



TR91

MAIN FEATURES

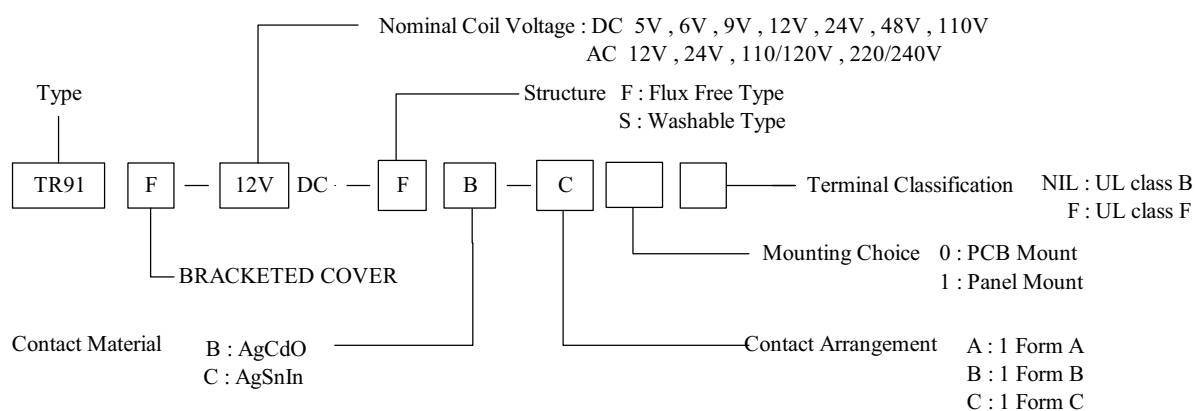
- Up to 30A switching in SPST and 20A switching in SPDT arrangements.
- Available as an open-frame relay, with a snap dust cover or with an immersion cleanable, plastic sealed case.
- Meets UL508 and UL873 spacing requirements.
- Available with UL class B & class Insulation materials.



APPLICATIONS

- Used for power switching, Electrical Heater, ventilator, Air conditioning, Refrigerating, Automobile and House-hold Appliance.

ORDERING INFORMATION

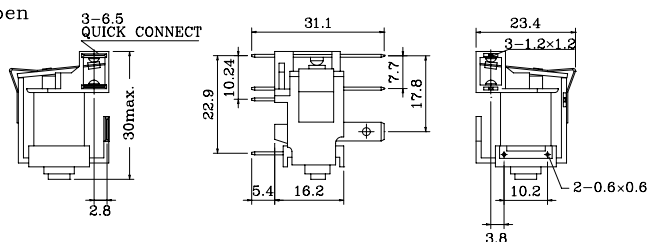


DIMENSION(unit:mm)

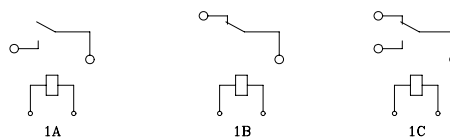
DRILLING(unit:mm)

WIRING DIAGRAM

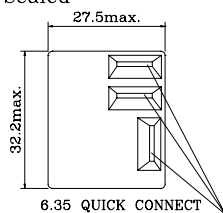
Open



Wiring Diagrams

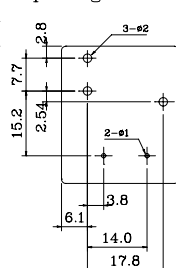


Sealed

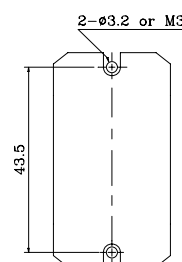
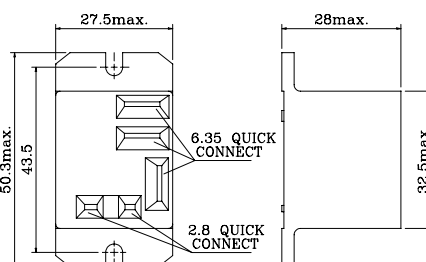


3.5 28max.

Openings



Bracketo Cover



大豪电子
电话: 0755-83233025
<http://www.szdahao.com>
<http://www.very-tec.com>

■ COIL DATA CHART (AT20°C)

Coil Sensitivity	Coil Voltage Code	Nominal Voltage	Nominal Current (mA)	Coil Resistance	Power Consumption	Pull-In Voltage	Drop-Out Voltage	Max-Allowable Voltage
TR91	DC Type (at 20°C)							
	VDC	VDC	mA	Ω±10%	VA	VDC	VDC	VDC
	05	5	185	27	abt. 0.93	75%Max.	10%Max.	110%
	06	6	150	40				
	09	9	93	97				
	12	12	77	155				
	24	24	36	660				
	48	48	19	2560				
	110	110	8	10330				
	AC Type (at 20°C)							
	VAC	VAC	mA	Ω±10%	VA	VAC	VAC	VAC
	12	12	167	26	abt. 2.0	85%Max.	15%Max.	110%
	24	24	83	106				
	110/120	110/120	19/17	2300/2950				
	220/240	220/240	9.5/8.3	8950/13110				

■ CONTACT RATING

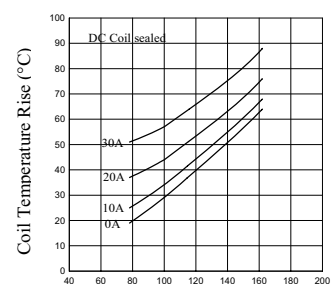
Type	TR91			
Item	FORM A	FORM B	FORM C	
			N/O	N/C
Resistive Load (cosΦ=1)	30A 240VAC	15A 240VAC	20A 240VAC	10A 240VAC
General	30A 28VDC	10A 28VDC	20A 28VDC	10A 28VDC
Motor	240VAC 2HP	240VAC 0.5HP	240VAC 2HP	240VAC 0.5HP
	120VAC 1HP	120VAC 0.25HP	120VAC 1HP	120VAC 0.25HP
Tungsten	TV-5	TV-3	TV-5	TV-3
Ballast	10A 277VAC	3A 277VAC	10A 277VAC	3A 277VAC
LRA/FLA	240VAC 80/30	240VAC 30/10	240VAC 50/20	2440VAC 20/7

■ PERFORMANCE (at initial value)

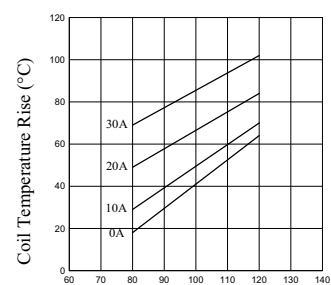
Item	Type	TR91
Contact Resistance		100mΩ Max.
Operation Time		DC : 15msec Max., AC : 20msec Max.
Release Time		DC : 10msec Max., AC : 15msec Max.
Dielectric Strength	Between coil & contact Between contacts	2500VAC 50/60HZ (1 minute) 1500VAC
Insulation Resistance		1000 MΩ Min. (500VDC)
Max. ON/OFF Switching	Mechanically Electrically	300 operation/min 30 operation/min
Operating Ambient Temperature		-55° to +85°C (operating) -55° to +155°C (storage)
Operating Humidity		45 to 80% RH
Coil Temperature Rise		60 deg. Max.
Vibration	Endurance Error Operation	10 to 55HZ Double Amplitude 1.5mm 10 to 55HZ Double Amplitude 1.5mm
Shock	Endurance Error Operation	1000 m/sec (abt. 100g's) 100 m/sec (abt. 10g's)
Life Expectancy	Mechanically Electrically	10 × 10 ⁶ 10 × 10 ⁴
Weight		abt. 33grs.
UL File No.		E156521
CSA File No.		LR700159

■ USEFUL CURVES

DC Coil Sealed



Coil Voltage (% of Nominal Voltage)



Coil Voltage (% of Nominal Voltage)