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**



F0140-D

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

Approvals

VDE REG.-Nr. 6666, cULus 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 10%		10 A	
Contact material	$AgSnO_2$	$AgSnO_2$ gold plated	AgNi90/10
Minimum contact load	100mA, 12V	50mW	100mA, 12V
Rated frequency of operation with / without load		6 /1200 min^{-1}	
Operate- / release time		max 12 / 5 ms	
Bounce time NO / NC contact		max 3 / 8 ms	

Contact ratings

Type	Contact	Load	Ambient temp. [°C]	Cycles
IEC 61810				
V23092-*****-A301, -A801	CO	6 A, 250 VAC, cosφ=1	85°C	$5x10^3$
UL 508				
V23092-*****-A301, -A801	NO / NC	6 A, 250 VAC, general purpose	85°C	$6x10^3$
V23092-*****-A301, -A801	NO / NC	B300	85°C	$6x10^3$
V23092-*****-A301, -A801	NO / NC	R300	85°C	$6x10^3$
EN60730-1				
V23092-*****-A302	NO	3 A (1.5 A), 250 VAC,	85°C	$100x10^3$
V23092-*****-A302, -A802	NO	5 A (1.5 A), 250 VAC,	85°C	$10x10^3$

Coil data

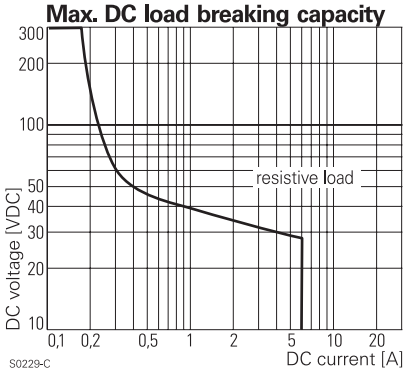
Rated coil voltage range DC coil	5...60 VDC
Operative range to IEC 61810	2

Coil versions, DC-coil

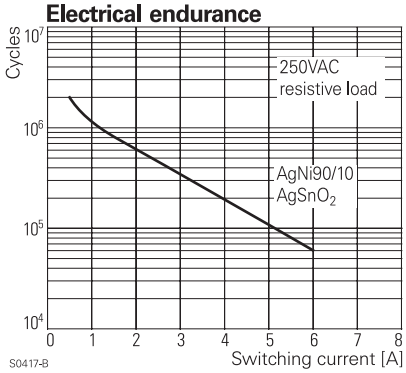
Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ohm	Rated coil power mW
005	5	3.5	0.25	147±10%	170
012	12	8.4	0.6	848±10%	170
024	24	16.8	1.2	3390±10%	170
048	48	33.6	2.4	10600±15%	217
060	60	42.0	3.0	20500±15%	176

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

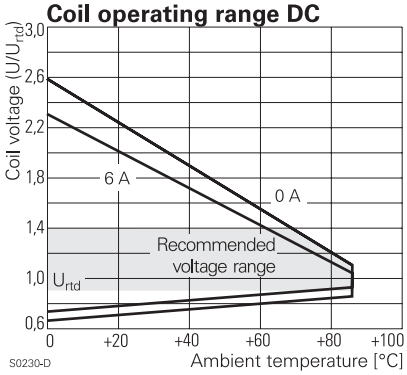
Max. DC load breaking capacity



Electrical endurance



Coil operating range DC



Datasheet Rev. IJ1
Issued 2009/10
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Specifications subject to change.

Slimline PCB Relay SNR (Continued)

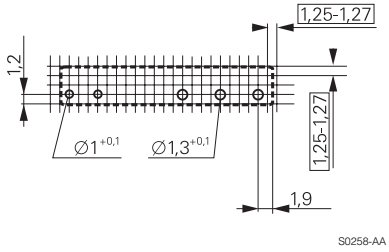
Insulation		
Dielectric strength coil-contact circuit	4000 V_{rms}	
open contact circuit	1000 V_{rms}	
Clearance / creepage coil-contact circuit	≥ 6 / 8 mm	
Material group of insulation parts	IIIa	
Tracking index of relay base	PTI 250	
Insulation to IEC 61810-1		
Type of insulation coil-contact circuit	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	

Other data	
Mechanical endurance	$10x10^6$ cycles
Material	
RoHS - Directive 2002/95/EC	compliant as per product date code 0404
Environment	
Ambient temperature range	-40...+85°C
Vibration resistance (function) NO / NC contact	10 / 5 g
Shock resistance (function) NO / NC contact	10 / 5 g
Shock resistance (destruction)	30 g
Category of protection	RTIII - wash tight
Processing	
Mounting	pcb
Mounting position	any
Minimum mounting distance	≥ 0 mm
Resistance to soldering heat[1)]	260°C / 5 s
Relay weight	6 g
Packaging unit	20 / 1000 pcs

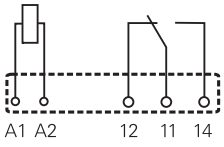
[1)] for flat pack version selective soldering is recommended.

Accessories	
For details see datasheet	Accessories SNR

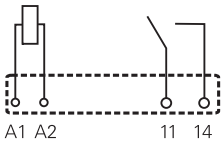
PCB layout / terminal assignment
Bottom view on solder pins



1 CO contact

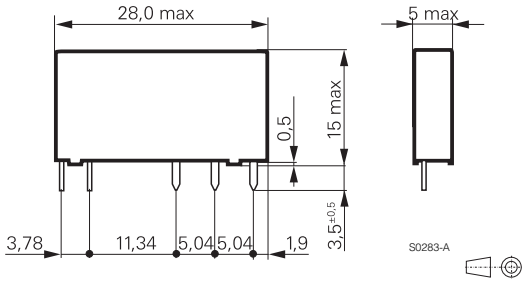


1 NO contact

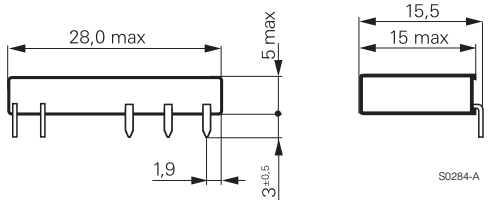


Dimensions

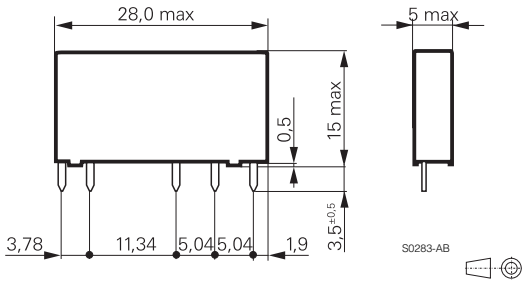
Vertical version



Flat pack version



Version for DIN-rail socket



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Slimline PCB Relay SNR (Continued)

Product key	Typical product key	V23092	-A	1	005	-A	3	01

Type
V23092 Slimline PCB relay SNR

Version
A PCB, vertical version
B PCB, flat pack version
S Plug-in, vertical version

Version
1 wash tight

Coil
Coil code: please refer to coil versions table

Contact system
A standard

Contact material
2 $AgSnO_2$, gold plated
3 $AgSnO_2$
8 AgNi 90/10

Contact configuration
01 1 CO contact (1 form C)
02 1 NO contact (1 form A)

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		1 NO contact			9-1415067-1
V23092-A1005-A801		1 CO contact	AgNi 90/10		1-1415068-1
V23092-A1005-A802		1 NO contact			1415068-1
V23092-A1012-A201		1 CO contact	$AgSnO_2$, gold pl.	12 VDC	1393236-4
V23092-A1012-A202		1 NO contact			1393236-5
V23092-A1012-A301		1 CO contact	$AgSnO_2$		1393236-7
V23092-A1012-A302		1 NO contact			1393236-8
V23092-A1012-A801		1 CO contact	AgNi 90/10		1-1393236-3
V23092-A1012-A802		1 NO contact			2-1415068-1
V23092-A1024-A201		1 CO contact	$AgSnO_2$, gold pl.	24 VDC	2-1393236-1
V23092-A1024-A202		1 NO contact			2-1393236-2
V23092-A1024-A301		1 CO contact	$AgSnO_2$		2-1393236-4
V23092-A1024-A302		1 NO contact			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			3-1393236-6
V23092-A1048-A301		1 CO contact	$AgSnO_2$		3-1393236-7
V23092-A1048-A302		1 NO contact			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			$AgSnO_2$		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

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