


# Power Relays

## G7Z

### Compact Electromagnetic Contactors That Switch 40 A at 440 VAC

- One pole carries 40 A.  
UL 508 and UL 840 NO contacts  
(resistive 40 A 480 VAC, 60 Hz, 80,000 operations).  
EN 60947-4-1 NO contacts  
(AC1 40 A 440 VAC, 50/60 Hz, 80,000 operations).
- Ideal for supply power to industrial inverters, servo drivers, and other devices, and switching power to motors and other equipment.
- The maximum load capacity of 160 A when using 4-pole parallel connections.
- EN 60947-4-1 certification for mirror contact mechanism obtained by combining the Relay with an Auxiliary Contact Block.
- Conforms to European PV standard (VDE0126).
- Approx. 30% less operation noise than a standard electromagnetic contactor.\*  
(Approx. 100 dB reduced to approx. 70 dB.)
- Approx. 50% the volume of a standard electromagnetic contactor\* to help downsize control panels.

\* According to OMRON investigation of IIEC-AC1 50 A specifications.

 Be sure to read the *Safety Precautions* on page 8 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

G7Z-□-□□-□□  
1 2 3

#### 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-R: Bifurcated crossbar contact  
(Single break)

#### Relay

G7Z-□  
1

#### 1. Contact Configuration

- 4A: 4PST-NO
- 3A1B: 3PST-NO/SPST-NC
- 2A2B: DPST-NO/DPST-NC

#### Auxiliary Contact Block

G73Z-□□-□□  
1 2

#### 1. Contact Configuration of Auxiliary Contacts

- 20: DPST-NO
- 11: SPST-NO/SPST-NC
- 02: DPST-NC

#### 2. Contact Mechanism of Auxiliary Contacts

- Z-R: Bifurcated crossbar contact  
(Single break)

# G7Z

## Ordering Information When your order, specify the rated voltage.

### Relay with Auxiliary Contact Block

Number of poles (Relay with Auxiliary Contact)	Contact configuration		Contact Mechanism of Auxiliary Contacts	
	Relay	Auxiliary Contact Block	Single-break models	Rated Voltage
4 poles + 2 poles	4PST-NO	DPST-NO	G7Z-4A-20Z-R	12, 24 VDC
		SPST-NO/SPST-NC	G7Z-4A-11Z-R	12, 24 VDC
		DPST-NC	G7Z-4A-02Z-R	12, 24 VDC
	3PST-NO/SPST-NC	DPST-NO	G7Z-3A1B-20Z-R	12, 24 VDC
		SPST-NO/SPST-NC	G7Z-3A1B-11Z-R	12, 24 VDC
		DPST-NC	G7Z-3A1B-02Z-R	12, 24 VDC
	DPST-NO/DPST-NC	DPST-NO	G7Z-2A2B-20Z-R	12, 24 VDC
		SPST-NO/SPST-NC	G7Z-2A2B-11Z-R	12, 24 VDC
		DPST-NC	G7Z-2A2B-02Z-R	12, 24 VDC

- 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

Number of poles	Contact configuration	Model	Rated Voltage
4 poles	4PST-NO	G7Z-4A	12, 24 VDC
	3PST-NO/SPST-NC	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

Number of poles	Contact Configuration	Contact Mechanism of Auxiliary Contacts
		Single-break models
2 poles	DPST-NO	G73Z-20Z-R
	SPST-NO/SPST-NC	G73Z-11Z-R
	DPST-NC	G73Z-02Z-R

**Note:** Auxiliary contact block terminals are M3.5.