

2X20 Amp Automotive Twin PCB Relay

PC617



Features

- 2X20 Amp continuous current capacity
- Up to 60 amps switching capacity
- Six different contact forms
- Two different contact materials available
- Designed for high inrush applications
- UL Class F insulation standard
- Dust cover or sealed version available
- See PC517 For Single Version
- RoHS Compliant

CONTACT RATINGS @ 14 VDC Per Relay

Form		1 Form A	1 Form B	1 Form C (DPDT)		1 Form U	1 Form V	1 Form W	
		(SPST NO)	(SPST NO)	NO	NC	(SPST-NO-DM)	(SPST-NC-DM)	NO	NC
Max Switching Current	Make	60 Amps	15 Amps	60 Amps	15 Amps	2 x 40 Amps	2 x 15 Amps	2 x 40 Amps	2 x 15 Amps
	Motor	20 Amps	15 Amps	20 Amps	15 Amps	2 x 20 Amps	2 x 15 Amps	2 x 20 Amps	2 x 15 Amps
Max Continuous Current		20 Amps	15 Amps	20 Amps	15 Amps	2 x 20 Amps	2 x 15 Amps	2 x 20 Amps	2 x 15 Amps
Minimum Load		100 mA @ 6 VDC							
Max Switching Power/Voltage		1C: 280 W, 200 VA		1W: 2x280 W, 2x200 VA					

Note: At 28 VDC (24 V Coil) Ratings Are All 50% of 14 VDC Ratings

CONTACT DATA

Material		AgNiO 15 (Silver Nickel Oxide 15%), AgSnOInO (Silver Tin Oxide Indium Oxide)
Initial Contact Resistance		50 milliohms max @ 0.1A, 6VDC
Service Life	Mechanical	1 X 10 ⁷ Operations
	Electrical	1 x 10 ⁶ Operations

CHARACTERISTICS

Operate Time	10 ms. Max; 3 ms. Typical
Release Time	5 ms Max; 1.5 ms. Typical
Insulation Resistance	100 megohms min, at 500VDC , 50% RH
Dielectric Strength	1,500 Vrms, 1 min. between coil and contacts
Shock Resistance	10 g, 11ms, functional; 100 g, destructive
Vibration Resistance	DA 1.27mm, 10-40 Hz functional
Drop Resistance	1 Meter height drop on concrete in final enclosure
Power Consumption	1.0 W, 1.2W
Ambient Temperature Range	-40°C to 105°C operating, -40°C to 155°C storage
Relative Humidity	85% (@ 40°C)
Weight	Open: 9 grams, Enclosed: 12 grams approx

ORDERING INFORMATION

Example:	PC617	-2C	-12	H	-X
Model:	PC617				
Contact Form:	2C: 2 X 1C (H-Bridge)				
Coil Voltage:	12, 12H				
Coil Power:	Nil: 0.64 W; H: Sensitive 0.80 W				
Insulation System:	Nil: Class F (155C), B: Class B (130C)				
RoHS Compliant:	-X				

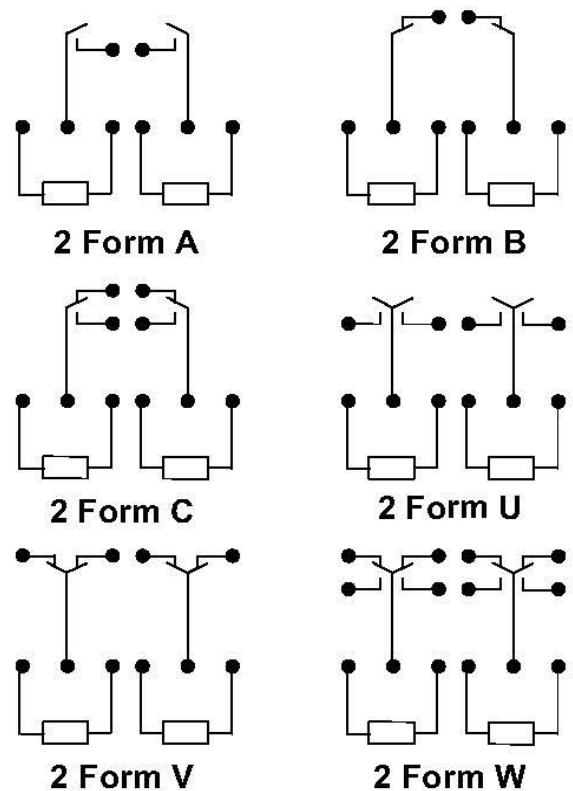
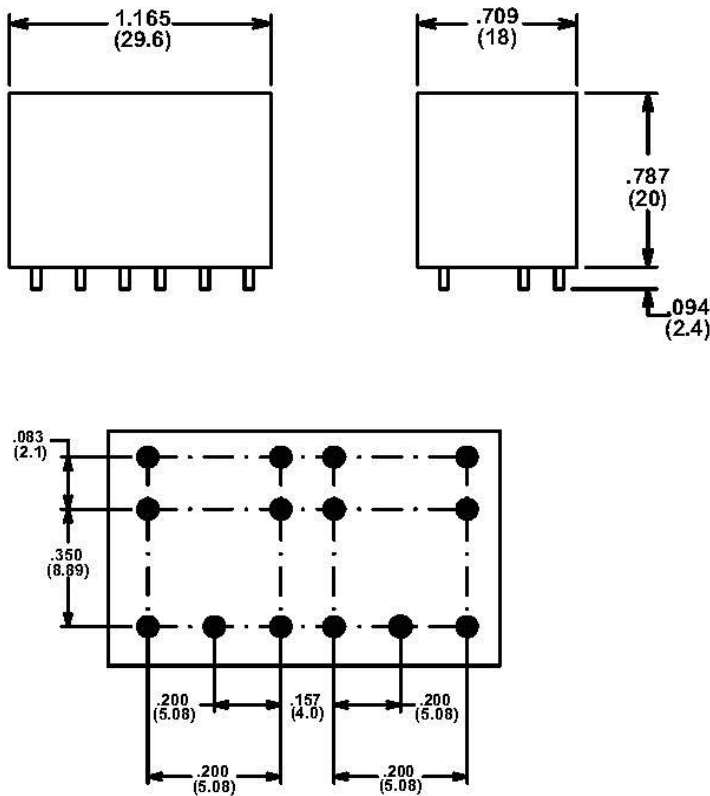
Box Quantity: 2,000; Inner Box: 1,000

COIL DATA

Coil Voltage (VDC)		Coil Resistance $\Omega \pm 10\%$	Must Operate Voltage Max. (VDC)		Must Release Voltage Min. (VDC)		Coil Power (W)
Rated	Max.		A, B, C, U, V	W	B, V	A, C, U, W	
6	7.8	36X2	3.75	4.5	0.35	0.7	1.0X2
12	15.6	145X2	7.50	9.0	0.70	1.4	
24	31.2	576X2	15.0	18.0	1.40	2.8	

The use of any coil voltage less than the rated voltage will compromise the operation of the relays.
 Must Operate Voltage is listed for test purposes only and is not to be used as design criteria.
 Pickup and release voltages are for test purposes only and are not to be used as design criteria.

Dimensions in Inches (millimeters) drawings are 2 X scale



REFERENCE CURVES

