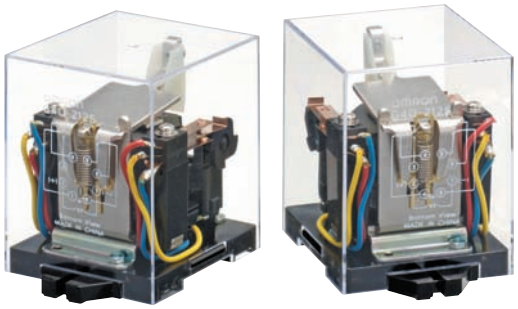
Ratchet Relay
G4Q

CSM_G4Q_DS_E_3_2

Unique Ratchet Mechanism Assures Positive Alternate Transfer/Switching Operation

- Each contact in the double-pole contact mechanism performs alternate make-brake operation at each pulse input and is thus ideal for alternate operation or transfer/switching operation of a motor.
- Positive operation is assured due to the unique ratchet mechanism.
- Satisfies dielectric strength of 2,000 VAC.
- Low power consumption.
  (AC: approx. 6.4 VA; DC: approx. 3.9 W)



Ordering Information

When your order, specify the rated voltage.

Open Models

Item	DPDT	
	Model	Rated voltage
Basic model	G4Q-211A	24 VAC
		50 VAC
		100/(110) VAC
		200/(220) VAC
		12 VDC
		24 VDC
		100 VDC

Plug-in Models

Item	DPDT	
	Model	Rated voltage
Basic model	G4Q-212S	12 VAC
		24 VAC
		50 VAC
		100/(110) VAC
		200/(220) VAC
		12 VDC
		24 VDC
		100 VDC
		200 VDC

Note: When ordering, add the rated coil voltage (listed in *Specifications*) to the model number.
Example: G4Q-211A, 24 VAC
Rated coil voltage

Model Number Legend

G4Q-□□□□
1 2 3 4

1. Contact Form
2: DPDT

2. Contact Type
1: Single

3. Enclosure Construction
1: No casing
2: Casing

4. Terminal Shape
A: Solder
S: Plug-in

■ Accessories (Order Separately)

DIN track/Front-connecting Socket	Back-connecting Socket
Screw terminal	Solder terminal
8PFA1	PL08

Specifications

■ Coil Ratings

Item		Current (mA)		Resistance (Ω)	Must operate	Must release	Max. voltage	Power consumption	
Rated voltage (V)		50 Hz	60 Hz		% of rated voltage			Initial	Rated
AC	12	614	531	2.24	80 % max.	10 % min.	110 % max.	Approx. 13.5 VA	Approx. 6.4 VA
	24	307	266	8.7					
	50	148	128	42.7					
	100/(110)	74	64/73.5	160					
	200/(220)	37	32/36.8	671					

Item		Current (mA)		Resistance (Ω)	Must operate	Must release	Max. voltage	Power consumption
Rated voltage (V)		50 Hz	60 Hz		% of rated voltage			
DC	12	320		37.5	5 % min.			Approx. 3.9 W
	24	155		155				
	100	39		2,580				
	200	19.2		10,400				

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C with tolerances of +15%/–20% for AC rated current and ±15% for DC coil resistance.

2. The AC coil resistance values are for reference only.

3. Performance characteristic data is measured at a coil temperature of 23°C.

4. The maximum voltage is one that is applicable instantaneously to the Relay coil at an ambient temperature of 23°C and not continuously.

5. The AC power consumption is measured at 60 Hz.

■ Contact Ratings

Load	Resistive load (cosϕ = 1)	Inductive load (cosϕ = 0.4) (L/R = 7 ms)
Contact mechanism	Single	
Contact material	Silver alloy	
Rated load	5 A at 220 VAC, 5 A at 24 VDC	3 A at 220 VAC, 4 A at 24 VDC
Rated carry current	5 A	
Max. switching voltage	250 VAC, 250 VDC	
Max. switching current	5 A	