

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 ₂ gold plated	AgSnO ₂	AgSnO ₂
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 ⁵
-A302	2 A, 250 Vac, cosφ0.4	2x10 ⁵
-A302	1 A, 24 Vdc, L / R=48 ms	2x10 ⁵

Coil data

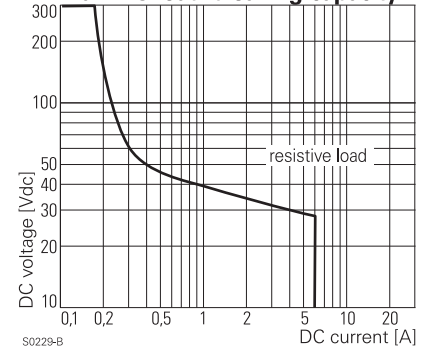
Nominal voltage	5...48 Vdc
Nominal coil power	170 mW
Operate power	75 mW...95 mW
Operate category	2 / b

Coil versions

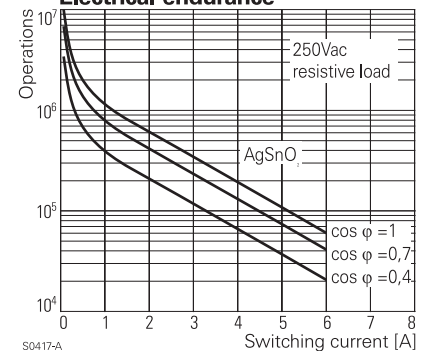
Coil code	Nominal voltage Vdc	Pull-in voltage Vdc	Release voltage Vdc	Maximum voltage Vdc	Coil resistance Ω	Coil current mA
005	5	3.5	0.25	11.2	147±10%	34.0
012	12	8.4	0.6	26.8	848±10%	14.2
024	24	16.8	1.2	53.7	3390±10%	7.1
048	48	33.6	2.4	100.0	10600±15%	4.5

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

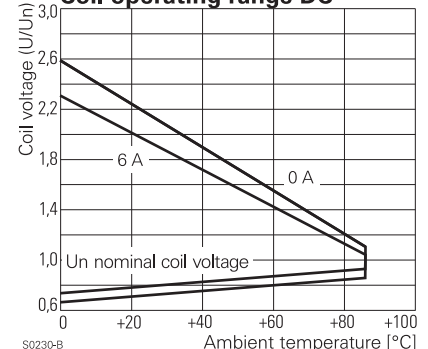
Max. DC load breaking capacity



Electrical endurance



Coil operating range DC



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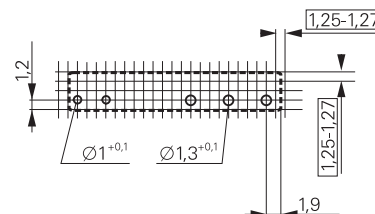
Insulation

Dielectric strength	coil-contacts	4000 V _{rms}
	open contact circuit	1000 V _{rms}
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

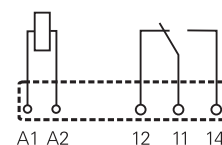


S0258-AA

Other data

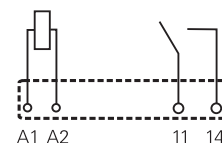
Flammability class according to UL 94	V-0
Ambient temperature	-40...+85 °C
Mechanical life	10x10 ⁶ operations
Max. switching rate at rated- / minimum load	6 min ⁻¹ / 20 s ⁻¹
Operate- / release time	5 / 2.5 ms
Bounce time N/O contact/N/C contact	1.5 / 5 ms
Category of protection (IEC 61810)	RT III - wash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

1 C/O contact



S0258-AB

1 N/O contact

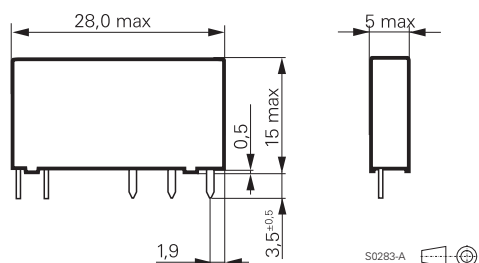


S0258-AC

Dimensions

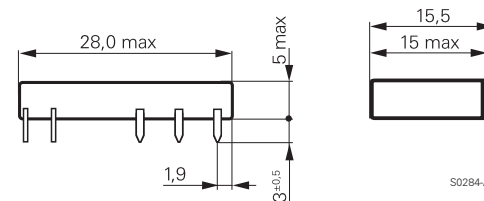
Dimensions in mm

Vertical version



S0283-A

Flat pack version



S0284-A

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 AgSnO₂, gold plated

3 AgSnO₂

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 vertical version wash tight	1 C/O contact	AgSnO, gold pl.	5 Vdc	0-1393236-1
V23092-A1005-A202		1 N/O contact			8-1415067-1
V23092-A1005-A301		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	12 Vdc	1-1415068-1
V23092-A1005-A802		1 N/O contact			0-1415068-1
V23092-A1012-A201		1 C/O contact	AgSnO, gold pl.		0-1393236-4
V23092-A1012-A202		1 N/O contact			0-1393236-5
V23092-A1012-A301		1 C/O contact	AgSnO	24 Vdc	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.	48 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.		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