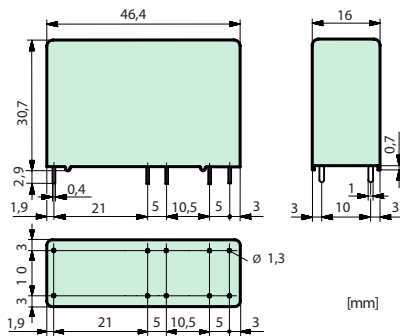


Relay Key Data

- PCB Relay with forcibly guided Contacts
- Protective separation between Coil / Control Contacts (>10mm), as well as protective separation between the Output Contacts themselves (>8mm)
- EN50205 Type A
- Contact Mounting:
SIR312 3NO / 1NC
SIR222 2NO / 2NC
- Small external Dimensions
- Mean Coil Power 0.6 W
- Holding Power 0.18 W
- For Railway Application (EN50155) on request

Dimensions



Contact Data

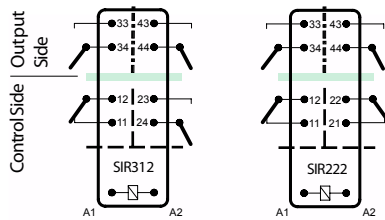
Contact Material	AgSnO ₂ +0.2µm Au
Type of Contact	Crest Contact
Rated Switching Capacity	250VAC 10A AC1 2'500VA
Electr. life AC1(360 cycles/h)	approx. 100'000
Inrush Current max.	25A for 20ms
Switching Voltage Range	5 to 250 VDC/VAC
Switching Current Range*	10mA to 10A
Switching Capacity Range*	60mW to 2'500W(VA)
Contact resistance (as delivered)	≤100mΩ/6V/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	3.5	≥0.5	121.0	41 ± 10%
6	4.2	≥0.6	100.0	60 ± 10%
12	8.4	≥1.2	50.0	240 ± 10%
18	12.6	≥1.8	33.3	540 ± 10%
24	16.8	≥2.4	25.2	950 ± 10%
48	33.6	≥4.8	12.6	3'800 ± 10%
60	42.0	≥6.0	10.0	6'000 ± 13%
110	77.0	≥11.0	5.5	20'000 ± 15%

Circuit Diagram (Topview)



Insulation Data

- Basic Insulation bei 250VAC
- Air and Creepage Distance >4mm
- Test Voltage 2'500V/50Hz/1min
- Double or Reinforced Insulation at 250VAC
- Air and Creepage Distance >8mm
- Test Voltage 4'000V/50Hz/1min
- Double or Reinforced Insulation bei 250VAC
- Air and Creepage Distance >10mm
- Test Voltage 5'000V/50Hz/1min

Test Voltage contacts open	1'500V/50Hz/1min
Creepage Resistance	CTI 250
Pollution Degree	2
Overvoltage Category	III
Insulation Resistance at Up 500VDC	>100 MΩ

Additional Relay Data

Mechanical life	>10x10 ⁶ operations
Switching frequency, mechanical	15Hz
Response Time (all NO closed)	typ. 15ms
Drop-Out Time** (all NC closed)	typ. 4ms
Bounce Time of NO Contact	typ. 6ms
Bounce Time of NC Contact	typ. 12ms
Shock Resistance	16ms NO > 10g NC > 6g
Vibration Resistance (10-200Hz)	NO > 5g NC > 1.5g
Resistance to short circuiting output contacts	1'000A SCPD 10A gG/gL (pre-fuse)
Ambient Temperature	-40°C to +70°C
Thermal Resistance	55 K/W
Temperature Limit for Coil	120°C
Weight	approx. 30g
Mounting Position	any
Type of Protection	RT II
Solder bath Temperature	270°C/5s

**without spark suppression

Tests, Regulations

Approvals

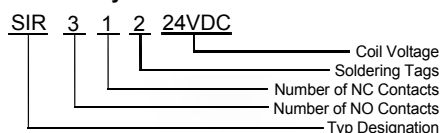


UL File E188953	Sec. 3
Insulation class (IEC 60664-1)	250VAC
Protection class II	VDE 0106
Fire Protection requirements	UL 94 / V0

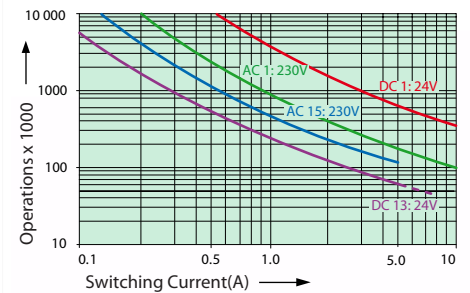
Options, Accessories

PCB Socket see Page 29

Product Key



Contact Lifetime



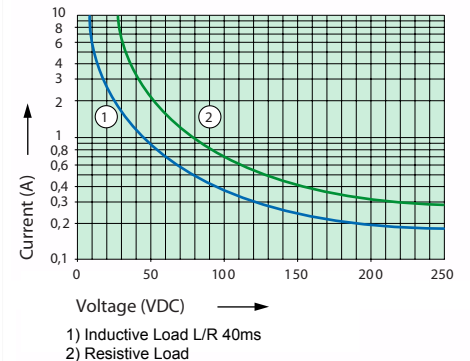
Max. Switching Characteristics (DIN EN60947-5-1, Tab.C2):

- AC 15: 230V / 5A
- DC 13: 24V / 7.5A / 0.1Hz
- UL 508: C600 / R300

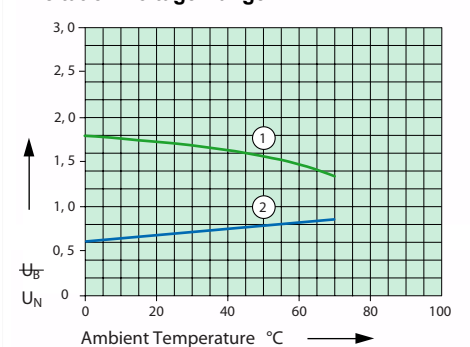
Maximal Contact Load at AC1 with 230V:

- 2 Contacts with 10A each
- 3 Contacts with 8.4A each

Load Loamit Curve with Direct Current



Excitation Voltage Range



- 1) Max. excitation Voltage with Contact Load: ≤6A
- 2) Min. excitation Voltage (guaranteed Values) without previous operation.

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