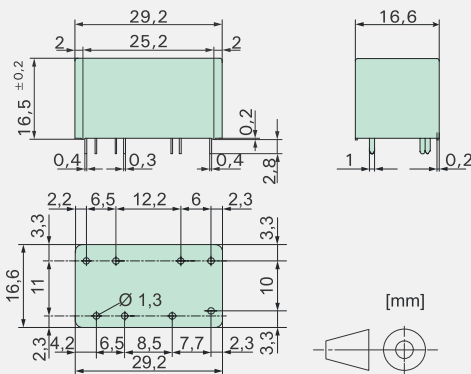




### Relay Key Data

- 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 0,4 W
- Holding coil power 0,14 W
- For railway application (EN50155) on request

### Dimensions



### 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

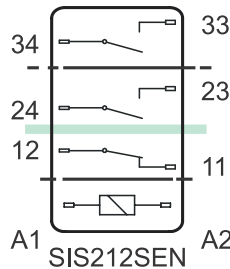
\*Guided values

### 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	≤3,75	≥0,5	80,0	62,5 ± 10%
6	≤4,5	≥0,6	66,6	90 ± 10%
9	≤6,75	≥0,9	44,5	202 ± 10%
12	≤9,0	≥1,2	33,3	360 ± 10%
18	≤13,5	≥1,8	22,2	810 ± 10%
24	≤18,0	≥2,4	16,6	1440 ± 10%
48	≤36,0	≥4,8	8,3	5750 ± 13%
60	≤45,0	≥6,0	6,6	9000 ± 15%

### 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
- Test voltage	4000 V / 50 Hz / 1 min
- Double or reinforced insulation	
- Air and creepage distance	at 250 VAC
- 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 Up 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

\*\*without spark suppression

### Tests, Regulations

Approvals

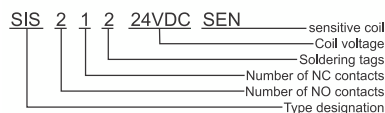


UL File E188953	Sec. 5
Insulation class IEC 60664-1	250 VAC
Fire protection requirements	UL 94 / V0

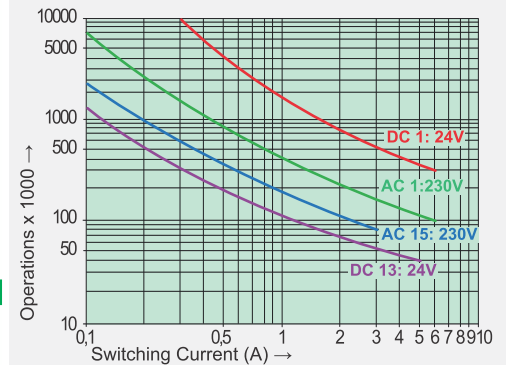
### Options, Accessories

none available

### Product Key



### Contact Lifetime for NO Contacts

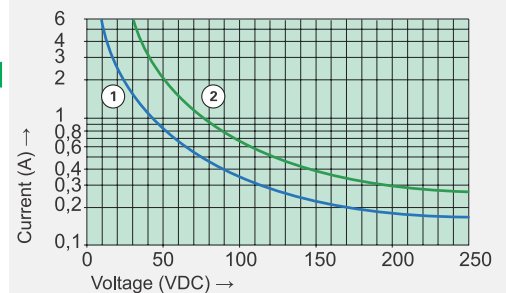


Maximal switching characteristics (DIN EN60947-5-1)

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

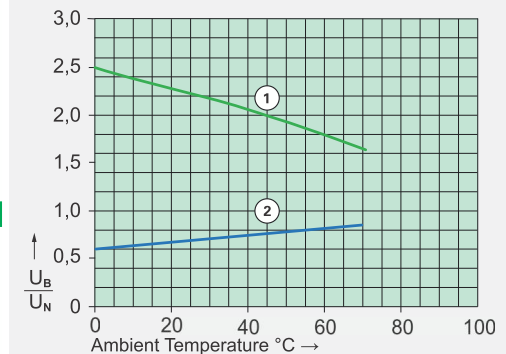
Maximal contact load at AC 1 with 230 V:  
2 contacts with 6 A each

### 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%.