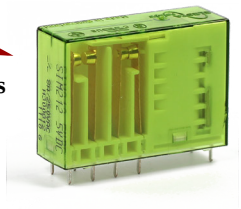
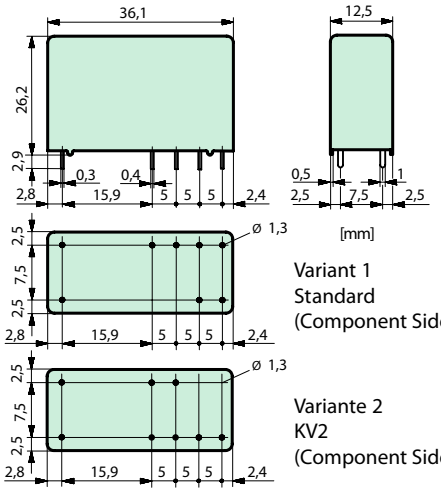


Relay Key Data

- PCB Relay with forcibly guided Conatcts
- Protective seperation between Coil and Contacts (Air and Creepage Distance >14mm); Protective seperation between left and right Contact Side (Air and Creepage Distance >5.5mm)
- EN50205 Type A
- Contact Mounting: SIM212 2NO / 1NC
- Small extenal Dimensions
- Mean Coil Power 0.75W
- Holding Power 0.21W

Dimensions



Contact Data

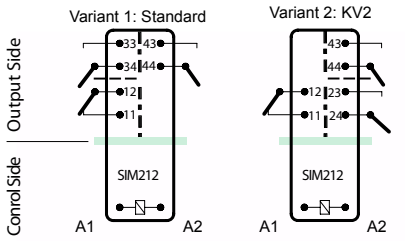
Contact Material	$AgSnO_2$+0.2µm Au
Type of Contact	Crest Contact
Rated Switching Capacity	250VAC 8A AC1 2'000VA
Electr. life AC1(360 cycles/h)	approx.100'000
Inrush Current max.	20A for 20ms
Switching Voltage Range	5 to 250 VDC/VAC
Switching Current Range*	10mA to 8A
Switching Capacity Range*	60mW to 2'000W(VA)
Contact resistance (as delivered)	≤100mΩ/6V/100mA

*Guided Values

Stadard Coils for direct current (ohter 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	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%

Curcuit Diagram (Topview)



Insulation Data

- - - -	- Basic Insulation at 250 VAC - Air and Creepage Dis. >4mm - Test Voltage 2'500V/50Hz/1min
-.-.-.-	- Double or Reinforced Insulation at 250VAC - Air and Creepage Distance >5.5mm - Test Voltage 4'000V/50Hz/1min
	- Double or Reinforced Insulation at 250VAC - Air and Creepage Distance >14mm - Test Voltage 5'000V/50Hz/1min

Test Voltage contacts open	1'500V/50Hz/1min
Creepage Resistance	CTI 250
Pollution Degree	2
OvervoltageCategory	III
Insulation Resistance at Up 500VDC	>100 MΩ

Additional Relay Data

Mechanical life	>10x10^6 operations
Switching frequency, mechanical	15Hz
Response Time (all NO closed)	typ. 10ms
Drop-Out Time** (all NC closed)	typ. 4ms
Bounce Time of NO Contact	typ. 6ms
Bounce Time of NC Contact	typ. 12ms
Shock Resistance 16ms	NO > 10g NC > 2.5g
Vibration Resistance (10-200Hz)	NO > 10g NC > 1g
Resistance to short circuiting output contacts	1'000A SCPD 10A gG/gL (pre-fuse)
Ambient Temperature	-40°C to +70°C
Themal Resistance	50 K/W
Temperature Limit for Coil	120°C
Weight	approx.25g
Mounting Position	any
Type of Potection	RT II
Solder bath Temperature	270°C/5s

**without spark suppression

Tests, Regulations

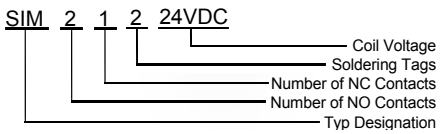
Approvals

UL File E188953	Sec. 3
Insulation class (IEC 60664-1)	250VAC
Protection class II	VDE 0106
Fire Protection requirements	UL 94 / V0

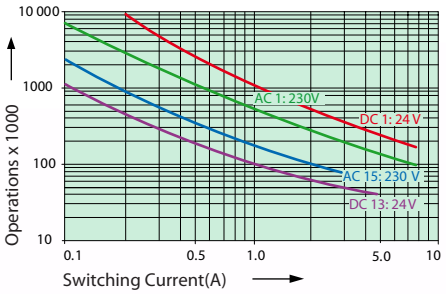
Options, Accessories

PCB Socket, DIN Rail Socket	see Page 28

Product Key



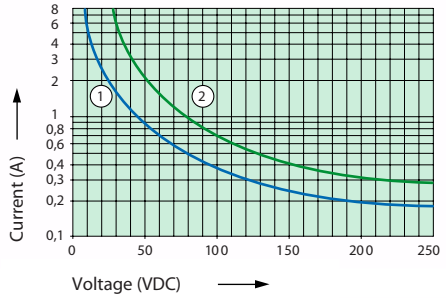
Contact Lifetime



Max. Switching Characteristics (DIN EN60947-5-1, Tab.C2):
AC1: 250V / 8A
AC 15: 230V / 3A
DC1: 24V / 8A
DC 13: 24V / 6A / 0.1Hz
UL 508: C150 / R300

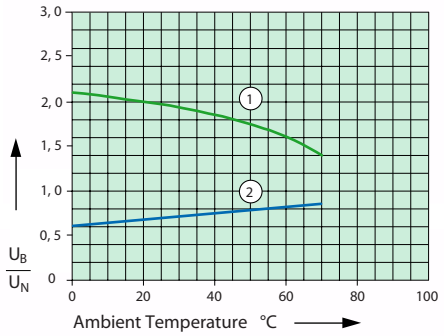
Maximal Contact Load at AC1 with 230V:
2 Contacts with 8A each

Load Limit Curve Direct Current



1) Inductive Load L/R 40ms
2) Resistive Load

Excitation Voltage Range



1) Max. excitation Voltage with Contact Load: <6A
2) Min. excitation Voltage (guranteed Values) without previous operation.

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

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