



Character

- ♦ 50A contact switching capability
- Only impulse excitation needed, both for single and double coil.
- ♦ Low power consumption, strong load capability
- ♦ Small in size, PCB type installation
- ♦ 4KV dielectric strength between coil and contacts
- ♦ RoHS compliant
- ♦ Outline dimensions: (39 x 30.2 x 15) mm

Contact Data

Contact Forn	ו	1B	1C	
Contact Mate	erial	AgSnO ₂	AgSnO ₂	
Contact Resistance		Max.2.0mΩ(1A 6VDC)	Max.2.0mΩ(1A 6VDC)	
Rated Load(Resistive)		50A 250VAC	40A 250VAC	
Max. Switchi	ng Voltage	440VAC	440VAC	
Max. Switching Current		1B 50A	1C 40A	
Max. Switching Power		12500VA	10000VA	
Service Life	Mechnical Endurance	1×10°OPS	1×10 ⁶ OPS	
	Electrical Endurance	1B 3X10 ⁴ OPS	1C 1X10 ⁴ OPS	
Max. Short-circuit Current		1200A/10ms	1200A/10ms	

Characteristics

Operate Time		20ms Max.	20ms Max.
Release Time		20ms Max.	20ms Max.
Insulation Res	sistance (500VDC)	1000MΩ Min.	1000MΩ Min.
Dielectric	Contact to Coil	4000VAC	4000VAC
Strength (50/60hz,	Across Open Contacts	1500VAC	1500VAC
1min)	Contact to contact		
Surge Voltage (1.2/50 μ s)	Contact to Coil	12KVAC	6KVAC
Creepage Distance		8mm	8mm
Unit Weight		About 44g	About 44g

Environmental Data

Ambient Temperature	-40°C ~+85°C	Relative Humidity	5%-85% RH
Vibration	10-55Hz 1.5mm	Shock	98m/s ²

Coil Data (20°C)

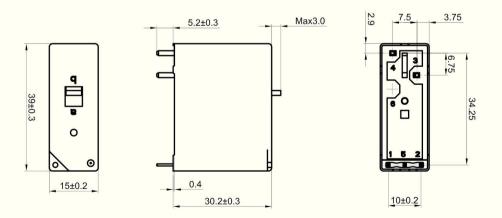
Coil Voltage (VDC)	Coil Resistance(Ω) $\pm 10\%$		Coil Power(w)				Allowing	Pulse				
	Single	Double	Single	Double	Voltage (VDC)	Voltage (VDC)	voltage (VDC)	Duration (ms)				
□ 5	25	12.5/12.5	- - - 1.0		≤3.75	≤3.75	7.5					
□ 6	36	18/18		1.0		≤4.5	≤4.5	9				
□ 9	81	40.5/40.5				2.2			≤6.75	≤6.75	13.5	- 50
□ 12	144	72/72			2.0	≤9	≤9	18	≥50			
□ 24	576	288/288				≤18	≤18	36	-			
□ 48	2304	1152/1152			≤36	≤36	72					

Ordering information

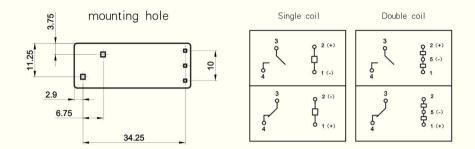
GRT508Y	50A	1C	12VDC	S	XX		
						Terminal type:	Custom design
						Coil type:	Sisingle coil Didouble coil
						Coil voltage:	6, 9, 12, 24V
						Contact form:	1C:a set of contacts remain closed
						Contact current:	50A
						Relay Series:	GRT508Y

Dimensional Drawings/Wiring Diagrams(unit:mm)

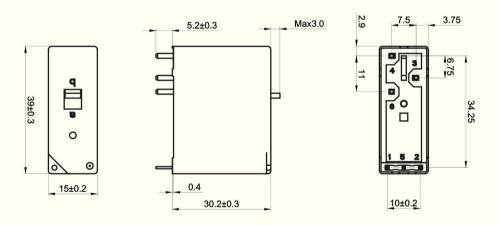
VERSION:1B



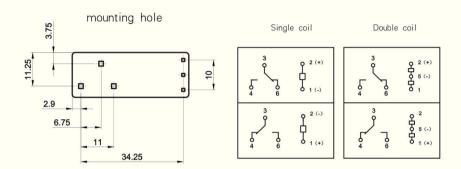
Note: No tolerance marked. If dimension ≤ 1 mm, the tolerance is ± 0.2 mm; if dimension 1-5mm, the tolerance is ± 0.3 mm; if dimension ≥ 5 mm, the tolerance is ± 0.5 mm.



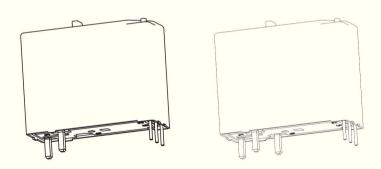
VERSION:1C



Note: No tolerance marked. If dimension \leq 1mm, the tolerance is \pm 0.2mm; if dimension 1-5mm, the tolerance is \pm 0.3mm; if dimension \geq 5mm, the tolerance is \pm 0.5mm.



Typical Terminal Type



Typical application

•Smart Meter •Electric Remote Control •Smart Home