CIT® Relay & Switch

A10

12.0 (23.8) x 12.9 x 9.9 mm

Features

- Switching capacity up to 30A
- Dual relay available
- Withstands high temperature : 105°C operating temperature
- PC pin mounting available
- Ultra light weight : 4g

RoHS COMPLIANT

Contact Data*

Contact Arrangement	1A = SPST N.O. 1C = SPDT 2A = (2) SPST N.O. 2C = (2) SPDT
Contact Rating	1A : 25A, 30A @ 14VDC 1C : 25A, 30A @ 14VDC N.O. : 20A, 25A @ 14VDC N.C. 2A : 25A, 30A @ 14VDC 2C : 25A, 30A @ 14VDC N.O. : 20A, 25A @ 14VDC N.C.

Contact Resistance	< 30 milliohms initial
Contact Material	$AgSnO_2$
Max Switching Power	420W
Max Switching Voltage	28VDC
Max Switching Current	40A On, 30A Off (current flow 3 sec max with make/ break ratio of 1:10)
Limiting Continuous Current	NO/NC : 30A/25A @ 23ºC NO/NC : 25A/20A @ 85ºC

Coil Data*

Coil Voltage VDC		Coil Resistance Ω +/- 10%	Pick Up Voltage VDC (max) 58% of rated voltage	Release Voltage VDC (min) 10% of rated voltage	Coil Power W	Operate Time ms	Release Time ms
Rated	Max						
5	6.0	45	2.9	0.5	.55	≤ 3	≤ 1.5
9	10.8	147	5.2	0.9			
10	12.0	181	5.8	1.0	.57		
12	14.4	254	7.0	1.2	.55	≤ 4	
24	28.8	1152	13.9	2.4			

General Data*

Electrical Life @ rated load	100K cycles, average
Mechanical Life	10M cycles, average
Insulation Resistance	100M Ω min. @ 500VDC initial
Dielectric Strength, Coil to Contact	500V rms min. @ sea level initial
Contact to Contact	500V rms min. @ sea level initial
Shock Resistance	300m/s² for 6 ms
Vibration Resistance	1.27mm double amplitude 10~40Hz
Terminal (Copper Alloy) Strength	10N
Operating Temperature	-40ºC to +105ºC
Storage Temperature	-40ºC to +155ºC
Solderability	260ºC for 5 s
Weight	4g, 8g

* *Values can change due to the switching frequency, desired reliability levels, environmental conditions and in-rush load levels. It is recommended to test actual load conditions for the application. It is the user's responsibility to determine the performance suitability for their specific application. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.*

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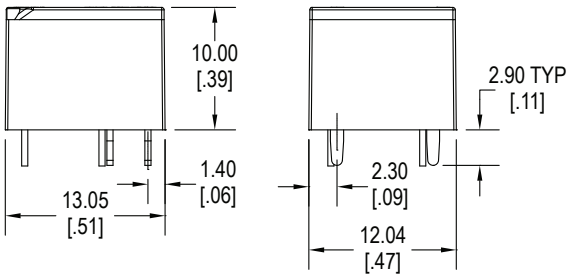
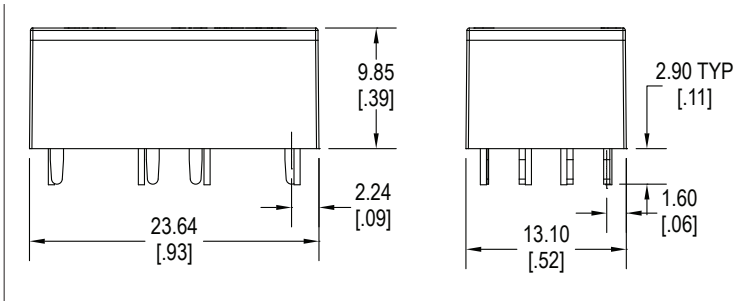
Ordering Information

1. Series A10	A10	1C	S	12VDC
2. Contact Arrangement 1A = SPST N.O. 1C = SPDT 2A = (2) SPST N.O. 2C = (2) SPDT				
3. Sealing Option S = Sealed				
4. Coil Voltage 5VDC 9VDC 10VDC 12VDC 24VDC				

Dimensions

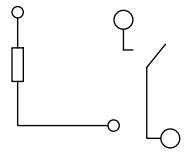
Units = mm



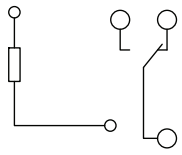


Schematics & PC Layouts

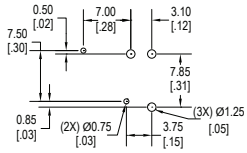
Bottom Views

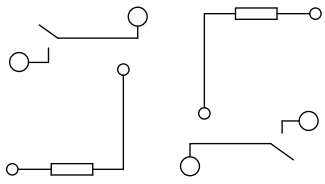


1A

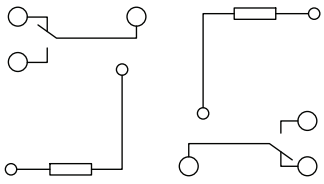


1C





2A



2C