

10 Amp Power Relay for Industrial Applications



CSUSE86876

Load Type	Voltage	2 Form C	3 Form C	
Resistive	250 VAC 30 VDC	10 A		
General	250 VAC 30 VDC	7 A		
Max. Switching Power		2,500 VA 300 W		

CHARACTERISTICS

Operate Time	30 ms Max
Release Time	20 ms Max
Insulation Resistance	100 MΩ min (at 500 VDC)
	2,500 Vrms, 1 min. Between Coil and Contacts
Dielectric Strength	2,500 Vrms, 1 min. Between Open Poles
	1,000 Vrms, 1 min. Between Open Contacts
Shock Resistance	100 m/s² 11 ms,

ORDERING INFORMATION

	PC180	-2C			-24A	G	-LT
Model:	PC180						
Contact Form:	2C: 2C DPDT, 3C: 3C 3PDT	-					
Terminal / Pin Type:	Nil: PC Pins in Octal Configuration	n					
	Nil: -1 (Coil pins: 2C: 2 & 7, 3C: 2	& 10)					
Wiring:	2 : 2-1 (Coil pins: 2C: 1 & 8, 3C: 1 & 11)						
	5: 5-1 (Coil pins 3C Only: 2 & 10)						
Coil:	XXXA: AC Coils 6, 12, 24, 36, 48,	115, 230	0, 240 (5	0/60 Hz)			
	XXXD : DC Coils 6, 9, 12, 24, 36, 4	48, 110, 2	220 VDC	;			
Contacto	Nil: Silver Alloy						
Contacts: G : Gold Clad Silver Alloy							
Ontiona	LT: LED + Test Button						
Options	LTD: LED + Test Button + Diode						
RoHS Compliant:	X: RoHS Compliant						

14680 James Road, Rogers, MN 55374 USA Sales: (763) 535-2339

Dimensions are listed for reference purposes only.

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FEATURES

- 10 Amp 250VAC/VDC UL Rating •
- 2 Pole or 3 Pole
 - In 1, 2-1, or 5-1 Pinouts
- AC & DC Coils Available
- Lockable Test Button is Color Coded; AC = Red, DC = Blue •
 - **Optional Bidirectional LED**
- Available with Gold Plated Contacts
- Several Variations of DIN Rail Sockets Available
- Socket Modules, ID Tags and Slip also Available
- **RoHS** Compliant

CONTACT DATA

Material		Silver Alloy	
Initial Contact Resistance		≤ 50 mΩ	
Comico Life	Mechanical	2 X 10 ⁷ Operations	
Service Life	Electrical	1 X 10 ⁵ Operations	

CHARACTERISTICS CONTINUED

Power Consumption	DC Coil 1.5 W, AV Coil 2.7 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	-10 to 55°C		
Relative Humidity	35% - 85% (at 30°C)		
Weight	85 grams		

	-24A	G	-LT	X	
(50/60 Hz) DC					

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PC180

COIL DATA

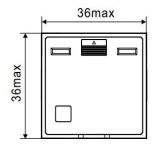
Voltage Type	Coil Voltage		Resistance	Must Operate Voltage	Must Release
Coil Power	Rated	Max	Ohms ± 10%	Max. (VDC)	Voltage Min. (VDC)
	6	6.6	23.7	4.8	0.6
	12	13.2	96	9.6	1.2
D0	24	26.4	430	19.2	2.4
DC 1.5 W	36	39.6	860	28.8	3.6
1.5 W	48	52.8	1,640	38.4	4.8
	110	121	7,360	88.0	11.0
	220	242	29,500	176.0	22.0
	6	6.6	3.9	4.8	0.6
	12	13.2	17	9.6	1.2
	24	26.4	62.5	19.2	2.4
AC	36	39.6	144	28.8	3.6
2.7 VA	48	52.8	305	38.4	4.8
	115	127	1,250	92.0	11.5
	230	253	5,900	184.0	23.0
	240	264	6,500	192.0	24.0

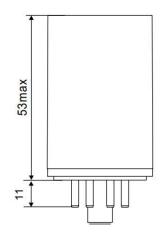
NOTES:

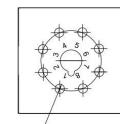
The use of any coil voltage less than the rated voltage will compromise the operation of the relays. Must Operate Voltage is listed for test purposes only and is not to be used as design criteria. Pickup and release voltages are for test purposes only and are not to be used as design criteria.

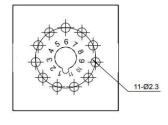
Dimensions are in mm, Inches are listed for reference only.

DIMENSIONS (mm)

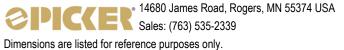








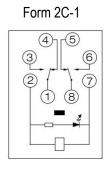
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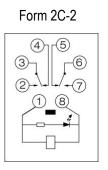


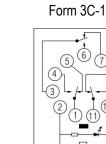
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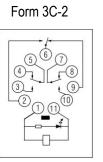
WIRING DIAGRAM



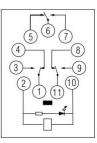




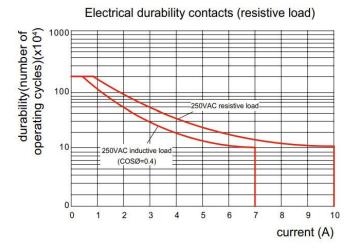
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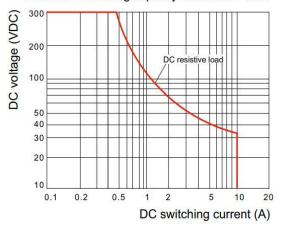
Form 3C-5



Reference Data



Maximum switching capacity on resistive load



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PC180

SOCKETS

SC180-8-DIN-SF (or 11)



12 AMPS 300 VOLTS

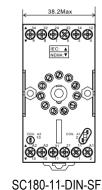


CHARACTERISTICS

Nominal	Current	12 A	
	Voltage	300 V	
Dielectric Strength		2500 V/S	
Max Tightening Torque		1 N*m	
Wire Size		20-14/0.5-2.5 AWG/mm ²	
Ambient Temperature		-40-85 °C	
Weight		50-55 g	

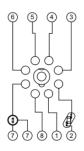
DIMENSIONS

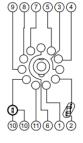




SC180-8-DIN-SF

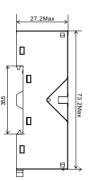
WIRING DIAGRAMS





SC180-8-DIN-SF

SC180-11-DIN-SF



SC180-8-DIN-S (or 11)



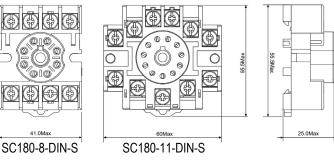
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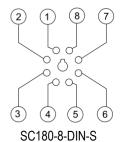
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Wire Size		20-14/0.5-2.5 AWG/mm ²	
Ambient Temperature		-40-85 °C	
Weight		37-50 g	

DIMENSIONS



WIRING DIAGRAMS



ORDERING INFORMATION

Example		SC180	-8	-DIN-SF
Model:	SC180			
Number of Pir	is: 8: 8 Pins; 11: 11 Pins			
Termination	DIN-SF: Screw Terminals	and Flange Mou	nt	
Terrination	DIN-S: Screw Terminals			

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