TRD

勝 特 力 材 料 886-3-5753170
胜特力电子(上海) 86-21-34970699
胜特力电子(深圳) 86-755-83298787
Http://www.100y.com.tw

➢ MAIN FEATURES

- Switching capacity available by 12A,15A in spite of small size design for high density P.C. board mounting technique.
- Selection of plastic material for high temperature and better chemical solution performance.
- Sealed types available.
- Simple relay magnetic circuit to meet low cost of mass production.
- UL and TUV recognized.

➢ APPLICATIONS

- Domestic appliance, office machine, audio, equipment, automobile, etc.

➢ ORDERING INFORMATION

Type

Nominal coil voltage : 3V, 5V, 6V, 9V, 12V, 24V, 48V

Structure F : Flux Free Type
S : Washable Type

TRD — [ ] — 12V DC — F — C — C — D — R

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

Contact Rating
Nil : Standard

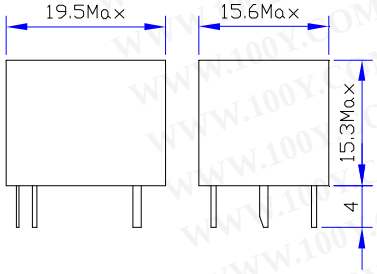
Contact material
B : AgCdO
C : AgSnIn(For RoHS)

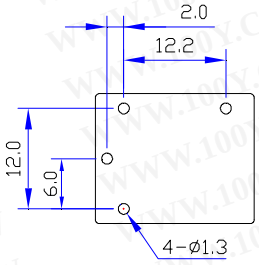
Power consumption
D : Standard
L : High Sensitive

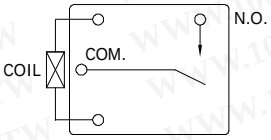
Contact Arrangent
A : 1 Form A
C : 1 Form C

■ DIMENSION(unit:mm) ■ DRILLING(unit:mm) ■ WIRING DIAGRAM

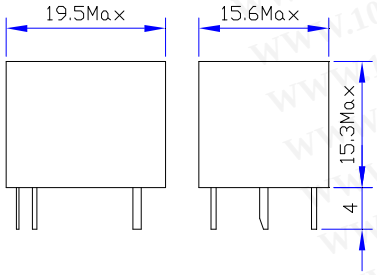
TRD Form A TYPE

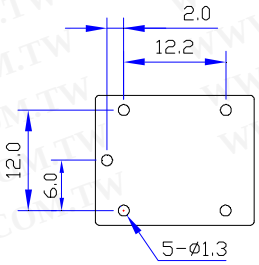


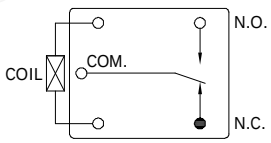




TRD Form C TYPE







Remark: 1.In case of no tolerance shown in dimension: ±0.5mm.
2.The tolerance without indicating for DRILLING is always ±0.1mm.

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➢ COIL DATA CHART (AT20°C)

Coil Sensitivity	Nominal Voltage(VDC)	Nominal Current (mA)	Coil Resistance (Ω) ±10%	Power Consumption(W)	Pull-In Voltage(VDC)	Drop-Out Voltage (VDC)	Max-Allowable Voltage (VDC)
TRD (High Sensitivity)	3	120	25	abt. 0.36W	75% Max.	5% Min.	120%
	5	71.4	70				
	6	60	100				
	9	40	225				
	12	30	400				
	24	15	1600				
	48	7.5	6400				
TRD (Standard)	3	150	20	abt. 0.45W	75% Max.	5% Min.	110%
	5	89.3	55				
	6	75	80				
	9	50	180				
	12	37.5	320				
	24	18.7	1280				
	48	10	4500	abt. 0.51W			

➢ CONTACT RATING

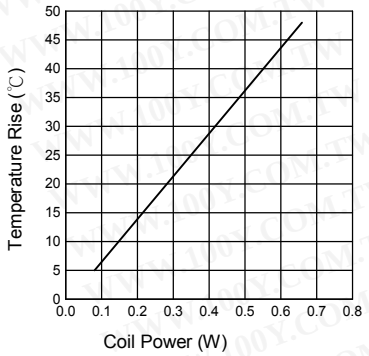
Item \ Type	TRD	
	12A	15A
Contact Capacity Resistive Load (cosΦ=1)	12A 28VDC (UL) 12A 120VAC 12A 28VDC (TUV) 6A 250VAC	12A 28VDC (UL) 15A 125VAC 15A 28VDC (TUV) 10A 250VAC
Rated Carrying Current	12A	15A
Max. Allowable Voltage	250VAC / 110VDC	250VAC / 110VDC
Max. Allowable Current	12A	15A
Max. Allowable Power Force	1440VAC, 336W	1875VA, 420W
Referenced Min. Applicable Load	5VDC, 10mA	5VDC, 10mA
Contact Material	Ag Alloy	

➢ PERFORMANCE(at initial value)

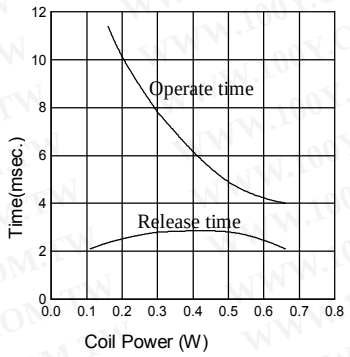
Item \ Type	TRD
Contact Resistance	100mΩ Max.
Operation Time	10msec Max.
Release Time	5msec Max.
Dielectric Strength Between coil & contact Between contacts	 1500VAC 50/60Hz (1 minute) 750VAC 50/60Hz (1 minute)
Surge Resistiveness	3000V (between coil & contact 1×40u sec)
Insulation Resistance	100 MΩ Min. (500VDC)
Max. ON/OFF Switching Mechanically Electrically	 300 operation/min 30 operation/min
Operating Ambient Temperature	-30°C to +80°C (No water condensation and no water drop)
Operating Humidity	45% to 85% RH
Coil Temperature Rise	35 deg. Max.
Vibration Endurance Error Operation	 10 to 55Hz Double Amplitude 1.5mm 10 to 55Hz Double Amplitude 1.5mm
Shock Endurance Error Operation	 980m/s^2. 98m/s^2.
Life Expectancy Mechanically Electrically	 1 x 10^7 operations. Min. (no load) 1 x 10^5 operations. Min. (at rated coil voltage)
Weight	abt. 10grs.
UL	E156521
TUV	R 50062544

➢ REFERENCE DATA

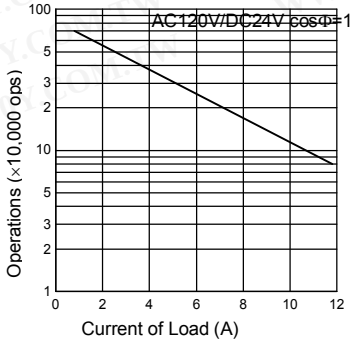
Coil Temperature Rise



Operate Time



Life Expectancy



This datasheet for reference and subject to change without notice. Please double check final specification with Tai-Shing.
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