

- 1 pole 30A ; 2 poles 25A/40A
- Top-mounted 1/4" quick-connect terminals
- Locating slot for DIN rail mounting
- With finger protection cover (IP20)
- Conformity with RoHS directive
- With safety module monitor
- Widely used in large load such as air conditioners and refrigerators

Fire-resistant materials

The shell is made of flame retardant material, with high strength, high temperature resistance, corrosion resistance and more safety

LED

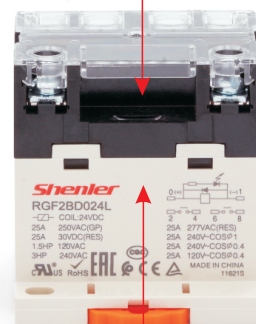
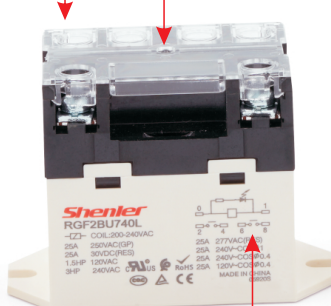
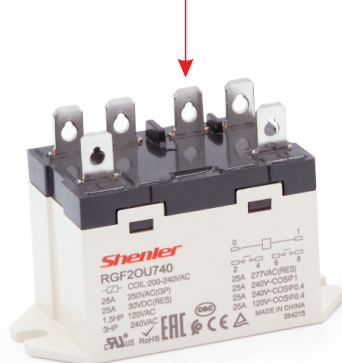
Visible LED indicates the working status of the relay at any time, AC red, DC green

Screw terminal & Flange

Screw terminal & DIN rail

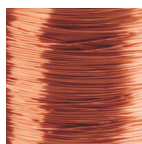
Plug in & DIN rail

Plug in & Flange



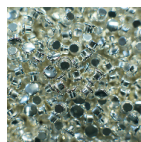
Top copper coil material

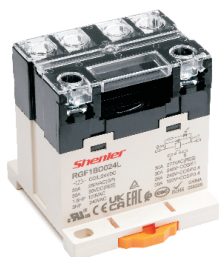
Standard turns and electromagnetic coils make the pick-up more reliable and enduring, which can reach more than 20 million cycles.



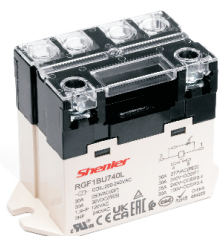
Silver alloy contacts

It can carry more current, with stronger conductivity and more sensitive response, and greatly extend electrical life, and works more stable.

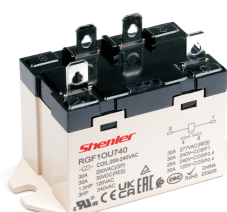




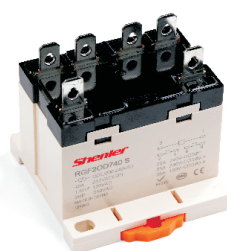
RGF1BD



RGF1BU



RGF10U



RGF20D

RGF □ □ □ □

Other options

L: with LED (only for BU and BD type)

S: with 40A/250VAC contact load (for 2 poles only)

Coil voltage code

| | | | | | | | | |
|----------------|-----|-----|-----|-----|---------|---------|-----|-----|
| Code | 006 | 012 | 024 | 048 | 110 | 220 | | |
| Voltage (V DC) | 6 | 12 | 24 | 48 | 110 | 220 | | |
| Code | 506 | 512 | 524 | 548 | 615 | 740 | 880 | 900 |
| Voltage (V AC) | 6 | 12 | 24 | 48 | 100-120 | 200-240 | 380 | 400 |

Terminal & Mounting arrangement

O: plug in

OD: plug in & DIN rail

OU: plug in & flange

P: PCB

BU: screw terminal & flange

BD: screw terminal & DIN rail

Contact form

1: 1A (NO)

2: 2A (NO)

Series name

Characteristics

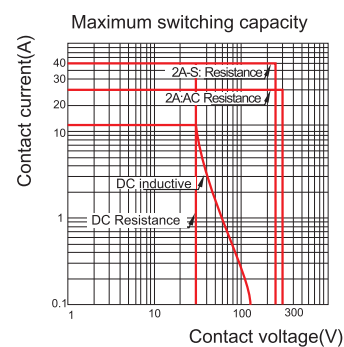
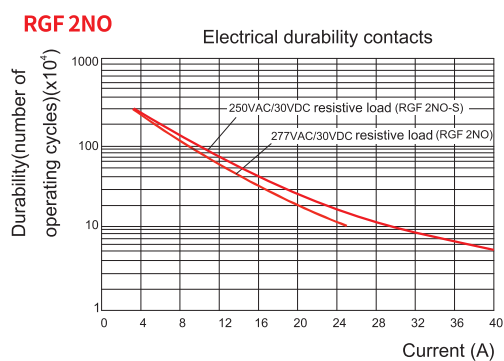
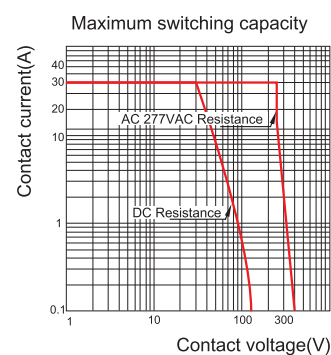
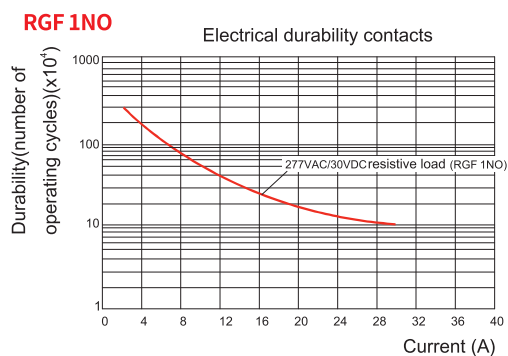
| Configuration | | 1A | 2A | 2A-S |
|--|---------------------------|--|------------------|---------------------------------------|
| Load | Resistive | 30A 277VAC/30VDC | 25A 277VAC/30VDC | 40A 250VAC/30VDC |
| | Motor load | 1.5 HP, 120VAC; 3HP, 240VAC | | |
| Max. switching capacity (resistive) | | 8310 VA, 900W | 6925 VA, 750W | 10000 VA, 1200W |
| Initial contact resistance | | ≤50mΩ | | |
| Contact | Material | Ag alloy | | |
| | Electrical durability | ≥10 ⁵ Cycles (1800 Ops/h) | | ≥5x10 ⁴ Cycles (360 Ops/h) |
| | Mechanical durability | ≥5000 x 10 ⁴ Cycles (1800 Ops/h) | | |
| Pick-up voltage (23°C) (Rated voltage) | | DC:≤80% , AC:≤80% 50/60Hz | | |
| Drop-out voltage (23°C) (Rated voltage) | | DC:≥15% , AC:≥15% 50/60Hz | | |
| Maximum voltage (23°C) (Rated voltage) | | 110% | | |
| Insulation resistance | | ≥1000MΩ (500VDC) | | |
| Coil operating power | DC(W) | approx. 1.9 | | |
| | AC(VA) | approx. 2.5(60Hz) | | |
| Operate time&Release time (at nominal voltage) | | ≤30ms | | |
| Initial breakdown voltage | Between open contacts | 2000VAC/1min (leakage current 1mA) | | |
| | Between poles | 2000VAC/1min (leakage current 1mA) | | |
| | Between contacts and coil | 4000VAC/1min (leakage current 1mA) | | |
| Insulation characteristics | Rated voltage | 277VAC | | |
| | Pollution level | 3 | | |
| IEC 60664 UL840 | Overvoltage level | III | | |
| Impulse withstand voltage (waveform: 1.2/50μs) | | 6000V | | |
| Protection level | | IP20 | | |
| Storage temperature/ humidity | | -55~+85°C/ ≤85%RH (18 months) | | |
| Working temperature/ humidity | | -25~+55°C/ 5%~85%RH (No condensation) | | |
| Air pressure | | 86~106KPa | | |
| Shock resistance | | 10G (half-sine shock pulse: 11ms) | | |
| Vibration resistance | | 10~55Hz double-amplitude:1.5mm | | |
| Mounting | | plug in type; screw type; PCB type; DIN rail mounting type | | |
| Unit weight | | plug in type about 90g; screw type around 120g | | |

Coil Specifications (23°C)

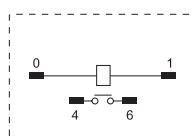
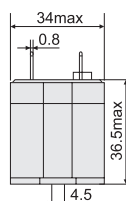
| | | | | | | | | |
|--------------------------|------|----|-----|------|---------|---------|-------|-------|
| Nominal voltage V.DC | 6 | 12 | 24 | 48 | 110 | 220 | | |
| Coil resistance Ω | 18.9 | 75 | 303 | 1220 | 6360 | 25474 | | |
| Nominal voltage V.AC | 6 | 12 | 24 | 48 | 100-120 | 200-240 | 380 | 400 |
| Coil resistance Ω | 14 | 55 | 275 | 1100 | 5200 | 21000 | 62650 | 62650 |

Coil resistance: under coil voltage 110V are measured with tolerance of $\pm 10\% \Omega$, above 110V with tolerance of $\pm 15\% \Omega$.

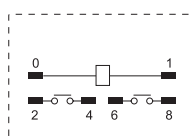
Contact Specification



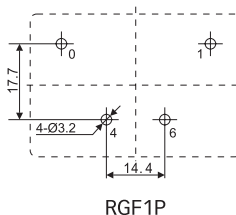
RGF1P/2P



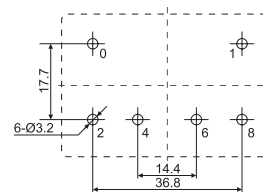
RGF1



RGF2



RGF1P



RGF2P