DATA SHEET: RELAY PACKAGE SNR

- **Relay package consisting of DIN-rail socket and relay**
- **1 CO with 6 A rated load**
- **Module width only 6.2 mm**
- **Reduced system width for increased packing density on the DIN rail**
- **RoHS compliant (Directive 2002/95/EC)**

APPROVALS

Relay: VDE REG.-Nr. 6666, c UL us E214024

Socket: VDE REG.-Nr. 6666, c UL us 224918

Technical data of approved types on request

CONTACT DATA

Contact data		
Contact configuration	1 CO	
Contact set	single contact	
Type of interruption	micro disconnection	
Rated voltage / max. switching voltage AC	240 / 400 VAC	
Rated current	6 A	
Maximum breaking capacity AC	1500 VA	
Limiting making capacity, max 4 s, duty factor 10%	10 A	
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	Slim Interface Relay SNR

INPUT DATA

Input data	
Rated input voltage DC	12, 24 VDC, 115, 230 VAC/VDC*)
Operative range to IEC 61810	2
*) Version 115, 230 VAC/VDC equipped with 60 VDC relay	

Coil versions, DC-coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ohm	Rated coil power mW
LB2	12	8.4	0.6	848±10%	184
LC4	24	16.8	1.2	3390±10%	220

Coil versions, AC-coil 50Hz

Coil code	Rated voltage VAC	Operate voltage 50 Hz VAC	Release voltage 50 Hz VAC	Coil resistance Ohm	Rated coil power 50 Hz mVA
SM5	115	82.0	9.0	not applicable	403
TP0	230	160.0	15.0	not applicable	736

Other coil voltages on request

INSULATION

Insulation	
Dielectric strength coil-contact circuit	4000 V_{rms}
open contact circuit	1000 V_{rms}
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

OTHER DATA

Other data	
Mechanical endurance	10x10^6 cycles
Material	
RoHS - Directive 2002/95/EC	compliant as per product date code 0404
Environment	
Ambient temperature range	-40...+55°C
Processing	
Terminals	screw / cage clamp
Terminal screw torque acc. IEC 61984	0.5 Nm
max. 0.6 Nm	
Wire cross section	
single wire	0.14...2.5 mm^2
fine wire	0.14...2.5 mm^2
with bootlace crimp (DIN 46228/1)	0.14...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

PRODUCT KEY

Product key	Typical product key	ST	4P	3	TP0

Type
ST Relay Package SNR

Version
3P Relay set, SNR 1-pole CO (1 form C), 6 A, screw terminals
4P Relay set, SNR 1-pole CO (1 form C), 6 A, cage clamp terminals

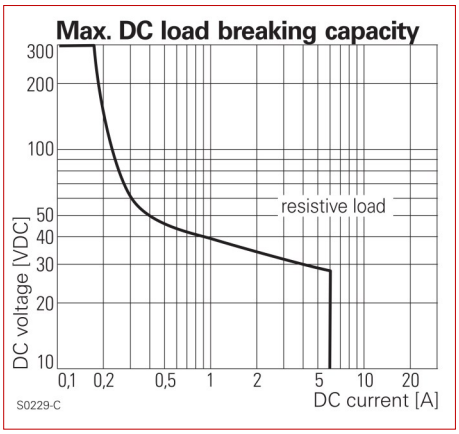
Contact material
2 $AgSnO_2$, gold plated
3 $AgSnO_2$

Coil

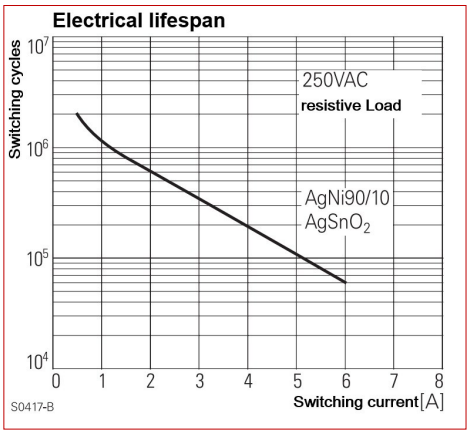
LB2	12 VDC	**LC4**	24 VDC
SM5	115 VDC/VAC	**TP0**	230 VDC/VAC

Other types on request

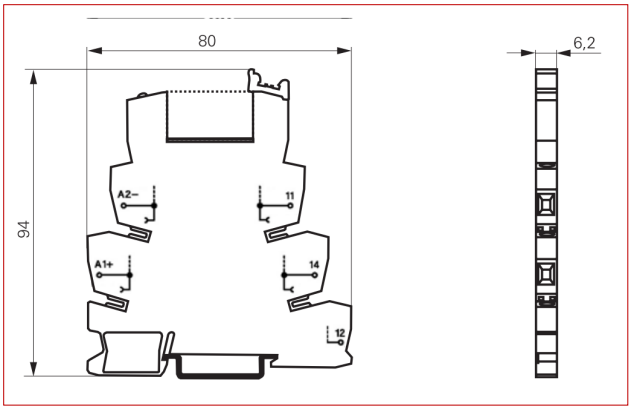
DC LOAD BREAKING CAPACITY



ELECTRICAL LIFESPAN



DIMENSIONS



Product key	Socket	Terminals	Relay	Contacts	Coil	Part number
ST3P2LC4	ST3FLC4	screw	V23092-S1024-A201	$AgSnO_2$ gold pl.	24 VDC	3-1416100-0
ST3P3LB2			V23092-S1012-A301	$AgSnO_2$	12 VDC	3-1416100-1
ST3P3LC4			V23092-S1024-A301		24 VDC	3-1416100-2
ST3P3SM5	ST3FSM5		V23092-S1060-A301		115 VDC/VAC	3-1416100-3
ST3P3TP0	ST3FTP0				230 VDC/VAC	3-1416100-4
ST4P2LC4	ST4FLC4	cage clamp	V23092-S1024-A201	$AgSnO_2$ gold pl.	24 VDC	3-1416100-5
ST4P3LB2			V23092-S1012-A301	$AgSnO_2$	12 VDC	3-1416100-6
ST4P3LC4			V23092-S1024-A301		24 VDC	3-1416100-7
ST4P3SM5	ST4FSM5		V23092-S1060-A301		115 VDC/VAC	3-1416100-8
ST4P3TP0	ST4FTP0				230 VAC/VAC	3-1416100-9

ACCESSORIES

Accessories	
DIN rail mounted plug-in socket for SNR relays, 24V-DC, 6A, incl. protection diode, with screw terminals	**ST3FLC4**
SNR jumper bar, red, 500mm	**ST37001**
SNR jumper bar, blue, 500mm	**ST37002**
SNR jumper bar, grey, 500mm	**ST37003**
Marking plate, 1 plate= 100pcs.	**ST37040**