RPI-1ZI-D12 installation relays



- Installation relays electromagnetic
- Cadmium free contacts 1 NO
- DC input voltages
- Cover modular, width 17,5 mm
- Direct mounting on 35 mm rail mount acc. to EN 60715
- Recognitions, certifications, directives: RoHS, CE INI LA
- Switching lighting circuits, in cooperation with control timers, switches, push buttons
- Wide range of application in switchgears of modular equipment, in particular for switching circuits of high inrush current

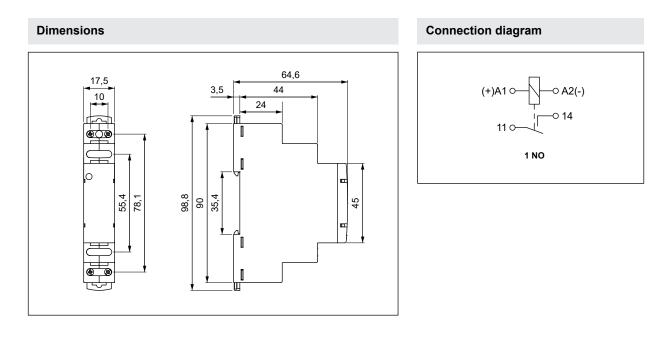
Output circuit - contact data	_
Number and type of contacts	1 NO
Contact material	AgSnO ₂
Max. switching voltage	300 V AC / 300 V DC
Min. switching voltage	10 V
Rated load AC1	16 A / 250 V AC
DC1	16 A / 24 V DC
Min. switching current	10 mA
Max. inrush current	120 A 20 ms
Rated current	16 A
Max. breaking capacity • AC1	4 000 VA (16 A / 250 V AC)
• AC15	720 VA (3 A / 240 V AC)
• AC3	650 W
• DC1	0,35 A / 230 V DC; 16 A / 24 V DC
 at fluorescent lamp load 	800 W
 at halogen lamp load 	2 500 W
• at LED lamp load	500 W
Min. breaking capacity	1 W
Contact resistance	≤ 100 mΩ
Max. operating frequency • at rated load AC1	600 cycles/hour
• no load	72 000 cycles/hour
Input circuit	
Rated voltage DC	12 V terminals (+)A1, (-)A2
Must release voltage	DC: ≥ 0,05 Un
Operating range of supply voltage	0,851,1 Un
Rated power consumption	≤1W
Insulation according to EN 60664-1	
Insulation rated voltage	250 V AC
Rated surge voltage	
	4 000 V 1,2 / 50 μs
Overvoltage category	
Insulation pollution degree	2
Flammability class	V-0 for modular cover, UL 94
Dielectric strength • input - output	4 000 V AC type of insulation: basic
contact clearance	1 000 V AC type of clearance: micro-disconnection
General data	
Operating / release time (typical values)	15 ms / 20 ms
Electrical life • resistive AC1	0,5 x 10 ⁵ 16 A, 250 V AC
Mechanical life (cycles)	107
Dimensions (L x W x H)	90 0 x 17,5 x 64,6 mm
Weight	68 g
Ambient temperature • storage	-40+70 °C
(non-condensation and/or icing) • operating	-20+50 °C
Cover protection category	IP 20 EN 60529
Relative humidity	up to 85%
Shock resistance	15 g
Vibration resistance (NO)	9 g 10150 Hz

The data in bold type relate to the standard versions of the relays. • • Length with 35 mm rail catches: 98,8 mm.

1



RPI-1ZI-D12 installation relays



Mounting

Relays **RPI-1ZI-D12** are designed for direct mounting on 35 mm rail mount acc. to EN 60715. Operational position - any. **Connections:** max. cross section of the cables: 1 x 2,5 mm² (1 x 14 AWG), stripping length: 6,5 mm, max. tightening moment for the terminal: 0,5 Nm.



Green LED: signalling the operation status of the relay (is illuminated permanently - correct supply).

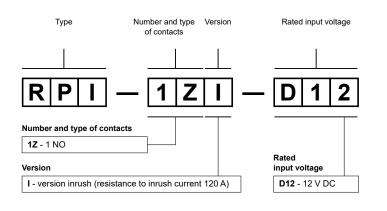


Two catches: easy mounting on 35 mm rail, firm hold (top and bottom).



Mounting wires in clamps: universal screw (cross-recessed or slotted head).

Ordering codes



Example of ordering codes:

RPI-1ZI-D12

relay **RPI-1ZI-D12**, cover - modular, width 17,5 mm, one normally open contact, version inrush, contact material AgSnO₂, rated input voltage 12 V DC

PRECAUTIONS:

1. Ensure that the parameters of the product described in its specification provide a safety margin for the appropriate operation of the device or system and never use the product in circumstances which exceed the parameters of the product. 2. Never touch any live parts of the device. 3. Ensure that the product has been connected correctly. An incorrect connection may cause malfunction, excessive heating or risk of fire. 4. In case of any risk of any serious material loss or death or injuries of humans or animals, the devices or systems shall be designed so to equip them with double safety system to guarantee their reliable operation.

2

