Slimline PCB Relay SNR

- **1 pole 6A, 1 form C (CO), 1 form A (NO)**
- **Only 5mm wide**
- **Flat pack version available**
- **Sensitive coil 170mW**
- **Reinforced insulation (protection classII)**
- **Strong coil pins for DIN-rail socket**
- **Allows high function- / packaging density**
- **Cadmium-free contacts, AgNi 90/10 for AC-loads**

F0140-D

Typical applications
Interface technology, PLC's, timers, centralized and decentralized heating control

Approvals

VDE REG.-Nr. 6666, UL E214024
Technical data of approved types on request

Contact Data

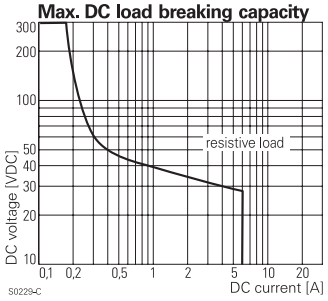
Contact arrangement	1 form C (CO) or 1 form A (NO)	
Rated voltage	250VAC	
Max. switching voltage	400VAC	
Rated current	6A	
Limiting making current, max 4s, df 10%	10A	
Breaking capacity max.	1500VA	
Contact material	$AgSnO_2$, AgNi 90/10	$AgSnO_2$ gold plated
Min. recommended contact load	100mA, 12V	50mW
Frequency of operation, with/without load	6/1200min^{-1}	
Operate/release time max.	12/5ms	
Bounce time max., form A/form B	3/8ms	

Contact ratings

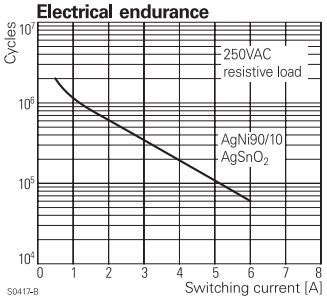
Type	Contact	Load	Cycles
EC 61810			
V23092-*****-A301, -A801	C (CO)	6A, 250VAC, cosφ=1, 85°C	5x10^3
UL 508			
V23092-*****-A301, -A801	A/B	6A, 250VAC, general purpose, 85°C	6x10^3
V23092-*****-A301, -A801	A/B	B300, 85°C	6x10^3
V23092-*****-A301, -A801	A/B	R300, 85°C	6x10^3
EN60730-1			
V23092-*****-A302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

Mechanical endurance, DC coil 10x10^6 operations

Max. DC load breaking capacity



Electrical endurance



Coil Data

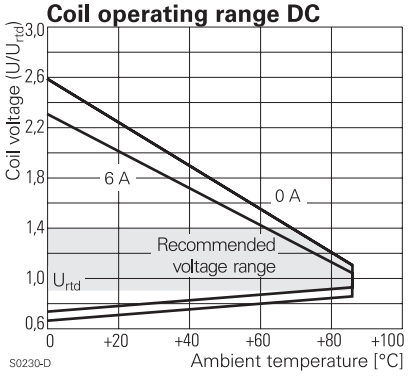
Coil voltage range	5 to 60VDC
Operative range, IEC 61810	2

Coil versions, DC coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%[1)]	Rated coil power mW
005	5	3.5	0.25	147	170
012	12	8.4	0.6	848	170
024	24	16.8	1.2	3390	170
048	48	33.6	2.4	10600[1)]	217
060	60	42.0	3.0	20500[1)]	176

1) Coil resistance ±15%.
All figures are given for coil without pre-energization, at ambient temperature +23°C.
Other coil voltages on request.

Coil operating range DC



Insulation Data

Initial dielectric strength	
between open contacts	1000V$_{rms}$
between contact and coil	4000V$_{rms}$
Clearance/creepage	
between contact and coil	≥6/8mm
Material group of insulation parts	IIIa
Tracking index of relay base	PTI250

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Slimline PCB Relay SNR (Continued)

Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter	
Ambient temperature	-40 to +85°C
Category of environmental protection IEC 61810	RTIII - wash tight
Vibration resistance (functional), form A (NO) / form B (NC)	10/5g
Shock resistance (functional), form A (NO) / form B (NC)	10/5g
Shock resistance (destructive)	30g
Terminal type	PCB-THT, plug-in
Mounting	PCB, socket
Weight	6g
Resistance to soldering heat THT IEC 60068-2-20	260°C/5s[2]
Packaging unit	tube/20 pcs., box/1000 pcs.

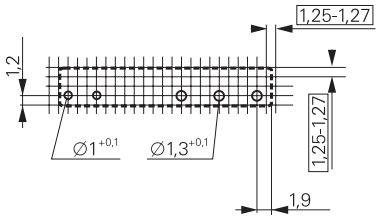
2) for flat pack version selective soldering is recommended

Accessories

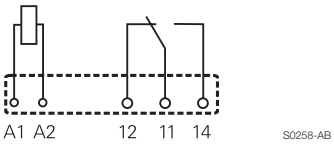
For details see datasheet	Accessories Slim Interface Relay SNR

PCB layout / terminal assignment

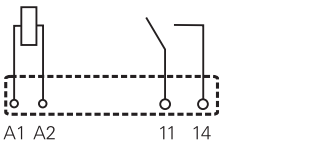
Bottom view on solder pins



1 form C contact (1 CO)

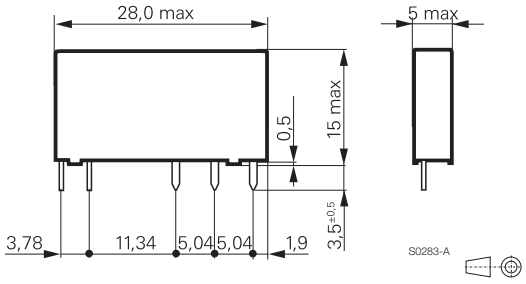


1 form A contact (1 NO)

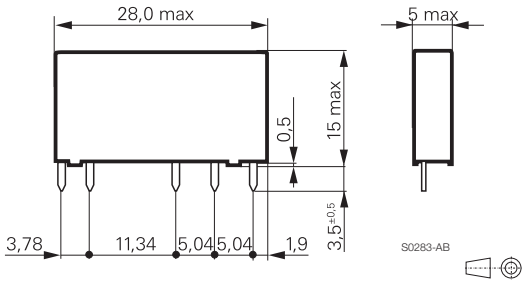


Dimensions

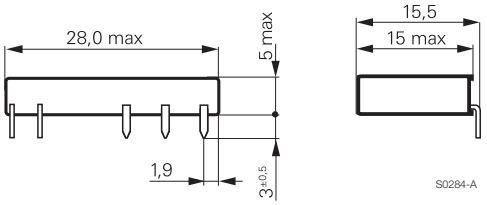
Vertical version



Version for DIN-rail socket



Flat pack version[2]



2) for flat pack version selective soldering is recommended

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Slimline PCB Relay SNR (Continued)

Product code structure Typical product code **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 form C contact (1 CO)
02 1 form A contact (1 NO)

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

Product code	Version	Contact arrangement	Contact material	Coil	Part number
V23092-A1005-A201	PCB	1 form C (CO) contact	$AgSnO_2$, gold plated	5VDC	1393236-1
V23092-A1005-A202	vertical version	1 form A (NO) contact			8-1415067-1
V23092-A1005-A301	wash tight	1 form C (CO) contact	$AgSnO_2$		1393236-2
V23092-A1005-A302		1 form A (NO) contact			9-1415067-1
V23092-A1005-A801		1 form C (CO) contact	AgNi 90/10		1-1415068-1
V23092-A1005-A802		1 form A (NO) contact			1415068-1
V23092-A1012-A201		1 form C (CO) contact	$AgSnO_2$, gold plated	12VDC	1393236-4
V23092-A1012-A202		1 form A (NO) contact			1393236-5
V23092-A1012-A301		1 form C (CO) contact	$AgSnO_2$		1393236-7
V23092-A1012-A302		1 form A (NO) contact			1393236-8
V23092-A1012-A801		1 form C (CO) contact	AgNi 90/10		1-1393236-3
V23092-A1012-A802		1 form A (NO) contact			2-1415068-1
V23092-A1024-A201		1 form C (CO) contact	$AgSnO_2$, gold plated	24VDC	2-1393236-1
V23092-A1024-A202		1 form A (NO) contact			2-1393236-2
V23092-A1024-A301		1 form C (CO) contact	$AgSnO_2$		2-1393236-4
V23092-A1024-A302		1 form A (NO) contact			2-1393236-5
V23092-A1024-A801		1 form C (CO) contact	AgNi 90/10		3-1393236-0
V23092-A1024-A802		1 form A (NO) contact			5-1415063-1
V23092-A1048-A201		1 form C (CO) contact	$AgSnO_2$, gold plated	48VDC	3-1393236-5
V23092-A1048-A202		1 form A (NO) contact			3-1393236-6
V23092-A1048-A301		1 form C (CO) contact	$AgSnO_2$		3-1393236-7
V23092-A1048-A302		1 form A (NO) contact			3-1393236-8
V23092-A1048-A801		1 form C (CO) contact	AgNi 90/10		3-1393236-9
V23092-A1048-A802		1 form A (NO) contact			3-1415068-1
V23092-S1005-A201	Plug-in	1 form C (CO) contact	$AgSnO_2$, gold plated	5VDC	1956024-9
V23092-S1005-A301	vertical version		$AgSnO_2$		1-1956024-0
V23092-S1012-A201	wash tight		$AgSnO_2$, gold plated	12VDC	1956024-1
V23092-S1012-A301			$AgSnO_2$		1956024-2
V23092-S1024-A201			$AgSnO_2$, gold plated	24VDC	1956024-3
V23092-S1024-A301			$AgSnO_2$		1956024-4
V23092-S1048-A201			$AgSnO_2$, gold plated	48VDC	1956024-5
V23092-S1048-A301			$AgSnO_2$		1956024-6
V23092-S1060-A201			$AgSnO_2$, gold plated	60VDC	1956024-7
V23092-S1060-A301			$AgSnO_2$		1956024-8

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