



**THE DATASHEET OF
V23092-A1012-A301**



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 Cert. No. 40010063, UL E214025
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 (NO) | 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 10x10⁶ operations

Coil Data

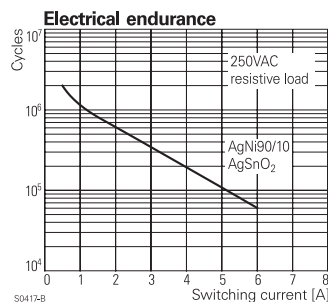
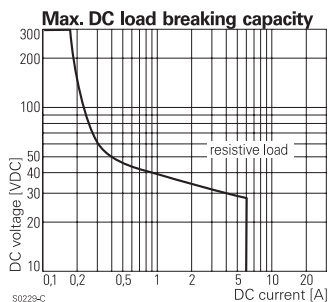
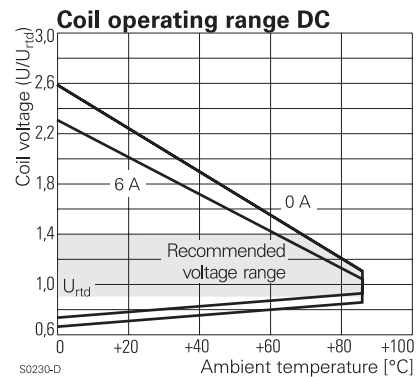
| | |
|----------------------------|------------|
| Coil voltage range | 5 to 60VDC |
| Operative range, IEC 61810 | 2 |

Coil versions, DC coil

| Coil code | Rated voltage VDC | Operate voltage VDC | Release voltage VDC | Coil resistance Ω±10% ¹⁾ | Rated 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.



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 |

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 | RTIII - wash tight |
| IEC 61810 | |
| 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. |

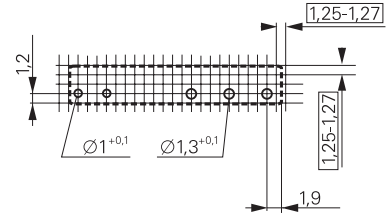
2) for flat pack version selective soldering is recommended

Accessories

For details see datasheet [Accessories Slim Interface Relay SNR](#)

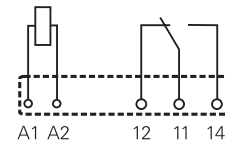
PCB layout / terminal assignment

Bottom view on solder pins



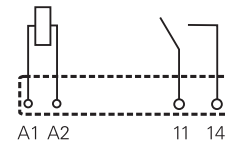
S0258-AA

1 form C contact (1 CO)



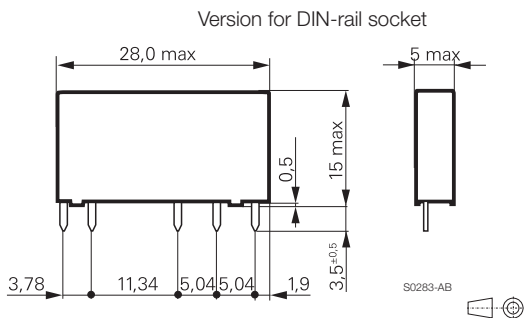
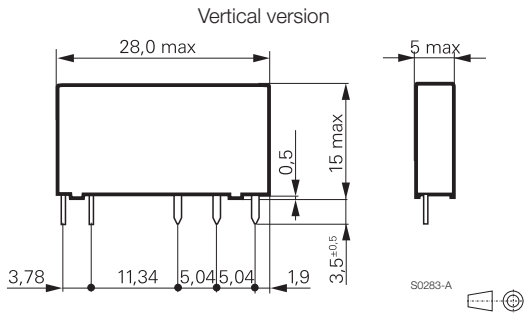
S0258-AB

1 form A contact (1 NO)

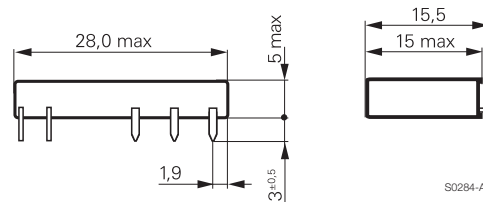


S0258-AC

Dimensions



Flat pack version²⁾



2) for flat pack version selective soldering is recommended

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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