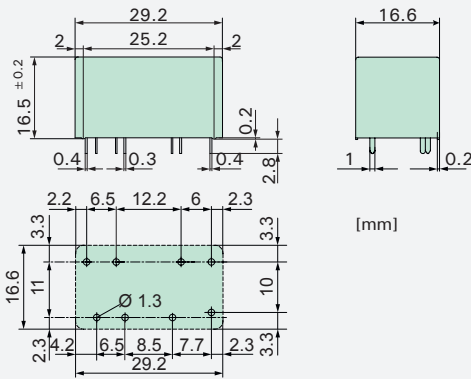




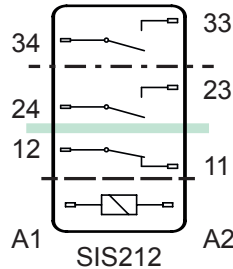
Relay Key Data

- PCB Relay with forcibly guided contacts
- Protective separation between control and load circuit (leakage and creepage distances >8mm)
- EN50205 type A
- Double and reinforced insulation between the contacts
- Contact mounting: SIS212 2NO / 1NC
- Small external dimensions
- Mean coil power 0.6 W
- Holding coil power 0.18 W
- For railway application (EN50155) on request

Dimensions



Circuit Diagram (view on relay upper side)



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	at 250VAC >5.5mm
- Test voltage	4'000V/50Hz/1min
- Double or reinforced insulation	
- Air and creepage distance	at 250VAC >8mm
- Test voltage	4'000V/50Hz/1min
Test voltage contact open	1'500V/50Hz/1min
Creepage resistance	CTI 175
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 10ms
Drop-out time** (all NC closed)	typically 3ms
Bounce time of NO contact	typically 2ms
Bounce time of NC contact	typically 15ms
Shock resistance 16ms	NO > 17g NC > 10g
Vibration resistance (10-200Hz)	NO > 7g NC > 3g
Resistance to short circuiting contacts	1'000A SCPD 6A gG/gL (pre-fuse)
Ambient temperature	-40°C to +70°C
Thermal Resistance	55K/W
Temperature limit for coil	120°C
Weight	ca. 20g
Mounting position	any
Type of protection	RT III
Solder bath temperature	270°C/5s

**without spark suppression

Tests, Regulations

Approvals

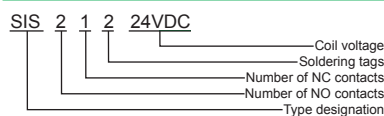


UL File E188953	Sec. 5
Insulation class IEC 60664-1	250VAC
Protection class II	VDE 0106
Fire protection requirements	UL 94 / V0

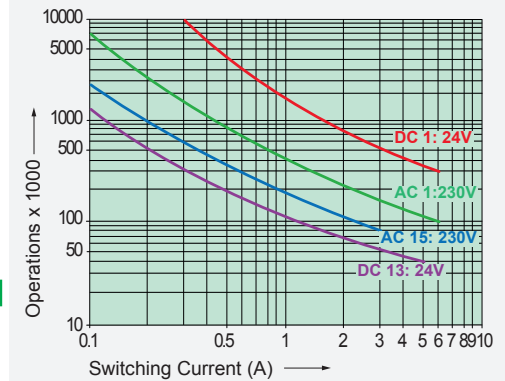
Options, Accessories

none available

Product Key



Contact Lifetime for NO contacts

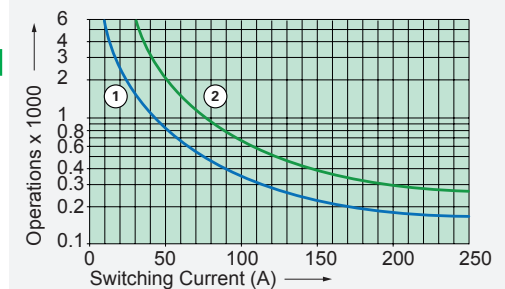


Maximal switching characteristics (DIN EN60947-5-1)

AC 1:	250V / 6A
AC 15:	230V / 3A
DC 1:	24V / 6A
DC 13:	24V / 5A / 0.1Hz
UL 508:	B300 / R300

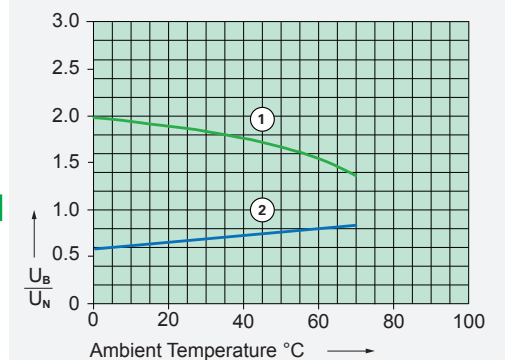
Maximal contact load at AC 1 with 230V:
2 contacts with 6A each

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: <=4A
- 2) Min. excitation voltage (guaranteed values) without previous operation

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

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 AC 1(360 cycles/h)	>90'000
Inrush current max.	30A for 20ms
Switching voltage range	5 to 250 VDC/VAC
Switching current range*	3mA to 6A
Switching capacity range*	40mW 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	120.0	41.5 ± 10%
9	≤6.3	≥0.9	66.6	135 ± 10%
12	≤8.4	≥1.2	50.0	240 ± 10%
18	≤12.6	≥1.8	33.3	540 ± 10%
24	≤16.8	≥2.4	25.0	960 ± 10%
48	≤33.6	≥4.8	12.5	3'840 ± 10%
60	≤42.0	≥6.0	10.0	6'000 ± 13%
110	≤77.0	≥11.0	5.4	20'150 ± 15%