

R502 - P series



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Features

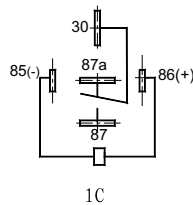
- Small size.
- Contact load capacity up to 150A.
- Suitable for automobile.
- Terminal types as inserting.

Operation condition

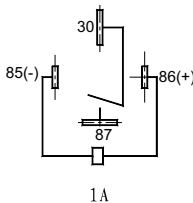
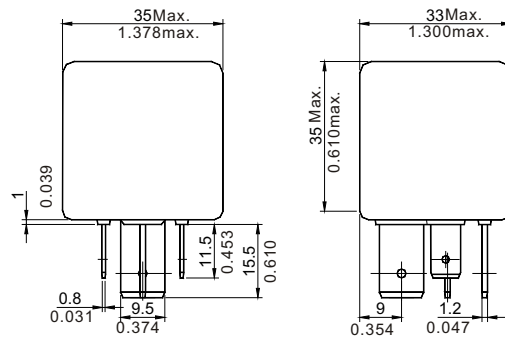
Insulation Resistance ¹⁾	100M Ω min (at 500VDC)	Item 7 of IEC 60255-5
Dielectric Strength ¹⁾		
Between contacts	50Hz 750V	Item 6 of IEC 60255-5
Between contact and coil	50Hz 1000V	Item 6 of IEC 60255-5
Shock resistance	147m/s ² 11ms	IEC 68-2-27 Test Ea
Vibration resistance	10Hz~40Hz double amplitude 1.5mm	IEC 68-2-6 Test Fc
Terminals strength	30N	IEC 68-2-21 Test Ua2
Solderability	235 \pm 2 $^{\circ}$ C 3s \pm 0.5s	IEC 68-2-20 Test T method 1
Ambient Temperature	-40 $^{\circ}$ C~125 $^{\circ}$ C	
Relative Humidity	85% (at 40 $^{\circ}$ C)	IEC 68-2-3 Test Ca
Mass	65g	

Note: 1). When testing, coil terminals should be connected. If coil transient suppression is installed in relay.

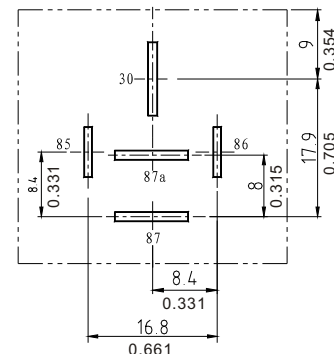
mm / inch



Mounting (Bottom view)



Mounting (Bottom view)



NOTES 1). Dimensions are in millimeters.
 2). Inch equivalents are given for general information only.

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Contact Data

Contact Arrangement		1A (SPSTNO) ,1C (SPDT(B-M))	
Contact Material		Ag alloy	
Contact Rating (resistive)		1A	1C
		150A/12VDC; 50A/24VDC	NO: 50A/24VDC,150A/12VDC NC: 50A/24VDC,100A/12VDC
Max. Switching Power		1800W	
Max. Switching Voltage		75VDC	Max. Switching Current:150A
Contact Resistance or Voltage drop		$\leq 30m\Omega$ $\leq 200mV$ (at Contactrating) Item 4.12 of IEC 61810-7	
Operation life	Electrical	10^5	Item 4.30 of IEC 61810-7
	Mechanical	10^7	Item 4.31 of IEC 61810-7

Coil Parameter

Dash numbers	Coil voltage VDC		Coil resistance $\Omega \pm 10\%$	Pickup voltage VDC(max) (65%of rated voltage)	Release voltage VDC(min) (10% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
	Rated	Max.						
012-2900	12	15.6	50	7.8	1.2	2.9	≤ 10	≤ 5
024-2900	24	31.2	195	15.6	2.4			

CAUTION: 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
 2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

Ordering information

R502 / 024 R Z 1 P 1 2 3 4 5 6					
1 Model: R502 2 Coil voltage: see coil parameter 3 Feature: nil= standard; R=resistor; D=diode D2= two diodes; DR= diode and resistor 4 Contact form: H=1A, Z=1C			5 Version: 1=sealed, 3=dust cover 6 Contact rating: P= NO: 50A/24VDC,150A/12VDC NC: 50A/24VDC,100A/12VDC		

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