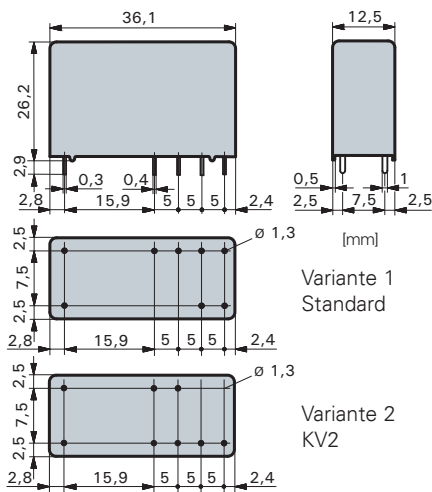




Relay data

- PCB relay with forcibly guided contacts
- Protective separation between coil and contacts (leakage and creepage distances > 14mm); protective separation between left and right contact side (leakage and creeping distances > 5.5mm)
- EN 50205, type A
- Contact mounting: SIM212 2NO/1NC
- Small external dimensions
- Mean coil power 0.75W
- Holding power 0.21 W



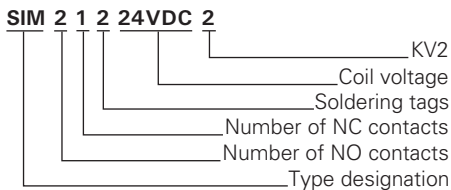
Contact material	AgSnO ₂ +0.2µm Au
Type of contact	Crest contact
Rated switching capacity 250VAC 8A AC1	2'000VA
Electr. life AC1 (360 cycles/h)	approx. 100'000
Inrush current max.	20A for 20ms
Switching voltage range	5 to 250 VDC/VAC
Switching current range*	10mA to 8A
Switching capacity range* 0.06VA(W) to 2'000VA	
Contact resistance (as delivered)	≤100mΩ/28 V/100mA

* Guide values

Standard coils for direct current (other voltages on request)

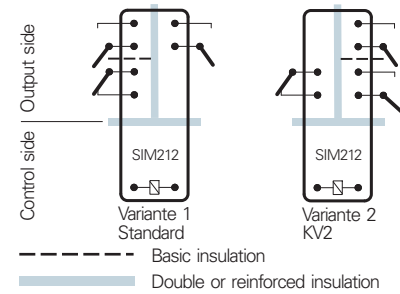
Nominal voltage VDC	Min. pick-up voltage at 20°C	Drop-out voltage at 20°C	Nominal current in mA	Resistance in Ohm at 20°C	Tolerance in %
5	3,75	≥ 0,5	151,0	33	± 10
6	4,5	≥ 0,6	125,0	48	± 10
12	9,0	≥ 1,2	63,1	190	± 10
21	15,75	≥ 2,1	35,5	590	± 10
24	18,0	≥ 2,4	30,0	800	± 10
48	36,0	≥ 4,8	15,4	3'100	± 10
60	45,0	≥ 6,0	12,5	4'800	± 13
110	82,5	≥ 11,0	6,8	16'000	± 15

Ordering example



General data

Circuit diagram (view on relay upper side)



Mechanical life	> 10 x 10 ⁶ operations
Switching frequency, mechanical	15Hz
Response time	typically 10ms
Drop-out time**	typically 4ms
Bounce time of NO contact	typically 6ms
Bounce time of NC contact	typically 12ms
Shock resistance 16ms	NO contact > 10g
Vibration resistance 10-200Hz	NO contact > 10g
Test voltage coil/contacts	5'000Veff 1min
Test voltage left to right contact sides	4'000Veff 1min
Test voltage contacts as one after the other	2'500Veff 1min
Test voltage contact open	1'500Veff 1min
Insulation resistance	10 ¹¹ Ω
Creepage resistance	CTI 250
Weight	approx. 25g
Mounting position	any
Ambient temperature	-40°C to +70°C
Type of protection	RT II
Solder bath temperature	270 °C/5s
Thermal resistance	50K/W
Temperature limit for coil	120°C
Pollution degree	2
Overvoltage category	III
Resistance to short circuiting	1'000A SCPD 10A gG (pre-fuse)

** without spark suppression

Insulation terms

Coil/contacts: Double or reinforced insulation > 14mm
 Left to right contact side: Double or reinforced insulation > 5.5mm
 Contacts in one row: Basic insulation

Tests, regulations

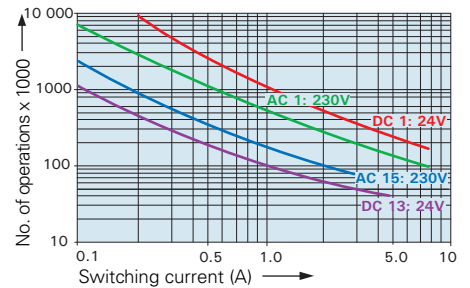
Approvals	SEV, UL, cUL, TÜV
UL File E188953	Sec. 3
Insulation class IEC 60664-1	250VAC
Protection class II	VDE 0106
Fire protection requirements	UL 94 / V0

Options, accessories

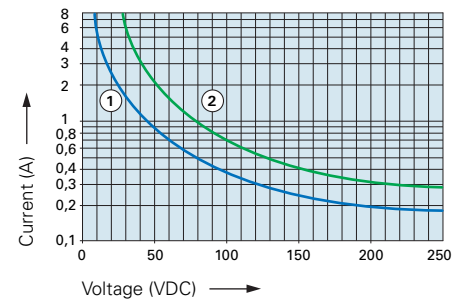
PCB socket, DIN rail socket see page 30

Diagrams

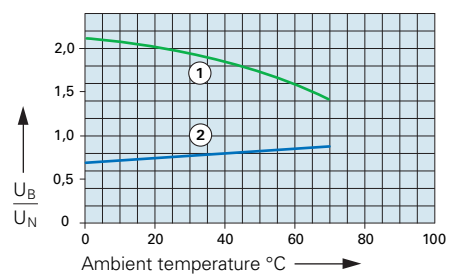
Contact lifetime for NO contact



Load limit curve with direct current



Excitation voltage range



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