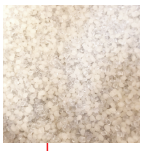
RGF
Power Relay

- 1 pole 30A ; 2 poles 25A/40A
- Top-mounted 1/4” quick-connect terminals
- Locating slot for DIN rail mounting
- With finger protection cover
- Conformity with RoHs directive
- With safety module monitor

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



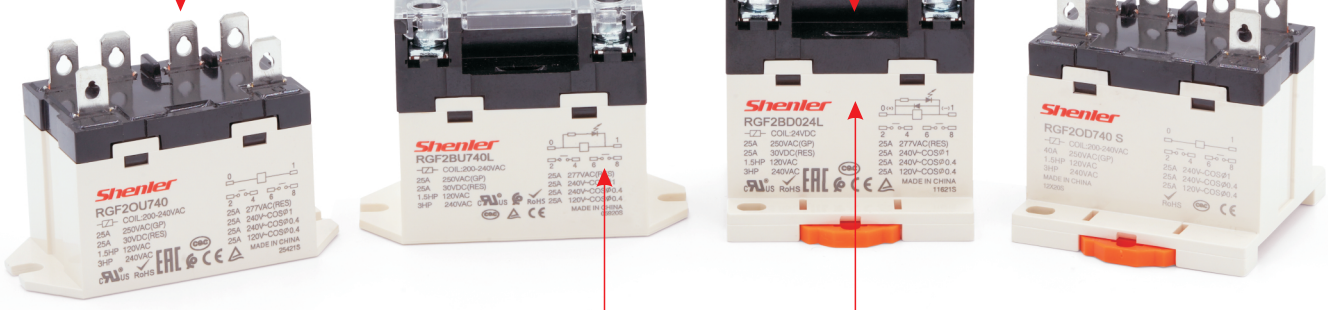
LED
Visible LED indicates the working status of the relay at any time, AC red, DC green

Screw terminal & Flange

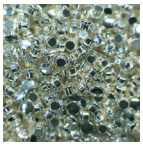
Screw terminal & DIN rail

Plug in &DIN rail

Plug in & Flange

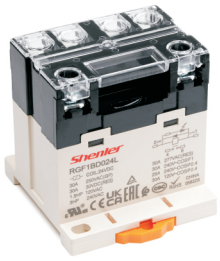


Top copper coil material
Standard turns and electromagnetic coils make the pick-up more reliable and enduring, which can reach more than 20 million cycles.

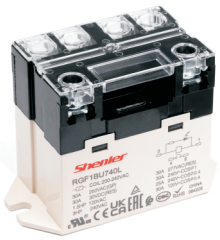


Silver alloy contacts
It can carry more current, with stronger conductivity and more sensitive response, and greatly extend electrical life, and works more stable.

RGF
Power Relay

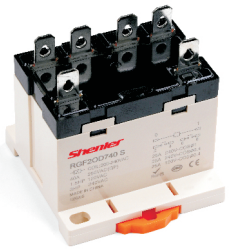


RGF1BD



RGF1BU

RGF1OU



RGF2OD

RGF □ □ □ □

Other options
L: with LED (only for BU and BD type)
F: with auxiliary module
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

Termainl & 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

Contact	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)		8310VA, 900W	6925VA,750W	10000VA,1200W
	Initial contact resistance		≤50mΩ		
	Auxiliary module	Configuration	1CO		
		Load (Resistive)	250VAC,3A		
		Switching capacity (resistive)	750VA		
		Contact resistance	≤50mΩ		
	Material		Ag alloy		
	Electrical durability		≥10^5Cycles (1800 Ops/h)	≥$5x10^4$ Cycles (360 Ops/h)	
	Mechanical durability		⩾5000 x 10^4Cycles (1800 Ops/h)		
Pick-up voltage (23℃) (Rated voltage)			DC:≤80% , AC:≤80% 50/60Hz		
Drop-out voltage (23℃) (Rated voltage)			DC:≥15% , AC:≥15% 50/60Hz		
Maximum voltage (23℃) (Rated voltage)			110%		
Insulation resistance			≥1000MΩ (500VDC)		
Coil operating power	DC(W)		approx. 1.9		
	AC(VA)		approx. 2.5		
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 IEC 60664 UL840	Rated voltage		277VAC		
	Pollution level		3		
	Overvoltage level		III		
Impulse withstand voltage (waveform: 1.2/50μs)			6000V		
Protection level			IP20		

Storage temperature/ humidity	-55~+85℃/ ≤85%RH (18 months)
Working temperature/ humidity	-25~+55℃/ 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; screw type +DIN rail mountingwith auxiliary module about 135g

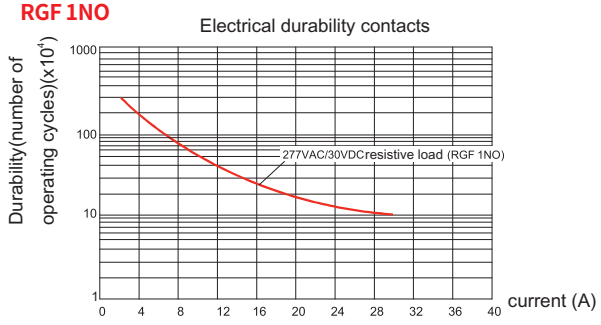
Coil Specifications (23°C)

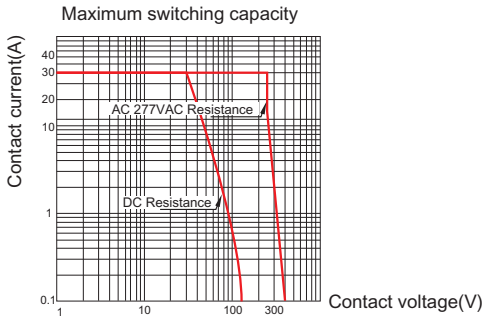
Nominal voltage V.DC	6	12	24	48	110	220		
Coil resistance Ω	18.9	75	303	1220	6360	25474		
Nominal voltage V.AC	6	12	24	48	100-120	200-240	380	400
Coil resistance Ω	14	55	275	1100	5200	21000	62650	62650

Coil resistance: under coil voltage 110V are measured with tolerance of ±10%Ω, above 110V with tolerance of ±15%Ω.

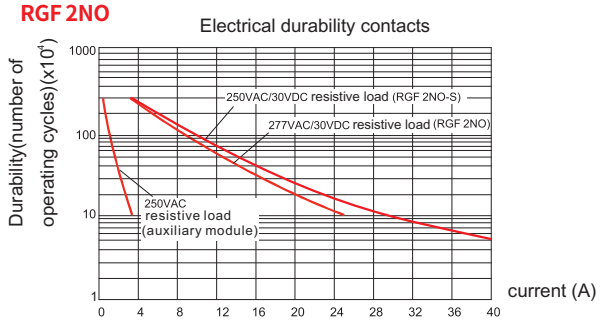
Contact Specification

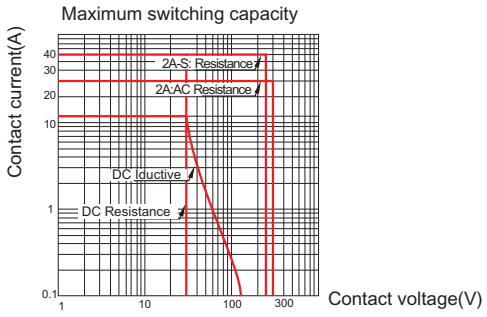
RGF 1NO





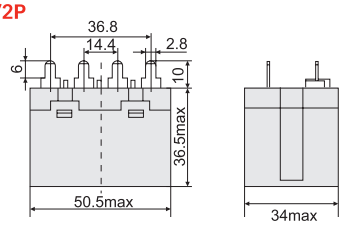
RGF 2NO



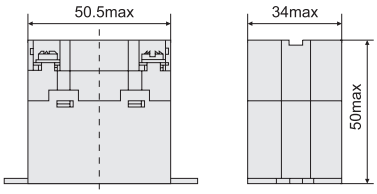


Dimensions (mm)

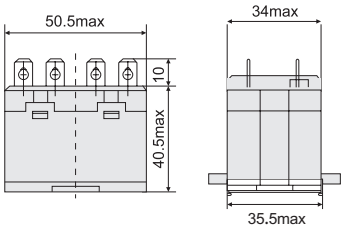
RGF1P/2P



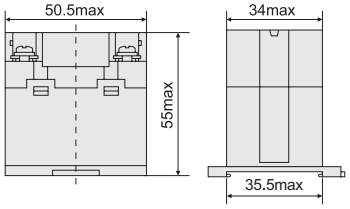
RGF1BU/2BU



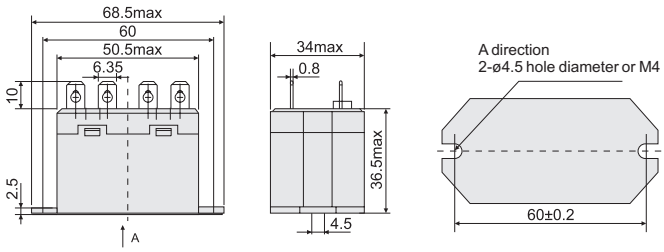
RGF1OD/2OD



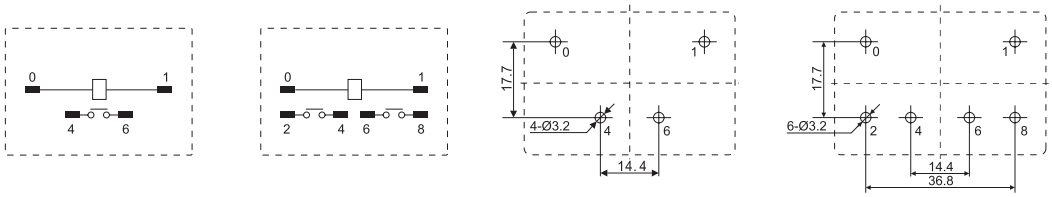
RGF1BD/2BD



RGF1OU/2OU



Wiring Diagrams



RGF1 RGF2 RGF1P RGF2P