

10 Amp & 20 Amp Subminiature PCB Relay



FEATURES

- Subminiature Design
- 10 Amps at 120 VAC, 20 Amps at 14 VDC
- 1/2 HP at 125 VAC
- TV-5 Rating
- Designed for Automotive and Power Applications
- RoHS Compliant

UL / CUL Ratings



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Contact Form	1 Form C			
Contact Form	NO	NC		
Contact Rating	20 A @ 14 VDC	10 A @ 14 VDC		
Resistive Load	10 A @ 120 VAC			
Motor Load	1/2 HP 125 VAC			
TV Rating (25K Cycles)	TV-5 (50 A Inrush Current a 120 VAC)			
Minimum Load	0.1 A @ 12 VDC			

CROSS REFERENCE

Fujitsu: FBR51, FBR52 Series		
Example: FBR52ND12-W1 Crosses to PC236-12S-X		
Panasonic: JJ-M and CQ1 Series		
Example: JJM1-12V Crosses to PC236-12S-X		
Song Chuan: 895 series		
Example: 895-2A-S-12VDC Crosses to PC236-12S-X		
American Zettler: AZ9471 series		
Example: AZ9471–1C–12DEA Crosses to PC236-12S-X		

****** FOR AUTOMOTIVE APPLICATIONS******

CONTACT RATINGS 14 VDC at 25°C

CONTACT NATINGS 14 VDC at 25 C				
Comboot Forms	1 Form A 1 Form C			
Contact Form	NO	NO	NC	
Man On italian On and	Make 90 A	Make 60 A	Make 45 A	
Max Switching Current	Break 30 A	Break 20 A	Break 15 A	
Max Continuous Current	30 A @ 25° C	20 A @ 25° C	15 A @ 25° C	
Max Continuous Current	22.5 A @ 85° C	15 A @ 85° C	11.3 A@ 85° C	
Max Continuous Current 1 Form U	2 X 10 Amps			
Max. Switching Power	420 W 1,250 VA			
Max. Switching Voltage	42 VDC 380 VAC			
Minimum Load	0.1 A @ 12 VDC			

CONTACT RATINGS 28 VDC at 25°C

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Contact Form	1 Form A	1 Form C			
Contact Form	NO	NO	NC		
Max Switching Current	Make 45 A	Make 30 A	Make 22.5 A		
wax Switching Current	Break 15A	Break 10 A	Break 7.5 A		
Max Continuous Current	15A @ 25° C	10 A @ 25° C	7.5 A @ 25° C		
	11.3 A @ 85° C	7.5 A @ 85° C	5.6 A@ 85° C		
Max Continuous Current 1 Form U	2 X 5 Amps				
Max. Switching Power	420 W 1,250 VA				
Max. Switching Voltage	42 VDC 380 VAC				
Minimum Load	0.1 A @ 12 VDC				

ORDERING IN	FORMATION	_			_	_		
Example:	PC236	-1C	-12		S	0.8	F	-X
Model:	PC236	ĺ						
Contact Form:	1A, 1C , 1U							
Coil Voltage:	6, 9, 12, 24							
Contact Material:	Nil: AgSnO ₂ ; Cd: AgCo	Ob						
Enclosure:	S: Sealed; C: Dust Cover							
Coil Power:	Nil: 0.6 W; 0.8: 0.8 W							
Insulation System:	Nil: Class B (125°C); F	: Class F	(155°C)					
RoHS Compliant:	-X							

Box Quantity 2000: Inner Box 1000



409 International Parkway, #200 Richardson, TX 75081

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(888) 997-3933

e-mail: sales@pickercomponents.com Specifications and Availability subject to change without notice.

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COIL DATA

Coil Vo	ltage	Coil Power		Must Operate	Must Release	
(VDC)				Voltage Max.	Voltage Min.	
Rated	Max	600 mW (Standard)	800 mW (Large Gap)	(VDC)	(VDC)	
6	6.6	60	45	4.5	0.30	
9	9.9	135	100	7.2	0.45	
12	13.2	240	180	9.6	0.60	
24	26.4	960	720	19.2	1.20	

NOTES:

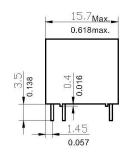
The use of any coil voltage less than the rated voltage will compromise the operation of the relays. Must Operate Voltage is listed for test purposes only and is not to be used as design criteria. Pickup and release voltages are for test purposes only and are not to be used as design criteria. Dimensions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

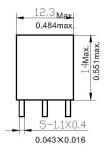
CHARACTERISTICS

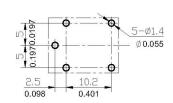
OTTO TO TELLIO	
Operate Time	10 ms Max.
Release Time	5 ms Max.
Insulation Resistance	100 MΩ Min at 500VDC
Dialoctric Strongth	50Hz 500 V Between Contacts
Dielectric Strength	50Hz 500 V Between Contact and Coil
Terminal Strength	10 N
Power Consumption	0.6 W, 0.8 W
Shock Resistance	100 m/s ² 11ms
Vibration Resistance	10 Hz - 55 Hz Double Amplitude 1.5 mm
Solderability	235°C ± 2°C 3 s ± 0.5 s
Operating Temperature	- 40 to 85° C
Storage Temperature	- 40 to 100° C
Relative Humidity	85% at 20° C
Weight	6 grams

CONTACT DATA

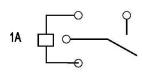
Max. Switching Power		280W 1,250 VA	
Max. Switching	Voltage	42 VDC 380 VAC	
Max. Swirching	Current	30 Amps	
Material		AgSnO ₂ , AgCdO	
Initial Contact Resistance		50 mΩ Max	
Service Life	Electrical	1 x 10 ⁵ Operations	
	Mechanical	1 x 107 Operations	

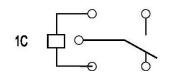




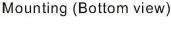


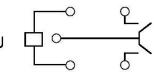
Dimensions



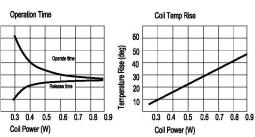


Wiring diagram (Bottomview)





CHARACTERISTIC CURVES



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