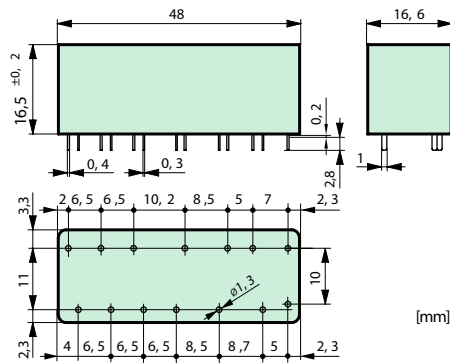




Relay Key Data

- 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: SIS422 4NO / 2NC
- Small external Dimensions
- Mean Coil Power 0.66W
- Holding Power 0.20W
- For Railway Application EN50155 on request

Dimensions



Contact Data

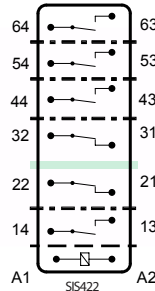
Contact Material	AgCuNi+0.2µm Au
Type of Contact	Single contact with notched crown
Rated Switching Capacity	250VAC 6A AC1 1'500VA
Electr. life AC1(360 cycles/h)	approx. 100'000
Inrush Current max.	30A for 20ms
Switching Voltage Range	5 to 250 VDC/VAC
Switching Current Range*	5mA to 6A
Switching Capacity 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	133	37.5 ± 10%
9	6.3	≥0.9	73.7	122 ± 10%
12	8.4	≥1.2	55.8	215 ± 10%
18	12.6	≥1.8	37.1	485 ± 10%
24	16.8	≥2.4	29.7	860 ± 10%
48	33.6	≥4.8	13.9	3'450 ± 10%
60	42.0	≥6.0	11.1	5'400 ± 13%
110	77.0	≥11.0	6.0	18'300 ± 15%

Circuit Diagram (Topview)



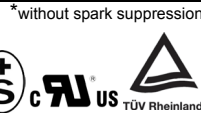
Insulation Data

Basic Insulation	at 250VAC
Air and Creepage Distance	>4mm
Test Voltage	2'500V/50Hz/1min
Double or Reinforced Insulation	
Air and Creepage Distance	>5.5mm
Test Voltage	4'000V/50Hz/1min
Double or Reinforced Insulation	
Air and Creepage Distance	>8mm
Test Voltage	4'000V/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	>10 MΩ

Weitere Daten

Mechanical life	>10x10 ⁶ operations
Switching frequency, mechanical	15Hz
Response Time (all NO closed)	typ. 15ms
Drop-Out Time** (all NC closed)	typ. 5ms
Bounce Time of NO Contact	typ. 2ms
Bounce Time of NC Contact	typ. 15ms
Shock Resistance 16ms	NO > 10g NC > 9g
Vibration Resistance (10-200Hz)	NO > 10g NC > 3g

Resistance to short circuiting output contacts	1'000A SCPD 6A gG/gL (pre-fuse)
Ambient Temperature	-40°C bis +70°C
Thermal Resistance	45 K/W
Temperature Limit for Coil	120°C
Weight	approx. 35g
Mounting Position	any
Type of Protection	RT III
Solder bath Temperature	270°C/5s



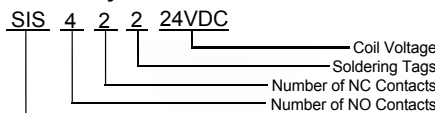
Tests, Regulations Approvals

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

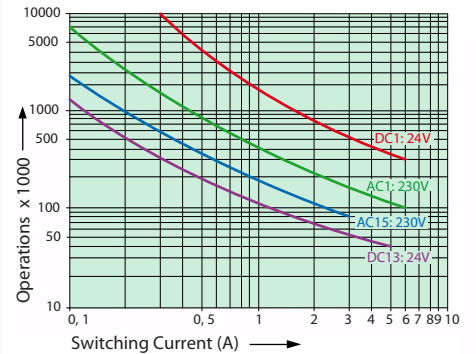
Options, Accessories

None

Product Key



Contact Lifetime



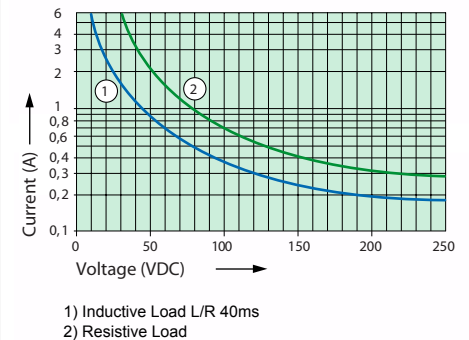
Max. Switching Characteristics (DIN EN60947-5-1 / EN 60947-5-1):

AC1:	250V / 6A
AC 15:	230V / 3A
DC1:	24V / 6A
DC 13:	24V / 5A / 0.1Hz
UL 508:	B300/ R300

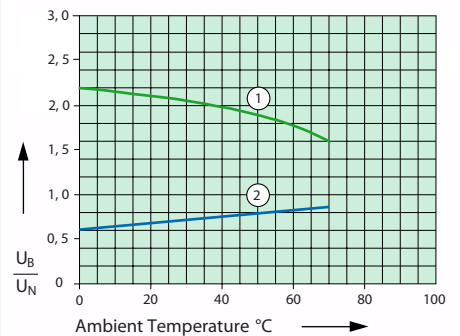
Maximal Contact Load at AC1 with 230V:

- 2 Contacts with 6A each
- 3 Contacts with 4A each
- 4 Contacts with 3A each

Load Limit Curve Direct Current



Excitation Voltage Range



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

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