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".



For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Model Number Structure

Model Number Legend Relay with Auxiliary Contact Block

1. Relay Contact Configuration

4PST-NO

3A1B: 3PST-NO/SPST-NC 2A2B: DPST-NO/DPST-NC

2. Contact Configuration of Auxiliary Contacts

DPST-NO 20:

SPST-NO/SPST-NC 11:

02: DPST-NC

3. Contact Mechanism of Auxiliary Contacts

Bifurcated crossbar contact

Relay

1. Contact Configuration

4A: 4PST-NO

3A1B: 3PST-NO/SPST-NC 2A2B: DPST-NO/DPST-NC

Auxiliary Contact Block

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 When your order, specify the rated voltage.

Relay with Auxiliary Contact Block

Relay with Auxiliary Contact Block (for Screw Terminals)

| | Structure | Contact configuration | | | |
|------------------------------------|----------------------|-----------------------|----------------------------|---------------|--------------|
| Classification | | Relay | Auxiliary Contact Block | Rated Voltage | Model |
| | | | DPST-NO | | G7Z-4A-20Z |
| | | 4PST-NO | SPST-NO/SPST-NC | | G7Z-4A-11Z |
| | | | DPST-NC | | G7Z-4A-02Z |
| Deleviolate Associtions | | | DPST-NO | | G7Z-3A1B-20Z |
| Relay with Auxiliary Contact Block | 4 poles + 2 poles | | SPST-NO/SPST-NC | 12, 24 VDC | G7Z-3A1B-11Z |
| Contact Block | 2 poles | | DPST-NC | | G7Z-3A1B-02Z |
| | | DPST-NO/DPST-NC | DPST-NO | | G7Z-2A2B-20Z |
| | | | SPST-NO/SPST-NC | | G7Z-2A2B-11Z |
| | | | DPST-NC | | G7Z-2A2B-02Z |

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

| Structure Classification | | Contact configuration | Rated Voltage | Model |
|--------------------------|-----------------|-----------------------|---------------|----------|
| | | 4PST-NO | | G7Z-4A |
| Relay 4 poles | 3PST-NO/SPST-NC | 12, 24 VDC | G7Z-3A1B | |
| | | DPST-NO/DPST-NC | | G7Z-2A2B |

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

| Classification Structure | | Contact Configuration | Model |
|--------------------------|---------|------------------------------|----------|
| Auxiliary Contact Block | 2 poles | DPST-NO | G73Z-20Z |
| | | SPST-NO/SPST-NC | G73Z-11Z |
| | | DPST-NC | G73Z-02Z |

Specifications

Ratings

Coil

| Item | Rated current | Coil resistance | Must operate voltage | Must release voltage | Maximum voltage | Power consumption |
|---------------|---------------|---------------------|--------------------------------|----------------------|-----------------|-------------------|
| Rated voltage | (mA) | (Ω) | Ω) Percentage of rated voltage | | oltage | (W) |
| 12 VDC | 308 | 39 | 759/ may | 10% min. | 110% | Approx 2.7 |
| 24 VDC | 154 | 156 | 75% max. | 10% Milli. | 110% | Approx. 3.7 |

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

| | Model | G7Z-4A-□Z, G7Z-3A1B-□Z, G7Z-2A2B-□Z | | |
|--|-------|--|-------------------------|---------------------------------|
| Item | Load | Resistive load | Inductive load cos 0.3 | Resistive load L/R = 1 ms |
| Contact structure | | | Double break | |
| Contact material | | | Ag alloy | |
| Rated load | NO | 40 A at 440 VAC | 22 A at 440 VAC | 5 A at 110 VDC |
| nateu loau | NC | 25 A at 440 VAC | 10 A at 440 VAC | 5 A at 110 VDC |
| Dated carry current | NO | 40 A * | | |
| Rated carry current | NC | 25 A | | |
| Maximum contact volta | age | 480 VAC | | 125 VDC |
| Maximum contact | NO | 40 A | 22 A | 5 A |
| current | NC | 25 A | 10 A | 5 A |
| Maximum switching | NO | 17,600 VA | 9,680 VA | 550 W |
| capacity | NC | 11,000 VA | 4,400 VA | 550 W |
| Failure rate P value (reference value) | | 2 A at 24 VDC | | |

Note: The ratings for the auxiliary contact block mounted on the G7Z are the same as those for the G73Z 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.

Auxiliary Contact Block

| Model | G73Z-20Z, G73Z-11Z, G73Z-02Z | | |
|--|------------------------------|-------------------------|---------------------------------|
| Load Item | Resistive load | Inductive load cos 0.3 | Resistive load L/R = 1 ms |
| Contact structure | Double break | | |
| Contact material | Au clad + Ag | | |
| Rated load | 1 A at 440 VAC | 0.5 A at 440 VAC | 0.5 A at 110 VDC |
| Rated carry current | 1 A | | |
| Maximum contact voltage | 480 VAC 125 VD0 | | 125 VDC |
| Maximum contact current | 1 A 0.5 A | | 5 A |
| Maximum switching capacity | 440 VA | 220 VA | 55 W |
| Failure rate P value (reference value) | 1 mA at 5 VDC | | ; |

Characteristics

| | Classification | Relay * 5 | Auxiliary contact block | | |
|---|--|---|------------------------------|--|--|
| Item | Model | G7Z-4A-□Z, G7Z-3A1B-□Z, G7Z-2A2B-□Z | G73Z-20Z, G73Z-11Z, G73Z-02Z | | |
| Contact resistance *1 | | $400 \text{ m}\Omega \text{ max}.$ $100 \text{ m}\Omega \text{ max}.$ | | | |
| Operating time #2 | | 50 ms max. | | | |
| Release time *2 | | 50 ms max. | | | |
| Maximum operating | Mechanical | 1,800 operations/h | | | |
| frequency | Rated load | 1,200 operations/h | | | |
| Insulation resistance | *3 | 1,000 MΩ min. | | | |
| | Between coil and contacts | 4,000 VAC, 50/60 Hz for 1 min | | | |
| Dielectric strength | 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 | | | |
| | Between coil and contacts | 10 kV, 1.2 × 50 μs | | | |
| Impulse withstand voltage | Between contacts of different polarity | 10 kV, 1.2 × 50 μs | | | |
| | Between contacts of the same polarity | 4.5 kV, 1.2 × 50 μs | | | |
| | Destruction | 10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude) | | | |
| Vibration resistance | 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) | | | |
| | Destruction | Screw mounting: 700 m/s², DIN Track mounting: 500 m/s² | | | |
| Shock resistance | Malfunction | NO: 100 m/s ² NC: 25 m/s ² | | | |
| | Mechanical | 1,000,000 operations min. (at 1,800 operations | h, contact no load) | | |
| Durability 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 | | | |
| Ambient operating temperature | | -25 to 60°C (with no icing or condensation) | | | |
| Ambient operating hu | midity | 5% to 85% | | | |
| Weight | | Approx. 330 g | Approx. 18 g | | |

Note: The above values are initial values.

- *1. 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.
- *2. The operate time was measured with the rated voltage imposed with any contact bounce ignored at the ambient temperature of 23°C.
- *3. The insulation resistance was measured with a 1,000-VDC megohmmeter applied to the same places as those used for checking the dielectric strength.
- ***4.** The electrical endurance was measured at an ambient temperature of 23°C.
- *5. The specifications for the auxiliary contact block mounted on the G7Z are the same as those for the G73Z auxiliary contact block.
- ***6.** The failure rate is based on an operating frequency of 1,800 operations/h.

Approved Standards

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

| Model | Coil ratings | Contact ratings | | Number of test operations |
|-------|-----------------|-----------------|--|---------------------------|
| | | NO contact | 40 A, 480 VAC, 60 Hz (Resistive) | 80,000 |
| | | | 5 A, 120 VDC (Resistive) | 100,000 |
| | | | 22 A, 480 VAC, 60 Hz (General Use) | 100,000 |
| G7Z | 12, 24 VDC | | D300* (1-A current applied) | |
| | | NC contact | 25 A, 480 VAC, 60 Hz (Resistive) 5 A, 120 VDC (Resistive) 10 A, 480 VAC, 60 Hz (General Use) | 100,000 |
| | | | D300* (1-A current applied) | |

* Auxiliary contact ratings

| Model | Contact ratings | | | | |
|-------|-----------------|----------------------------|--|--|--|
| G73Z | NO contact | D300 (1-A current applied) | | | |
| G/32 | NC contact | D300 (1-A current applied) | | | |

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

CCC Certification (File No.2009010304361493) GB14048.4 ((((s))

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

| Model | Coil ratings | Contact ratings | | |
|-------|--------------|-----------------|--|--|
| G7Z | 12, 24 VDC | NO contact | AC-1: 40 A, 440 V, 50/60 Hz AC-3: 16 A, 440 V, 50/60 Hz DC-1: 5 A, 110 V *AC-15: 0.5 A, 440 V, 50/60 Hz *DC-13: 0.5 A, 110 V | |
| | | NC contact | AC-1: 25 A, 440 V, 50/60 Hz DC-1: 5 A, 110 V *AC-15: 0.5 A, 440 V, 50/60 Hz *DC-13: 0.5 A, 110 V | |
| G73Z | | NO contact | AC-15: 0.5 A, 440 V , 50/60 Hz | |
| | | NC contact | DC-13: 0.5 A, 110 V | |

* Auxiliary contact ratings

< 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

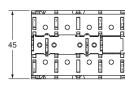
Dimensions (Unit: mm)

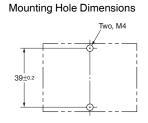
Dimensions

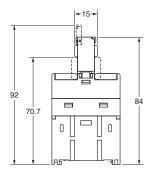
Relay (12 VDC, 24 VDC) with Auxiliary Contact Block

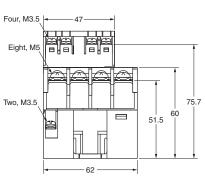
4 Poles









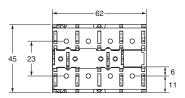


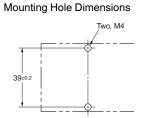
Note: The dimensions are typical values.

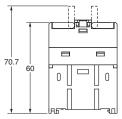
Relay (12 VDC, 24 VDC)

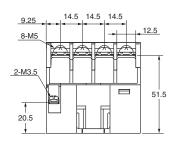
4 Poles







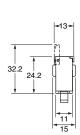


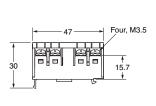


Note: The dimensions are typical values.

Contact Block

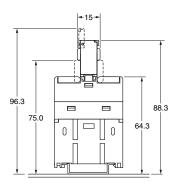






Note: The dimensions are typical values.

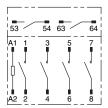
Auxiliary DIN Track Mounting Height (when using the PFP-100N or PFP-50N mounting rail)



Note: The dimensions are typical values.

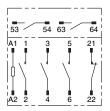
Terminal Arrangement/Internal Connections Relay with Auxiliary Contact Block

G7Z-4A-20Z



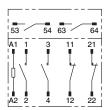
Note: The coil has no polarity.

G7Z-3A1B-20Z



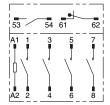
Note: The coil has no polarity.

G7Z-2A2B-20Z



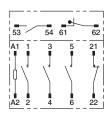
Note: The coil has no polarity.

G7Z-4A-11Z



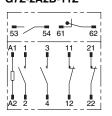
 $\textbf{Note:} \ \mathsf{The} \ \mathsf{coil} \ \mathsf{has} \ \mathsf{no} \ \mathsf{polarity}.$

G7Z-3A1B-11Z



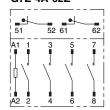
Note: The coil has no polarity.

G7Z-2A2B-11Z



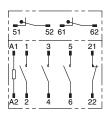
Note: The coil has no polarity.

G7Z-4A-02Z



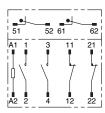
Note: The coil has no polarity.

G7Z-3A1B-02Z



Note: The coil has no polarity.

G7Z-2A2B-02Z



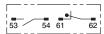
Note: The coil has no polarity.

Auxiliary Contact Block

G73Z-20Z



G73Z-11Z



G73Z-02Z



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



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.



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.

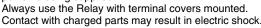
∕!∖ WARNING

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.





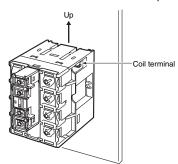
Do not touch the Relay when power is being supplied or right after the power has been turned OFF. The hot surface may cause burn injury.



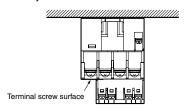
Precautions for Correct Use

Installation

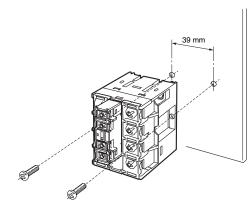
• Mount the G7Z with the coil terminal at the top.



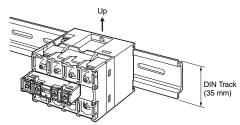
• Do not use the Relay with the terminal screw surfaces facing down.



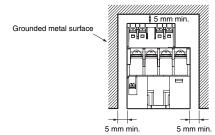
• To mount the Relay, secure M4 screws in two locations. Use a screw-tightening torque of 1.2 to 1.3 N·m.



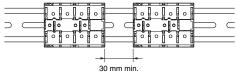
- The Relay can be mounted directly on a mounting rail (PFP) or a DIN Track (EN 50022-35 × 7.5, 15). The Relay cannot be mounted, however, to some reinforced rails (e.g., those produced by Kameda Denki or Toyogiken).
- Mount the Relay sideways when it is mounted on a rail.
- Use End Plates (PFP-M) on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



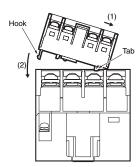
• Provide at least 30 mm of space between Relays when two or more Relays are mounted in a row.



• The auxiliary contact block (G73Z) can be mounted on the Relay.

Mounting and Removal Mounting

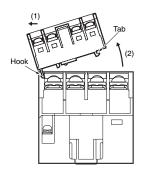
Insert the tab on the auxiliary contact block into the groove on the Relay and press down until the hook on the auxiliary contact block catches in the mounting hole on the Relay.



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.

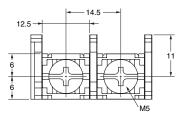
Be careful not to apply excessive force on the hook.



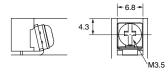
Connecting

 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.

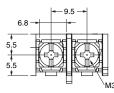
Relay Contacts (Unit: mm)



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

| Location | Crimp terminals | Appropriate wire size |
|--------------|--------------------|---|
| Contact | 5.5-5 | 2.63 to 6.64 mm ² (AWG12, 10) |
| section | 8-5 | 6.64 to 10.52 mm ² (AWG8) |
| Coil section | 1.25-3.5 | 0.5 to 1.65 mm ² (AWG20 to 16) |

• 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

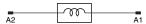
 Allow suitable slack on leads when wiring, and do not subject the terminals to excessive force.

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.

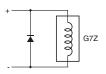
Coil

(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.

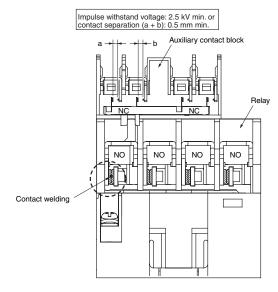
Note that the relay reset time will be extended, so always use after verifying implementation under actual usage conditions. Use surge-absorbing diodes with a minimum of 600 V reverse voltage resistance, and a forward current of approximately 1A. G7Z does not have coil polarity so attach surge-absorbing 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 disclaims all other warranties, express or implied.
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