902

Features	- Long terminals ideal soldering and mounting reliability. - Space-saving inside-L terminal. - High dielectric strength between coil and contacts(2000VAC) and between contacts of Different polarity(1500VAC). - High impulse withstand voltages between coil and contacts, and between contacts of different polarity(2500V, 2×10ms: bellcore requirements). - Low power consumption(140mW). - Bifurcated crossbar contact(Au-clad) and plastic sealed construction for high reliability. - High seal ability after IRS.
Contact resistance(1)	75mΩ Max.
Operate time(1)	4ms Max.
Release time(1)	4ms Max.
Bounce time	operate: approx 0.5ms release: approx 0.5ms set/reset: approx 0.5ms
Insulation resistance(1)(2)	1000MΩMin.(DC 500V)
Dielectric Strength(1)	Between coil and contacts: AC 2000V, 50/60Hz 1 min. AC 1000V, 50/60Hz 1 min.(double-winding latching)
	Between contact of different pole: AC 1500V, 50/60Hz 1 min.
	Between contact of same pole: AC 1000V, 50/60Hz 1 min.
	Between set and reset coil: AC 500V, 50/60Hz 1 min. (double-winding latching)
Surge withstand voltage	Between coil and contacts: AC 2500V(2 ×10μs) AC 1500V(10 ×160μs)(double-winding latching)
	Between contact of different pole: AC 2500V(2 ×10μs)
	Between contact of same pole: AC 1500V(10 ×160μs) (conforms to FCC part 68)
Vibration resistance	Operating extremes: 10~55Hz, double amplitude 5mm
	Damage limits: 10~55Hz, double amplitude 3.3mm
Shock resistance	Operating extremes: 75G
	Damage limits: 100G
Life expectancy	Mechanical: 100,000,000 operations (frequency 36,000 operations/hr)
	Electrical: 100,000 operations (frequency 1,200 operations/hr)
Operating ambient temperature	-40 ~ + 85℃(no freezing)
	-40 ~ + 70℃(no freezing)[double-winding latching]
Weight	Approx. 2g

- Note: (1) initial value
(2) Except between set and reset coil

■ Type List

Terminal style	Contact form	Relay function	Terminal shape	Enclosure style
				Plastic sealed
PCB terminal	2C(DPDT)	Single-side stable	-	902-2C-S
				902-2C-S-Y
		Single-winding latching	-	902U-2C-S
		Double-winding latching	-	902K-2C-S
		Single-side stable	Outside-L surface mounting terminal	902F-2C-S
				902F-2C-S-TR

■ Ordering Information

902	902	Basic series designation
U	Black	Single-side stable
	U	Single-winding latching
	K	Double-winding latching
G	Blank	Through-hole terminal
	F	Outside-L surface mounting terminal
2C	2C	Double pole double throw
S	S	Plastic sealed
	U	Ultrasonically cleanable
TR	Blank	Standard type
	TR	Tape packing
Y	Blank	UL/CUL approved
	Y	EN60950 approved

■ Contact Rating

Rated load(resistive load)	0.5A at 125VAC, 2A at 30VDC
Contact material	Ag + Au-clad
Max. continuous current	2A
maximum switching voltage	250VAC, 220VDC
Maximum switching capacity	62.5VA, 60W
Min. permissible load	10μ A at 10mVDC

- Note: P level: $\lambda_{60}=0.1\times10^{-6}$/operation

■ Coil Rating(Single-side stable)

Rated voltage (V)	Rated current ±10% at 23℃ (mA)	Coil resistance ±10% at 23℃(Ω)	Max. continuous voltage at 23℃	Pick up voltage (Max) at 23℃	Drop out voltage (Min) at 23℃	Power consumption at rated voltage
4.5	31	145	200% of rated voltage	75% of rated voltage	10% of rated voltage	approx. 0.14W
5	28.1	178				
12	11.7	1028				
24	8.3	2880	170% of rated voltage			approx. 0.2W

■ Coil Rating(Single-winding latching)

Rated voltage (V)	Rated current ±10% at 23℃ (mA)	Coil resistance ±10% at 23℃(Ω)	Max. continuous voltage at 23℃	Pick up voltage (Max) at 23℃	Drop out voltage (Min) at 23℃	Power consumption at rated voltage
4.5	22.2	203	180% of rated voltage	75% of rated voltage	75% of rated voltage	approx. 0.1W
5	20	250				
12	8.3	1440				
24	6.3	3840				approx. 0.15W

■ Coil Rating(Double-winding latching)

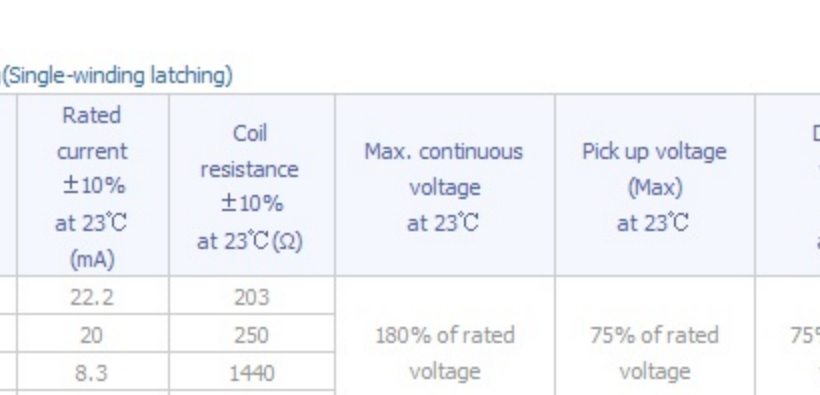
Rated voltage (V)	Rated current ±10% at 23℃ (mA)	Coil resistance ±10% at 23℃(Ω)	Max. continuous voltage at 23℃	Pick up voltage (Max) at 23℃	Drop out voltage (Min) at 23℃	Power consumption at rated voltage
4.5	44.4	101	170% of rated voltage	75% of rated voltage	75% of rated voltage	approx. 0.2W
5	40	125				
12	16.7	720				
24	12.5	1920	140% of rated voltage			approx. 0.3W

■ Coil Rating(Single-side stable)[EN60950 approved type]

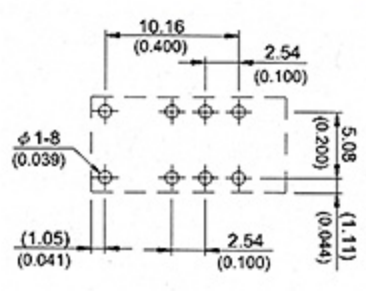
Rated voltage (V)	Rated current ±10% at 23℃ (mA)	Coil resistance ±10% at 23℃(Ω)	Max. continuous voltage at 23℃	Pick up voltage (Max) at 23℃	Drop out voltage (Min) at 23℃	Power consumption at rated voltage
5	40	125	170% of rated voltage	75% of rated voltage	10% of rated voltage	approx. 0.2W
12	16.7	720				
24	9.6	2504				approx. 0.23W

902 | 902U | 902F | 902K

Dimensions_902



P/C Board Pattern (Bottom View)



Wiring Diagram (Bottom View)