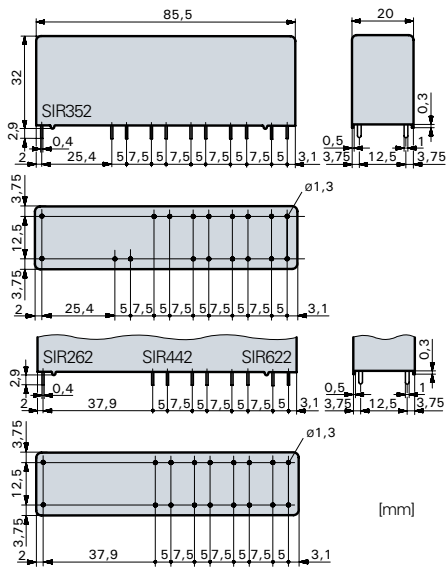


SIR 8 Contacts



Relay data

- PCB relay with forcibly guided contacts
- Protective separation between coil and output contacts (> 10mm) and contacts in one row (> 8mm) and as left to right contact side (> 10mm)
- EN 50205, type A
- Contact mounting:
SIR262 2NO/6NC SIR352 3NO/5NC
SIR442 4NO/4NC SIR622 6NO/2NC
- Small external dimensions
- Mean coil power 1,3W

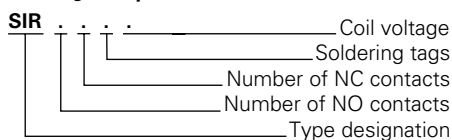


Contact material	AgSnO ₂ +0,2μm Au
Type of contact	Crest contact
Rated switching capacity	250VAC 10A AC1 2'500VA
Electr. life AC1 (360 cycles/h)	approx. 100'000
Inrush current max.	25A for 20ms
Switching current range	10mA to 10A
Switching capacity range	0,06VA(W) to 2'500VA
Contact resistance (as delivered)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

Standard coils for direct current (other voltages on request)

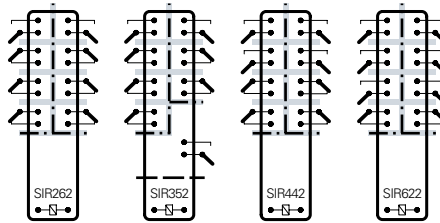
Nominal voltage VDC	Min. pick-up voltage at 20°C	Drop-out voltage at 20°C	Nominal current in mA	Resistance in Ohm at 20°C	Tolerance in %
6	4,2	≥ 0,6	218	275	± 10
12	8,4	≥ 1,2	109	110	± 10
24	16,8	≥ 2,4	54,5	440	± 10
48	33,6	≥ 4,8	27,2	1'760	± 10
60	42,0	≥ 6,0	11,8	2'750	± 10
110	77,0	≥ 11,0	6,8	9'250	± 13
220	154,0	≥ 22,0	5,9	37'000	± 15

Ordering example



General data

Circuit diagram (view on relay upper side)



- Basic insulation
- Double or reinforced insulation
- EEx insulation

Mechanical life	> 10 x 10 ⁶ operations
Switching frequency, mechanical	15Hz
Response time	typically 15ms
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 NC contact 6g
Vibration resistance	NO contact > 5g 10-200Hz NC contact 2g
Test voltage	
coil/control contacts	2'500Veff 1min
Test voltage	5'000Veff 1min
coil-control contacts/output contacts	
Test voltage 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
Overvoltage category	III
Resistance to short	1'000A SCPD 10A
circuiting	gG (pre-fuse)

without spark suppression	
Insulation terms	
Coil to control contacts (only SIR352): Basic insulation	
Coil to contacts (SIR262, SIR442, SIR622): Double or reinforced insulation EEx insulation > 10mm	
All contacts in one row (SIR262, SIR352, SIR442, SIR622): Double or reinforced insulation > 8mm	
All contacts as left to right contact side (SIR262, SIR352, SIR442, SIR622): Double or reinforced insulation EEx insulation > 10mm	

Insulation terms

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

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

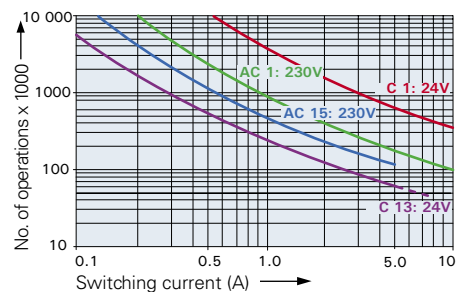


American Electronic Components, Inc.

1101 Lafayette Street, Elkhart, IN 46516, Tel: (574) 295-6330, Fax: (574) 293-8013, sales@aecsensors.com

Diagrammes

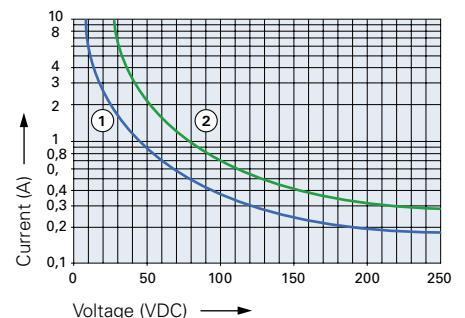
Contact lifetime



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

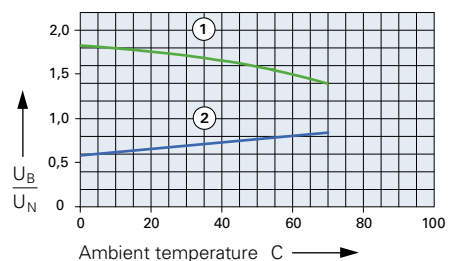
Maximal contact load at AC 1 with 230V:
2 contacts each with 10A
3 contacts each with 8,4A
4 contacts each with 7,3A
6 contacts each with 6A

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

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