

Miniature 12 & 20 Amp General Purpose Relay

PC128





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Load Type	Voltage	1 Form C (SPDT)	2 Form C (DPDT)		
General Purpose	250 VAC 30 VDC	12 A 12 A	8 A 8 A		
Motor	240 VAC	1/3 HP	1/6 HP		
Max. Switching Power		3,000 VA 360 W	2,000 VA 240 W		

CHARACTERISTICS

Operate Time	20 ms Max
Release Time	10 ms Max
Insulation Resistance	1,000 MΩ min (at 500 VDC)
	5,000 Vrms, 1 min. Between Coil and Contacts
Dielectric Strength	1,000 Vrms, 1 min. Between Open Contacts
	3,000 Vrms, 1 min. Between Contacts Poles
Shock Resistance	10 G

FEATURES

- 1 Pole: 12 Amp 250VAC/30VDC UL Rating
- 2 Pole: 8 Amp 250VAC/30VDC UL Rating
- Slim and Compact Size 12.8mm Wide
- AC or DC Coils
- Test Button is Colored Coded AC=Red, DC=Blue
- Optional Lockable Test Button
- Optional Bi-Directional LED
- **RoHS Compliant**
- Several Variations of DIN Rail and PCB Sockets Available
- Socket Modules, ID Tags and Slip also Available

CONTACT DATA

Material		AgCdO (Silver Cadmium Oxide)	
Initial Contact Resistance		50 milliohms max	
Consider Life	Mechanical	1 X 10 ⁷ Operations	
Service Life	Electrical	1 X 10 ⁵ Operations	

CHARACTERISTICS CONTINUED

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Power Consumption	1 & 2 Pole DC 0.53 W, AC 1.0 VA	
Vibration Resistance	10 Hz - 55 Hz DA 1.0 mm	
Terminal Strength	8N; 4N PC Type	
Solderability	260°C for 5 seconds	
Operating Temperature	-40 to 55 °C	
Relative Humidity	85% (at 30°C)	
Weight	20 grams	

ORDERING INFORMATION

Example	PC128	-2C	-24A		-LT	-X
Model:	PC128					
Contact Form:	1C: 1C SPDT, 2C: 2C DPDT	•				
Case Type:	Nil: Standard, C3: Top Flange					
Coil:	XXXA : AC Coils 6, 12, 24, 36, 48, 115, 220, 2 XXXD : DC Coils 6, 9, 12, 24, 36, 48, 110 VDC		80 VAC (50/60 Hz)			
Contacts:	Nil: Silver Alloy G: Gold Clad Silver Alloy			<u> </u>		
Options:	Without Test Button: L: LED, D: Diode, LD: LED + Diode (1-, 5+, 1) With Test Button: LT: LED, LTD: LED + Diode (1-, 5+, 1-, 8+), L		,	,	_	
RoHS Compliant:	X: RoHS Compliant					<u>.</u> II

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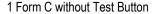
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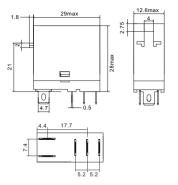
Voltage Type	Coil V	oltage	Resistance Ohms	Must Operate Voltage Max.	Must Release Voltage Min.
Coil Power	Rated	Max	± 10%	(VDC)	(VDC)
	6	6.6	68	4.5	0.6
	9	9.9	150	6.75	0.9
	12	13.2	270	9	1.2
DC 0.53 W	24	26.4	1,100	18	2.4
0.55 W	36	39.6	2,440	27	3.6
	48	52.8	4,300	36	4.8
	110	121	22,800	82.5	11
	6	6.6	16	4.8	1.8
	12	13.2	63	9.6	3.6
	24	26.4	240	19.2	7.2
AC	48	52.8	1,085	38.4	14.4
1.0 VA	115	126.5	6,300	92	34.5
	220	242	21,000	176	66
	230	253	23,000	184	69
	240	264	25,000	192	72

NOTES:

- The use of any coil voltage less that 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.

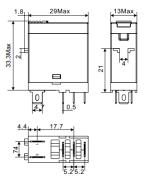
DIMENSIONS (mm/inches)



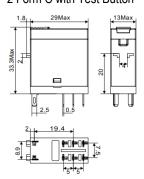


2 Form C without Test Button

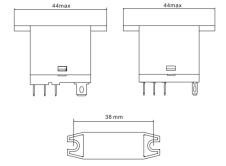
1 Form C with Test Button

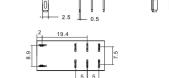


2 Form C with Test Button



Top Flange Dimension



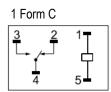


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Dimensions are listed for reference purposes only.

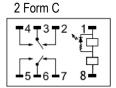
Wiring Diagrams

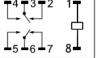




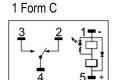
AC with LED

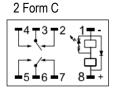
1 Form C





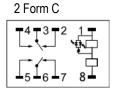
DC with LED and Diode





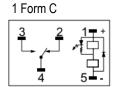
DC with LED

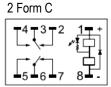
1 Form C



DC with LED and Diode, Reverse Orientation

DC switching current (A)

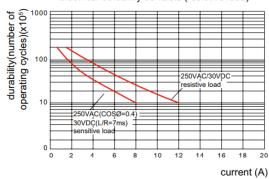


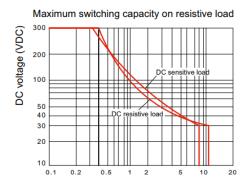


Reference Data

1 Form C

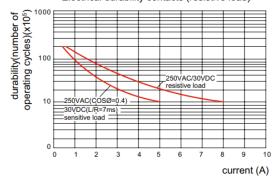
Electrical durability contacts (resistive load)

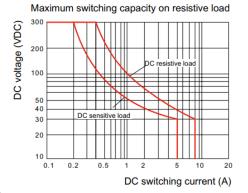




2 Form C

Electrical durability contacts (resistive load)





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Specifications and Availability subject to change without notice.

PC128 Sockets

SC128-05-SE / SC128-08-SE





10/16 AMPS 300 VOLTS



Characteristics

Туре		SC128-05-SE	SC128-08-SE
Mandad	Current	16 A	10 A
Nominal	Voltage	300 V	
Dielectric	Between Coil and Contact	4,000 V/s	
Strength	Between Contacts	2,500 V/s	
Max Tightening Torque		1.0 Nm	
Wire Size		20-14/0.5-2.5 AWG/mm ²	
Ambient Temperature		-45 to 85°C	
Unit Weight		22 g	27 g

SC128-05-SA / SC128-08-SA





10/16 AMPS 300 VOLTS



Characteristics

Туре		SC128-05-SA	SC128-08-SA		
Managara	Current	16 A	10 A		
Nominal	Voltage	300 V			
Dielectric Strength	Between Coil and Contact	4,000 V/s			
	Between Contacts	2,500 V/s			
Max Tightening Torque		1.0 Nm			
Wire Size		20-14/0.5-2.5 AWG/mm ²			
Ambient Temperature		-45 to 85°C			
Unit Weight		22 n	27 n		

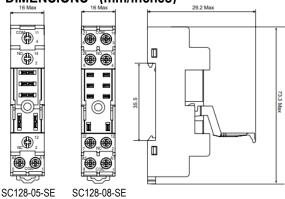


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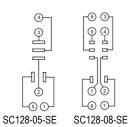
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Dimensions are listed for reference purposes only. PC128 Rev $\,$ B $\,$ 8/14/2019

DIMENSIONS (mm/inches)



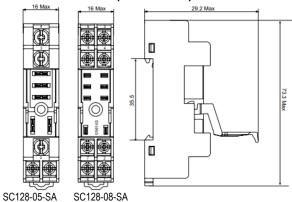
Wiring Diagrams



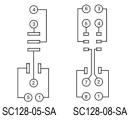
Relay Accessories

Socket	Bus Jumper	Plastic Clip	DIN Rail
SC128-1C-SE	PR08C	PR20	PFP
SC128-2C-SE	PRUOC	(Included)	FFF

DIMENSIONS (mm/inches)



Wiring Diagrams



Relay Accessories

Socket	Bus Jumper	Plastic Clip	DIN Rail
SC128-1C-SA	PR08C	PR20	PFP
SC128-2C-SA	PRUOC	(Included)	FFF

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PC128 PC128

SC128-05-SU / SC128-08-SU



10/16 AMPS 300 VOLTS



Characteristics

Туре		SC128-05-SU	SC128-08-SU
Nominal	Current	16 A	10 A
Nominai	Voltage	300 V	
Dielectric Strength	Between Coil and Contact	4,000 V/s	
	Between Contacts	2,500 V/s	
Max Tightening Torque		1.0 Nm	
Wire Size		20-14/0.5-2.5 AWG/mm ²	
Ambient Temperature		-45 to 85°C	
Unit Weight		35 g	43 g

SC128-05-PCB / SC128-08-PCB



10/16 AMPS 300 VOLTS



Characteristics

Туре		SC128-05-PCB	SC128-08-PCB
Nominal	Current	16 A 10 A	
	Voltage	300 V	
Dielectric Strength	Between Coil and Contact	4,000 V/s	
	Between Contacts	2,500 V/s	
Ambient Temperature		-45 to 85°C	
Unit Weight		4 g	



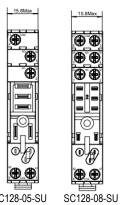
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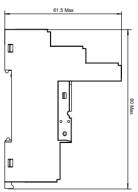
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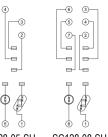
Dimensions are listed for reference purposes only.

DIMENSIONS (mm/inches)





Wiring Diagrams

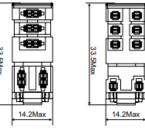


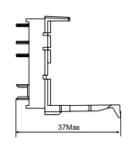
SC128-05-SU SC128-08-SU

Relay Accessories

	Socket	Bus Jumper	Plastic Clip	DIN Rail	Module	ID Tag
	SC128-1C-SE	PR08B	PR20T	PFP	PMA128	PR2P
	SC128-2C-SE					

DIMENSIONS (mm/inches)

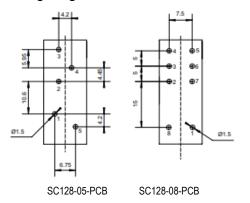




SC128-05-PCB

SC128-08-PCB

Wiring Diagrams



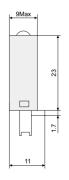
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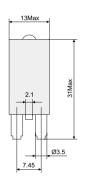
PC128 Modules

PMA128

DIMENSIONS



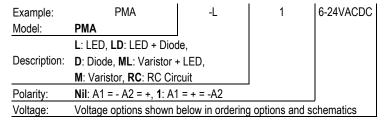




FEATURES

- Various Surge Suppressor Techniques
 - Single Diode
 - Resistor and Capacitor in Series
 - Varistor \Diamond
- Optional LED
- For Use With SC128-xx-SU Socket

ORDERING INFORMATION



EXAMPLES

PMA-L-6-24VACDC	
PMA-LD-110V240VDC	
PMA-D1-6-250VDC	

ORDERING OPTIONS AND SCHEMATICS

