

10 Amp Subminiature PCB Power Relay PC835



FEATURES

- 10 Amp continuous contact capacity
- 1 Form A & 1 form C contact forms
- Smallest 10 Amp relay
- Class "B" insulation standard
- Sensitive version available
- 3.5 Kv dielectric between coil and contacts
- Sealed, immersion cleanable
- Lead Free & RoHS Compliant

File # E93379

CONTACT RATINGS

Contact Form	1 Form A or 1 Form C	
	Normally Open	Normally Closed
Max Switching Current	Make 100 Amps	Make 30 Amps
	Break 60 Amps	Break 30 Amps
Max. Switching Voltage	16 VDC	16 VDC
Max. Continuous Current	45 Amps	30 Amps
Minimum Load	0.5 A @ 12 VDC	

CONTACT DATA

Material	AgSnOInO (Silver Tin Oxide Indium Oxide) AgCdO (Silver Cadmium Oxide)	
Initial Contact Resistance	100 milliohms max @ 0.1A, 6VDC	
Service Life	Mechanical	1 X 10 ⁷ Operations
	Electrical	2 X 10 ⁵ Operations

CHARACTERISTICS

Operate Time	5 ms. typical
Release Time	3 ms. typical
Insulation Resistance	100 megohms min, at 500VDC, 50%RH
Dielectric Strength	750 Vrms, 1 min. between coil and contacts
Shock Resistance	20 g, 11ms, functional; 200 g, destructive
Vibration Resistance	DA 1.27 mm, 10 - 40 Hz functional
Drop Resistance	1 Meter height drop on concrete in final enclosure
Power Consumption	1.6 W approx.
Ambient Temperature Range	-40 to 125 degrees C operating, -40 to 155 storage
Weight	Open: 19 grams; Enclosed: 21 grams approx.

ORDERING INFORMATION

Example:	PC835	-1C	-12	S	F	-H	-X
Model:	PC835						
Contact Form:	1A, 1C						
Coil Voltage:	3, 5, 6, 9, 12, 18(See Note), 24						
Enclosure:	S: Sealed Case; C: Flux Free						
Insulation System:	Nil: UL Class B (125 degrees C), F: Class F (155 degrees C)						
Coil Sensitivity:	Nil: Standard .45W, H: Sensitive .2W						
RoHS Compliant:	-X						

Box Quantity: 2,000; Inner Box: 1,000

Note 18V Coil Available In 1A Only

Coil Voltage	Resistance ohms \pm 10%		Must Operate Voltage Max. (VDC)	Must Release Voltage Min. (VDC)		
	Standard Coil	Sensitive Coil				
3	20	0.45 W	45	0.20 W	2.25	0.15
5	56		125		3.75	0.25
6	80		180		4.50	0.30
9	180		400		6.75	0.45
12	320		720		9.00	0.60
18 (N)	720		1620		13.50	0.90
24	1280		2800		18.00	1.20
48	5100		Not Available		36.00	2.40

Note N: 18V Coil Only Available In Form 1A

Dimensions in Inches (millimeters)

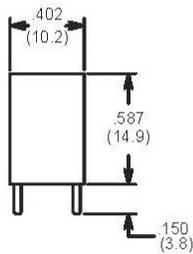
1 FORM A

1 FORM C

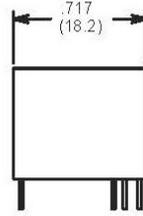
Side View



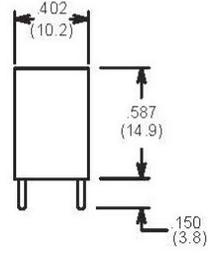
End View



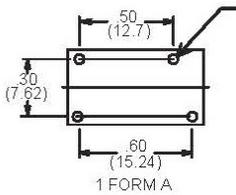
Side View



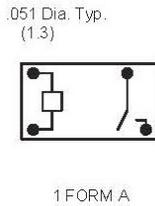
End View



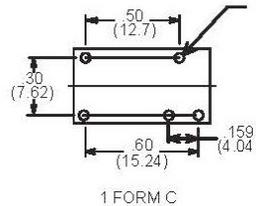
Bottom View
PC Board Layout



Wiring Diagram



Bottom View
PC Board Layout



Wiring Diagram

