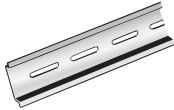




● Replacement Relay (G6D-F4PU/G3DZ-F4PU (Model with Push-In Plus technology))

Applicable Terminal Relay Model	Model	Operation coil ratings
G6D-F4PU/G6D-F4B	G6D-1A-ASI	12 VDC
		24 VDC
G3DZ-F4PU/G3DZ-F4B	G3DZ-2R6PL	12 VDC
		24 VDC

● Parts for DIN Track Mounting

Appearance	Type	Model
	DIN Tracks	1 m PFP-100N
		0.5 m PFP-50N
	End Plate *1	PFP-M
	Spacer	PFP-S

*1. When mounting support rail, please use End Plate (Model PFP-M).

G6D-F4PU/G3DZ-F4PU/G6D-F4B/G3DZ-F4B

Ratings/Specifications

■ Ratings

● Relay Specification

Coil Ratings (per G6D Relay)

Operation coil rating	Rated current (mA)	Coil resistance (Ω)	Must operate voltage (V)	Must release voltage (V)	Max. voltage (V)	Power consumption (mW)	
DC	12	18.7	720	70% max.*	10% min.	130%	Approx. 200
	24	10.5	2,880				

Note: 1. Rated current and coil resistance were measured at a coil temperature of 23°C with a tolerance of ±20%.

2. Performance characteristic data are measured at a coil temperature of 23°C.

3. The maximum allowable voltage is the maximum value of the operating voltage for the relay coil operating power supply. There is no continuous allowance.

4. The rated current includes the terminal's LED current.

* The must operate voltage is 75% or less of the rated voltage if the relay is mounted in the upside down.

Contact Ratings (per G6D Relay)

G6D-F4PU (Model with Push-In Plus technology)

Item	Load	Resistive load (cosφ = 1)
Rated load	5 A at 250 VAC, 5 A at 30 VDC	
Rated carry current	5 A	
Max. switching voltage	250 VAC, 30 VDC	
Max. switching current	5 A	
Max. switching capacity (reference value)	1,250 VA, 150 W	

G6D-F4B (Model with Screw terminal)

Item	Load	Resistive load (cosφ = 1)
Rated load	3 A at 250 VAC, 3 A at 30 VDC	
Rated carry current	5 A	
Max. switching voltage	250 VAC, 30 VDC	
Max. switching current	5 A	
Max. switching capacity (reference value)	1,250 VA, 150 W	

■ Characteristics

Model		G6D-F4PU (Model with Push-In Plus technology)
Item		Relay output
Contact resistance *1		100 mΩ max.
Operate time *2		10 ms max.
Release time *2		10 ms max.
Insulation resistance		1,000 MΩ min. (at 500 VDC)
Dielectric strength	Between coil and contacts	2,000 VAC, 50/60 Hz for 1 min
	Between contacts of the same polarity	750 VAC, 50/60 Hz for 1 min
Shock resistance voltage (between coil and contacts)		4,000 V (1.2 × 50 μs)
Vibration resistance	Destruction	10 to 55 to 10 Hz, 0.75-mm single amplitude (1.5-mm double amplitude)
	Malfunction	10 to 55 to 10 Hz, 0.75-mm single amplitude (1.5-mm double amplitude)
Shock resistance	Destruction	500 m/s ²
	Malfunction	100 m/s ²
Endurance	Mechanical	20,000,000 operations min. (switching frequency: 18,000 operations/hr)
	Electrical *2	70,000 operations min. (5 A at 250 VAC, resistive load) 70,000 operations min. (5 A at 30 VDC, resistive load) (at 1,800 switching frequencies/hr)
Failure rate P Level (reference value *3)		10 mA at 5 VDC
Ambient operating temperature, Ambient storage temperature		-25 to 55°C (with no icing)
Ambient operating humidity		45% to 85%
LED color		Yellow
Sealing		IP20
Weight		Approx. 95 g

Note: The data shown above are initial values.

*1. Measurement condition: 1 A at 5 VDC

*2. Ambient temperature condition: 23°C

*3. This value is measured at 120 switching frequencies/min.

Model		G6D-F4B (Model with Screw terminal)
Item		Relay output
Contact resistance *1		100 mΩ max.
Operate time *2		10 ms max.
Release time *2		10 ms max.
Insulation resistance		1,000 MΩ min. (at 500 VDC)
Dielectric strength	Between coil and contacts	2,000 VAC, 50/60 Hz for 1 min
	Between contacts of the same polarity	750 VAC, 50/60 Hz for 1 min
Shock resistance voltage (between coil and contacts)		4,000 V (1.2 × 50 μs)
Vibration resistance	Destruction	10 to 55 to 10 Hz, 0.75-mm single amplitude (1.5-mm double amplitude)
	Malfunction	10 to 55 to 10 Hz, 0.75-mm single amplitude (1.5-mm double amplitude)
Shock resistance	Destruction	500 m/s ²
	Malfunction	100 m/s ²
Endurance	Mechanical	20,000,000 operations min. (switching frequency: 18,000 operations/hr)
	Electrical *2	200,000 operations min. (3 A at 250 VAC, resistive load) 200,000 operations min. (3 A at 30 VDC, resistive load) (at 1,800 switching frequencies/hr)
Failure rate P Level (reference value *3)		10 mA at 5 VDC
Ambient operating temperature, Ambient storage temperature		-25 to 55°C (with no icing)
Ambient operating humidity		45% to 85%
LED color		Yellow
Sealing		---
Weight		Approx. 65 g

Note: The data shown above are initial values.

*1. Measurement condition: 1 A at 5 VDC

*2. Ambient temperature condition: 23°C

*3. This value is measured at 120 switching frequencies/min.