

CIT Relay & Switch

A6

25.5 x 15.0 x 25.2 mm

Features

- Low coil power consumption
- Small size and light weight
- Switching current up to 35A
- Suitable for household appliances, automotive applications
- 1A & 1C contact configurations available

RoHS COMPLIANT

Contact Data*

Contact Arrangement		1A = SPST N.O. 1C = SPDT
Contact Rating	1A	35A @ 14VDC, resistive 15A @ 28VDC, resistive
	1C	35A @ 14VDC, resistive, NO 25A @ 14VDC, resistive, NC 15A @ 28VDC, resistive, NO 10A @ 28VDC, resistive, NC

Contact Resistance	< 50 milliohms initial
Contact Material	$AgSnO_2$
Maximum Switching Power	560W
Maximum Switching Voltage	75VDC
Maximum Switching Current	35A

Coil Data*

Coil Voltage VDC		Coil Resistance Ω +/- 10%		Pick Up Voltage VDC (max)	Release Voltage VDC (min)	Coil Power W	Operate Time ms	Release Time ms
Rated	Max	.9W	1.3W	60% of rated voltage	10% of rated voltage			
12	15.6	160	109	7.2	1.2	.9 1.3	5	2
24	31.2	640	436	14.4	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	100m/s² for 11 ms
Vibration Resistance	1.27mm double amplitude 10~40Hz
Terminal (Copper Alloy) Strength	10N
Operating Temperature	-40ºC to +125ºC
Storage Temperature	-40ºC to +155ºC
Solderability	260ºC for 5 s
Weight	21g

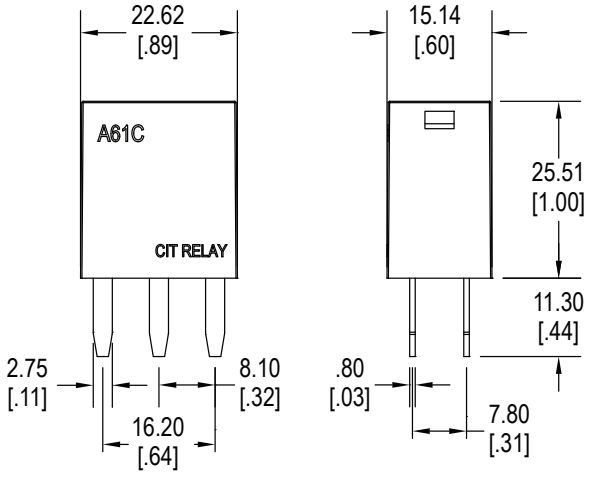
* *Values can change due to the switching frequency, desired reliability levels, environmental conditions and in-rush load levels. It is recommended to test actual load conditions for the application. It is the user's responsibility to determine the performance suitability for their specific application.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

Ordering Information

1. Series	A6	1C	S	12VDC	.9
A6					
2. Contact Arrangement 1A = SPST N.O. 1C = SPDT					
3. Sealing Option S = Sealed C = Dust Cover					
4. Coil Voltage 12VDC 24VDC					
5. Coil Power .9 = .9W 1.3 = 1.3W					
6. Coil Suppression Blank = Standard D = Diode (1N4005) Cathode on “86” terminal R = Resistor * Consult factory if other values are needed					

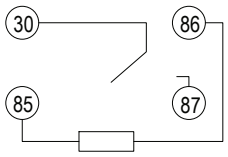
Dimensions

Units = mm

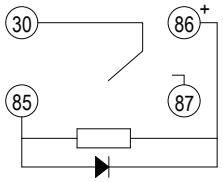


Schematics

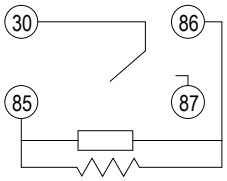
Bottom Views



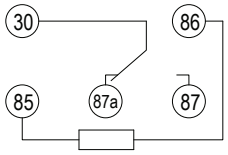
1A



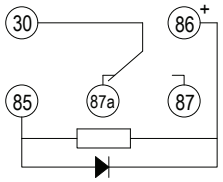
1A with Diode



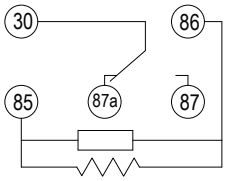
1A with Resistor



1C



1C with Diode



1C with Resistor

PC Layout

Bottom View

