



TRM

➤ MAIN FEATURES

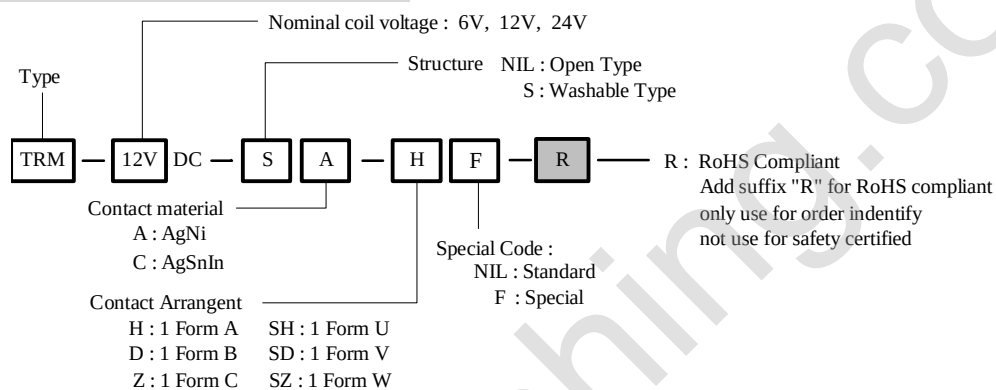
- Single CONTACT and double CONTACT Types offer switching capacity by 15A in small size for exclusive automobile control relay switching box use.
- PC board terminal.
- Simple magnetic circuit to meet mass production for low cost offer. Standard type is open type without dust cover. If dust cover required, suitable cased relay can be prepared.
- Operating ambient temperature range covers from -40°C by 85°C at no current on relay's CONTACTS.



➤ APPLICATIONS

- Car control switching box (alarm system, automatic door locking) wiper motor Reversing, window Lifter, Flashers or turning signals, Air conditioning, Fuel pump control system, etc.

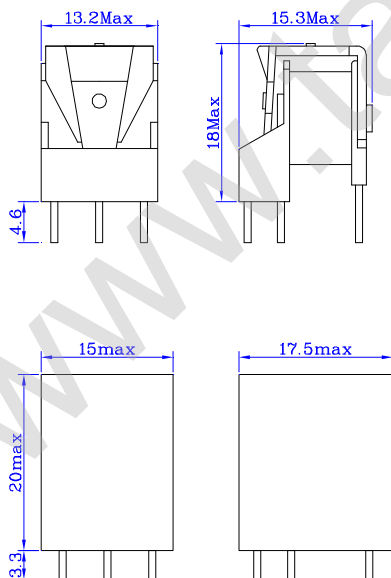
➤ ORDERING INFORMATION



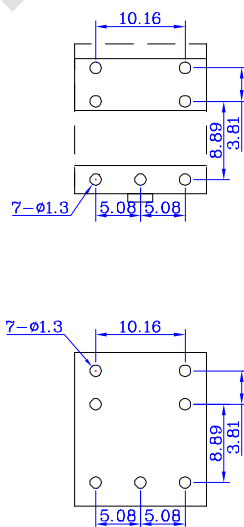
■ DIMENSION(unit:mm)

■ DRILLING(unit:mm)

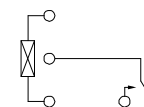
■ WIRING DIAGRAM



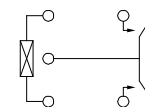
Bottom View



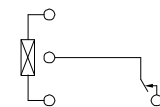
H : 1 Form A



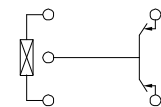
SH : 1 Form U



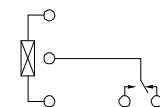
D : 1 Form B



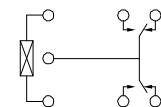
SD : 1 Form V



Z : 1 Form C



SZ : 1 Form W



► COIL DATA CHART(at 20 °C)

Coil Sensitivity	Coil Voltage Code	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω) $\pm 10\%$	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Max-Allowable Voltage (VDC)
TRM	06	6	215	28	1.3W	75% Max	10% Min	130%
	12	12	93	130	1.1W			
	24	24	46	520	1.1W			

► CONTACT RATING

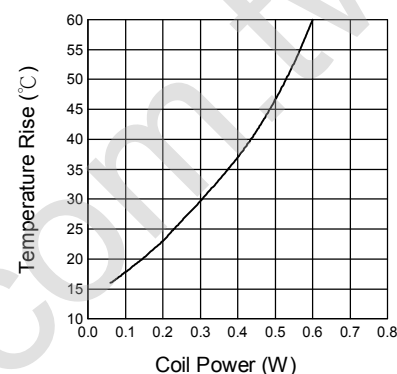
Item	Type	TRM	
		SH(1U), SD(1V), SZ(1W)	H(1A), D(1B), Z(1C)
Contact Capacity		2 x 10A 120VAC	10A 120VAC
Resistive Load ($\cos\Phi=1$)		2 x 10A 28VDC 2 x 20A 14VDC	10A 28VDC 20A 14VDC
Inductive Load ($\cos\Phi=0.4$ L/R=7msec)		2A 120VAC 5A 12VDC	1A 120VAC 3A 12VDC
Rated Carrying Current		10A	10A
Max. Allowable Voltage		380VAC, 75VDC	380VAC, 75VDC
Max. Allowable Current		10A	10A
Max. Allowable Power Force		2 x 1200VA, 2 x 280W	1200VA, 280W
Referenced Min. Applicable Load		5VDC 10mA	5VDC 10mA
Contact Material		Ag Alloy	

► PERFORMANCE (at initial value)

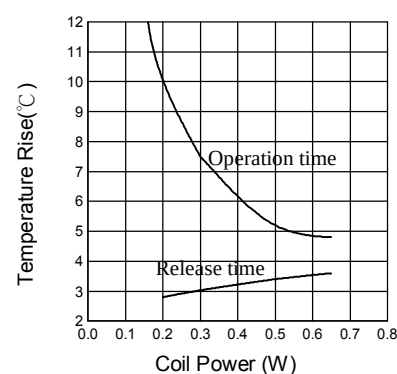
Item	Type	TRM
Contact Resistance		100m Ω Max.
Operation Time		6msec Max.
Release Time		3msec Max.
Dielectric Strength		Between coil & contact 500VAC 50/60Hz (1 minute) Between contacts 1000VAC 50/60Hz (1 minute)
Surge Resistiveness		2000V (between coil & contact 1x40 usec)
Insulation Resistance		100 M Ω Min. (AT 500VDC)
Max. ON/OFF Switching		Mechanically 300 operation/min Electrically 30 operation/min
Operating Ambient Temperature		-40°C to +85°C (No water condensation and no water drop)
Operating Humidity		98% RH at 20°C
Coil Temperature Rise		60 deg. Max. (at rated coil voltage)
Vibration		Endurance 10 to 55Hz Double Amplitude 1.5mm Error Operation 10 to 55Hz Double Amplitude 1.5mm
Shock		Endurance 100G Min. Error Operation 10G Min.
Life Expectancy		Mechanically 1 x 10 ⁷ ops. Min. (no load) Electrically 1 x 10 ⁵ ops. Min. (at rated coil voltage)
Weight		abt. 12grs. (sealed), 9grs. (open Frame)

► REFERENCE DATA

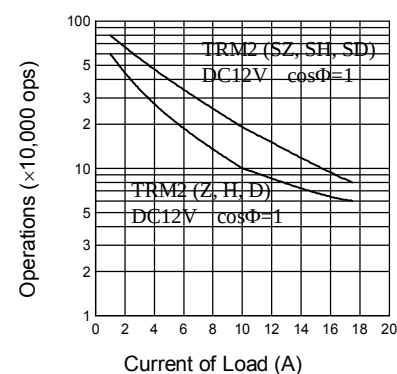
Coil Temperature Rise



Operate



Life Expectancy



This datasheet for reference and subject to change without notice. Please double check final specification with Tai-Shing. (0939AA08VOL01)