S7

28,5 x 12,5 x 10,1 RoHS compliant

c UL us E352915 VDE 40021923

Features

- 1 pole 10A, 1 form C (1CO) or 1 form A (1NO)
- Low profile with 12.5 height
- 5kV / 8mm dielectric strength (between coil and contact)
- UL insulation system: Class F
- Accordance with IEC60335-1 Ed.5 (optional)
- UL / CUL approved

Application Examples

- Heating control
- Air conditioner, refrigerator
- Temperature control
- Domestic appliances

Ordering Information

S7	001	A	24	W	XXXX
1	2	3	4	5	6

1. Type:	S7	4. Coil voltage:	5 = 5VDC; 6 = 6VDC; 9 = 9VDC; 12 = 12VDC; 24 = 24VDC; 48 = 48VDC;
2. Contact configuration:	100 = 1NO (1 form A) 001 = 1CO (1 form C)	5. Protection[1]:	Nil = Flux tight W = Plastic sealed
3. Contact material:	A = AgNi E = AgSnO C = AgNi + Au	6. Special:	XXXX = Special letters or numbers, e.g. 0335 stands for products in accordance to IEC60335-1 (GWT)

Note 1): If (immerged) water cleaning is required after the relay is assembled on PCB, please contact us for suggestion about suitable parts.

Contact Data

Contact Arrangement	1 form C (1CO) or 1 form A (1NO)
Contact Material	AgNi or AgSnO
Contact Rating	10A, 250VAC
Max. Switching Voltage	440VAC / 125VDC
Max. Switching Current	10A
Min. Switching Capacity	100mA/6VDC; AgNi + Au: 50mA/6VDC (Initial)
Contact Resistance	≤ 100mΩ (by voltage drop 6VDC/1A)
Electrical endurance	10^5
Mechanical endurance	10^7

Coil Rating (at 23°C)

Rated Coil Voltage	Coil Resistance	Pull-in Voltage	Drop-out Voltage	Coil Power	Max. Applied Voltage
[VDC]	R[Ω] ± 10%	[VDC]	[VDC]	[mW]	[VDC]
5	113	Max.70% of nominal voltage (Initial)	Min.10% of nominal voltage (Initial)	220	Max.100% of nominal voltage (Initial)
6	164				
9	360			230	
12	620				
18	1295			250	
24	2350				

Specification

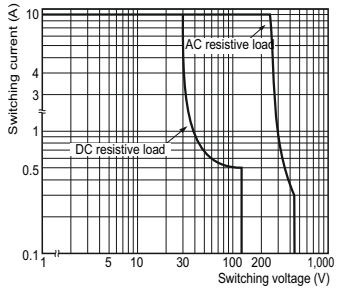
Initial Dielectric Strength	between open contacts 1000Vrms, 50/60Hz for 1 min
	between contact and coil 5000Vrms, 50/60Hz for 1 min
Environmental Protection	RTII (Flux tight) / RTIII (Sealed)
Operate Time / Release Time	Max. 10ms / Max. 5ms
Vibration Resistance (Malfunction) 10 to 55 to 10 Hz	NO: 1,65mm double amplitude
	NC: 0,8mm double amplitude (Coil de-energized)

Specification (continued)

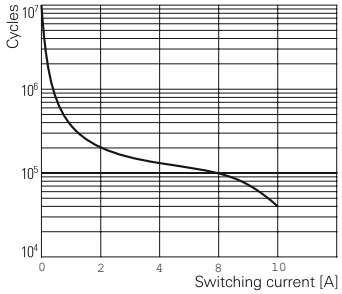
Shock Resistance (Malfunction)	Energized 98,1m/s^2, De-energized 98,1m/s^2
Ambient Operating Temperature	-40 to +85°C (without icing or condensation)
Weight	8g

Engineering Data

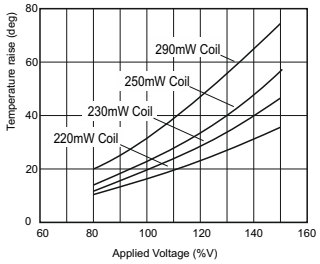
Max. switching capacity



Electrical Endurance (Pending)



Coil Temperature Rise (Pending)



Safety approvals

Approvals	UL File No. E352915	VDE File No. 40021923
S7	10A / 30VDC; 10A / 250VAC;	1CO : 8A /250VAC 1NO : 10A / 250VAC

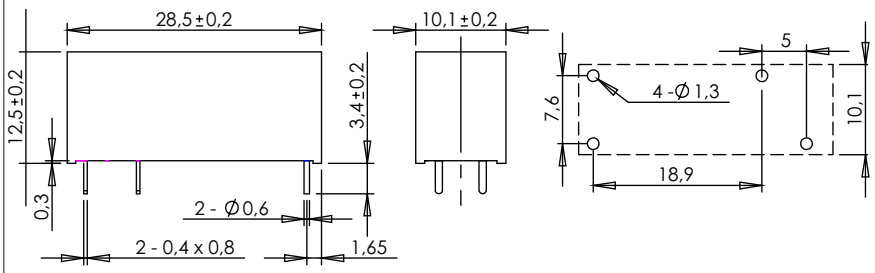
Dimensions

mm

PCB Mounting Holes
(Bottom View)
Tolerance: ±0,3mm

Wiring Diagram

S7 100A... / S7 100E... / S7 100C...



S7 001A... / S7 001E... / S7 001C..