Multi-pole Power Relay for Contactor Current Range
Capable of Carrying and Switching 40 A at 440 VAC

- One pole, 40 A can be carried and switched.
- The maximum load capacity of 160 A when using 4-pole parallel connections.
- All materials used are compliant with the RoHS Directive.
- EN 60947-4-1 certification for mirror contact mechanisms has been obtained by using a combination of the relay and auxiliary contact blocks.
- A design with a small number of openings makes it difficult for dust or foreign matter to enter.
- Ideal for supply power to industrial inverters, servo drivers, and other devices, and switching power to motors and other equipment.
- Conforms to European PV standard (VDE0126).

⚠️ Be sure to read the “Safety Precautions” on page 6 and the “Precautions for All Relays with Forcibly Guided Contacts”.

Model Number Structure

Model Number Legend
Relay with Auxiliary Contact Block

G7Z-□-□-□

1. Relay Contact Configuration
   4A: 4PST-NO
   3A1B: 3PST-NO/SPST-NC
   2A2B: DPST-NO/DPST-NC

2. Contact Configuration of Auxiliary Contacts
   20: DPST-NO
   11: SPST-NO/SPST-NC
   02: DPST-NC

3. Contact Mechanism of Auxiliary Contacts
   Z: Bifurcated crossbar contact

Relay

G7Z-□

1. Contact Configuration
   4A: 4PST-NO
   3A1B: 3PST-NO/SPST-NC
   2A2B: DPST-NO/DPST-NC

Auxiliary Contact Block

G7Z3-□-□-□

1. Contact Configuration of Auxiliary Contacts
   20: DPST-NO
   11: SPST-NO/SPST-NC
   02: DPST-NC

2. Contact Mechanism of Auxiliary Contacts
   Z: Bifurcated crossbar contact

Ordering Information

Relay with Auxiliary Contact Block (for Screw Terminals)

<table>
<thead>
<tr>
<th>Classification</th>
<th>Structure</th>
<th>Contact configuration</th>
<th>Rated Voltage</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relay with Auxiliary Contact Block</td>
<td>4 poles + 2 poles</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Relay</td>
<td>Auxiliary Contact Block</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>4PST-NO</td>
<td>DPST-NO</td>
<td>12, 24 VDC</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>SPST-NO/SPST-NC</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>DPST-NC</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3PST-NO/SPST-NC</td>
<td>DPST-NO</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>SPST-NO/SPST-NC</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>DPST-NC</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>DPST-NO/DPST-NC</td>
<td>DPST-NO</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>SPST-NO/SPST-NC</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>DPST-NC</td>
<td></td>
</tr>
</tbody>
</table>

Note: 1. Relay contact terminals are M5, and the coil terminals are M3.5.
2. Auxiliary contact block terminals are M3.5.
3. When placing an order, specify the model number and rated supply voltage (12 VDC or 24 VDC).
Relay

<table>
<thead>
<tr>
<th>Classification</th>
<th>Structure</th>
<th>Contact configuration</th>
<th>Rated Voltage</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relay</td>
<td>4 poles</td>
<td>4PST-NO</td>
<td>12, 24 VDC</td>
<td>G7Z-4A</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3PST-NO/SPST-NC</td>
<td></td>
<td>G7Z-3A1B</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DPST-NO/DPST-NC</td>
<td></td>
<td>G7Z-2A2B</td>
</tr>
</tbody>
</table>

Note: 1. Relay contact terminals are M5, and the coil terminals are M3.5.
2. When placing an order, specify the model number and rated supply voltage (12 VDC or 24 VDC).

Accessories (Order Separately)

Auxiliary Contact Block

<table>
<thead>
<tr>
<th>Classification</th>
<th>Structure</th>
<th>Contact Configuration</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auxiliary Contact Block</td>
<td>2 poles</td>
<td>DPST-NO</td>
<td>G7Z3-20Z</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SPST-NO/SPST-NC</td>
<td>G7Z3-11Z</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DPST-NC</td>
<td>G7Z3-02Z</td>
</tr>
</tbody>
</table>

Specifications

Ratings

Coil

<table>
<thead>
<tr>
<th>Rated voltage</th>
<th>Item</th>
<th>Rated current (mA)</th>
<th>Coil resistance (Ω)</th>
<th>Must operate voltage</th>
<th>Must release voltage</th>
<th>Maximum voltage</th>
<th>Power consumption (W)</th>
<th>Percentage of rated voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 VDC</td>
<td>Rated voltage</td>
<td>308</td>
<td>39</td>
<td>75% max.</td>
<td>10% min.</td>
<td>110%</td>
<td>Approx. 3.7</td>
<td></td>
</tr>
<tr>
<td>24 VDC</td>
<td>Rated voltage</td>
<td>154</td>
<td>156</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: 1. Rated current and coil resistance were measured at a coil temperature of 23°C with coil resistance of ±15%.
2. Operating characteristics were measured at a coil temperature of 23°C.
3. The maximum allowable voltage is the maximum value of the fluctuation range for the Relay coil operating power supply and was measured at an ambient temperature of 23°C.
There is, however, no continuous allowance.

Contacts

Relay

<table>
<thead>
<tr>
<th>Item</th>
<th>Load</th>
<th>Model</th>
<th>Resistive load</th>
<th>Inductive load cos φ = 0.3</th>
<th>Resistive load L/R = 1 ms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact structure</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contact material</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rated load</td>
<td>NO</td>
<td>40 A</td>
<td>22 A at 440 VAC</td>
<td>5 A at 110 VDC</td>
<td></td>
</tr>
<tr>
<td></td>
<td>NC</td>
<td>25 A</td>
<td>10 A at 440 VAC</td>
<td>5 A at 110 VDC</td>
<td></td>
</tr>
<tr>
<td>Rated carry current</td>
<td>NO</td>
<td>40 A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NC</td>
<td>25 A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum contact voltage</td>
<td></td>
<td>480 VAC</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Auxiliary Contact Block

<table>
<thead>
<tr>
<th>Item</th>
<th>Load</th>
<th>Model</th>
<th>Resistive load</th>
<th>Inductive load cos φ = 0.3</th>
<th>Resistive load L/R = 1 ms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact structure</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contact material</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rated load</td>
<td>1 A</td>
<td>1 A</td>
<td>0.5 A at 440 VAC</td>
<td>0.5 A at 110 VDC</td>
<td></td>
</tr>
<tr>
<td>Rated carry current</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum contact voltage</td>
<td></td>
<td>480 VAC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum contact current</td>
<td>1 A</td>
<td>1 A</td>
<td>0.5 A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum switching capacity</td>
<td>440 VA</td>
<td>220 VA</td>
<td>55 W</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Failure rate P value</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: The ratings for the auxiliary contact block mounted on the G7Z are the same as those for the G7Z auxiliary contact block.
* Set of Relay and Auxiliary Contact Block: 45 to 60°C; for the continuous carry current, reduce 40 A by 0.7 A/°C.
## Characteristics

<table>
<thead>
<tr>
<th>Item</th>
<th>Classification Model</th>
<th>Relay #5</th>
<th>Auxiliary contact block</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact resistance #1</td>
<td>G7Z-4A-□, G7Z-3A1B-□, G7Z-2A2B-□Z</td>
<td>400 mΩ max.</td>
<td>100 mΩ max.</td>
</tr>
<tr>
<td>Operating time #2</td>
<td></td>
<td>50 ms max.</td>
<td></td>
</tr>
<tr>
<td>Release time #2</td>
<td></td>
<td>50 ms max.</td>
<td></td>
</tr>
<tr>
<td>Maximum operating frequency</td>
<td>Mechanical</td>
<td>1,800 operations/h</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rated load</td>
<td>1,200 operations/h</td>
<td></td>
</tr>
<tr>
<td>Insulation resistance #3</td>
<td></td>
<td>1,000 MΩ min.</td>
<td></td>
</tr>
</tbody>
</table>

### Dielectric strength
- Between coil and contacts: 4,000 VAC, 50/60 Hz for 1 min
- Between contacts of different polarity: 4,000 VAC, 50/60 Hz for 1 min
- Between contacts of the same polarity: 2,000 VAC, 50/60 Hz for 1 min

### Impulse withstand voltage
- Between coil and contacts: 10 kV, 1.2 × 50 µs
- Between contacts of different polarity: 10 kV, 1.2 × 50 µs
- Between contacts of the same polarity: 4.5 kV, 1.2 × 50 µs

### Vibration resistance
- Destruction: 10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)
- Malfunction: NO: 10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)
- NC: 10 to 32 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)

### Shock resistance
- Destruction: Screw mounting: 700 m/s², DIN Track mounting: 500 m/s²
- Malfunction: NO: 100 m/s²
- NC: 25 m/s²

### Durability
- Mechanical: 1,000,000 operations min. (at 1,800 operations/h, contact no load)
- Electrical #4: AC resistive load: 80,000 operations
- AC inductive load: 80,000 operations
- DC resistive load: 100,000 operations (at 1,200 operations/h, rated load)

### Failure rate (P level) (reference value) #6
- 2 A at 24 VDC: 1 mA at 5 VDC

### Notes:
- The above values are initial values.
- The contact resistance for the Relay (G7Z) was measured with 1 A at 5 VDC using the voltage drop method.
- The contact resistance for the auxiliary contact block (G73Z) was measured with 0.1 A at 5 VDC using the voltage drop method.
- The operate time was measured with the rated voltage imposed with any contact bounce ignored at the ambient temperature of 23°C.
- The insulation resistance was measured with a 1,000-VDC megohmmeter applied to the same places as those used for checking the dielectric strength.
- The electrical endurance was measured with a 1,000-VDC megohmmeter applied to the same places as those used for checking the dielectric strength.
- The specifications for the auxiliary contact block mounted on the G7Z are the same as those for the G73Z auxiliary contact block.
- The failure rate is based on an operating frequency of 1,800 operations/h.

## Approved Standards

### UL Standard: UL508, UL840 (File No. E41643)

<table>
<thead>
<tr>
<th>Model</th>
<th>Coil ratings</th>
<th>Contact ratings</th>
<th>Number of test operations</th>
</tr>
</thead>
<tbody>
<tr>
<td>G7Z</td>
<td>12, 24 VDC</td>
<td>NO contact</td>
<td>40 A, 480 VAC, 60 Hz (Resistive) 80,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 A, 120 VDC (Resistive) 100,000</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>D300 (1-A current applied) ---</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>NC contact</td>
<td>25 A, 480 VAC, 60 Hz (Resistive) 100,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5 A, 120 VDC (Resistive) 10 A, 480 VAC, 60 Hz (General Use)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>D300 (1-A current applied) ---</td>
<td></td>
</tr>
</tbody>
</table>

### CSA Standard: CSA Certification by ULus : CSA C22.2 No. 14

### CCC Certification (File No.2009010304361493) GB14048.4 (⪫)

### EN Standard/TÜV Certification: EN 60947-4-1 (Certification No. R50079155) 

<table>
<thead>
<tr>
<th>Model</th>
<th>Coil ratings</th>
<th>Contact ratings</th>
<th>Contact ratings</th>
</tr>
</thead>
<tbody>
<tr>
<td>G7Z</td>
<td>12, 24 VDC</td>
<td>NO contact</td>
<td>AC-1: 40 A, 440 V, 50/60 Hz</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NC contact</td>
<td>AC-3: 16 A, 440 V, 50/60 Hz</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>DC-1: 5 A, 110 V</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ACE-15: 0.5 A, 440 V, 50/60 Hz</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>DAC-10: 0.5 A, 110 V</td>
</tr>
<tr>
<td>G73Z</td>
<td></td>
<td>NO contact</td>
<td>AC-1: 25 A, 440 V, 50/60 Hz</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NC contact</td>
<td>DC-1: 5 A, 110 V</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ACE-15: 0.5 A, 440 V, 50/60 Hz</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>DAC-10: 0.5 A, 110 V</td>
</tr>
</tbody>
</table>

### Reference > Information

- UL 508: Industrial control devices
- UL 840: Insulation coordination including clearance and creepage distance for electrical devices
- CSA C22.2 No. 14: Industrial control devices
- EN 60947-4-1: Contactors
Dimensions

Relay (12 VDC, 24 VDC) with Auxiliary Contact Block

4 Poles

Note: The dimensions are typical values.

Relay (12 VDC, 24 VDC)

4 Poles

Note: The dimensions are typical values.

Contact Block

Note: The dimensions are typical values.

Auxiliary DIN Track Mounting Height

(when using the PFP-100N or PFP-50N mounting rail)

Note: The dimensions are typical values.
Terminal Arrangement/Internal Connections
Relay with Auxiliary Contact Block

G7Z-4A-20Z

Note: The coil has no polarity.

G7Z-3A1B-20Z

Note: The coil has no polarity.

G7Z-2A2B-20Z

Note: The coil has no polarity.

G7Z-20Z

G7Z-11Z

G7Z-02Z

Auxiliary Contact Block
Safety Precautions

Be sure to read the precautions “Precautions for All Relays” and “Precautions for All Relays with Forcibly Guided Contacts” in the website at: http://www.ia.omron.com/.

Indication and Meaning for Safe Use

| WARNING | Indicates a potentially hazardous situation which, if not avoided, will result in minor or moderate injury, or may result in serious injury or death. Additionally there may be significant property damage. |
| CAUTION | Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or in property damage. |

Precautions for Correct Use

- Supplementary comments on what to do or avoid doing, to prevent failure to operate, or undesirable effect on product performance.

**WARNING**

Take measures to prevent contact with charged parts when using the Relay for high voltages.

**CAUTION**

- Do not touch the terminal section (charged parts) when power is being supplied.
- Always use the Relay with terminal covers mounted.
- Contact with charged parts may result in electric shock.
- Do not touch the Relay when power is being supplied or right after the power has been turned OFF.
- The hot surface may cause burn injury.

**Precautions for Correct Use**

**Installation**

- Mount the G7Z with the coil terminal at the top.

- Do not use the Relay with the terminal screw surfaces facing down.

- To mount the Relay, secure M4 screws in two locations. Use a screw-tightening torque of 1.2 to 1.3 N·m.

- The Relay can be mounted directly on a mounting rail (PFP) or a DIN Track (EN 50022-35 x 7.5, 15). The Relay cannot be mounted, however, to some reinforced rails (e.g., those produced by Kameda Denki or Toyogiken).
- Mount the Relay sideways when it is mounted on a rail.
- Use End Plates (PFP-M) on both sides of the Relay to make sure that it is properly secured.

- Provide at least 5 mm of space between the sides and top of the Relay and nearby grounded metal surfaces.

- Provide at least 30 mm of space between Relays when two or more Relays are mounted in a row.

- The auxiliary contact block (G73Z) can be mounted on the Relay.
Mounting and Removal

Mounting
Insert the tab on the auxiliary contact block into the groove on the Relay and press down until the hook on the auxiliary contact block catches in the mounting hole on the Relay.

Removing
Slide the auxiliary contact block, remove the auxiliary contact block tab from the groove on the Relay, and remove the auxiliary contact block hook from the Relay. Be careful not to apply excessive force on the hook.

Connecting
- Use round or open-end (Y-type) crimp terminals and connect the terminals with the appropriate tightening torque. Refer to the terminal section space in the following figure for the crimp terminal dimensions.

 Relay Contacts (Unit: mm)

 Relay Coil

 Auxiliary Contact Block

- One crimp terminal can be used for the Relay contact section (M5 screw). Two crimp terminals can be connected for the coil terminal and auxiliary contact block.

Recommended Crimp Terminals and Wire

<table>
<thead>
<tr>
<th>Location</th>
<th>Crimp terminals</th>
<th>Appropriate wire size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact section</td>
<td>5.5-5</td>
<td>2.63 to 6.64 mm² (AWG12, 10)</td>
</tr>
<tr>
<td>Contact section</td>
<td>8-5</td>
<td>6.64 to 10.52 mm² (AWG8)</td>
</tr>
<tr>
<td>Coil section</td>
<td>1.25-3.5</td>
<td>0.5 to 1.65 mm² (AWG20 to 16)</td>
</tr>
</tbody>
</table>

- Use the following tightening torque when tightening screws. Loose screws may result in fire caused by abnormal heat generated when the power is being supplied. M5 screws: 2.0 to 2.2 N·m M3.5 screws: 0.8 to 0.9 N·m
- Allow suitable slack on leads when wiring, and do not subject the terminals to excessive force.

Microloads
The G7Z is used for switching power loads, such as current carry for device power supplies and heater loads. Use an auxiliary contact block (G73Z) if microloads are required for signal applications and operation status feedback.

Coil
/Internal Connections of Coils
DC Coil

- If a transistor drives the G7Z, check the leakage current and connect a bleeder resistor if necessary.
- The must operate voltage is the minimum value for the Relay armature to operate and the contacts to turn ON. Therefore, fundamentally apply the rated voltage to the coils, taking into consideration the increases in coil resistance caused by voltage fluctuation and coil temperature rise.
- Counter-electromotive voltage generated by the coil when the coil is OFF may destroy semiconductor elements or cause malfunctions. Attach surge-absorbing diodes to both ends of the coil as a countermeasure. Particularly, when driving G7Z with semiconductor elements, always attach the surge-absorbing diodes. Note that the relay reset time will be extended, so always use after verifying implementation under actual usage conditions. Use surge-absorbing diodes with a minimum of 600 V reverse voltage resistance, and a forward current of approximately 1A. G7Z does not have coil polarity so attach surge-absorbing diodes so that the polarity is reverse to the applied voltage of the coil.
Mirror Contact Mechanism
By combining a Relay with an auxiliary contact block, all NC contacts of the auxiliary contact block will satisfy an impulse withstand voltage of 2.5 kV or higher or maintain a gap of 0.5 mm or greater when the coil is de-energized even if at least one NO contact (main contact) of the Relay is welded.

Description of Mirror Contact Mechanism
Terms and Conditions Agreement

Read and understand this catalog. Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

Warranties.
(a) Exclusive Warranty. OMRON’s exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by OMRON (or such other period expressed in writing by Omron). Omron shall not be responsible for other warranties, express or implied. (b) Limitations. OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NONINFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS. OMRON ACKNOWLEDGES THAT IT ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE. Omron further disclaims all warranties and responsibilities of any type for claims or expenses based on infringement by the Products or otherwise of any intellectual property right. (c) Buyer Remedy. OMRON’s sole obligation hereunder shall be, at Omron’s election, to (i) replace (in the form originally shipped with Buyer responsible for labor charges for removal or replacement thereof) the non-complying Product, (ii) repair the non-complying Product, or (iii) repay or credit Buyer an amount equal to the purchase price of the non-complying Product; provided that in no event shall Omron be responsible for any costs, repair, indemnity or any other claims or expenses regarding the Products unless Omron’s analysis confirms that the Products were properly handled, stored, installed and maintained and not subject to contamination, abuse, misuse or inappropriate modification. Return of any Products by Buyer must be approved in writing by Omron before shipment. Omron Companies shall not be liable for the suitability or unsuitability or the results from the use of Products in combination with any electrical or electronic components, circuits, system assemblies or any other materials or substances or environments. Any advice, recommendations or information given orally or in writing, are not to be construed as an amendment or addition to the above warranty. See http://www.omron.com/global/ or contact your Omron representative for published information.

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