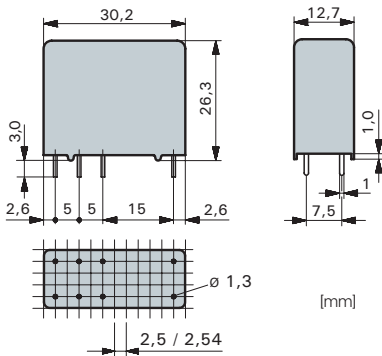




Relay data

- PCB relay with forcibly guided contacts
- Protective separation between coil and contacts (leakage and creepage distances > 14mm); protective separation diagonally between left and right contact side (leakage and creeping distances > 5.5mm)
- EN 50205, type B
- 2 CO contacts
- Mean coil power 0.7W
- Holding power 0.21 W



Contact material	AgSnO ₂ +0.2μm Au
Type of contact	Single contact
Rated switching capacity	250VAC 8A AC1 2'000VA
Electr. life AC1 (360 cycles/h)	approx. 100'000
Inrush current max.	15A for 20ms
Switching voltage range	5 to 250 VDC/VAC
Switching current range*	10mA to 8A
Switching capacity range*	0.12VA(W) to 2'000VA
Contact resistance (as delivered)	≤100mΩ/28 V/100mA

* Guide values

Standard coils for direct current (other voltages on request)

Nominal voltage VDC	Min. pick-up voltage at 20°C	Drop-out voltage at 20°C	Nominal current in mA	Resistance in Ohm at 20°C	Tolerance in %
5	3,75	≥ 0,5	144,0	34,7	± 10
6	4,5	≥ 0,6	120,0	50	± 10
12	9,0	≥ 1,2	60,0	200	± 10
18	13,5	≥ 1,8	40,0	450	± 10
24	18,0	≥ 2,4	30,0	800	± 10
48	36,0	≥ 4,8	15,0	3'200	± 10
60	45,0	≥ 6,0	12,0	5'000	± 13
110	82,5	≥ 11,0	6,5	16'800	± 15

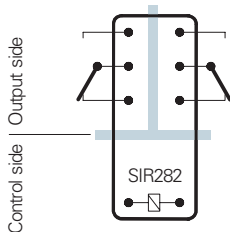
Ordering example

SIR282 24VDC Sen AgSnO₂ ZGR08

- Type designation
- Coil voltage
- sensitive coil
- Contact material
- Wash-resistant / with O-ring

General data

Circuit diagram (view on relay upper side)



Mechanical life	> 50 x 10 ⁶ operations
Switching frequency, mechanical	20Hz
Response time	typically 12ms
Drop-out time**	typically 5ms
Bounce time of NO contact	typically 4ms
Bounce time of NC contact	typically 8ms
Vibration resistance	10-55Hz, AK 10g, RK 1.5g
Test voltage coil/contacts	5'000Veff 1min
Test voltage contact set/contact set	4'000Veff 1min
Test voltage contact open	1'500Veff 1min
Insulation resistance	10 ¹¹ Ω
Creepage resistance	CTI 550
Weight	approx. 20g
Mounting position	any
Ambient temperature	-40°C to +70°C
Type of protection	RT II / RT III optionally
Solder bath temperature	270°C/5s
Thermal resistance	50K/W
Temperature limit for coil	120°C

** without spark suppression

Insulation terms

Coil/contacts: Double or reinforced insulation > 14mm
 Left to right contact side:
 Double or reinforced insulation > 5.5mm

Tests, regulations

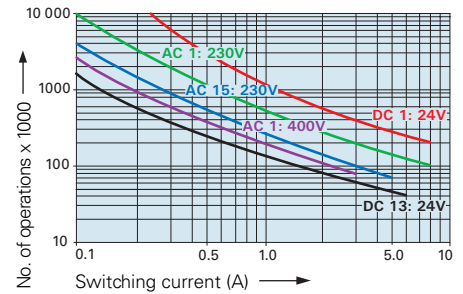
Approvals	SEV, UL, cUL, TÜV
Insulation class IEC 60664-1	250VAC
Protection class II	VDE 0106
Fire protection requirements	UL 94 / V1

Options, accessories

Wash-resistant with O-Ring
 Sealed RT III on request
 PCB socket, DIN rail socket see page 27

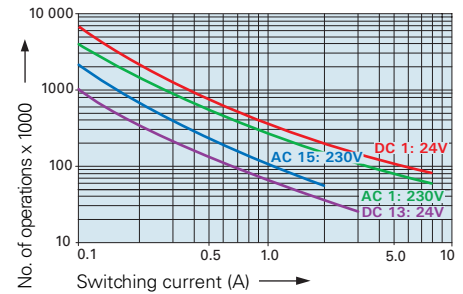
Diagrams

Contact lifetime for NO contact



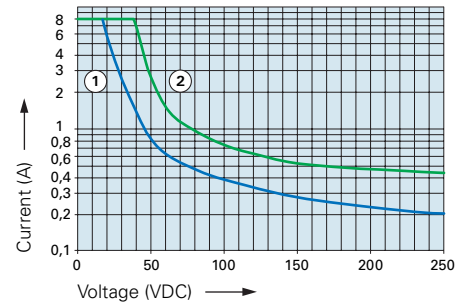
Max. switching characteristics (acc. to DIN EN 60947-5-1 table C2):
 AC 15: 230V/5A, DC13: 24V/6A; UL 508: C300
 Maximal contact load at AC 1 with 230V:
 2 contacts each with 8A

Contact lifetime for NC contact



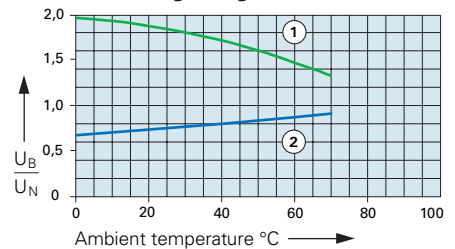
Max. switching characteristics (acc. to DIN EN 60947-5-1 table C2):
 AC 15: 230V/2A, DC13: 24V/3A

Load limit curve with direct current



- 1) Inductive load, L/R 40 ms
- 2) Resistive load

Excitation voltage range



- 1) Max. excitation voltage with contact load ≤ 2A
- 2) Min. excitation voltage (guaranteed values) without previous operation

No heat accumulation due to intrinsic heating of other components. Continuous duty 100%.