

Power Relay

TRL



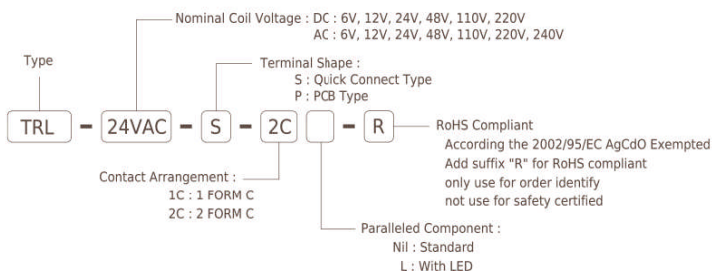
MAIN FEATURES

- Long life and high reliability
- Strong construction for vibration and shock
- Approximately thousands for kinds are available depending on the combination of terminals, covers, contact ratings, coil etc.
- Plastic-sealed type is available
- Molded material : All UL 94V-0
- UL & cUL recognized

APPLICATIONS

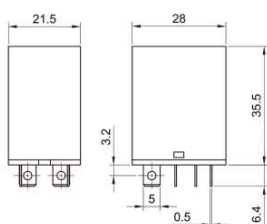
Coil operated machines	Transportations	Medical equipment
Vending machines	Office machines	Amusement devices, etc.
Refrigerators	Building control equipment	Power station control equipment

ORDERING INFORMATION

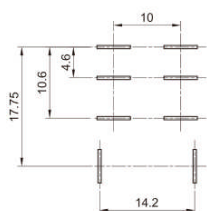


DIMENSION(unit:mm)

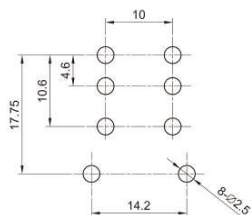
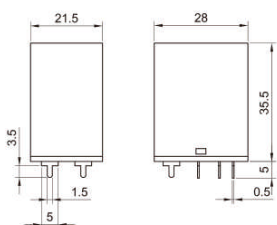
Quick Connect Type



DRILLING(unit:mm)

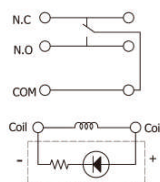


PCB Type



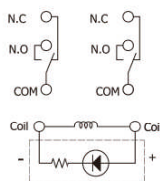
WIRING DIAGRAM

1 From C



(De-energized Position)

2 From C



(De-energized Position)

COIL DATA CHART(at 20°C)

Nominal voltage	Pick-Up voltage	Drop-out voltage	Nominal current	Coil resistance	Power consumption	Max. allowable voltage
AC Type						
VAC	VAC(Max.)	VAC(Min.)	mA(+15%, -20%)	Ω (±10%)	P(W)	(VAC)
6	4.8	1.8	183	11.5	Approx. 1.2VA	110% of nominal voltage
12	9.6	3.6	91	46		
24	19.2	7.2	46	184		
48	38.4	14.4	24	735		
110	88	33	11	3900		
120	96	36	9.8	4550± 15%		
220	176	66	4.2	14400± 15%	Approx. 0.9W	110% of nominal voltage
240	192	72	5.5	15210± 15%		
DC Type						
VDC	VDC(Max.)	VDC(Min.)	mA(10%)	Ω (±10%)	P(W)	(VDC)
6	4.8	0.6	150	40	Approx. 0.9W	110% of nominal voltage
12	9.6	1.2	75	160		
24	19.2	2.4	37.2	650		
48	38.4	4.8	18.8	2560± 15%		
110	88	11	8.2	13444± 15%		
220	176	22	4.1	53778± 15%		

CONTACT RATING

Item	TRL -1C (SPDT)	TRL -2C(DPDT)
Rated load	15A 277VAC 15A 28VDC	10A 277VAC 10A 28VDC
Carrying current	15A	10A
Max. switching voltage	300VAC, 30VDC	
Max. switching current	15A	10A
Max. switching power	4155VA, 420W	2770VA, 280W
Min. permissible load	5VDC 100mA	
Contact material	AgCdO	

PERFORMANCE(at initial value)

Item	TRL
Contact Resistance	Max. 100mΩ
Operation time (at nominal voltage)	Max. 25msec
Release time (at nominal voltage)	Max. 25msec
Operating frequency	20 ops/minute
Insulation resistance	Min. 100MΩ (at 500VDC)
Vibration resistance	Functional : 6G 10 to 55 Hz, at double amplitude of 1mm Destructive : 12G 10 to 55 Hz, at double amplitude of 2mm
Shock resistance	Functional : Min, 20G Destructive : Min, 100G
Dielectric strength	1500VAC. for 1minute between coil and contact. 750VAC. for 1minute between contact sets. 750VAC. for 1minute between open contacts.
Ambient temperature	-40°C to +70°C
Humidity	40% to 85% RH
Life expectancy	Mechanical : 1 x 10 ⁷ operations Electrical : 2 x 10 ⁵ operations (at rated load)
Weight	abt 37g.
UL & cUL	E156521

1. Tolerance ±0.5mm on all dimensions unless otherwise stated.
2. Tolerance ±0.1mm on PCB DRILLING dimension unless otherwise stated.