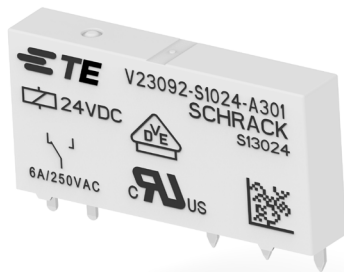
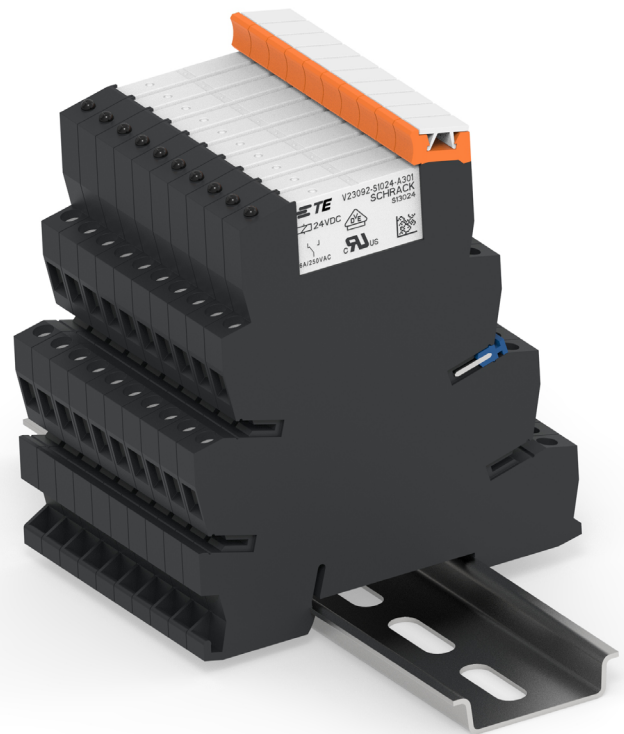
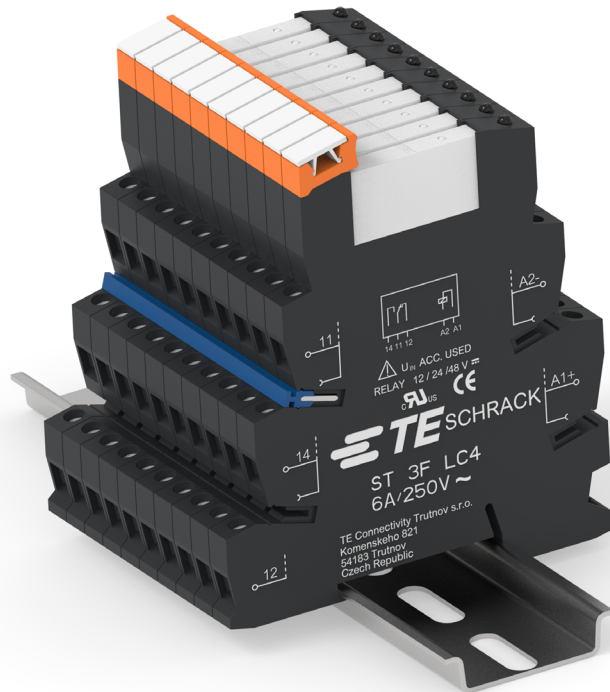


SCHRACK RELAY SNR

GENERAL PURPOSE RELAYS



SCHRACK SLIMLINE RELAY SNR

SCHRACK RELAY PACKAGE SNR

ACCESSORIES SLIM INTERFACE RELAY SNR

SCHRACK SLIMLINE RELAY SNR

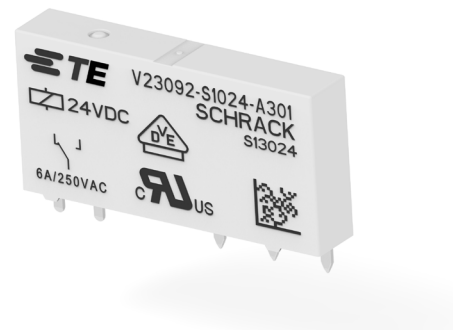
GENERAL PURPOSE RELAYS

INTRODUCTION

TE Connectivity (TE)'s Slimline Relay SNR with a width of 5 mm. Suitable for DIN rail socket (stronger coil terminal) available. One CO contact for 6A.

FEATURES

- 1 pole 6A
- Only 5mm wide
- Sensitive coil 170mW
- Reinforced insulation (protection class II)
- Strong coil pins for DIN-rail socket
- Allows high function/ packaging density
- Cadmium-free contacts, AgNi 90/10 for AC-loads



APPLICATIONS

- Interface technology
- Programmable Logic Controllers (PLC's)
- Timers
- Centralized and decentralized heating control

APPROVALS

- VDE Cert. No. 40010063
- UL E214025

Technical data of approved types on request.



SCHRACK Slimline Relay SNR

General Purpose Relays

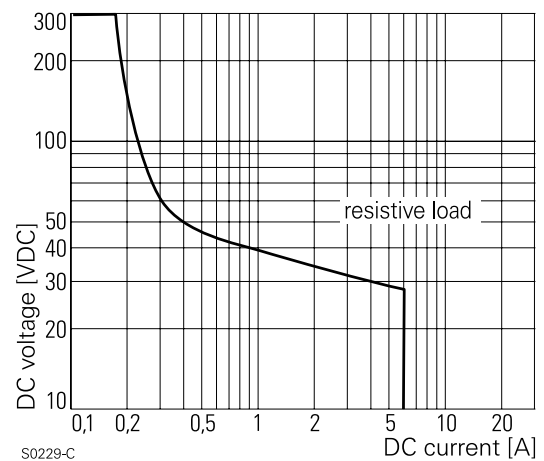
CONTACT DATA

Contact arrangement	1 form C (CO)	
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	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	

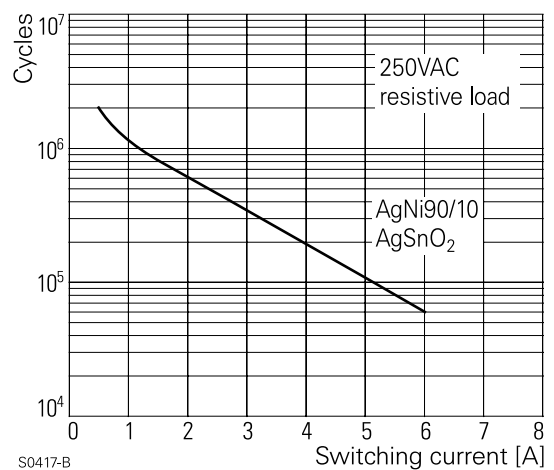
CONTACT RATINGS

Type	Contact	Load	Cycles
EC 61810			
V23092-****-A301	C (CO)	6A, 250VAC, cosφ=1, 85°C	5x10 ³
UL 61810-1 (UL508)			
V23092-****-A301	A/B	6A, 250VAC, general purpose, 85°C	6x10 ³
V23092-****-A301	A/B (NO)	B300, 85°C	6x10 ³
V23092-****-A301	A/B	R300, 85°C	6x10 ³
EN60730-1			
V23092-****-A302	A (NO)	3A (1.5A), 250VAC, 85°C	100x10 ³
V23092-****-A302	A (NO)	5A (1.5A), 250VAC, 85°C	10x10 ³
Mechanical endurance, DC coil		10x10 ⁶ operations	

MAX. DC LOAD BREAKING CAPACITY



ELECTRICAL ENDURANCE



SCHRACK Slimline Relay SNR

General Purpose Relays

COIL DATA

Coil voltage range	12 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
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 $+23^{\circ}\text{C}$.

Other coil voltages on request.

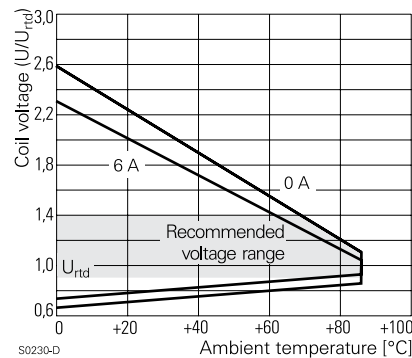
INSULATION DATA

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

ACCESSORIES

For details see datasheet [Page 9](#)

COIL OPERATING RANGE DC



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°C to $+85^{\circ}\text{C}$
Category of environmental protection	
IEC 61810	RTIII - wash tight
Vibration resistance (functional)	
form A (NO) / form B (NC)	10/5 g
Shock resistance (functional)	
form A (NO) / form B (NC)	10/5 g
Shock resistance (destructive)	30 g
Terminal type	THT, plug-in
Mounting	Socket
Weight	6 g
Packaging unit	tube/20 pcs., box/1000 pcs.

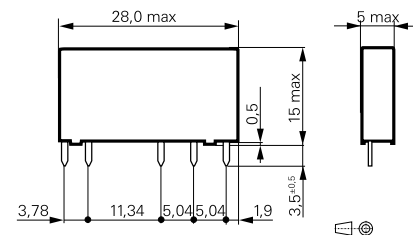
2) for flat pack version selective soldering is recommended

General Purpose Relays

1 form C contact (1 CO)



Version for DIN-rail socket



Typical Part Number
V23092 -A 1 005 -A 3 01

A	Standard
----------	----------

SCHRACK Slimline Relay SNR

General Purpose Relays

PRODUCT INFORMATION

Product code	Version	Contact arrangement	Contact material	Coil	Part number
V23092-S1012-A201	Plug-in vertical version	1 form C (CO) contact	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
V23092-A1012-A201	Vertical version		AgSnO ₂ , gold plated	12VDC	1393236-4
V23092-A1012-A301			AgSnO ₂		1393236-7
V23092-A1024-A201			AgSnO ₂ , gold plated	24VDC	2-1393236-1
V23092-A1024-A301			AgSnO ₂		2-1393236-4
V23092-A1048-A201			AgSnO ₂ , gold plated	48VDC	3-1393236-5
V23092-A1048-A301			AgSnO ₂		3-1393236-7
V23092-A1060-A201			AgSnO ₂ , gold plated	60VDC	4-1393236-2
V23092-A1060-A301			AgSnO ₂		4-1393236-3

SCHRACK RELAY PACKAGE SNR

GENERAL PURPOSE RELAYS
PRODUCT SETS

INTRODUCTION

TE Connectivity (TE)'s Relay Package SNR consists of DIN rail sockets and relays, module width offering in 6.2mm, 1CO with 6A rated current. Highly reliable for increased package density on the DIN rail.

FEATURES

- Clear white printing
- Relay snaps in the socket
- Flexible snap on mount
- Insert funnel for pins
- Packing in compact 10pc. cardboard box

APPLICATIONS

- Interface technology
- Panel board
- Mechanical engineering
- Plant control



APPROVALS

- Relay: VDE Cert. No. 40010063, cULus E214025
- Socket: cULus E224918

Note:

1. Technical data of approved types on request
2. For contact ratings see datasheet - Slim interface Relay SNR



CONTACT DATA

Contact configuration	1 CO	
Contact set	single contact	
Type of interruption	Micro disconnection	
Rated voltage/ max. switching voltage AC	240/400VAC	
Rated current	6 A	
Maximum breaking capacity AC	1500 VA	
Limiting breaking capacity, max. 4 s, duty factor 10%	10A	
Contact material	AgSnO ₂	AgSnO ₂ gold plated
Minimum contact load	100mA, 12V	50mW
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

For contact ratings see datasheet [Page 2](#)

INSULATION

Dielectric strength		
Coil-contact circuit	4000Vrms	
Open contact circuit	1000Vrms	
Clearance /creepage coil-contact circuit	≥ 6 / 8 mm	
Material group of insulation parts	IIIa	
Insulation to IEC 60664-1		
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	

INPUT DATA

Rated input voltage DC	12, 24 VDC, 230 VAC/VDC*
Operative range to IEC 61810	2

* Version 230 VAC/VDC equipped with 60 VDC relay

COIL VERSIONS, AC COIL 50 Hz

Coil code	Rated voltage VAC	Operate voltage 50Hz VAC	Release voltage 50Hz VAC	Coil resistance Ω	Rated coil power 50Hz mVA
TPO	230	160.0	15.0	N/A	736

Other coil voltages on request.

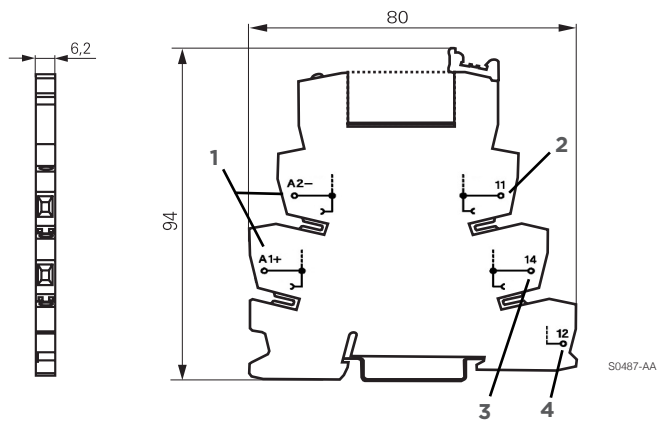
OTHER DATA

Mechanical endurance	10 x 10 ⁶ cycles
Material compliance	EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customer-support/rohssupportcenter
Environment	
Ambient temperature range	-40°C to +55°C
Processing	
Terminals	screw
Terminal screw torque acc. IEC 61984	0.5 Nm
Max.	0.6 Nm
Wire cross section	
Single wire	0.14 mm ² to 2.5 mm ²
Fine wire	0.14 mm ² to 2.5 mm ²
With bootlace crimp (DIN 46228/1)	0.14 mm ² to 2.5 mm ²
Insertion cycles	A (10)
Max. Insertion Force total	100 N
Mounting distance	≥ 0 mm, dense packing of sockets
Weight	32 g
Packaging unit	10 pcs

ACCESSORIES

For details see datasheet [Page 9](#)

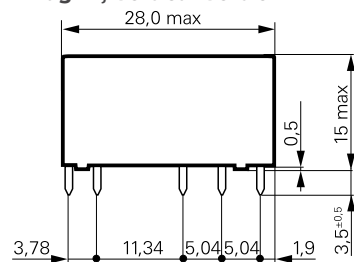
DIMENSIONS (Unit: mm)



Version with
screw terminals

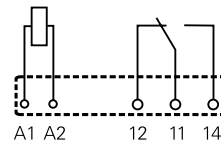
1. Coil terminal with polarity definition A1+, A2-, screw terminal.
2. NC terminal, screw terminal.
3. CO terminal, screw terminal.
4. NO terminal, screw terminal.

Plug-in, Vertical Version

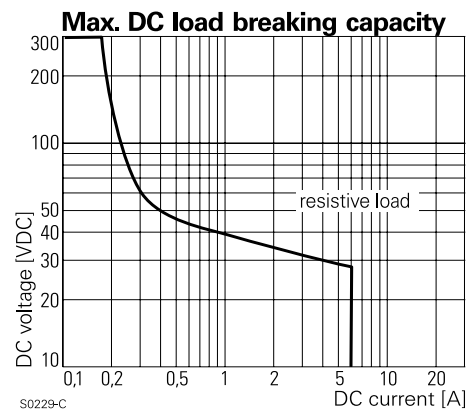


TERMINAL ASSIGNMENT

1 form C contact (1 CO)



GRAPH



PRODUCT CODE STRUCTURE

Typical product code
ST 3P 3 TPO S

Type

ST	Relay Package SNR
----	-------------------

Version

3P	Relay set, SNR 1-pole CO (1form C), 6A, screw terminals
----	---

Contact material

2	AgSnO ₂ , gold plated
3	AgSnO ₂

Coil

LB2	12 VDC
LC4	24 VDC
TPO	230 VDC/VAC

Relay coil terminal

S	Plug-in
---	---------

Other types on request

PRODUCT INFORMATION

Product code	Socket	Terminals	Relay	Contacts	Coil	Part Number
ST3P2LC4S	ST3FLC4	Screw	V23092-S1024-A201	AgSnO ₂ gold pl.	24VDC	3-1416101-0
ST3P3LB2S	ST3FLC4	Screw	V23092-S1012-A301	AgSnO ₂	12VDC	3-1416101-1
ST3P3LC4S	ST3FLC4	Screw	V23092-S1024-A301	AgSnO ₂	24VDC	3-1416101-2
ST3P3TP0S	ST3FTP0	Screw	V23092-S1060-A301	AgSnO ₂	230VDC/VAC	3-1416101-4

Notes:

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- Datasheets 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>.
- Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.

ACCESSORIES SLIM INTERFACE RELAY SNR

GENERAL PURPOSE RELAYS ACCESSORIES

INTRODUCTION

TE Connectivity (TE)'s DIN rail socket with DC and AC version, screw terminals and LED indicator as standard. Accessories for the socket jumper bars with different color, marking tags.

FEATURES

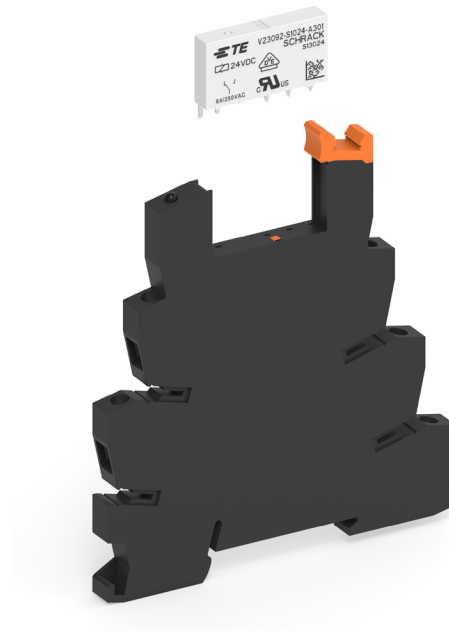
- Jumper bars for interconnection
- Fully featured with LED and protection circuit
- Mounting on DIN-rail from top down
- Marking tags fit for use
- Protection circuit

APPLICATIONS

- Interface technology
- Panel board
- Mechanical engineering
- Plant control

APPROVALS

- cULus E224918



Accessories Slim Interface Relay SNR

General Purpose Relays | Accessories

TECHNICAL DATA

	ST3F	
Rated voltage/Max. switching voltage AC	240/400 VAC	
Rated current	6 A	
Dielectric strength coil-contact circuit	4000 Vrms	
Clearance / creepage coil-contact circuit	≥ 6/8 mm	
Material group of insulation parts	IIla	
Insulation to IEC 60664-1		
Type of insulation		
Coil-contact circuit	reinforced	
Open contact circuit	functional	
Rated insulation voltage	250 V	
Pollution degree	2	
Rated voltage system	230 / 400 V	
Overvoltage category	III	
Contact material	AgSnO ₂	AgSnO ₂ gold plated
Minimum contact load	100mA, 12V	50mW
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	
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 range	-20°C to 55°C	
Terminals	screw	
Terminal screw torque acc. IEC 61984	0.5 Nm	
max.	0.6 Nm	

DIMENSIONS (Unit: mm)

For Dimension see [Page 7](#)

SOCKETS

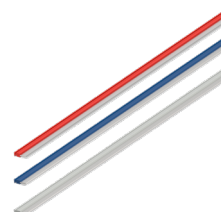
Type		Part Number
ST 3F LC4	DIN-rail socket 24VDC, for relays 12/24/48 VDC, with LED, protection and polarity diode, screw terminals	2-1416100-0
ST 3F TPO	DIN-rail socket 230VAC/ VDC with LED and protection circuit, screw terminals	2-1416100-2

ACCESSORIES

Type		Part Number
ST 36 040	Separation element	2-1416100-6
ST 37 001	Jumper bar, red, 500 mm	2-1416100-7
ST 37 002	Jumper bar, blue, 500 mm	2-1416100-8
ST 37 003	Jumper bar, grey, 500 mm	2-1416100-9
ST 37 040	Marking plate, consisting of 100 marking tabs	4-1416100-0



ST 36 040
Separation element



ST 37 001,002,003
Jumper bar



ST 37 040
Marking plate

RELAY PACKAGES

Complete packages consisting of a relay mounted on a socket see [Page 5](#).

TERMINAL ASSIGNMENT

For Dimension see [Page 7](#)

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