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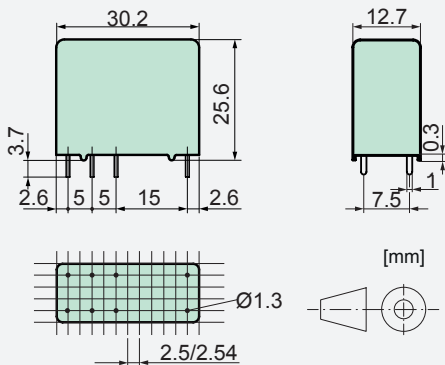
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Relay Key Data

- 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 creepage distances >5.5mm)
- EN50205 type B
- 2 CO contacts
- Mean coil power approx. 0.7W
- Holding coil power 0.21W
- For railway application (EN50155) on request

Dimensions



Contact Data

Contact material	AgSnO ₂ +0.2µm Au
Type of contact	Single contact
Rated switching capacity	250VAC 8A AC1 2'000VA
Electr. life AC 1(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*	120mW to 2'000W(VA)
Contact resistance (as delivered)	≤100mΩ/28V/100mA

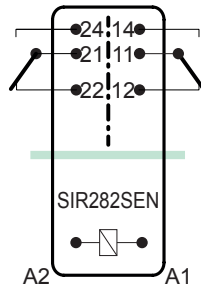
*Guided values

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
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	≥6.0	12.0	5'000 ± 13%
110	82.5	≥11.0	6.5	16'800 ± 15%

Circuit Diagram (view on relay upper side)



Insulation Data

- Double or reinforced insulation	at 250VAC
- Air and creepage distance	>5.5mm
- Test voltage	4'000V/50Hz/1min
- Double or reinforced insulation	at 250VAC
- Air and creepage distance	>14mm
- Test voltage	5'000V/50Hz/1min
Test voltage contact open	1'500V/50Hz/1min
Creepage resistance	CTI 250
Pollution degree	2
Overvoltage category	III
Insulation resistance at Up 500VDC	>100MΩ

Additional Data

Mechanical endurance	>10x10 ⁶ operations
Switching frequency, mechanical	15Hz
Response time (all NO closed)	typically 12ms
Drop-out time** (all NC closed)	typically 5ms
Bounce time of NO contact	typically 4ms
Bounce time of NC contact	typically 8ms
Shock resistance 16ms	NO > 10g NC > 2.5g
Vibration resistance (10-55Hz)	NO > 10g NC > 1g
Resistance to short circuiting contacts	1'000A SCPD 10A gG/gL (pre-fuse)
Ambient temperature	-40°C to +70°C
Thermal Resistance	50K/W
Temperature limit for coil	120°C
Weight	ca. 20g
Mounting position	any
Type of protection	RT II
Solder bath temperature	270°C/5s

**without spark suppression

Tests, Regulations

Approvals

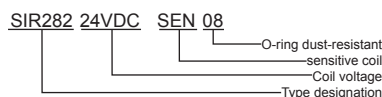


UL File E188953	Sec. 1
Insulation class IEC 60664-1	250VAC
Protection class II	VDE 0106
Fire protection requirements	UL 94 / V1

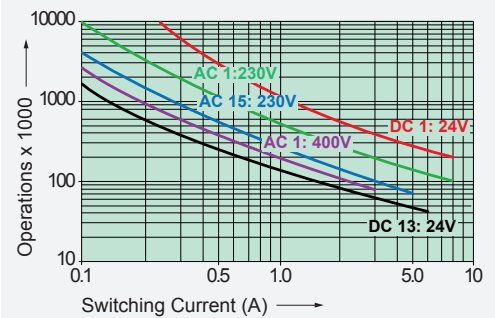
Options, Accessories

PCB socket, DIN rail socket	see page 30
Sealed RT III	on request
Dust resistant with O-Ring	

Product Key



Contact Lifetime for NO Contacts

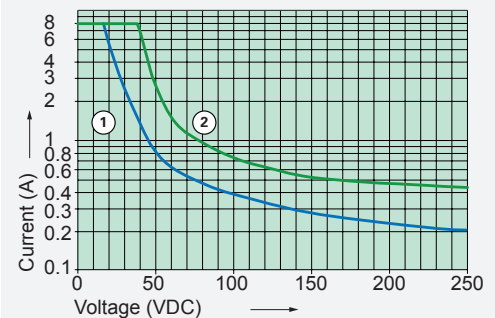


Maximal switching characteristics (DIN EN60947-5-1, Tab. C2)

AC 15:	230V / 5A
DC 13:	24V / 6A
UL 508:	C300

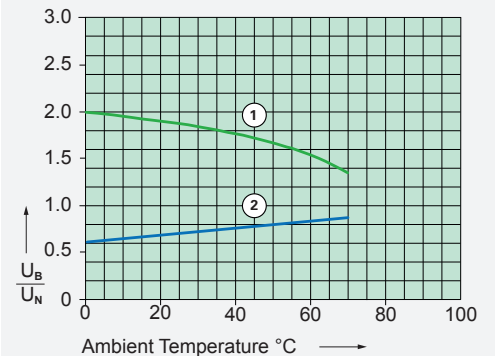
Maximal contact load at AC 1 with 230V:
2 contacts with 8A each

Load Limit Curve with Direct Current



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

Excitation Voltage Range



- 1) Max. excitation voltage with contact load: ≤5A
- 2) Min. excitation voltage (guaranteed values) without previous operation

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