Force Guided Relay on DIN-rail SR6 Z

■ **6 pole relay with force guided contacts according to EN 61810-3**
■ **DIN rail mounting**
■ **AC / DC input**
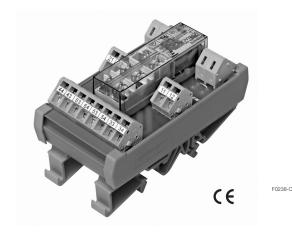
Typical applications
contact monitoring in railway, elevator and machine controls

F0238-C

Approvals

relay SR6: VDE, UL, TUV, CQC
module SR6Z: CE
Technical data of approved types on request

Contact Data

Contact arrangement	3 form A (NO) and 3 form B (NC),
	4 form A (NO) and 2 form B (NC),
	5 form A (NO) and 1 form B (NC)
Rated voltage	250VAC
Max. switching voltage	250VAC
Rated current	8A
Contact material	$AgSnO_2$,
Contact style	single contact, force guided
	type A according to EN 61810-3
Min. recommended contact load	5V, 10mA
Initial contact resistance	≤100mΩ at 1A, 24VDC
	≤20Ω at 10mA, 5VDC
Frequency of operation, with/without load	$6/150min^{-1}$
Contact ratings, IEC60947-5-1,	
on 1 form A (NO) contact	AC15-5A
	DC13-6A
Mechanical endurance	$10x10^6$ operations

Coil Data

Coil voltage range	6 to 115 VAC/VDC,
	230VAC
DC energizing voltage U_{rtd}	6, 12, 18, 21, 24, 36, 40, 48, 60, 115VDC
AC/DC energizing voltage U_{rtd}	24, 115VAC/VDC
AC energizing voltage U_{rtd}	230VAC
Operative range	90 to 110% of U_{rtd}
Release voltage (+23°C)	10% of U_{rtd}
Max. coil power DC versions	1200mW
Max. system power AC/DC versions	2400mVA

Insulation Data

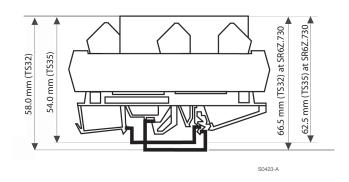|	
Initial dielectric strength	
between open contacts	$1000V_{rms}$
between contact and coil	$3000V_{rms}$
between adjacent contacts	$2000V_{rms}$
Clearance/creepage	
between open contacts	microdisconnection
between contact and coil	≥5.5/5.5mm
between adjacent contacts	≥2,8 /2.8mm
Insulation to EN 62477 (former EN 50178), , type of insulation	
between contact and coil	reinforced
between adjacent contacts	basic

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	
for mounting/handling	0 to 40°C
in operation	-25 to 50°C
SR6ZC 730 only	-25 to 40°C
Terminal type	screwless clamp connectors
Wire cross section	
solid wire	$2.5mm^2$
stranded wire	$2.5mm^2$
stranded wire with bootlace crimp	$1.5mm^2$
Mounting position	any
Weight	90g
Packaging unit	2

Dimensions

58.0 mm (TS32)
54.0 mm (TS35)
66.5 mm (TS32) at SR6Z.730
62.5 mm (TS35) at SR6Z.730

S0423-A

Module width 46 mm
Module length 87 mm

Fit onto mounting rails according to
DIN EN 60175

Datasheets and product specification
according to IEC 61810-1 and to be used
only together with the 'Definitions' section.

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' sec-
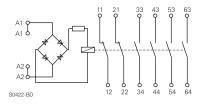tion, application notes and all specifications
are subject to change.

Force Guided Relay on DIN-rail SR6 Z (Continued)

Terminal assignment
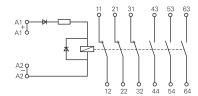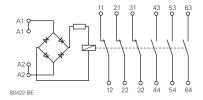
DC module, 4 NO+2 NC version

DC module, 3 NO+3 NC version

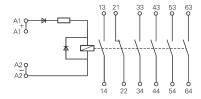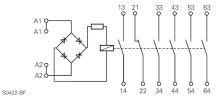

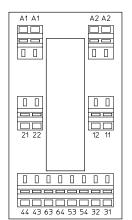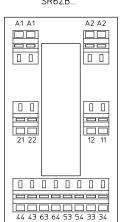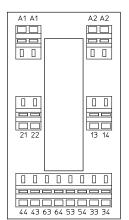DC module, 5 NO+1 NC version

AC/DC module, 4 NO+2 NC version

S0422-BD

AC/DC module, 3 NO+3 NC version

S0422-BE

AC/DC module, 5 NO+1 NC version

S0422-BF

SR6ZA...

21 22   12 11

44 43 63 64 53 54 32 31

SR6ZB...

21 22   12 11

44 43 63 64 53 54 33 34

SR6ZC...

21 22   13 14

44 43 63 64 53 54 33 34

S6Z8004

Product code structure

Typical product code **SR6Z** | **B** | **024**

Type		
SR6Z	Relay with force guided contacts on DIN-rail SR6 Z	

Contact configuration

A	3 form A (NO) + 3 form B (NC) contacts
B	4 form A (NO) + 2 form B (NC) contacts
C	5 form A (NO) + 1 form B (NC) contacts

Coil

DC Coil code = rated coil voltage (e.g. 024=24 VDC)
AC/DC coil code: 524=24 VAC/VDC, 615=115 VAC/VDC
AC coil code: 730=230 VAC

Other types on request

Product code	Type	Contact configuration	Contact material	Coil	Part number
SR6ZA024	6-pole	3 form A + 3 form B	AgSnO$_2$	24VDC	7-1415033-1
SR6ZA524	force guided	3 NO + 3 NC		24VAC/VDC	9-1415059-1
SR6ZA615	relay module	contacts		115VAC/VDC	1415060-1
SR6ZA730				230VAC	1-1415060-1
SR6ZB024		4 form A + 2 form B		24VDC	5-1415033-1
SR6ZB524		4 NO + 2 NC		24VAC/VDC	2-1415060-1
SR6ZB615		contacts		115VAC/VDC	6-1415046-1
SR6ZB730				230VAC	3-1415060-1
SR6ZC024		5 form A + 1 form B		24VDC	3-1415042-1
SR6ZC524		5 NO + 1 NC		24VAC/VDC	4-1415060-1
SR6ZC615		contacts		115VAC/VDC	5-1415060-1
SR6ZC730				230VAC	6-1415060-1