



28.5 x 28.5 x 26.5 (40.0) mm

Features

- Large switching capacity up to 80A
- PCB pin and quick connect mounting available
- Suitable for automobile and lamp accessories
- QS-9000, ISO-9002 Certified Manufacturing

Contact Data

Contact		1A = SPST N.O.		
Arrangement		1B = SPST N.C.		
		1C = SPDT		
		1U = SPST N.O. (2 terminals)		
Contact Rating		Standard	Heavy Duty	
	1A	60A @ 14VDC	80A @ 14VDC	
	1B	40A @ 14VDC	70A @ 14VDC	
	1C	60A @ 14VDC N.O.	80A @ 14VDC N.O.	
		40A @ 14VDC N.C.	70A @ 14VDC N.C.	
	1U	2x25A @ 14VDC	2x25@ 14VDC	

Contact Resistance	< 30 milliohms initial		
Contact Material	AgSnO ₂ In ₂ O ₃		
Max Switching Power	1120W		
Max Switching Voltage	75VDC		
Max Switching Current	80A		

Coil Data

	oltage DC	Coil Resistance Ω +/- 10%	Pick Up Voltage VDC (max)	Release Voltage VDC (min)	Coil Power W	Operate Time ms	Release Time ms
Rated	Max	1.8W	70% of rated voltage	10% of rated voltage			
6	7.8	20	4.20	.6			
12	15.6	80	8.40	1.2	1.80	7	5
24	31.2	320	16.80	2.4			

General Data

Electrical Life @ rated load	100K cycles, typical		
Mechanical Life	10M cycles, typical		
Insulation Resistance	100M Ω min. @ 500VDC		
Dielectric Strength, Coil to Contact	500V rms min. @ sea level		
Contact to Contact	500V rms min. @ sea level		
Shock Resistance	147m/s ² for 11 ms		
Vibration Resistance	1.5mm double amplitude 10~40Hz		
Terminal (Copper Alloy) Strength	8N (quick connect), 4N (PCB pins)		
Operating Temperature	-40°C to +125°C		
Storage Temperature	-40°C to +155°C		
Solderability	260°C for 5 s		
Weight	46g		

Caution

1. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.

Dimensions shown in mm. Dimensions are shown for reference purposes only.

Specifications and availability subject to change without notice

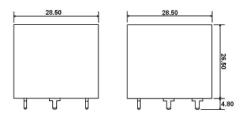
RELAY & SWITCHTM

Ordering Information

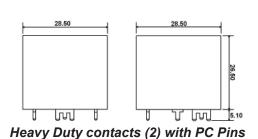
1. Series A3F 1C S Q 24VDC A3 standard A3F with mounting flange A3M with metal bracket 2. Contact Arrangement 1A = SPST N.O. 1B = SPST N.C. 1C = SPDT 1U = SPST N.O. *only available with standard contacts 3. Sealing Option S = Sealed *Sealing only available with heavy duty contacts C = Dust Cover 4. Termination P = PCB Pins Q = Quick Connect 5. Coil Voltage 6VDC 12VDC 24VDC 6. Contacts 1 = Standard *Sockets for thes modes can be found on the CIT Relay Socket catalog page 2 = Heavy Duty *We recommend the PR series socket from Custom Connector Corporation 7. Coil Suppression Blank = Standard D = Diode (1N4005) Cathode on "86" terminal R = Resistor (180 Ω for 6VDC; 680 Ω for 12VDC; 2700 Ω for 2VDC) 2D = 2 Diodes (1N4005)DR = Diode & Resistor Cathode on "86" terminal (1N4005 & 180Ω for 6VDC; 680Ω for 12VDC; 2700Ω for 2VDC) ** Consult factory if other values are needed

Dimensions A3

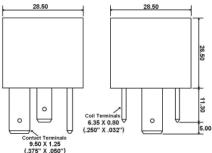
Units = mm



Standard contacts (1) with PC Pin



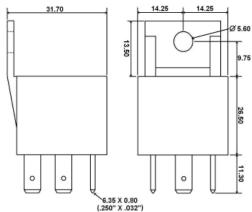
Standard contacts (1) with Quick Connect



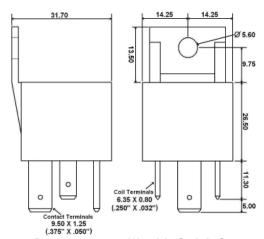
Heavy Duty contacts (2) with Quick Connects

Dimensions A3F

Units = mm



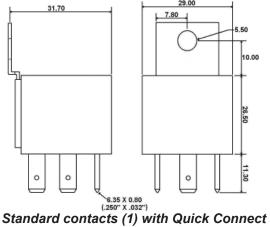
Standard contacts (1) with Quick Connect

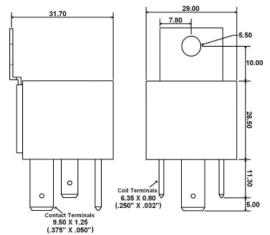


Heavy Duty contacts (2) with Quick Connects

Dimensions A3M



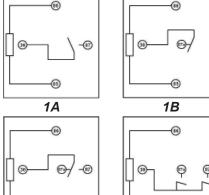




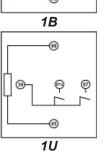
Heavy Duty contacts (2) with Quick Connects

Schematics, PC Pin Dimensions & PC Layouts

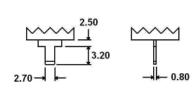
Bottom Views

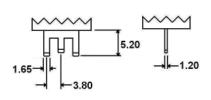


1C www.citrelay.com phone - 763.535.2339

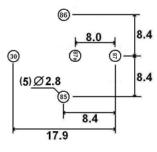


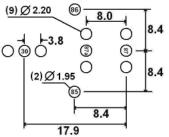
fax - 763.535.2194





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