

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*

	Coil Voltage VDCCoil Resistance Ω +/- 10%		Pick Up Voltage VDC (max) 70% of rated	Release Voltage VDC (min)	Coil Power W	Operate Time ms	Release Time ms	
Rated	Max	1.8W	voltage	10% of rated voltage				
12	15.6	80	8.4	1.2	1.0	7	5	
24	31.2	320	16.8	2.4	1.8			

General Data*

	4001/		
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	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		

^{*} 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.



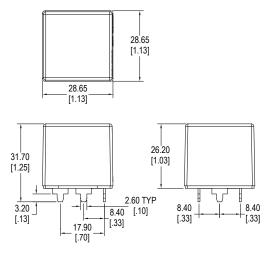


Ordering Information

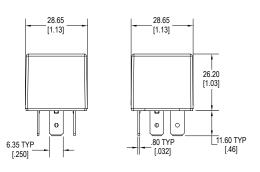
1. Series	A3F	1C	S	Q	24VDC	2	
A3 standard A3F with mount A3M with metal							
2. Contact Arrange 1A = SPST N.O. 1B = SPST N.C. 1C = SPDT 1U = SPST N.O		standard contacts					
3. Sealing Option S = Sealed *Sea C = Dust Cover	aling only available w	ith heavy duty conta	icts				
4. Termination P = PCB Pins Q = Quick Conn	ect						
5. Coil Voltage 12VDC 24VDC							
 6. Contacts 1 = Standard *Sockets for these models can be found on the CIT Relay Socket catalog page 2 = Heavy Duty *We recommend the PR series socket from Custom Connector Corporation 							
R = Resistor (18		Ω for 12VDC; 270	0Ω for 24VDC)				

Dimensions - A3





Standard contacts (1) with PC Pin

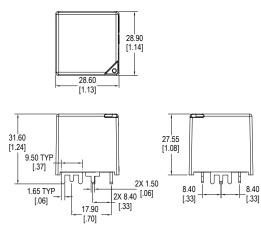


Standard contacts (1) with Quick Connect



Dimensions - A3 Heavy Duty

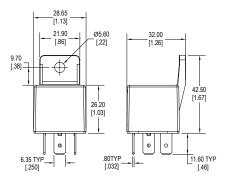
Units = mm



Heavy Duty contacts (2) with PC Pins

Dimensions - A3F

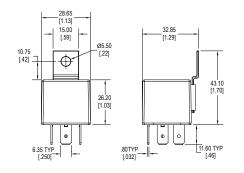
Units = mm



Standard contacts (1) with Quick Connect

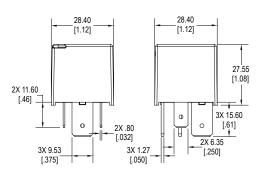
Dimensions - A3M

Units = mm

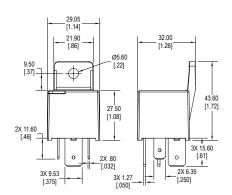


Standard contacts (1) with Quick Connect

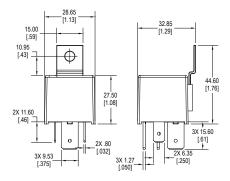
20550 Commerce Blvd, Rogers, MN 55374 USA Sales (763) 535-2339 Dimensions are shown for reference purposes only. A3 Rev B 10/2022



Heavy Duty contacts (2) with Quick Connects



Heavy Duty contacts (2) with Quick Connects



Heavy Duty contacts (2) with Quick Connects



Schematics & PC Layouts

