

# Slim PCB Relay SNR

1 pole 6 A



F0140-C

## Features

- 1 C/O or 1 N/O contact
- Only 5 mm wide
- 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 <sub>2</sub> gold plated	AgSnO <sub>2</sub>	AgSnO <sub>2</sub>
Minimum contact load	≥10 mA 5 V	≥100 mA 12 V	≥100 mA 12 V

## Contact ratings

Type	Load	Operations
-A302	5 A, 250 Vac, resistive	1x10 <sup>5</sup>
-A302	2 A, 250 Vac, cosφ0.4	2x10 <sup>5</sup>
-A302	1 A, 24 Vdc, L / R=48 ms	2x10 <sup>5</sup>

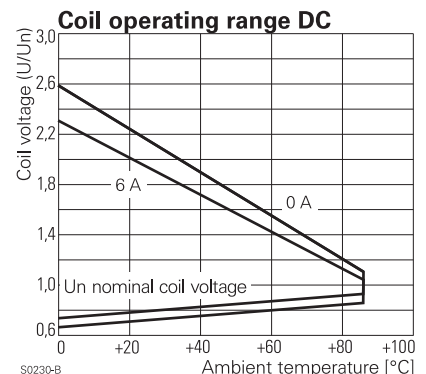
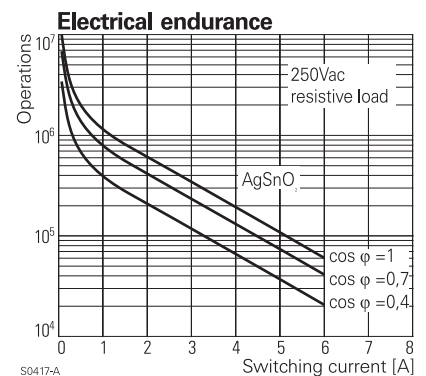
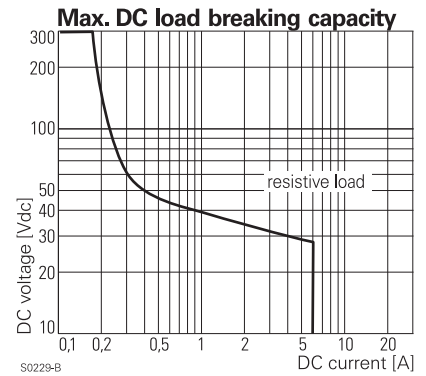
## Coil data

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



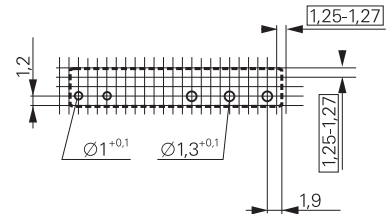
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Insulation		
Dielectric strength	coil-contacts	4000 V <sub>rms</sub>
	open contact circuit	1000 V <sub>rms</sub>
Surge voltage resistance	coil-contacts	6000 V (1.2 / 50 μs)
Clearance / creepage (standard)		6 / 8 mm
Insulation to IEC 664/VDE 0110 (04 / 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

## PCB layout / terminal assignment

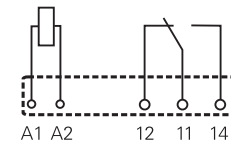
View on solder pins  
Dimensions in mm



S0258-AA

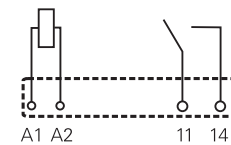
Other data	
Flammability class according to UL 94	V-0
Ambient temperature	-40...+85 °C
Mechanical life	10x10 <sup>6</sup> operations
Max. switching rate at rated- / minimum load	6 min <sup>-1</sup> / 20 s <sup>-1</sup>
Operate- / release time	5 / 2.5 ms
Bounce time N/O contact/N/C contact	1.5 / 5 ms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

1 C/O contact



S0258-AB

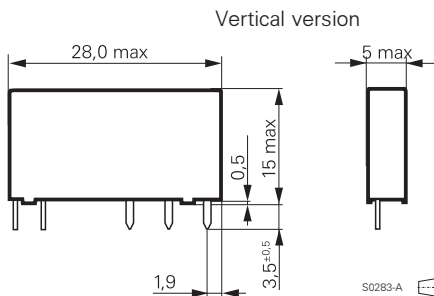
1 N/O contact



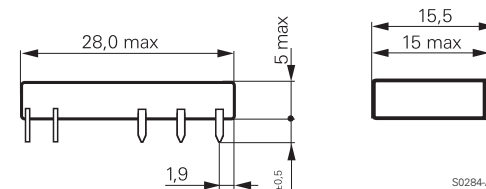
S0258-AC

## Dimensions

Dimensions in mm



Flat pack version



## Product key

V 2 3 0 9 2 - 1 - A

Type

Version

**A** PCB vertical version

**B** PCB flat pack version

Version

**1** wash tight

Coil

Coil code: please refer to coil versions table

Contact system

**A** standard

Contact material

**2** AgSnO<sub>2</sub>, gold plated

**3** AgSnO<sub>2</sub>

**8** AgNi 90/10

Contact configuration

**01** 1 C/O contact

**02** 1 N/O contact

N/O version with 8/8mm clearance and creepage and other types on request

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Product key	Version	Contacts	Contact material	Coil	Part number
V23092-A1005-A201	PCB	1 C/O contact	AgSnO, gold pl.	5 Vdc	0-1393236-1
V23092-A1005-A202	vertical version	1 N/O contact			8-1415067-1
V23092-A1005-A301	wash tight	1 C/O contact	AgSnO		0-1393236-2
V23092-A1005-A302		1 N/O contact			9-1415067-1
V23092-A1005-A801		1 C/O contact	AgNi 90/10		1-1415068-1
V23092-A1005-A802		1 N/O contact			0-1415068-1
V23092-A1012-A201		1 C/O contact	AgSnO, gold pl.	12 Vdc	0-1393236-4
V23092-A1012-A202		1 N/O contact			0-1393236-5
V23092-A1012-A301		1 C/O contact	AgSnO		0-1393236-7
V23092-A1012-A302		1 N/O contact			0-1393236-8
V23092-A1012-A801		1 C/O contact	AgNi 90/10		1-1393236-3
V23092-A1012-A802		1 N/O contact			2-1415068-1
V23092-A1024-A201		1 C/O contact	AgSnO, gold pl.	24 Vdc	2-1393236-1
V23092-A1024-A202		1 N/O contact			2-1393236-2
V23092-A1024-A301		1 C/O contact	AgSnO		2-1393236-4
V23092-A1024-A302		1 N/O contact			2-1393236-5
V23092-A1024-A801		1 C/O contact	AgNi 90/10		3-1393236-0
V23092-A1024-A802		1 N/O contact			5-1415063-1
V23092-A1048-A201		1 C/O contact	AgSnO, gold pl.	48 Vdc	3-1393236-5
V23092-A1048-A202		1 N/O contact			3-1393236-6
V23092-A1048-A301		1 C/O contact	AgSnO		3-1393236-7
V23092-A1048-A302		1 N/O contact			3-1393236-8
V23092-A1048-A801		1 C/O contact	AgNi 90/10		3-1393236-9
V23092-A1048-A802		1 N/O contact			3-1415068-1

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