

MAIN FEATURES

- 30A switching capabilities
- SPST-NO and SPDT configurations
- 4KV dielectric coil to contacts
- Heavy load up to 7500VA
- UL & cUL recognized.

APPLICATIONS

- Home appliance: Air conditioners, Microwave ovens, TV-set, Heaters, Stereo
- Office equipment: Copiers, Vending Machine.
- U.PS source circuit control , etc.

ORDERING INFORMATION

Type: TRG7-1, TRG7-2, TRG7-3

Nominal Coil Voltage : DC : 3V, 6V, 12V, 24V, 48V, 100V, 110V, 220V
AC : 6V, 12V, 24V, 48V, 120V, 200V

Structure : F : Flux Free Type

RoHS Compliant: Add suffix "R" for RoHS compliant only use for order identify not use for safety certified

Insulation Class : Nil : Class B, F : Class F

Contact Material : D : AgSnO₂

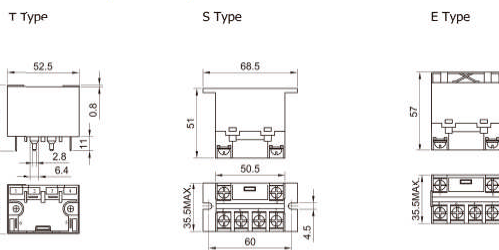
Contact Arrangement : 1A : 1 FORM A, 2A : 2 FORM A

Fixed Mode : Type Code Mounting Terminal Shape

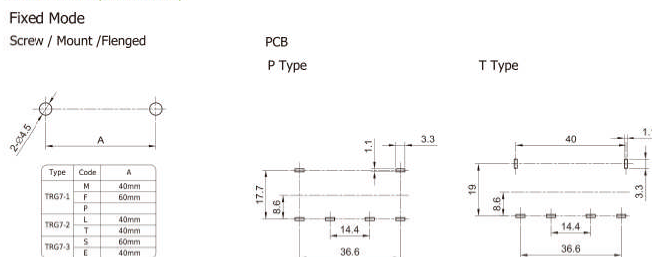
TRG7-1	M	Mount	Quick Connect
TRG7-1	F	Flanged	Quick Connect
TRG7-1	P	PCB	PCB
TRG7-2	L	Screw	Quick Connect
TRG7-2	T	Screw	PCB
TRG7-3	S	Flanged	Screw
TRG7-3	E	Mount	Screw



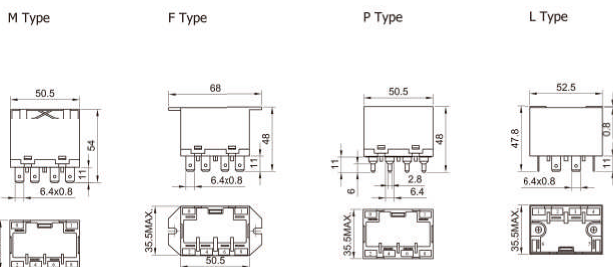
DIMENSION(unit:mm)



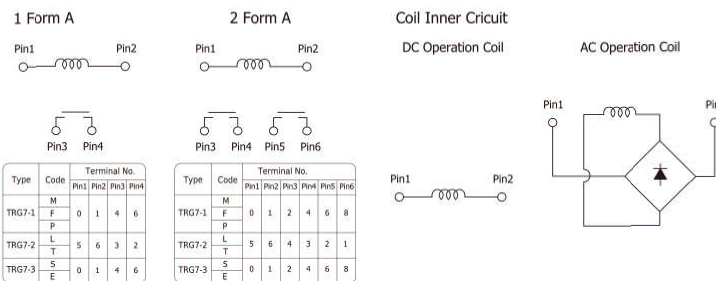
DRILLING(unit:mm)



DIMENSION(unit:mm)



WIRING DIAGRAM



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

Only for reference, won't notify if any change.

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COIL DATA CHART(at 20°C)

Nominal Voltage	Nominal Current (mA ±10%)	Coil Resistance (Ω ±10%)	Power Consumption (mW)	Pick-Up Voltage VDC(Max.)	Drop-out Voltage VDC(Min.)	allowable Voltage VDC (Max.)
AC Type						
VAC	VAC(Max.)	VAC(Min.)	mA(+15%,-20%)	Ω(±10%)	(VA)	(VAC)
6	4.8	0.9	275	18.8	Approx. 2.7	110% of nominal voltage
12	9.6	1.8	138	75		
24	19.2	3.6	74	300		
48	38.4	7.2	39	1200		
120	96.0	18	22.1	5200		
220	176.0	48	9.5	20800		
DC Type						
VDC	VDC(Max.)	VDC(Min.)	mA(±10%)	Ω(±10%)	(W)	(VDC)
3	2.25	0.3	638	4.7	Approx. 1.9	110% of nominal voltage
6	4.5	0.6	319	18.8		
12	9.0	1.2	160	75		
24	18.0	2.4	80	300		
48	36.0	4.8	40	1200		
100	75.0	10.0	19.23	5200		
110	82.5	12.0	17.46	6300		
200	150.0	20.0	9.52	21000		

CONTACT RATING

Item	TRG7	
	1 Form A	2 Form A
Contact Capacity	30A 277VAC	25A 277VAC
Resistive Load (cosφ=1)	3HP 240VAC	2HP 240VAC
	TV-10 120VAC	TV-10 120VAC
Rated Carrying Current	30A	25A
Max. Allowable Voltage	277VAC	
Max. Allowable Current	30A	25A
Max. Allowable Power Force	8310VA	6925VA
Contact Material	Silver Alloy	

PERFORMANCE(at initial value)

Item	TRG7
Contact Resistance	Max. 100mΩ
Operation time (at nominal voltage)	Max. 30msec
Release time (at nominal voltage)	Max. 30msec
Operating frequency	20 ops/minute
Insulation resistance	Min. 1000MΩ(at 500VDC)
Vibration resistance	10 Hz to 55 Hz, at double amplitude of 1.5mm
Shock resistance	98m/s ² Malfunction, 980m/s ² Mechanical.
Dielectric strength	4000VAC. For 1minute between coil and contacts 2000VAC. For 1minute between open contacts.
Ambient temperature	-55°C to +70°C
Humidity	98%, +40°C
Life expectancy	1 x 10 ⁶ operations
Mechanically	1 x 10 ⁵ operations (at rated load)
Electrically	
Weight	abt 120g.
SCREW TYPE	abt 100g.
PC BOARD TYPE	
UL & cUL	E156406

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