



TRM

➤ MAIN FEATURES

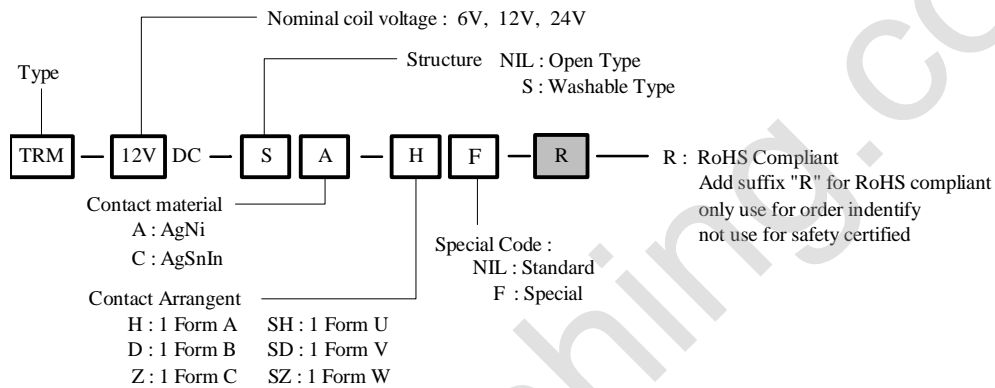
- Single CONTACT and double CONTACT Types offer switching capacity by 15A in small size for exclusive automobile control relay switching box use.
- PC board terminal.
- Simple magnetic circuit to meet mass production for low cost offer. Standard type is open type without dust cover. If dust cover required, 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.

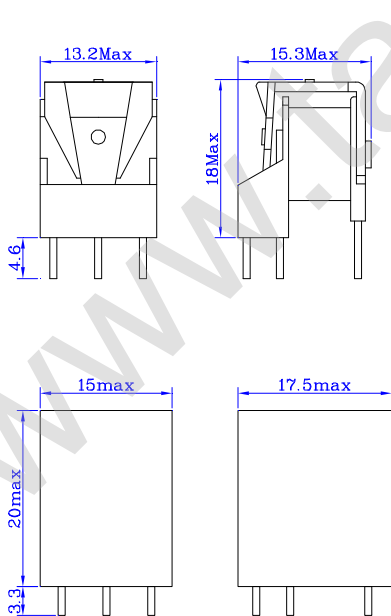
➤ ORDERING INFORMATION



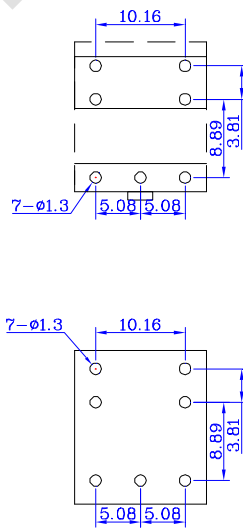
■ DIMENSION (unit:mm)

■ DRILLING (unit:mm)

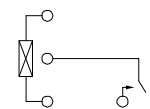
■ WIRING DIAGRAM



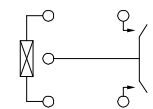
Bottom View



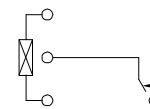
H : 1 Form A



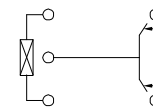
SH : 1 Form U



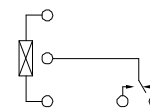
D : 1 Form B



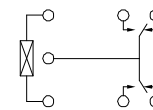
SD : 1 Form V



Z : 1 Form C



SZ : 1 Form W



➤ **COIL DATA CHART (at 20°C)**

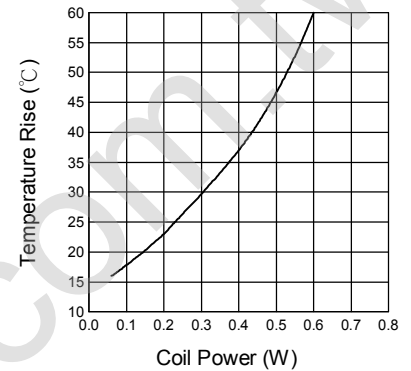
Coil Sensitivity	Coil Voltage Code	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω) $\pm 10\%$	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Max-Allowable Voltage (VDC)
TRM	06	6	215	28	1.3W	75% Max	10% Min	130%
	12	12	93	130	1.1W			
	24	24	46	520	1.1W			

➤ **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 Φ =1)		2 x 10A 28VDC 2 x 20A 14VDC	10A 28VDC 20A 14VDC
Inductive Load (cos Φ =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	

➤ **REFERENCE DATA**

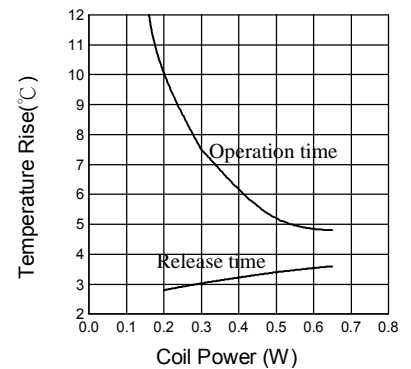
Coil Temperature Rise



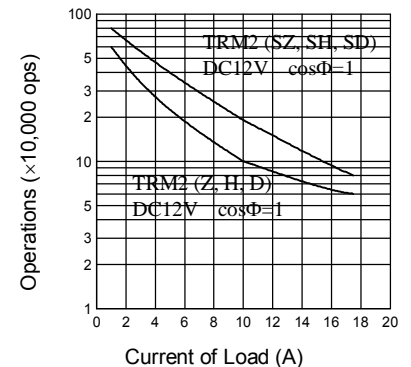
➤ **PERFORMANCE (at initial value)**

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)

Operate



Life Expectancy



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