

30 Amp Micro ISO Automotive Plug In / PCB - Ignition Protected

PC782



CONTACT RATINGS 14 VDC at 25°C

Contact Form	1 Form A (SPST-NO)	1 Form C (SPDT)						
	Normally Open	Normally Open	Normally Closed					
Max Switching Current	Make 90 A (1)	Make 90 A (1)	Make 20 A (1)					
Max Switching Current	Break 30 A	Break 30 A	Break 15 A					
Max Continuous Current	35 A @ 25°C	30 A @ 25°C	20 A @ 25°C					
Max Continuous Current	25 A @ 85°C	22.5 A @ 85°C	15 A @ 85°C					
Max Switching Voltage								
Max. Switching Power	490 W 420 W							
Minimum Load	0.1A @ 12 VDC							

CHARACTERISTICS

10 msec max.
7 msec max
100 MΩ Min at 500VDC
500 V, 50 Hz Between Contacts
1,000 V, 50 Hz Between Contact and Coils
100 m/s ² 11ms
10 Hz - 40 Hz Double Amplitude 2.7 mm
8N (Plug-In type), 4N (PCB type)
1.2 W (1A SPST-NO), 1.5 W (1C SPDT)

FEATURES

- Ignition Protected* | SAE J1171 | UL 1500 | ISO 8846
- Micro Size Plug-in Design
- 1A (SPST-NO) and 1C (SPDT) Contact Forms Available
- Contact Switching Capacity up to 35 Amps
- -40°C to 125°C Operating Temperature
- PC Board Version Available
- See SC782 for Available Sockets
- Internal Diodes or Resistors Available
- RoHS Compliant
- Fully Automated Assembly

CONTACT RATINGS 28 VDC at 25°C

Contact Form	1 Form A (SPST-NO)		1 Form C (SPDT)		
	Normally Open	Normally Open	Normally Closed		
Max Switching Current	Make 45 A ⁽¹⁾	Make 45 A ⁽¹⁾	Make 10 A ⁽¹⁾		
wax ownering ourrent	Break 15 A	Break 15 A	Break 7.5 A		
Max Continuous Current	17.5 A @ 25°C	15 A @ 25°C	10 A @ 25°C		
wax Continuous Current	12.5 A @ 85°C	11 A @ 85°C	7.5 A @ 85°C		
Max Switching Voltage	75 VDC				
Max. Switching Power	490 W 420 W				
Minimum Load	0.1A @ 24 VDC				

CONTACT DATA

Material		AgSnO₂		
Initial Contact Resistance		50 mΩ Max		
Service Life	Electrical	1 x 10 ⁵ Operations		
	Mechanical	1 x 10 ⁷ Operations		

CHARACTERISTICS Continued

Solderability	260°C for 5 seconds
Operating Temperature Range	- 40 to 125°C
Storage Temperature Range	- 40 to 155°C
Weight	18.5 grams

(1) With current load applied for a maximum of 3 seconds at a maximum duty cycle of 10%.

ORDERING INFORMATION

Example:	PC782	-1C	-P	-12	S	-R	-X
Model:	PC782						
Contact Form:	1A : 1 Form A (SPST- 1C : 1 Form C (SPDT)						
Mounting Version:	Nil: Plug-In; P: PCB		•				
Coil Voltage:	6: 6 VDC; 12: 12 VD	C; 24: 24 \	VDC; 48: 4	18 VDC			
Enclosure:	C: Dust Cover, S: Se	aled*, S1 :	Flux Tigh	t (2)	•		
Parallel Component:	Nil: None; D: Diode,	:R Resist	or			•	
RoHS Compliant:	-X	•		•	•	•	="

(2) Flux Tight relays are constructed such that Flux will not enter the relay in an automated process, the are NOT suitable for water wash cleaning

Box Quantity: 1,000; Inner Box: 500

*Sealed "S" enclosures with 6,12 or 24 VDC, 1.2 or 1.5 Watt Coil Versions are Ignition Protected



409 International Parkway, #200 Richardson, TX 75081

Sales: (972) 713-6272 (888) 997-3933

or a Dual Diode

www.PickerComponents.com

*Contact Picker if You Require the Opposite Polarity

See SC782 for Available Sockets

Coil Options

6V - 180 ohm 12V - 680 ohm 24V - 2,700 ohm Diode: 1N4005 Orientation of Optional Diode

Resistor Values (1/4 Watt):

e-mail: sales@pickercomponents.com

Cathode

Dimensions are listed for reference purposes only. PC782 Rev Q 6/19/2019

1 of 3

Specifications and Availability subject to change without notice

COIL DATA

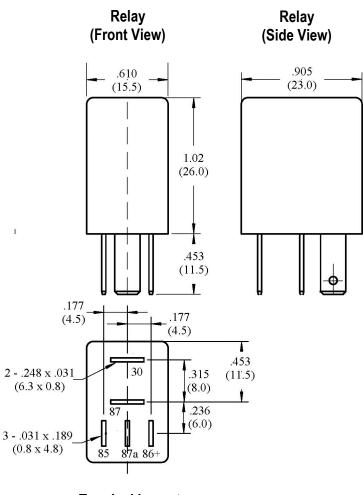
Operate Release Value		Resistor	Coil Resistance (Ohms ± 10%)				Rated Current (mA)					
			Values	Without Resistor		With Resistor		Without Resistor		With Resistor		
	Voltage Voltage Max Min.	(Ohms ±	1.2 W 1A	1.5 W 1C	1.2 W 1A	1.5 W 1C	1.2 W 1A	1.5 W 1C	1.2 W 1A	1.5 W 1C		
Rated Max	Max	(VDC) (3)	(VDC) (3)	10%)	(SPST - NO)	(SPDT)	(SPST - NO)	(SPDT)	(SPST - NO)	(SPDT)	(SPST - NO)	(SPDT)
6	7.8	4.2	0.6	180	30	24	26	21	200	250	231	286
12	15.6	8.4	1.2	680	120	96	102	84	100	125	118	143
24	31.2	16.8	2.4	2700	480	384	408	336	50	63	59	71
48	62.4	33.6	4.8	10000	1,920	1,536	1611	1331	25	31	30	36

NOTES:

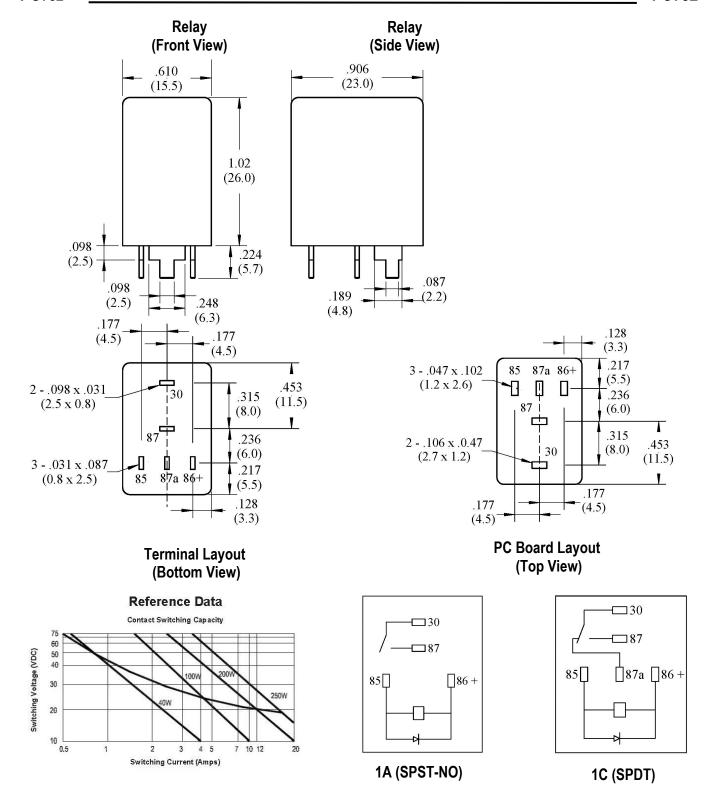
(2)The use of any coil voltage less that the rated voltage will compromise the operation of the relays.

(3)Must Operate Voltage and Must Release Voltages are for test purposes only and are not to be used as design criteria.

DIMENSIONS (mm/inches)



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Wiring Diagrams Internal Diode Shown for Example Only

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