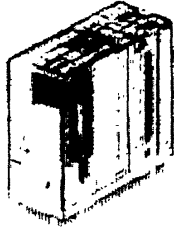


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RP II/1 PCB Relay 1 pole

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

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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

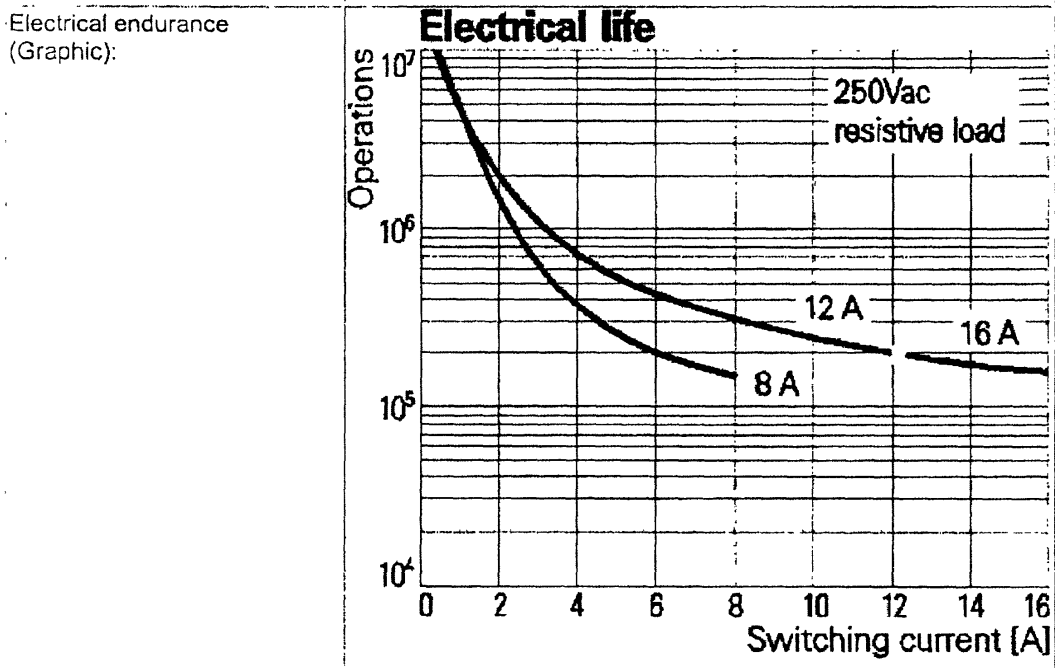
Contact Side	
Contact configuration (number and type):	
Changeover:	1
Contact type:	
Single contact:	yes
Pin assignment:	<p>The diagram illustrates a switch mechanism. On the left, a coil is connected to two contacts labeled A1 and A2. A dashed line indicates the switch's movement, showing it can connect to three different pins on the right, labeled 12, 11, and 14. Pin 12 is the top position, pin 11 is the middle position, and pin 14 is the bottom position. The switch is currently shown in the middle position, connecting to pin 11.</p>
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



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.

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