines, troubleshooting, and specifications for accurate home health monitoring.
	OMRON BP7350 7 Series Upper Arm Blood Pressure Monitor Instruction Manual This instruction manual provides detailed information on how to use the OMRON BP7350 7 Series Upper Arm Blood Pressure Monitor, including setup, measurement, safety instructions, and troubleshooting.
	OMRON M300 Intelli IT (HEM-7143T1-D) Automatic Blood Pressure Monitor User Guide Comprehensive information on the OMRON M300 Intelli IT (HEM-7143T1-D) automatic upper arm blood pressure monitor, including features, usage, safety, technical specifications, and warranty.
	OMRON HEM-FL31 Manžeta Intelli Wrap - Upute za upotrebu Ovaj priručnik pruža detaljne upute za upotrebu OMRON Intelli Wrap manžete, model HEM-FL31, za precizno mjerenje krvnog tlaka. Sadrži informacije o pravilnom postavljanju, povezivanju, održavanju i tehničkim specifikacijama.
	OMRON HEM-7511T Upper Arm Blood Pressure Monitor Instruction Manual Instruction manual for the OMRON HEM-7511T Upper Arm Blood Pressure Monitor, covering setup, measurement, features like Intellisense and Bluetooth connectivity, data tracking via the OMRON connect app, safety, and blood pressure knowledge.

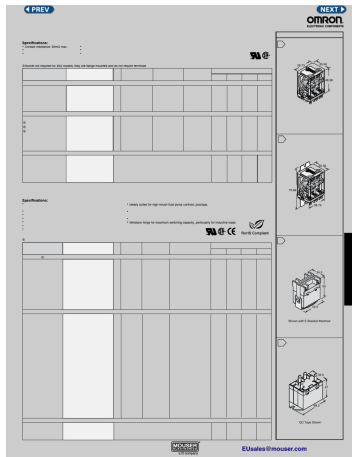
General Purpose Relays Navigation Guide Product Line Selling Tips Switching
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G7L-2A-P-80-CB DC12 Details PDF Omron G7L-2A-P-80-CB DC12 Part Number:
 Manufacturer/Brand: Product description Datasheets: RoHs Status Stock Condition
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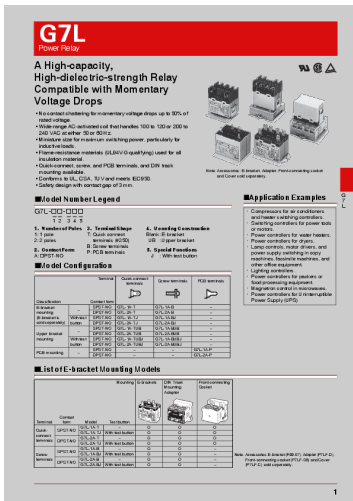


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OMRON General Purpose Relays Mouser Electronics Inc Omron 1773 38 73 48 35 56 66 68 5 47 33 52
Shown with E Bracket Attached QC Type 34 55 Standard Mount Plug In mouser es catalog 645 |||

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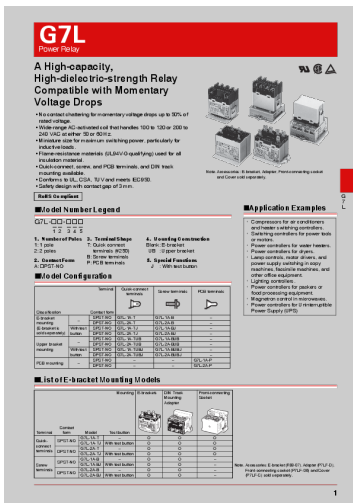


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G7L Power Relay A High-capacity, High-dielectric-strength Relay Compatible with Momentary Voltage D ... -1A-TJ-CB-AC24 G7L-2A-TJ-CBAC200/240 G7L-2A-TJ-CB-AC100/120 G7L-2A-TUBJ-CB-AC24 G7L-1A-TUBJ-CB-AC24 **G7L-2A-BUBJ-CB-DC24** G7L-2A-BUBJ-CB-DC12 G7L-1A-TCB-AC100/120 G7L-2A-BUBJ-CB-AC100/120 G7L-2A-BUBJ-CB...

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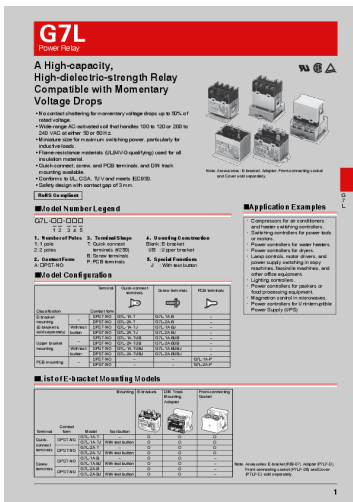


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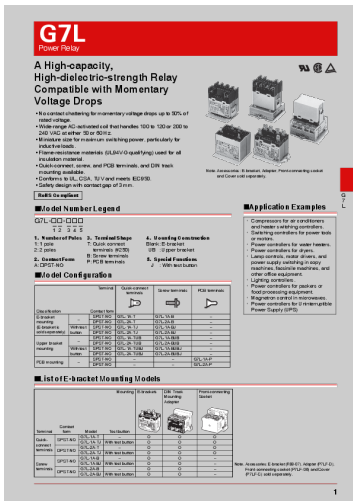


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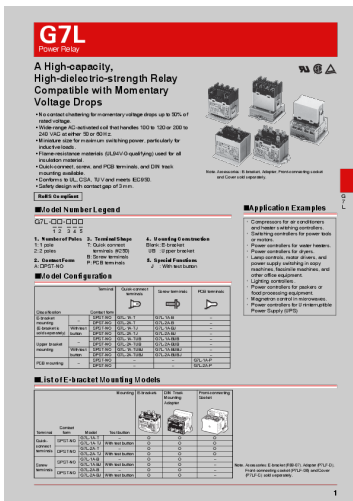


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