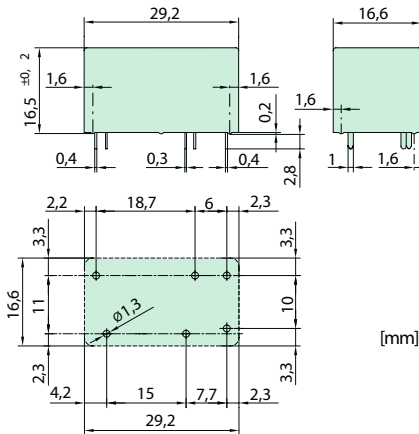




### Relay Key Data

- PCB Relay with forcibly guided Contacts
- Protective separation between Coil and Contacts (>5.5mm) as well as Contacts side by side (>5.5mm)
- EN50205 Type A
- Double and Reinforced Insulation
- Contact Mounting: SIS112 1NO / 1NC
- Small external Dimensions
- Mean Coil Power 0.27W
- Holding Power 0.08W
- For Railway Application EN50155 on request

### Dimensions



### Contact Data

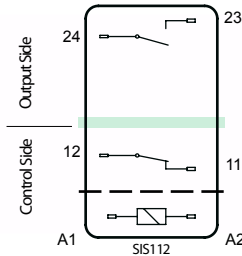
Contact Material	AgCuNi+0.2-0.4µm Au
Type of Contact	Single Contact with notched Crown
Rated Switching Capacity	250VAC 6A AC1 1'500VA
Electr. life AC1(360 cycles/h)	approx. 100'000
Inrush Current max.	30A for 20ms
Switching Voltage Range	5 to 250 VDC/VAC
Switching Current Range*	5mA to 6A
Switching Capacity Range*	60mW to 1'500W(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	54.9	91 ± 10%
6	≤4.2	≥0.6	46.1	130 ± 10%
9	≤6.3	≥0.9	30.5	295 ± 10%
12	≤8.4	≥1.2	23.0	520 ± 10%
18	≤12.6	≥1.8	15.2	1'180 ± 10%
24	≤16.8	≥2.4	11.4	2'100 ± 10%
48	≤33.6	≥4.8	5.7	8'350 ± 13%
60	≤42.0	≥6.0	4.5	13'100 ± 15%

### Circuit Diagram (Topview)



### Insulation Data

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

Test Voltage contacts open	1'500V/50Hz/1min
Creepage Resistance	CTI 175
Pollution Degree	2
Overvoltage Category	III
Insulation Resistance at Up 500VDC	>100 MΩ

### Additional Relay Data

Mechanical life	>10x10 <sup>6</sup> operations
Switching frequency, mechanical	15Hz
Response Time (all NO closed)	typ. 10ms
Drop-Out Time** (all NC closed)	typ. 3ms
Bounce Time of NO Contact	typ. 2ms
Bounce Time of NC Contact	typ. 15ms
Shock Resistance 16ms	NO > 17g NC > 7g
Vibration Resistance (10-200Hz)	NO > 7g NC > 2g
Resistance to short circuiting output contacts	1'000A SCPD 6A gG/gL (pre-fuse)
Ambient Temperature	-40°C to +70°C
Thermal Resistance	55 K/W
Temperature Limit for Coil	120°C
Weight	approx. 18g
Mounting Position	any
Type of Protection	RT III
Solder bath Temperature	270°C/5s

\*\*without spark suppression

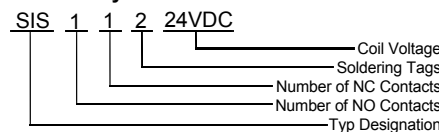
### Tests, Regulations Approvals

UL File E188953	Sec. 5
Insulation class (IEC 60664-1)	250VAC
Protection class II	VDE 0106
Fire Protection requirements	UL 94 / V0

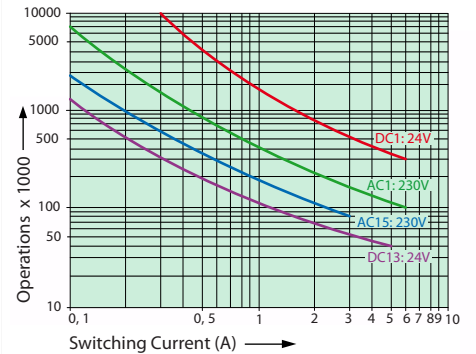
### Options, Accessories

None

### Product Key



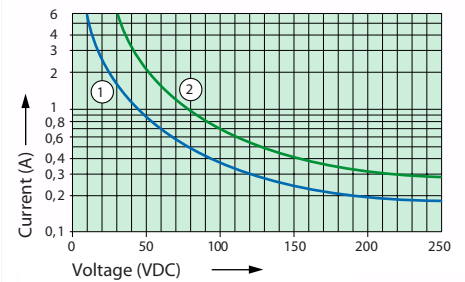
### Contact Lifetime



### Max. Switching Characteristics (DIN EN60947-5-1 / EN 60947-5-1):

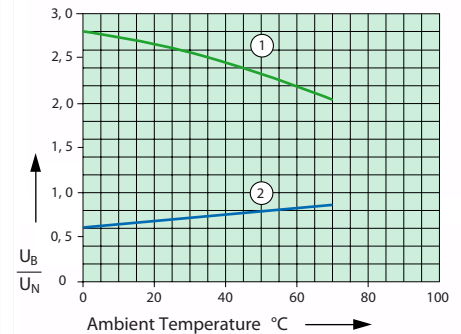
- AC1: 250V / 6A
- AC15: 230V / 3A
- DC1: 24V / 6A
- DC13: 24V / 5A / 0.1Hz
- UL 508: B300/ R300

### Load Limit Curve Direct Current



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

### Excitation Voltage Range



- 1) Max. excitation Voltage with Contact Load: <4A
- 2) Min. excitation Voltage (guaranteed Values) without previous operation.

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