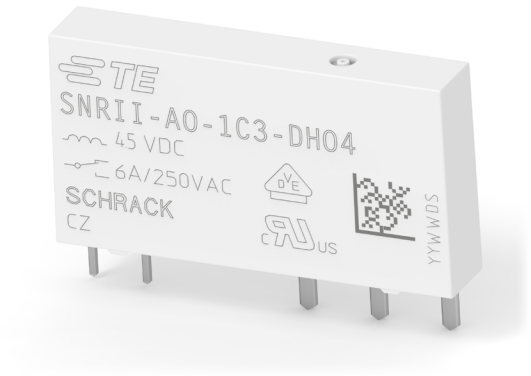
SCHRACK SLIMLINE PCB RELAY SNRII

GENERAL PURPOSE RELAYS
PCB RELAYS

INTRODUCTION

TE Connectivity (TE)'s SCHRACK SNRII slim PCB relay is a compact 5 mm-wide solution designed for PCB mounting, available in vertical, flat pack, and DIN rail socket-compatible versions with reinforced coil terminals. Featuring a 6A single changeover (CO) contact, the SNRII serves as a direct replacement for the legacy **SNR (V23092 Series)**, offering full compatibility with existing socket solutions. It delivers enhanced performance with improved vibration resistance and a longer mechanical and electrical lifecycle, making it highly suitable for space-constrained applications that demand reliability and durability.



FEATURES

- 1 pole 6A, 1 form C (CO)
- Ambient temperature up to 105 °C
- Only 5 mm wide
- Flat pack version available
- Sensitive coil 170 mW
- Reinforced insulation (protection class II)
- Reinforced coil pins for DIN-rail socket
- Allows high function - packaging density

APPLICATIONS

- Automation
- Motion and drives
- Control cabinet builders
- Machine manufacturers
- Interface technology

APPROVALS

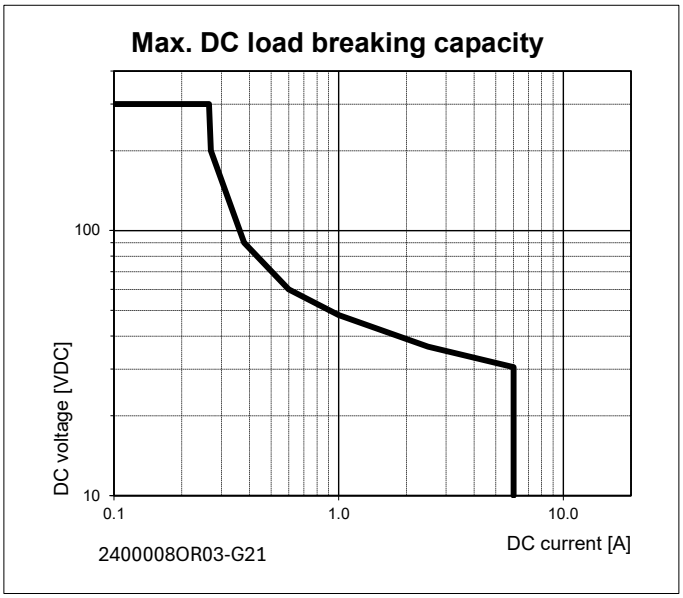
- VDE: 40060851
- UL: E214025

Technical data of approved types on request.

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CONTACT DATA

Contact arrangement	1 form C (CO)
Rated voltage	277 VAC
Max. switching voltage	400 VAC
Rated current	6 A
Limiting making current, max 4s, duty factor 10%	20 A
Breaking capacity max. (AC)	1500 VA
Contact material	$AgSnO_2$,
Min. recommended contact load	1 mA, 5 V
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
Mechanical endurance, DC coil	$20x10^6$ operations



CONTACT RATINGS

Type	Contact	Load	Cycles
IEC 61810-1			
SNRII-*0-1C3-D***	C (NO)	8 A, 277 VAC, cosϕ=1, 25°C	$20x10^3$
SNRII-*0-1C3-D***	C (NO)	6 A, 250 VAC, cosϕ=1, 25°C	$25x10^3$
SNRII-*0-1C3-D***	C (NO)	6A, 250 VAC, cosϕ=1, 85°C	$20x10^3$
SNRII-*0-1C3-D***	C (CO)		$6x10^3$
SNRII-*0-1C3-D***	C (NC)		$10x10^3$
SNRII-*0-1C3-D***	C (NO)	6A, 250 VAC, cosϕ=1, 105°C	$6x10^3$
SNRII-*0-1C3-D***	C (NO)	8A, 250 VAC, cosϕ=1, 90°C	$6x10^3$
SNRII-*0-1C3-D***	C (NO)	10A, 250 VAC, cosϕ=1, 75°C	$1x10^3$

Type	Contact	Load	Cycles
UL 61810-1 (UL508)			
SNRII-*0-1C3-D***	C (CO)	6 A, 277 VAC, general purpose, 85°C	$6x10^3$
SNRII-*0-1C3-D***	C (NO)	¼ HP, 277 VAC, 85°C	$15x10^3$
SNRII-*0-1C3-D***	C (NO)	B300, 85°C	$50x10^3$
SNRII-*0-1C3-D***	C (NO)	R300, 85°C	$6x10^3$
SNRII-*0-1C3-D***	C (NC)	C300, 85°C	$6x10^3$
SNRII-*0-1C3-D***	C (NC)	R300, 85°C	$6x10^3$
SNRII-*0-1C3-D***	C (CO)	8 A, 277 VAC, general purpose, 40°C	$6x10^3$

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COIL DATA

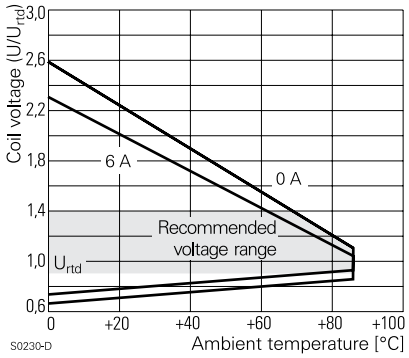
Coil voltage range	4.5 VDC to 60 VDC
Operative range, IEC 61810	2
Coil Insulation System according UL	Class F

COIL VERSIONS, DC COIL

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%	Rated coil power mW
H04	4.5	3.15	0.23	119	170
005	5	3.50	0.25	147	170
012	12	8.40	0.60	847	170
018	18	12.6	0.90	1905	170
021	21	14.7	1.05	2594	170
024	24	16.8	1.20	3388	170
048	48	33.6	2.40	13553	170
060	60	36.0	3.00	21176	170

All figures are given for coil without pre-energization, at ambient temperature +23 °C.
Other coil voltages on request.

COIL OPERATING RANGE DC



will be updated to include 10 A 75 °C, 8 A 85 °C and 6 A 105 °C (tests: pending)

INSULATION DATA

Initial dielectric strength	
between open contacts	1000 V_{rms}
between contact and coil	4000 V_{rms}
Clearance/creepage	
between contact and coil	≥6,3 mm
reinforced insulation max. altitude 3.000m - acc. IEC60664-1	
Material group of insulation parts	IIIa
Tracking index of relay base	PTI175

OTHER DATA

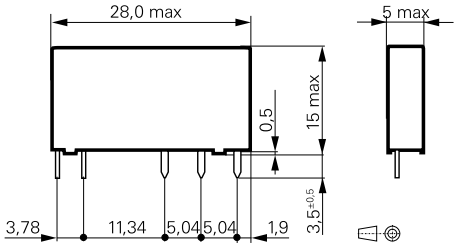
Material compliance	EU RoHS/ELV, China RoHS, REACH, For Halogen content refer to the Product Compliance Support Center at **www.te.com/customersupport/rohssupportcenter**
Ambient temperature	-40 °C to +105 °C
Category of environmental protection	
IEC 61810	RTIII - wash tight (QC2 testing for 1 minute)
Vibration resistance (functional)	10 - 150 Hz
form C (NO)	min. 10 g, 10 µs
form C (NC)	min. 5 g, 10 µs
Shock resistance (functional)	
form C (NO)	min. 30 g, 11 ms
form C (NC)	min. 5 g , 11 ms
Shock resistance (destructive)	min. 100 g, 11 ms
Terminal type	PCB-THT, plug-in
Mounting	PCB, socket
Weight	5 g
Resistance to soldering heat THT	
IEC 60068-2-20	260 °C/5 s [1]
Packaging unit	tube/20 pcs., box/1000 pcs.

1) for flat pack version selective soldering is recommended

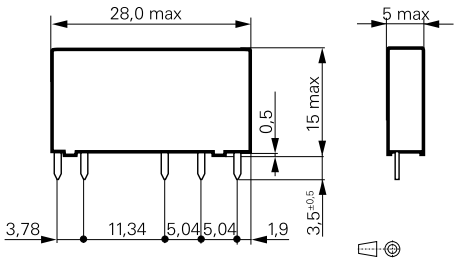
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DIMENSIONS (Unit: mm)

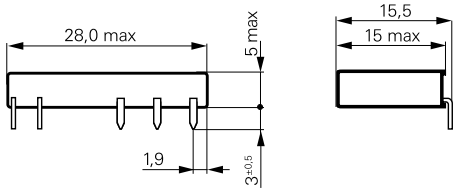
Standard version



Plug-in Version
(for DIN rail socket)



Flat pack version[2)]

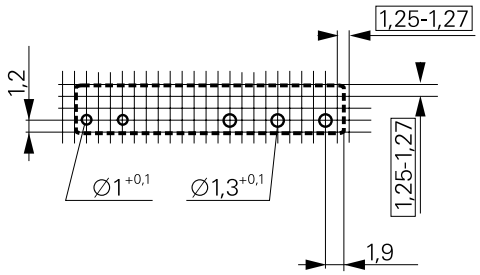


2) for flat pack version selective soldering is recommended

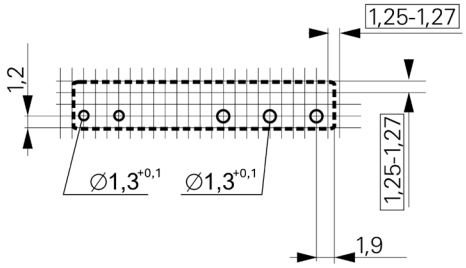
PCB LAYOUT / TERMINAL ASSIGNMENT

Bottom view on solder pins

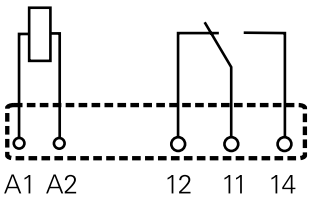
Standard and Flatpack version



Plug-in version
(for DIN rail socket)



1 form C contact (1 CO)



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PRODUCT CODE STRUCTURE

Typical Part Number

SNRII	-A	0	-1	C	3	-D	H04

Type

SNRII	Slimline PCB relay SNR next Generation

Version

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

Version

0	Standard

Number of Poles

1	1 pole

Contact configuration

C	form C (CO-contact)

Coil Voltage

H04	4.5 V
005	5.0 V
012	12 V
018	18 V
021	21 V
024	24 V
048	48 V
060	60 V

Coil Version

D	DC Coil

Contact Material

3	$AgSnO_2$

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PRODUCT INFORMATION

Product code	Version	Contact arrangement	Contact material	Coil	Part number
SNRII-A0-1C3-DH04	Standard, vertical, for PCB	1 form C (CO) contact	$AgSnO_2$	4.5 VDC	1558940-1
SNRII-A0-1C3-D005				5.0 VDC	1558940-2
SNRII-A0-1C3-D012				12 VDC	1558940-3
SNRII-A0-1C3-D018				18 VDC	1558940-4
SNRII-A0-1C3-D021				21 VDC	1558940-5
SNRII-A0-1C3-D024				24 VDC	1558940-6
SNRII-A0-1C3-D048				48 VDC	1558940-7
SNRII-A0-1C3-D060				60 VDC	1558940-8
SNRII-B0-1C3-DH04	Flat-Pack, horizontal, for PCB			4.5 VDC	1558941-1
SNRII-B0-1C3-D005				5.0 VDC	1558941-2
SNRII-B0-1C3-D012				12 VDC	1558941-3
SNRII-B0-1C3-D018				18 VDC	1558941-4
SNRII-B0-1C3-D021				21 VDC	1558941-5
SNRII-B0-1C3-D024				24 VDC	1558941-6
SNRII-B0-1C3-D048				48 VDC	1558941-7
SNRII-B0-1C3-D060				60 VDC	1558941-8
SNRII-S0-1C3-DH04	Plug-In, vertical, for socket			4.5 VDC	1558942-1
SNRII-S0-1C3-D005				5.0 VDC	1558942-2
SNRII-S0-1C3-D012				12 VDC	1558942-3
SNRII-S0-1C3-D018				18 VDC	1558942-4
SNRII-S0-1C3-D021				21 VDC	1558942-5
SNRII-S0-1C3-D024				24 VDC	1558942-6
SNRII-S0-1C3-D048				48 VDC	1558942-7
SNRII-S0-1C3-D060				60 VDC	1558942-8

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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