

## Slim PCB Relay SNR

1 pole 6 A



F0140-C

### Features

- 1 C/O or 1 N/O contact
- Only 5 mm wide with 6 A switching current
- Sensitive coil 170 mW
- 4 kV coil-contact, 6 / 8 mm clearance/creepage
- N/O version with 8 / 8 mm clearance/creepage on request
- Protection class II
- Allows high function-/packing density
- Cadmium-free contacts, AgNi 90/10 for AC-loads

### Applications

Centralized and decentralized heating control, extremely narrow interface elements, interface technology, timers, PLC's, I/O modules, I/O-ports



Technical data of approved types on request

### Contact data

Configuration	1 C/O contact or 1 N/O contact	
Type of contact	single contact	
Rated current	6 A	
Rated voltage / max. breaking voltage AC	250 Vac / 440 Vac	
Maximum breaking capacity AC	1500 VA	
Contact material	AgSnO	AgSnO gold plated
Minimum contact load	≥100 mA 12 V	≥10 mA 5 V

### Contact ratings

Type	Load	Operations
SNR1,6	5 A, 250 Vac, resistive	1x10 <sup>5</sup>
SNR1,6	2 A, 250 Vac, cosφ0.4	2x10 <sup>5</sup>
SNR1,6	1 A, 24 Vdc, L / R=48 ms	2x10 <sup>5</sup>

### Coil data

Nominal voltage	5...48 Vdc
Nominal coil power	170 mW
Operate power	75 mW...95 mW
Operate category	2 / b

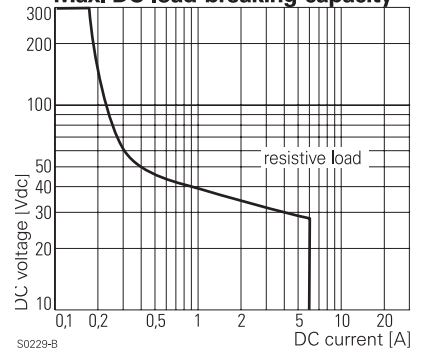
### Coil versions

Coil code	Nominal voltage Vdc	Pull-in voltage Vdc	Release voltage Vdc	Maximum voltage Vdc	Coil resistance Ω	Coil current mA
005	5	3.5	0.25	11.2	147±10%	34.0
012	12	8.4	0.6	26.8	848±10%	14.2
024	24	16.8	1.2	53.7	3390±10%	7.1
048	48	33.6	2.4	100.0	10600±15%	4.5

All figures are given for coil without preenergization, at ambient temperature +20°C

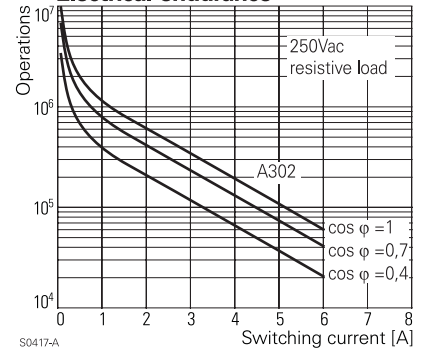
Other coil voltages on request

### Max. DC load breaking capacity



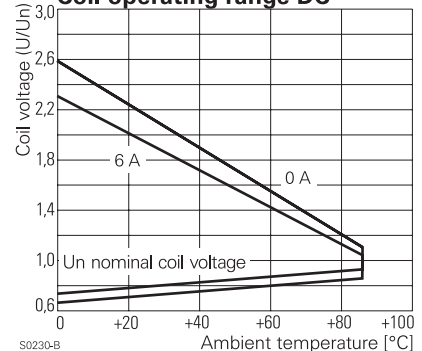
S0229-B

### Electrical endurance



S0417-A

### Coil operating range DC



S0230-B

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### Insulation

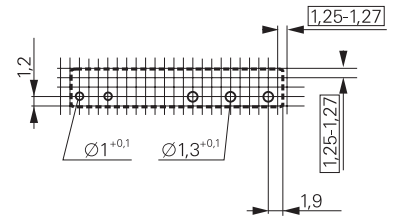
Dielectric strength	coil-contacts	4000 V <sub>rms</sub>
	open contact circuit	1000 V <sub>rms</sub>
Surge voltage resistance	coil-contacts	6000 V (1.2 / 50 μs)
Clearance / creepage (standard)		6 / 8 mm
Insulation to IEC 664/VDE 0110 (04 / 97)		
Voltage rating		250 V
Pollution degree		3
Overvoltage category		III
Insulation to VDE 0110b (2/79)		
Insulation category / reference voltage		C / 250
Tracking resistance of relay base		CTI 250

### Other data

Flammability class according to UL 94	V-0
Ambient temperature	-40...+85 °C
Mechanical life	10x10 <sup>6</sup> operations
Max. switching rate at rated- / minimum load	6 min <sup>-1</sup> / 20 s <sup>-1</sup>
Operate- / release time	5 / 2.5 ms
Bounce time N/O contact/N/C contact	1.5 / 5 ms
Category of protection (IEC 61810)	RT III - wash tight
Relay weight	6 g
Packaging unit	20 / 1000 pcs.
Accessories	see accessories SNR

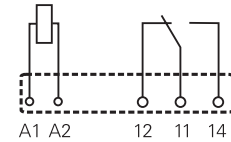
### PCB layout / terminal assignment

View on solder pins  
Dimensions in mm



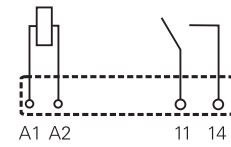
1 C/O contact

S0258-AA



S0258-AB

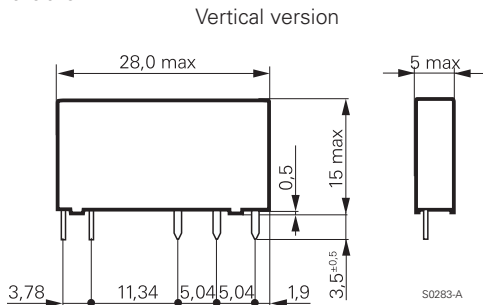
1 N/O contact



S0258-AC

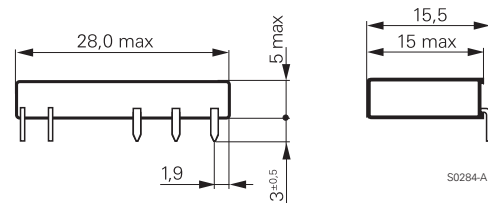
### Dimensions

Dimensions in mm



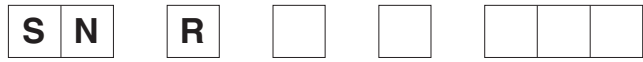
S0283-A

Flat pack version



S0284-A

### Product key



Type

**Slim PCB Relay, wash tight**

Version

0 PCB vertical version, 1 C/O contact      1 PCB vertical version, 1 N/O contact  
5 PCB flat pack version, 1 C/O contact      6 PCB flat pack version, 1 N/O contact

Contact material

3 AgSnO      7 AgSnO, gold plated      8 AgNi 90/10

Coil

Coil code: please refer to coil versions table

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