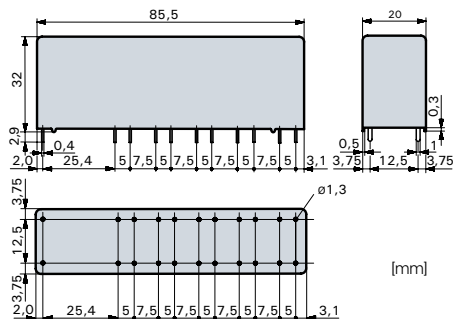




Relay data

- PCB relay with forcibly guided contacts
- Protective separation between coil/control contacts and output contacts (> 8mm) and output contacts in one row (> 8mm) and as left to right contact side (> 10mm)
- EN 50205, type A
- Contact mounting:
 - SIR372 3NO/7NC SIR462 4NO/6NC
 - SIR552 5NO/5NC SIR642 6NO/4NC
 - SIR732 7NO/3NC SIR822 8NO/2NC
 - SIR912 9NO/1NC
- Small external dimensions
- Mean coil power 1,3W



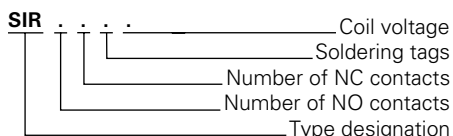
Contact material	AgSnO ₂ +0,2µm Au
Type of contact	Crest contact
Rated switching capacity	250VAC 10A AC1 2'500VA
Electr. life AC1 (360 cycles/h)	approx. 100'000
Inrush current max.	25A for 20ms
Switching current range	10mA to 10A
Switching capacity range	0,06VA(W) to 2'500VA
Contact resistance (as delivered)	≤ 100mΩ

Guide values

Standard coils for direct current (other voltages on request)

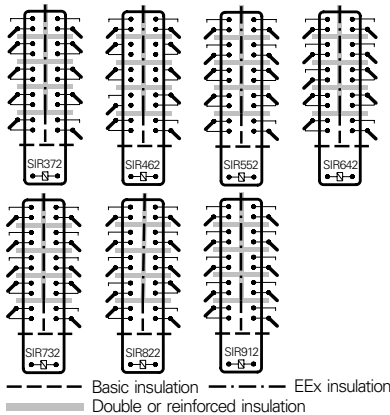
Nominal voltage VDC	Min. pick-up voltage at 20°C	Drop-out voltage at 20°C	Nominal current in mA	Resistance in Ohm at 20°C	Tolerance in %
6	4,2	≥ 0,6	218	275	± 10
12	8,4	≥ 1,2	109	110	± 10
24	16,8	≥ 2,4	54,5	440	± 10
48	33,6	≥ 4,8	27,2	1'760	± 10
60	42,0	≥ 6,0	11,8	2'750	± 10
110	77,0	≥ 11,0	6,8	9'250	± 13
220	154,0	≥ 22,0	5,9	37'000	± 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 18ms
Drop-out time	typically 5ms
Bounce time of NO contact	typically 8ms
Bounce time of NC contact	typically 12ms
Shock resistance	16ms NO contact > 10g NC contact 8g

Vibration resistance	NO contact > 10g 10-200Hz NC contact 5g
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Test voltage coil/control contacts	2'500Veff 1min
Test voltage coil-control contacts/output contacts as against each other	4'000Veff 1min
Test voltage contact open	1'500Veff 1min
Insulation resistance	10 ¹¹ Ω
Creeping resistance	CTI 250
Weight	approx. 60g
Mounting position	any
Ambient temperature	-40°C to +70°C
Type of protection	RT II
Solder bath temperature	270 °C/5s
Thermal resistance	40K/W
Temperature limit for coil	125°C
Pollution degree	3
Oversoltage category	III
Resistance to short circuiting output contacts	1'000A SCPD 16A gG (pre-fuse) without spark suppression

Insulation terms

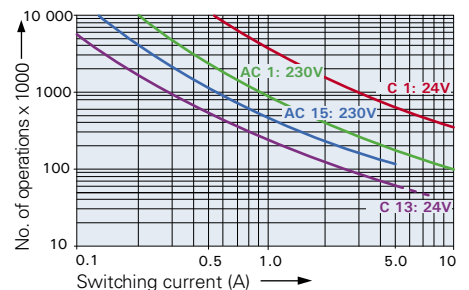
Coil to control contacts: Basic insulation
 Coil/control contacts to output contacts: Double or reinforced insulation > 8mm
 All output contacts in one row: Double or reinforced insulation > 8mm
 All output contacts as left to right contact side: Double or reinforced insulation
 EEx insulation > 10mm

Tests, regulations

Approvals	SEV, UL, cUL, TÜV
Insulation class	VDE 0110 / group C 250VAC
Protection class II	VDE 0106
Fire protection requirements	UL 94 / V0

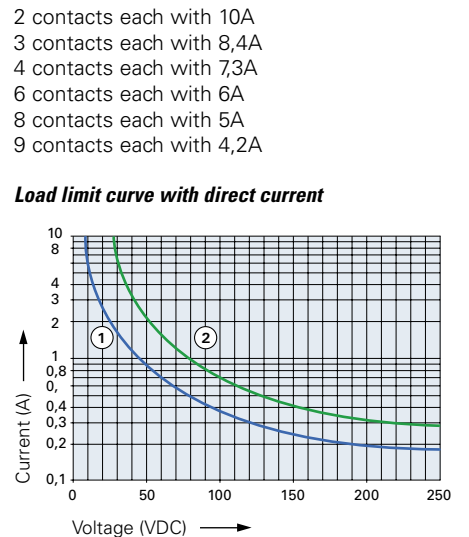
Diagrammes

Contact lifetime



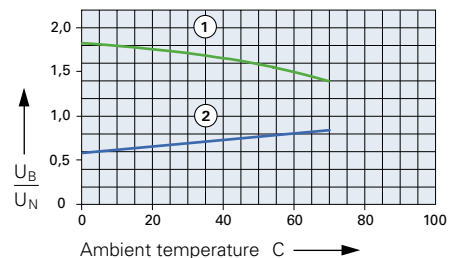
Max. switching characteristics (determined acc. to DIN EN 60947-5-1 table C2):
 AC 15: 230V/5A
 DC 13: 24V/7,5A/0,1 Hz

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 ≤ 2A
- 2) Min. excitation voltage (guaranteed values) without previous operation

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



American Electronic Components, Inc.