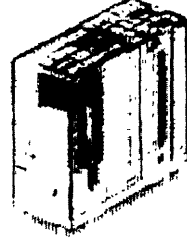


388-294

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- Relay Catalog
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RP II/1 PCB Relay 1 pole

Ordering Designation: RP - 310 - 012
 Dimensions (L x W x H): 29 mm x 12.6 mm x 25.5 mm

Siemens Components Service



Features for RP II/1 PCB Relay 1 pole

- 1 changeover
- 1 make contact
- 1 pole 12 A
- 1 pole 16 A
- 1 pole 8 A
- 4 kV dielectric test voltage coil-contact
- Immersion cleanable, 3.5 mm Pinning
- Immersion cleanable, 5 mm Pinning
- Neutral, monostable, DC and AC version
- PCB sockets
- Suitable for processing on soldering lines, 3.5 mm Pinning
- Suitable for processing on soldering lines, 5 mm Pinning

Typical Applications for RP II/1 PCB 1 pole

- Domestic appliances
- Heating controls
- Installation technique
- Power supply

Design	
Terminal Design:	(print) PIN
Case Sealing:	Suitable for processing on soldering lines
Version:	DC Voltage, 5 mm Pinning

Dimensions (max.)	
Length:	29 mm
Width:	12.6 mm
Height:	25.5 mm
Weight:	18 g
Dimensional Drawing:	
Mounting Hole Layout:	
All values valid at reference temp.:	20 °C

Contact Side	
Contact configuration (number and type):	
Changeover:	1
Contact type:	
Single contact:	yes
Pin assignment:	
Rated current:	Break: 16 A , Make: 16 A
Make current max.:	Off: 16 A , On: 25 A
Break current max.:	Off: 16 A , On: 16 A
Limiting cont. current at ref. temp.:	Break: 16 A , Make: 16 A
Limiting cont. current at 70 °C:	Break: 16 A , Make: 16 A
Switching voltage:	
Max. AC:	440 V
Switching power (see load limit curve):	
Max. AC:	4000 VA
Contact material:	AgCdO
Note:	See load limit curve
Note:	See load limit curve.

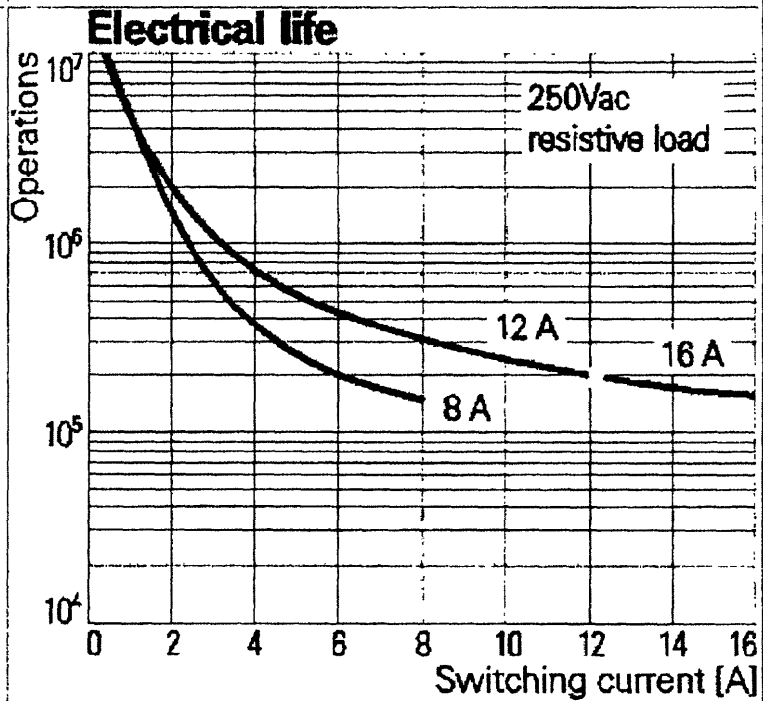
Energizing Side	
Switching behavior:	monostable
Actuating system:	DC
Magnet system:	Nonpolarized
Number of coils:	1
Nominal voltage:	12 V
Coil resistance at ref. temp. 20 °C:	270 Ohm +/- 27 Ohm
Operate power at ref. temp. 20 °C	0.26 W
Nominal power at ref. temp. 20 °C	0.53 W
Operating voltage range:	
Maximum voltage:	21.6 V

Must operate voltage (Minimum voltage without pre-energizing):	8.4 V
Min release voltage:	1.2 V
Operating voltage range:	<p>a: U_N with cold coil ($T_{COIL} = T_{AMB}$) b: U_N with hot coil ($1.1 \times U_N$), contact load=I_N</p>
Load limit curve:	<p>Max. DC load breaking capacity</p>
Switching times:	
Operate time at nominal voltage, typ.:	9 ms
Release time typ.:	
without coil suppression:	3 ms
Bounce time typ.:	
Break contact:	4 ms
Make contact:	2 ms

Insulation	
Clearance coil/contact:	8 mm
Creepage dist. coil/contact:	8 mm
Insulation at 500 V initial value:	10000 MOhm
Tracking resistance of the base acc. to IEC 60112:	450
Insulation by IEC 60664-1:	
Rated voltage:	250 V
Pollution degree:	2
Nominal voltage VDE 0110:	
Insulation Group C:	250 V
Dielectric test voltage AC:	
Contact/Coil:	4 kV
At open contact:	1 kV

General Data	
Switching rate (max.) at rated current:	without load: 20 / s , at nominal load: 0.33 / s
Permissible ambient temp. in operation:	Min. -40 °C , Max. 70 °C
Mechanical endurance:	30000000 switching cycles
Flammability to UL:	V-0

Electrical endurance (Graphic):



Operating Conditions

Vibration resistance:	30...150 Hz, >(make/break): $10/2 * 9,81\text{m/s}^2$
Shock resistance:	$>50*9.81 \text{ m/s}^2$
Solderability:	IEC 60068 - 2 - 20, test Ta, method 1
Resistance to soldering heat:	260°C, 5 s
Sealing:	IP40

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For questions concerning further technical details and for customer specific solutions please contact your local Siemens partner. They will be pleased to inform you about ordering details.