General Purpose Relay

TA,TR Series

Part Number Description



0	Terminals Distance	A: 5.08mm	R: 7.62mm	
0	Coil Voltage	05V:5VDC	12V:12VDC	24V: 24VDC

General Specification

Contact Form 1N/O
Maximum Contact Resistance 30mΩ
Contact Ratings Rated Current(Resistance Load) 5A 30VDC 5A 250VAC Maximum Switching Current 5A Maximum Contact Capacity DC: 150W AC: 1,250VA
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440)/00
Maximum Rated Voltage 110VDC
250VAC
Minimum Switching Current * 1mA 5VDC
Coil Voltage 5VDC 12VDC 24VDC
Coil Rat-
ings Minimum Pick Up Voltage 70% of Nominal Voltage
Maximum Drop Out Voltage 5% of Nominal Voltage
Insulation Class F 155°C
Operating Time Max. 6ms at nominal Voltage
Drop-out Time Min. 3ms at nominal Voltage
Insulation Resistance 1,000M Ω min.(at 500VDC)
Dielectric Strength Between Contact Points: 1,000VAC rms 1 minute
Between Contact Points and Coil: 2,000VAC rms 1 minute
Surge Voltage Between Contact Points and Coil: 4,000V
General Life Cycle Mechanical Min. 10,000,000
Ratings — Electrical Min. 100,000 (Under Rated Load)
Vibration Malfunction Min. 147m/s2(15G), 10 ~ 55Hz (width of vibration : 2.5mm)
Resistance Destruction Min. 205.8m/s2(21G), 10 ~ 55Hz (width of vibration: 3.5mm)
Shock Malfunction Min. 15G (147m/s2)
Resistance Destruction Min. 100G (980m/s2)
Ambient Temperature -40 ~ +70°C (with no icing)
Ambient Humidity 5% ~ 85% RH
Weight Approx. 3g

Please refer to the attention section.

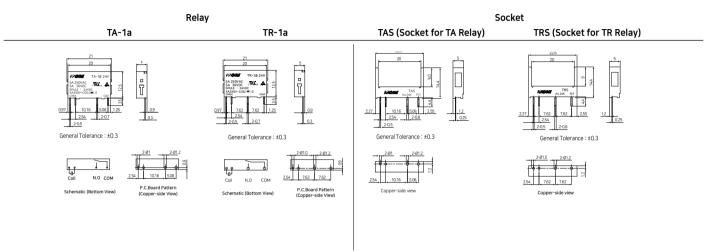
Product Selection

	Terminals Distance	Socket	Rated Voltage	Part Number	Terminals Distance	Socket	Rated Voltage	Part Number
MOON WARENESS			5VDC	TA-1a 5V	7.62mm	5VDC 12VDC	TR-1a 5V	
1/ACON 51 A 250VAC 51 A 250VAC 5A 25	5.08mm		12VDC	TA-1a 12V			12VDC	TR-1a 12V
CHINA CHINA		TAS	24VDC	TA-1a 24V		TRS	24VDC	TR-1a 24V
I - 10 Industrial Controls Catalog			www.kacon.co.kr			Rev. 2/14 Data subject may change without notice.		

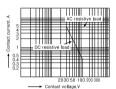
Specifications and materials can be changed without prior notice for the enhancement of the quality.
 The minimum switching current is indicated as a standard value. The actual minimum switching rate is variable factor according to the make and break frequency, environmental condition and anticipated credibility level. Therefore, it is recommended that tests be done to test actual load value before the production process.



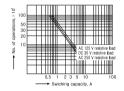
Dimension unit: mm



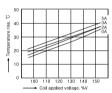
Technical Data



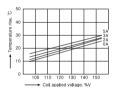
1. Maximum Contact Capacity



2. Life Cycle Curve



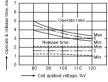
3. (1) Coil Temperature Rise (120mW) Model : TA-1a 12V Ambient temperatures : 20°C Measured area : inner coil



3. (2) Coil Temperature Rise(180mW) Model : TA-1a 24V Ambient temperatures : 20°C Measured area : inner coil



4. (1) Operating Time and cut-off (120mW) Model : TA-1a 12V



4. (2)Operating Time and cut-off (180mW) Model : TA-1a 24V



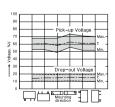
5. Specifications of the ambient temperature Model : TA-1a 12V



6. Failure shock

Caution

The operating voltage specification of Relay according to method of relay attachment is as follows



2. When installing relay within 1mm close range, please pay attention to the followings.



1) Relay installation must be towards same direction



Coil terminal polarity must be towards same direction