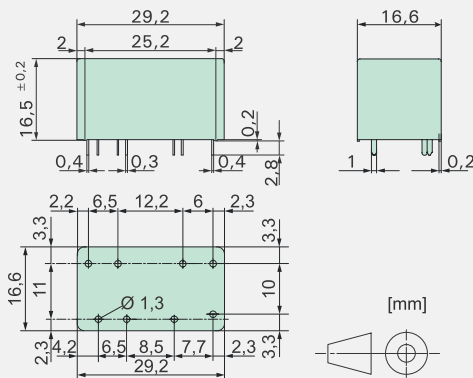




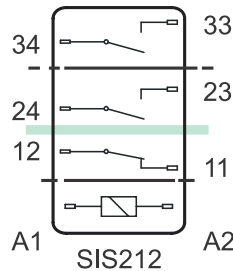
## Relay Key Data

- PCB Relay with forcibly guided contacts
- Protective separation between control and load circuit (leakage and creepage distances >8 mm)
- EN50205 type A
- Double and reinforced insulation between the contacts
- Contact mounting: SIS212 2 NO / 1 NC
- Small external dimensions
- Nominal 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 250 VAC
Air and creepage distance	>4 mm
Test voltage	2500 V / 50 Hz / 1 min
Double or reinforced insulation	
Air and creepage distance	at 250 VAC
Air and creepage distance	>5,5 mm
Test voltage	4000 V / 50 Hz / 1 min
Double or reinforced insulation	
Air and creepage distance	at 250 VAC
Air and creepage distance	>8 mm
Test voltage	4000 V / 50 Hz / 1 min
Test voltage contact open	1500 V / 50 Hz / 1 min
Creepage resistance	CTI 175
Pollution degree	2
Overvoltage category	III
Insulation resistance at $U_p$ 500 VDC	>100 MΩ

## Additional Data

Mechanical endurance	>10x10 <sup>6</sup> operations
Switching frequency, mechanical	15 Hz
Response time (all NO closed)	typically 10 ms
Drop-out time** (NC closed)	typically 3 ms
Bounce time of NO contact	typically 2 ms
Bounce time of NC contact	typically 15 ms
Shock resistance 16 ms	NO > 17g NC > 10g
Vibration resistance (10-200 Hz)	NO > 7g NC > 3g
Resistance to short circuiting contacts	1000 A SCPD 6 A gG / gL (pre-fuse)
Ambient temperature	-40°C to +85°C
Thermal Resistance	55 K / W
Temperature limit for coil	120°C
Weight	ca. 20 g
Mounting position	any
Type of protection	RT III
Solder bath temperature	270°C / 5 s

## Tests, Regulations

### Approvals

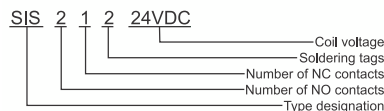


UL File E188953	Sec. 5
Insulation class IEC 60664-1	250 VAC
Fire protection requirements	UL 94 / V0

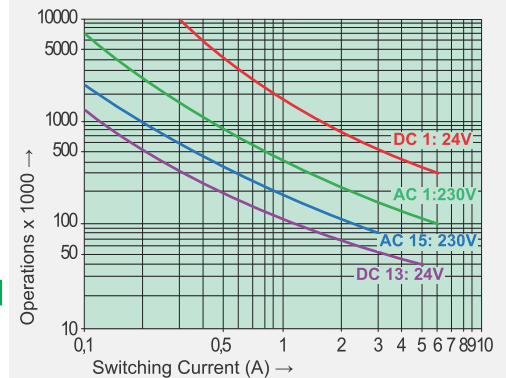
## Options, Accessories

none available

## Product Key



## Contact Lifetime for NO contacts

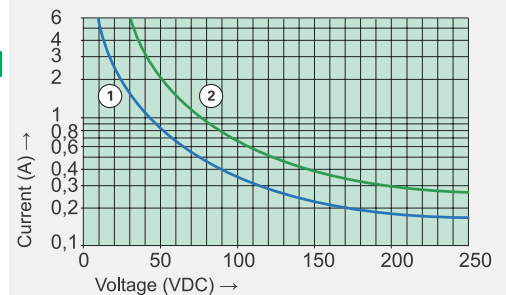


Maximal switching characteristics (DIN EN60947-5-1)

AC 1:	250 V / 6 A
AC 15:	230 V / 3 A
DC 1:	24 V / 6 A
DC 13:	24 V / 5 A / 0,1 Hz
UL 508:	B300 / R300

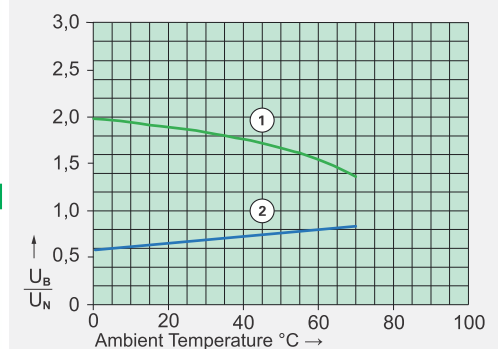
Maximal contact load at AC 1 with 230 V:  
2 contacts with 6 A each

## Load Limit Curve with Direct Current



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

## Excitation Voltage Range



- 1) Max. excitation voltage with contact load: ≤4 A
- 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+0,2-0,4 μm Au
Type of contact	Single contact with notched crown
Rated switching capacity	250 VAC 6 A AC1 1500 VA
Electr. life AC 1(360 cycles / h)	>90000
Inrush current max.	30 A for 20 ms
Switching voltage range	5 to 250 VDC / VAC
Switching current range*	3 mA to 6 A
Switching capacity range*	40 mW to 1500 W(VA)
Contact resistance (as delivered)	≤100 mΩ / 6 V / 100 mA

\*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	3840 ± 10%
60	≤42,0	≥6,0	10,0	6000 ± 13%
110	≤77,0	≥11,0	5,4	20150 ± 15%