

Slimline PCB Relay SNR

- 1 pole 6 A, 1 CO or 1 NO contact
- Only 5 mm wide
- Sensitive coil 170 mW
- 4 kV coil-contact, 6 / 8 mm clearance/creepage, NO version with 8 / 8 mm clearance/creepage on request
- Reinforced insulation (protection class II)
- Strong coil pins for DIN-rail socket
- 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



300

200

100

[DQ 40 30

voltage 05 a 10

stive load

Approvals

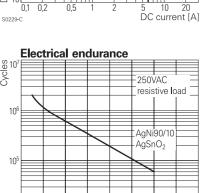
REG.-Nr. 6666, **c 71 us** E214024

Technical data of approved types on request

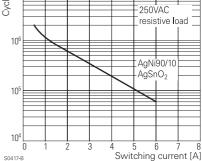
Contact data				
Contact configuration	1CO or 1NO			
Contact set	single contact			
Type of interruption	micro disconnection			
Rated voltage / max. switching voltage AC	250 / 400 VAC			
Rated current	6 A			
Maximum breaking capacity AC	1500 VA			
Limiting making capacity, max 4 s, duty factor	or 10% 10 A			
Contact material	AgSnO ₂ AgSnO ₂ A		AgNi90/10	
	-	gold plated	_	
Minimum contact load	100mA, 12V	50mW	100mA, 12V	
Rated frequency of operation with / without le	oad	6 /1200 min ⁻¹		
Operate- / release time	•	max 12 / 5 ms		
Bounce time NO / NC contact	ime NO / NC contact max 3 / 8 ms			

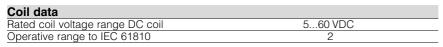
Contact	ratings

Contact	Load	Ambient	Cycles
		temp. [°C]	
CO	6 A, 250 VAC, cosφ=1	85°C	5x10 ³
NO / NC	6 A, 250 VAC, general purpose	e 85°C	6x10 ³
NO / NC	B300	85°C	6x10 ³
NO / NC	R300	85°C	6x10 ³
NO	3 A (1.5 A), 250 VAC,	85°C	100x10 ³
NO	5 A (1.5 A), 250 VAC,	85°C	10x10 ³
	CO NO / NC NO / NC NO / NC NO / NC	CO 6 A, 250 VAC, cosφ=1 NO / NC 6 A, 250 VAC, general purpose NO / NC B300 NO / NC R300 NO 3 A (1.5 A), 250 VAC,	temp. [°C] CO 6 A, 250 VAC, cosφ=1 85°C NO / NC 6 A, 250 VAC, general purpose 85°C NO / NC B300 85°C NO / NC R300 85°C NO 3 A (1.5 A), 250 VAC, 85°C



Max. DC load breaking capacity

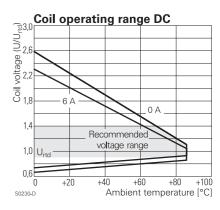




Coil versions, DC-coil

Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ohm	mW
005	5	3.5	0.25	147±10%	170
012	12	8.4	0.6	848±10%	170
024	24	16.8	1.2	3390±10%	170
048	48	33.6	2.4	10600±15%	217
060	60	42.0	3.0	20500±15%	176

All figures are given for coil without preenergization, at ambient temperature +23°C Other coil voltages on request





Slimline PCB Relay SNR (Continued)

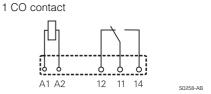
Insulation			
Dielectric strength coil-contact circuit 4000 V _{rms}			
open contact circuit	100	00 V _{rms}	
Clearance / creepage coil-contact circuit	≥ 6 / 8 mm		
Material group of insulation parts	Illa		
Tracking index of relay base	PTI 250		
Insulation to IEC 61810-1			
Type of insulation coil-contact circuit	reinforced		
open contact circuit	micro disconnection		
Rated insulation voltage	250 V		
Pollution degree	3	2	
Rated voltage system	240 V	230 / 400 V	
Overvoltage category	III		

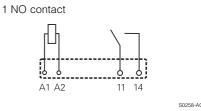
Ø1^{+0,1} Ø1,3^{+0,1}

PCB layout / terminal assignment

Bottom view on solder pins

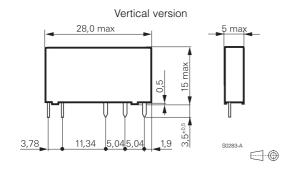
Other data Mechanical endurance 10x10⁶ cycles Material RoHS - Directive 2002/95/EC compliant as per product date code 0404 Environment Ambient temperature range -40...+85°C 10 / 5 g 10 / 5 g Vibration resistance (function) NO / NC contact Shock resistance (function) NO / NC contact Shock resistance (destruction) 30 g RTIII - wash tight Category of protection Processing Mounting pcb Mounting position any Minimum mounting distance \geq 0 mm Resistance to soldering heat1) 260°C / 5 s 6 g Relay weight Packaging unit 20 / 1000 pcs 1) for flat pack version selective soldering is recommended

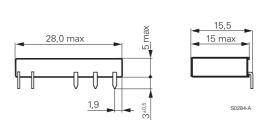




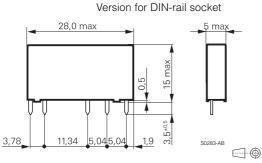
Accessories For details see datasheet Accessories SNR

Dimensions



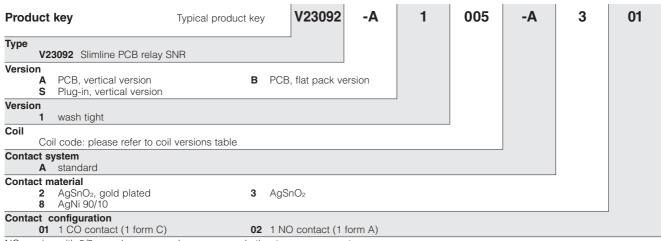


Flat pack version





Slimline PCB Relay SNR (Continued)



NO version with 8/8 mm clearance and creepage and other types on request

Product key	Version	Contacts	Contact material	Coil	Part number
V23092-A1005-A201	PCB	1 CO contact	AgSnO ₂ , gold pl.	5 VDC	1393236-1
V23092-A1005-A202	vertical version	1 NO contact			8-1415067-1
V23092-A1005-A301	wash tight	1 CO contact	AgSnO ₂		1393236-2
V23092-A1005-A302	9	1 NO contact			9-1415067-1
V23092-A1005-A801		1 CO contact	AgNi 90/10		1-1415068-1
V23092-A1005-A802		1 NO contact	Ţ Ţ		1415068-1
V23092-A1012-A201		1 CO contact	AgSnO ₂ , gold pl.	12 VDC	1393236-4
V23092-A1012-A202		1 NO contact	7		1393236-5
V23092-A1012-A301		1 CO contact	AgSnO ₂		1393236-7
V23092-A1012-A302		1 NO contact	7 ° 1		1393236-8
V23092-A1012-A801		1 CO contact	AgNi 90/10		1-1393236-3
V23092-A1012-A802		1 NO contact	7 ° '		2-1415068-1
V23092-A1024-A201		1 CO contact	AgSnO ₂ , gold pl.	24 VDC	2-1393236-1
V23092-A1024-A202		1 NO contact	7 , , , ,		2-1393236-2
V23092-A1024-A301		1 CO contact	AgSnO ₂		2-1393236-4
V23092-A1024-A302		1 NO contact	7 "		2-1393236-5
V23092-A1024-A801		1 CO contact	AgNi 90/10		3-1393236-0
V23092-A1024-A802		1 NO contact			5-1415063-1
V23092-A1048-A201		1 CO contact	AgSnO ₂ , gold pl.	48 VDC	3-1393236-5
V23092-A1048-A202		1 NO contact	7		3-1393236-6
V23092-A1048-A301		1 CO contact	AgSnO ₂		3-1393236-7
V23092-A1048-A302		1 NO contact	7 "		3-1393236-8
V23092-A1048-A801		1 CO contact	AgNi 90/10		3-1393236-9
V23092-A1048-A802		1 NO contact			3-1415068-1
V23092-S1005-A201	plug-in	1 CO contact	AgSnO ₂ , gold plated	5 VDC	1956024-9
V23092-S1005-A301	vertical version		AgSnO ₂		1-1956024-0
V23092-S1012-A201	wash tight		AgSnO ₂ , gold plated	12 VDC	1956024-1
V23092-S1012-A301	9		AgSnO ₂		1956024-2
V23092-S1024-A201			AgSnO ₂ , gold plated	24 VDC	1956024-3
V23092-S1024-A301			AgSnO ₂		1956024-4
V23092-S1048-A201			AgSnO ₂ , gold plated	48 VDC	1956024-5
V23092-S1048-A301			AgSnO ₂		1956024-6
V23092-S1060-A201			AgSnO ₂ , gold plated	60 VDC	1956024-7
V23092-S1060-A301			AgSnO ₂		1956024-8