

Safety Relay SR6

- 6 pole safety relay with either
4 NO+2 NC or 3 NO+3 NC or 5 NO+1 NC contacts
- Forcibly guided contacts according to EN 50205
- Rated current 8 A
- 6 kV surge resistance between poles
- RoHS compliant (Directive 2002/95/EC)
as per product date code 0407



F0206-B

Applications

Emergency shut-off, press control, machine control, elevator and escalator control, safety modules

Approvals

VDE REG.-Nr. 128935, c RU us E214024, 968/EL 141.01/03
Technical data of approved types on request

Contact data

Contact configuration	3 NO contacts and 3 NC contacts or 4 NO contacts and 2 NC contacts or 5 NO contacts and 1 NC contact
Contact set	single contact, forcibly guided type A according to EN 50205
Type of interruption	micro disconnection
Rated current	8 A
Rated voltage / max. switching voltage AC	240 / 400 VAC
Maximum breaking capacity AC	2000 VA
Utilization class (AC-15) acc. IEC 60947-5-1	
NO contact	I_e 3 A / U_e 250 VAC (inrush 30 A)
NC contact	I_e 1.5 A / U_e 250 VAC (inrush 15 A)
Contact material	AgSnO ₂
Minimum contact load	10 mA / 5 V
Contact resistance	≤ 100 mOhm / 1 A / 24 VDC ≤ 20 Ohm / 10 mA / 5 VDC
Mechanical endurance	10x10 ⁶ cycles
Rated frequency of operation with / without load	6 min ⁻¹ / 150 min ⁻¹

Coil data

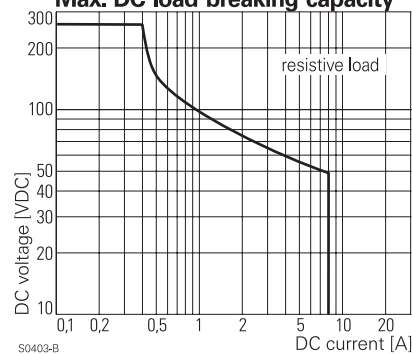
Rated coil voltage range DC coil	5...110 VDC
Coil power DC coil	appr. 1200 mW
Operative range	2

Coil versions, DC-coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release/Reset voltage VDC	Coil resistance Ohm	Rated coil power mW
005	5	3.8	0.5	21±10%	1190
006	6	4.5	0.6	30±10%	1200
009	9	6.8	0.9	68±10%	1191
012	12	9.0	1.2	120±10%	1200
018	18	13.5	1.8	270±10%	1200
021	21	15.8	2.1	368±10%	1198
024	24	18.0	2.4	480±10%	1200
036	36	27.0	3.6	1080±10%	1200
040	40	30.0	4.0	1333±10%	1200
048	48	36.0	4.8	1920±10%	1200
060	60	45.0	6.0	3000±12%	1200
085	85	64.0	8.5	6021±12%	1200
110	110	82.5	11.0	10080±12%	1200

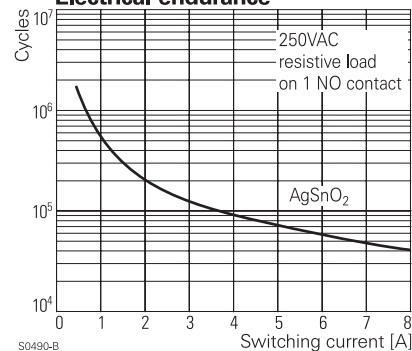
All figures are given for coil without preenergization, at ambient temperature +23°C
Other coil voltages on request

Max. DC load breaking capacity



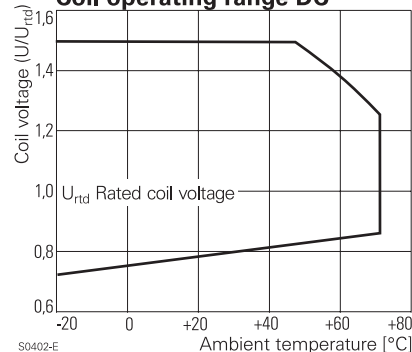
S0403-B

Electrical endurance



S0490-B

Coil operating range DC



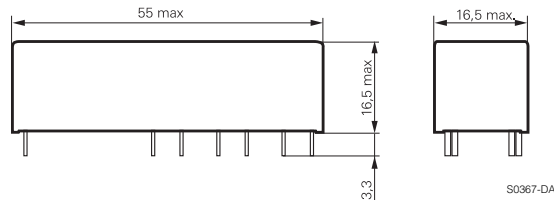
S0402-E

Insulation	
Insulation resistance coil-contact circuit	> 100x10 ⁶ Ohm
Dielectric strength coil-contact circuit	3000 V _{rms}
open contact circuit	1500 V _{rms}
adjacent contact circuits	3000 V _{rms}
Clearance / creepage coil-contact circuit	≥ 5.5 / 5.5 mm
adjacent contact circuits	≥ 5.5 / 5.5 mm
Material group of insulation parts	≥ IIIa
Tracking index of relay base	CTI 250
Insulation to IEC 60664-1	
Type of insulation coil-contact circuit	basic
open contact circuit	functional
adjacent contact circuits	basic
Rated insulation voltage	250 V
Pollution degree	2
Rated voltage system	230/400 V
Overvoltage category	III
Insulation to EN 50178	
Type of insulation coil-contact circuit	reinforced
adjacent contact circuits	reinforced

Other data	
RoHS - Directive 2002/95/EC	compliant as per product date code 0407
Ambient temperature range	-25...+70°C
Vibration resistance (function) NO / NC contact	> 8 / 2.5 g, 10...200 Hz
Shock resistance (function) NO / NC contact	> 10 / 2.5 g, 16 ms half sine
Category of protection	RT III ¹⁾
Resistance to soldering heat	260°C / 5 s
Relay weight	30 g
Packaging unit	10 pcs
¹⁾ please contact technical support for washing parameters	

Accessories	
PCB socket and hold down clip	contact technical support

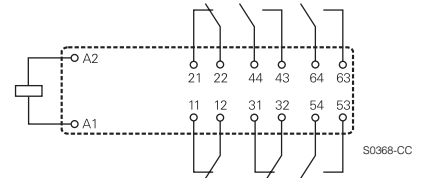
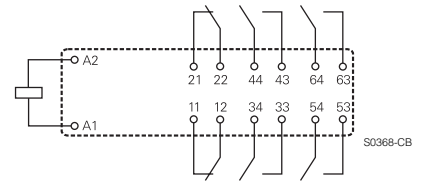
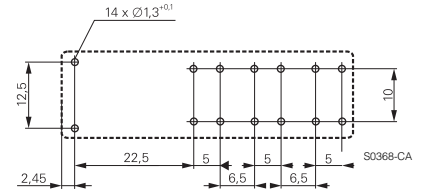
Dimensions



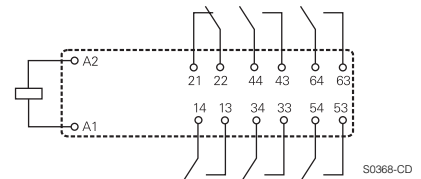
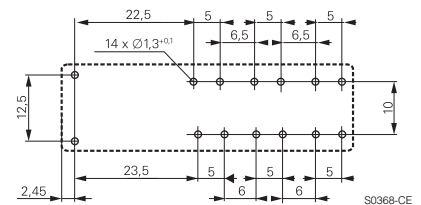
PCB layout / terminal assignment

Bottom view on solder pins

4 NO+2 NC and 3 NO+3 NC versions



5 NO + 1 NC version



Product key



Type	
Version	A1 standard
Coil	Coil code = rated coil voltage (e.g. 024=24 VDC)
Contact set	A single contact
Contact material	5 AgSnO ₂
Contact configuration	33 3 NO and 3 NC contacts 42 4 NO and 2 NC contacts 51 5 NO and 1 NC contacts

Other types on request

Product key	Type	Contact configuration	Contact material	Coil	Part number
V23050-A1005-A533	standard	AgSnO ₂	3 NO + 3 NC	5 VDC	8-1415017-1
V23050-A1005-A542			4 NO + 2 NC		0-1393260-1
V23050-A1005-A551			5 NO + 1 NC		2-1415017-1
V23050-A1006-A533			3 NO + 3 NC	6 VDC	9-1415017-1
V23050-A1006-A542			4 NO + 2 NC		0-1393260-2
V23050-A1006-A551			5 NO + 1 NC		3-1415017-1
V23050-A1009-A533			3 NO + 3 NC	9 VDC	0-1415018-1
V23050-A1009-A542			4 NO + 2 NC		0-1393260-3
V23050-A1009-A551			5 NO + 1 NC		4-1415017-1
V23050-A1012-A533			3 NO + 3 NC	12 VDC	1-1415015-1
V23050-A1012-A542			4 NO + 2 NC		0-1393260-4
V23050-A1012-A551			5 NO + 1 NC		1-1415017-1
V23050-A1015-A533			3 NO + 3 NC	15 VDC	1-1415018-1
V23050-A1015-A542			4 NO + 2 NC		6-1415014-1
V23050-A1015-A551			5 NO + 1 NC		5-1415017-1
V23050-A1018-A533			3 NO + 3 NC	18 VDC	2-1415018-1
V23050-A1018-A542			4 NO + 2 NC		0-1393260-5
V23050-A1018-A551			5 NO + 1 NC		6-1415017-1
V23050-A1021-A533			3 NO + 3 NC	21 VDC	3-1415018-1
V23050-A1021-A542			4 NO + 2 NC		0-1393260-6
V23050-A1021-A551			5 NO + 1 NC		7-1415017-1
V23050-A1024-A533			3 NO + 3 NC	24 VDC	0-1415015-1
V23050-A1024-A542			4 NO + 2 NC		0-1393260-7
V23050-A1024-A551			5 NO + 1 NC		0-1415017-1
V23050-A1036-A533			3 NO + 3 NC	36 VDC	4-1415018-1
V23050-A1036-A542			4 NO + 2 NC		0-1393260-8
V23050-A1036-A551			5 NO + 1 NC		0-1415019-1
V23050-A1040-A533			3 NO + 3 NC	40 VDC	5-1415018-1
V23050-A1040-A542			4 NO + 2 NC		0-1393260-9
V23050-A1040-A551			5 NO + 1 NC		1-1415019-1
V23050-A1048-A533			3 NO + 3 NC	48 VDC	6-1415018-1
V23050-A1048-A542			4 NO + 2 NC		1-1393260-0
V23050-A1048-A551			5 NO + 1 NC		2-1415019-1
V23050-A1060-A533			3 NO + 3 NC	60 VDC	7-1415018-1
V23050-A1060-A542			4 NO + 2 NC		1-1393260-1
V23050-A1060-A551			5 NO + 1 NC		3-1415019-1
V23050-A1085-A533			3 NO + 3 NC	85 VDC	8-1415018-1
V23050-A1085-A542			4 NO + 2 NC		1-1393260-2
V23050-A1085-A551			5 NO + 1 NC		4-1415019-1
V23050-A1110-A533			3 NO + 3 NC	110 VDC	9-1415018-1
V23050-A1110-A542			4 NO + 2 NC		1-1393260-3
V23050-A1110-A551			5 NO + 1 NC		5-1415019-1