

SCHRACK SLIMLINE PCB RELAY SNR

GENERAL PURPOSE RELAYS PCB RELAYS

INTRODUCTION

TE Connectivity (TE)'s slim PCB relay with a width of 5 mm suitable for PCB mounting. Vertical version, flat pack version and for DIN rail socket (stronger coil terminal) available. One CO contact for 6 A.

FEATURES

- 1 pole 6 A, 1 form C (CO), 1 form A (NO)
- Only 5 mm wide
- Flat pack version available
- Sensitive coil 170 mW
- 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

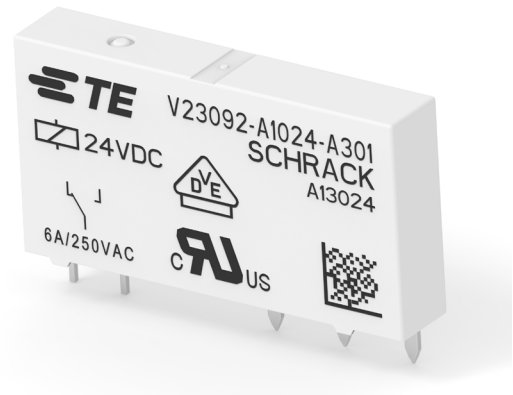
APPLICATIONS

- Interface technology
- PLC's (programmable logic controller)
- Timers
- Centralized and decentralized heating control

APPROVALS

- VDE Cert. No. 40010063
- UL E214025

Technical data of approved types on request.



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PCB Relays

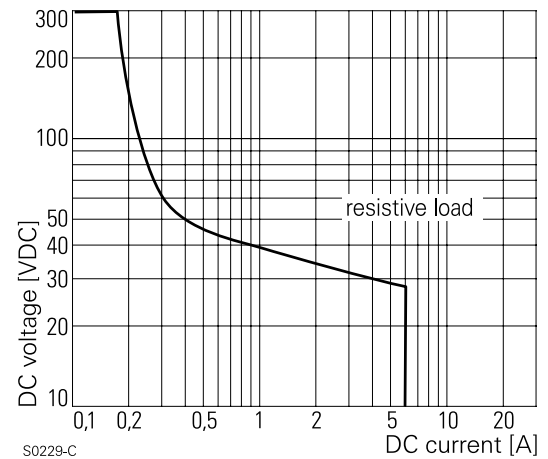
CONTACT DATA

Contact arrangement	1 form C (CO) or 1 form A (NO)	
Rated voltage	250 VAC	
Max. switching voltage	400 VAC	
Rated current	6 A	
Limiting making current, max 4s, duty factor 10%	10 A	
Breaking capacity max.	1500 VA	
Contact material	AgSnO ₂ , AgNi 90/10	AgSnO ₂ gold plated
Min. recommended contact load	100 mA, 12 V	50 mW
Frequency of operation, with/ without load	6/1200 min ⁻¹	
Operate/release time max.	12/5 ms	
Bounce time max., form A/form B	3/8 ms	

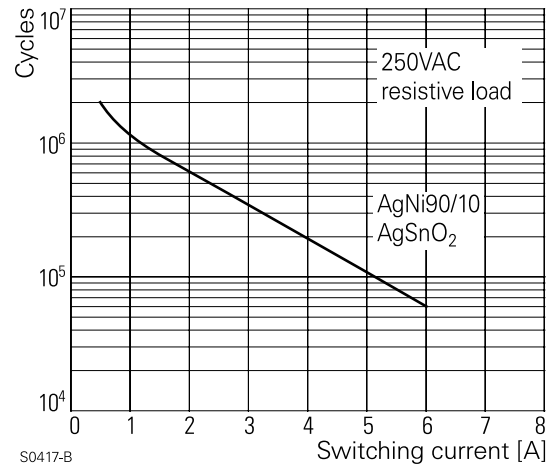
CONTACT RATINGS

Type	Contact	Load	Cycles
EC 61810			
V23092-****-A301, -A801	C (CO)	6 A, 250 VAC, cosφ=1, 85 °C	5x10 ³
UL 61810-1 (UL508)			
V23092-****-A301, -A801	A/B	6 A, 250 VAC, 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), 250 VAC, 85 °C	100x10 ³
V23092-****-A302, -A802	A (NO)	5A (1.5A), 250 VAC, 85 °C	10x10 ³
Mechanical endurance, DC coil	10x10 ⁶ operations		

MAX. DC LOAD BREAKING CAPACITY



ELECTRICAL ENDURANCE



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PCB Relays

COIL DATA

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

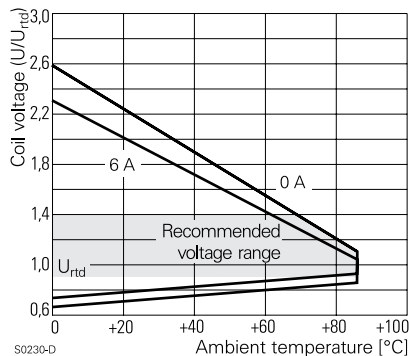
COIL VERSIONS, DC COIL

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance $\Omega \pm 10\%^{1)}$	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 $\pm 15\%$.

All figures are given for coil without pre-energization, at ambient temperature $+23\text{ }^{\circ}\text{C}$. Other coil voltages on request.

COIL OPERATING RANGE DC



INSULATION DATA

Initial dielectric strength	
between open contacts	1000 Vrms
between contact and coil	4000 Vrms
Clearance/creepage	
between contact and coil	$\geq 6/8\text{ mm}$
Material group of insulation parts	IIIa
Tracking index of relay base	PTI250

ACCESSORIES

For details see datasheet	Accessories Slim Interface Relay SNR
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OTHER DATA

Material compliance	EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customer-support/rohssupportcenter
Ambient temperature	$-40\text{ }^{\circ}\text{C}$ to $+85\text{ }^{\circ}\text{C}$
Category of environmental protection	
IEC 61810	RTIII - wash tight
Vibration resistance (functional)	
form A (NO)	10g
form B (NC)	
-X direction	2g
-Y,Z direction	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	$260\text{ }^{\circ}\text{C}/5\text{ s}^{2)}$
Packaging unit	tube/20 pcs., box/1000 pcs.

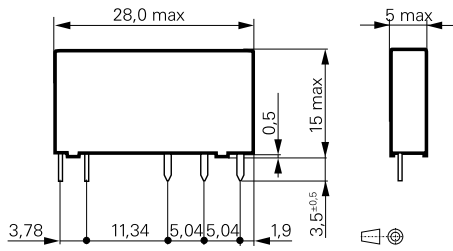
2) for flat pack version selective soldering is recommended

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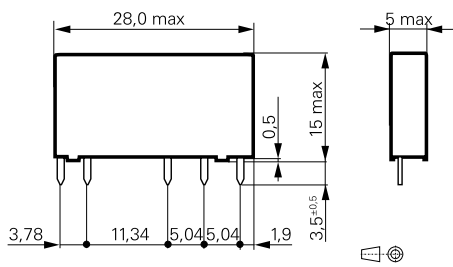
PCB Relays

DIMENSIONS (Unit: mm)

Vertical version

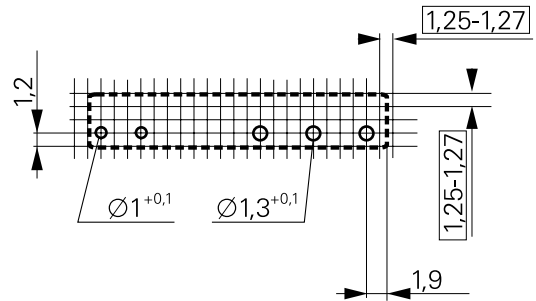


Version for DIN-rail socket

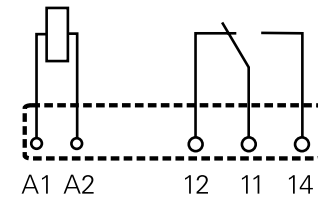


PCB LAYOUT / TERMINAL ASSIGNMENT

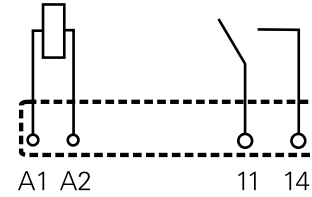
Bottom view on solder pins



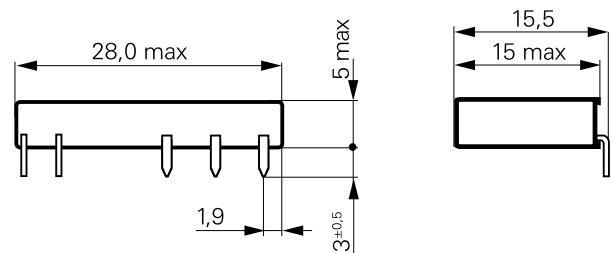
1 form C contact (1 CO)



1 form A contact (1 NO)



Flat pack version²⁾



2) for flat pack version selective soldering is recommended

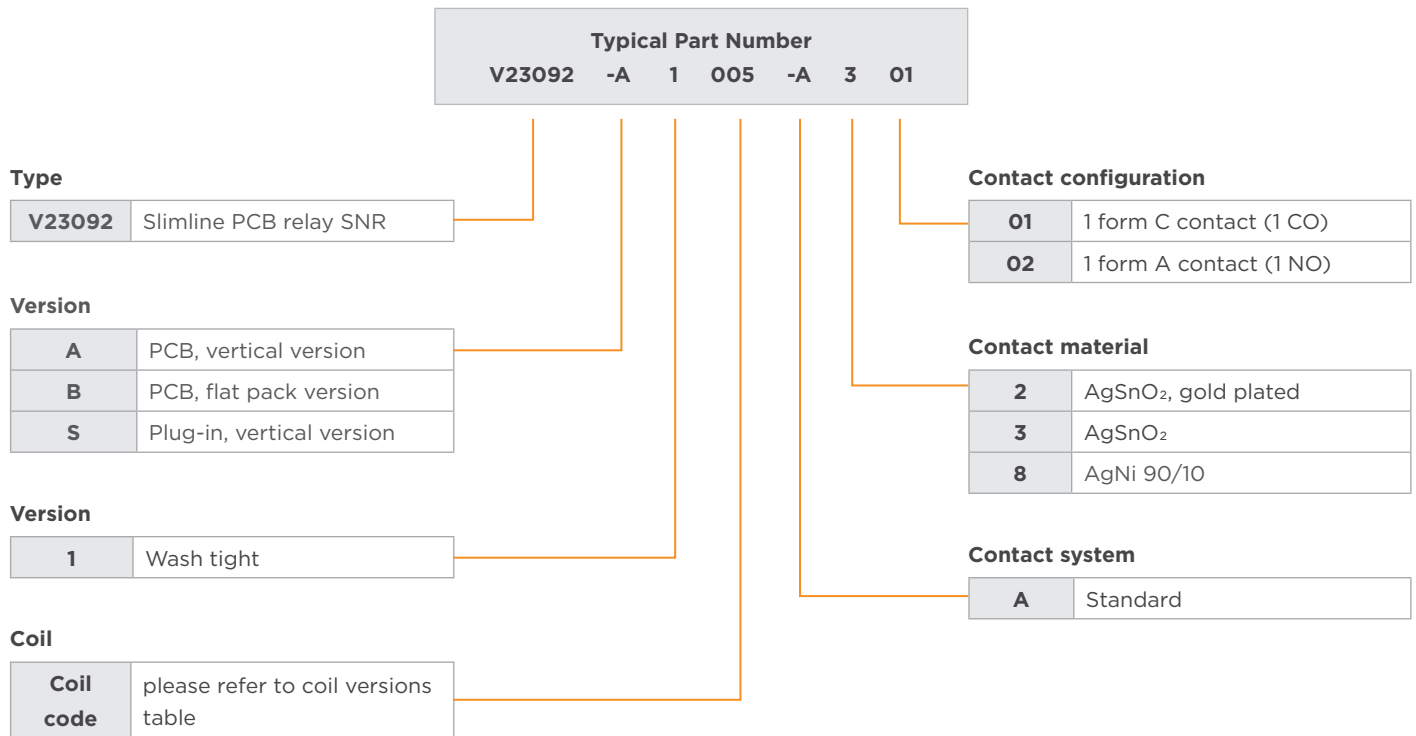
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PCB Relays

PRODUCT INFORMATION

Product code	Version	Contact arrangement	Contact material	Coil	Part number			
V23092-A1005-A201	PCB vertical version wash tight	1 form C (CO) contact	AgSnO ₂ , gold plated	5 VDC	1393236-1			
V23092-A1005-A202		1 form A (NO) contact			8-1415067-1			
V23092-A1005-A301		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		PCB vertical version wash tight	1 form C (CO) contact	AgSnO ₂ , gold plated	12 VDC	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			PCB vertical version wash tight	1 form C (CO) contact	AgSnO ₂ , gold plated	24 VDC	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				PCB vertical version wash tight	1 form C (CO) contact	AgSnO ₂ , gold plated	48 VDC	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 vertical version wash tight	1 form C (CO) contact	AgSnO ₂ , gold plated	5 VDC	1956024-9			
V23092-S1005-A301			AgSnO ₂		1-1956024-0			
V23092-S1012-A201			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			

PRODUCT CODE STRUCTURE



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

Notes:

1. Catalog and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.
2. Catalog and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at <http://relays.te.com/definitions>
3. Catalog product data, 'Definitions' section, application notes and all specifications are subject to change.

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