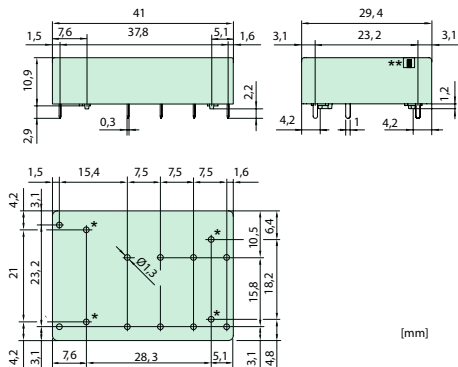




### Relay Key Data

- 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
- SMD arrangement below relay possible
- Kontakt Mounting: SIF422 4NO / 2NC
- Small Dimensions: just 10.9mm
- Mean Coil Power 0.70W
- Holding Power 0.21W
- For Railway Application EN 50 155 on request

### Dimensions



- \* bei SMD-Bestückung nicht bohren
- \*\* offener Entlüftungskamin

### Contact Data

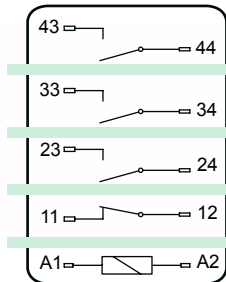
Contact Material	AgCuNi+0.2µm Au
Type of Contact	Single contact with notched crown
Rated Switching Capacity	250VAC 8A AC1 2'000VA
Electr. life AC1(360 cycles/h)	approx. 100'000
Inrush Current max.	30A for 20ms
Switching Voltage Range	5 to 250 VDC/VAC
Switching Current Range*	5mA to 8A
Switching Capacity Range*	60mW to 2'000W(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	140.0	35.7 ± 10%
12	≤8.4	≥1.2	58.5	205 ± 10%
18	≤12.6	≥1.8	39.1	460 ± 10%
20	≤14.0	≥2.0	35.0	570 ± 10%
24	≤16.8	≥2.4	29.2	820 ± 10%
48	≤33.6	≥4.8	14.6	3'280 ± 10%
60	≤42.0	≥6.0	11.7	5'100 ± 13%
110	≤77.0	≥11.0	6.3	17'250 ± 17%

### Circuit Diagram (Topview)



### Insulation Data

- Double or Reinforced Insulation at 250VAC
- Air and Creepage Distance >5.5mm
- Test Voltage 4'000V/50Hz/1min

Test Voltage contacts open	1'500V/50Hz/1min
Creepage Resistance	CTI 175
Pollution Degree	2
OvervoltageCategory	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. 12ms
Drop-Out Time** (all NC closed)	typ. 5ms
Bounce Time of NO Contact	typ. 1.5ms
Bounce Time of NC Contact	typ. 15ms
Shock Resistance 16ms	NO > 15g NC > 6g
Vibration Resistance (10-200Hz)	NO > 10g NC > 2g
Resistance to short circuiting output contacts	1'000A SCPD 10A gG/gL (pre-fuse)
Resistance to short circuiting control contacts	1'000A SCPD 6A gG/gL (pre-fuse)
Ambient Temperature	-40°C to +70°C
Thermal Resistance	60 K/W
Temperature Limit for Coil	120°C
Weight	approx. 20g
Mounting Position	any
Type of Protection	RT II
Solder bath Temperature	270°C/5s

\*\*without spark suppression

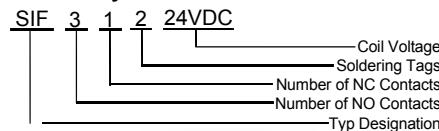
### Tests, Regulations Approvals

UL File E188953	Sec. 6
Insulation class (IEC 60664-1)	250VAC
Protection class II	VDE 0106
Fire Protection requirements	UL 94 / V0

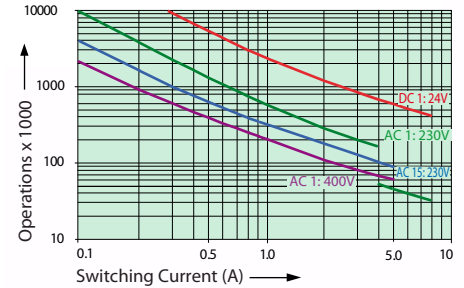
### Options, Accessories

None

### Product Key



### Contact Lifetime



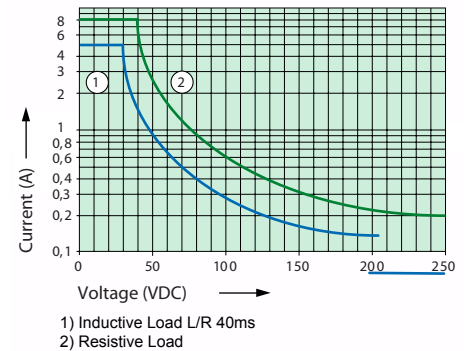
### Max. Switching Characteristics (DIN EN 60947-5-1):

- AC1: 250V / 8A
- AC 15: 230V / 5A
- DC1: 24V / 8A
- DC 13: 24V / 5A / 0.1Hz
- UL 508: B300/ R300

### Maximal Contact Load at AC1 with 230V:

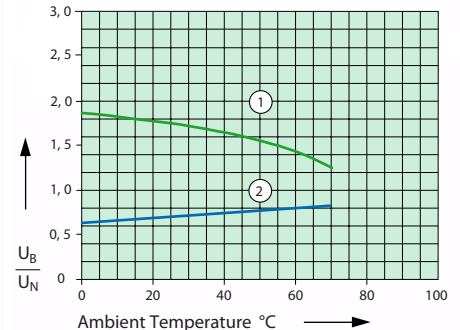
- 2 Contacts with 8A each
- 3 Contacts with 6A each

### Load Limit Curve 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%.