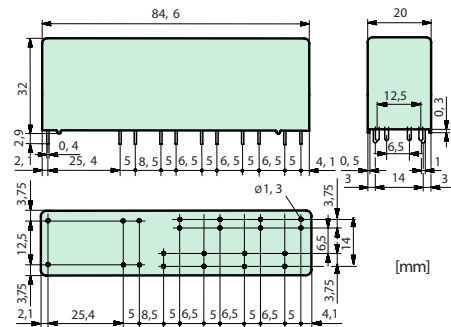


**Relay Key Data**

- PCB relay with forcibly guided Contacts
- Protective separation between coil / Control Contacts and Output Contacts (>8mm) and Output Contacts in a row (>8mm)
- EN50205 type A
- Contact Mounting:  
SIP512 Control Contacts 1NO / 1NC  
Output Contacts 4NO  
SIP422 Control Contacts 2NO  
Output Contacts 4NO
- High Switching Power
- Mean Coil Power 1.3 W
- Holding Power 0.39 W
- For Railway Application EN 50155 on request

**Dimensions**



**Control Contact Data**

Contact Material	AgSnO <sub>2</sub> +0.2µm Au
Rated Switching Capacity	250VAC 6A AC1 1'500VA
Electr. life AC1(360 cycles/h)	approx. 100'000
Inrush Current max.	15A for 20ms
Switching Voltage Range	5 to 250 VDC/VAC
Switching Current Range*	5mA to 6A
Switching Capacity Range*	60mW to 1'500W(VA)
Contact resistance (as delivered)	≤100mΩ/6V/100mA

**Output Contact Data**

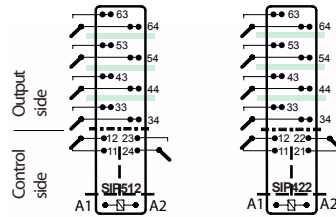
Contact Material	AgSnO <sub>2</sub>
Rated Switching Capacity	250VAC (440VAC) 16A AC1 4'000VA
Electr. life AC1(360 cycles/h)	approx. 250'000
Inrush Current max.	60A to 20ms
Switching Voltage Range	5 to 250VDC (480VAC)
Switching Current Range*	10mA to 16A
Switching Capacity Range*	120mW to 4'000W(VA)
Contact resistance (as delivered)	≤100mΩ/6V/100mA

\*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
6	4.2	≥0.6	218	27.5 ± 10%
12	8.4	≥1.2	109	110 ± 10%
18	12.6	≥1.8	72.5	248 ± 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	21.8	2'750 ± 10%
110	77.0	≥11.0	11.8	9'250 ± 13%
220	154.0	≥22.0	5.9	37'000 ± 15%

**Circuit Diagram (Top View)**



**Insulation Data**

-----	- Basic Insulation at 250VAC
-----	- Air and Creepage Distance >4mm
-----	- Test Voltage 2'500V/50Hz/1min
-----	- Double or Reinforced Insulation at 250VAC
-----	- Air and Creepage Distance >8mm
-----	- Test Voltage 4'000V/50Hz/1min
-----	- Double or Reinforced Insulation at 250VAC
-----	- Air and Creepage Distance >10mm
-----	- Test Voltage 5'000V/50Hz/1min
-----	Test Voltage (contact open) 1'500V/50Hz/1min
-----	Creepage Resistance CTI 250
-----	Pollution Degree 2
-----	Overvoltage Category III
-----	Insulation Resistance at Up 500VDC >100 MΩ

**Additional Relay Data**

Mechanical life	>10x10 <sup>6</sup> operations
Switching frequency, mechanical	15Hz
Response Time (all NO closed)	typ. 18ms
Drop-Out Time** (all NC closed)	typ. 5ms
Bounce Time of NO Contacts	typ. 8ms
Bounce Time of NC Contacts	typ. 12ms
Shock Resistance 16ms	NO > 10g NC > 8g
Vibration Resistance (10-200Hz)	NO > 10g NC > 5g
Resistance to short circuiting control contacts	1'000A SCPD 6A gG/gL (pre-fuse)
Resistance to short circuiting output contacts	1'000A SCDP 16A gG/gL (pre-fuse)
Ambient Temperature	-40°C bis +70°C
Thermal Resistance	40 K/W
Temperature Limit for Coil	125°C
Weight	approx. 60g
Mounting Position	any
Type of Protection	RT II
Solder bath temperature	270°C/5s

**Tests, Regulation Approvals**

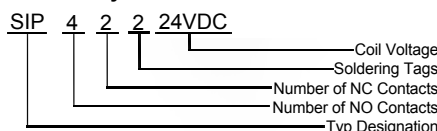


UL File E188953	Sec. 4
Insulation class (IEC 60664-1)	250VAC
Protection Class II	VDE 0106
Fire protection requirements	UL 94 / V0

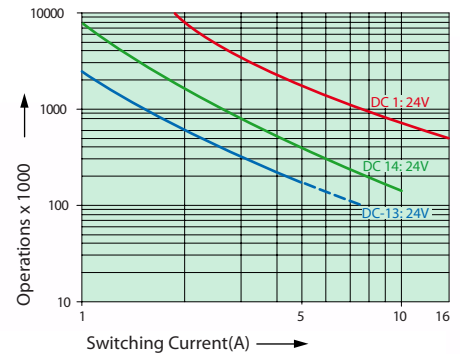
**Options, Accessories**

None

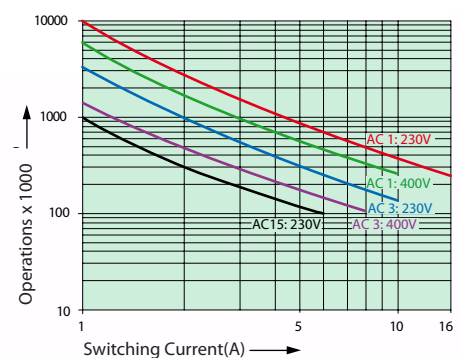
**Product Key**



**Contact Lifetime (Output Contacts) DC**

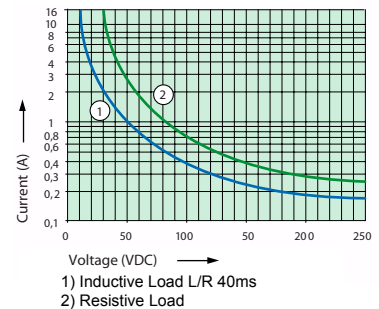


**Contact Lifetime (Output Contacts) AC**



- UL508: A600 / R150  
Maximal Contact load at AC 1 with 230V:  
2 Contacts with 16A each  
3 Contacts with 12A each  
4 Contacts with 10A each

**Load Limit Curve with direct Current**



**Excitation Voltage Range**

