

Modular devices



SUMMARY OF MODELS

Installation contactors and relays, impulse relays
 switch depending on applied voltage or impulse


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Type	RSI	RPI	MIG	MIR
I_{th} , I_e	20, 25, 32, 40, 63 A	8, 16 A	20, 32, 63 A	16 A
Arrangement of contacts	10, 11, 20, 02, 40, 31, 04	001, 002, 003	10, 11, 20, 40, 31	001
Design	mechanical	electronic	mechanical	electronic
Control	electrical + manual	electrical	electrical + manual	electrical
Noise	standard/quiet	extra quiet	quiet	extra quiet
Max. switched power ^{*)} of each contact for devices with highest value of I_{th} :				
AC-1 (e.g. boilers, accumulator stoves and tanks)	13.3 kW / 230 V	3.7 kW / 230 V	13.8 kW / 230 V	3.7 kW / 230 V
AC-5a (e.g. parallel compensated fluorescent tubes)	5 kVA / 230 V	0.4 kVA / 230 V	5 kVA / 230 V	0.4 kVA / 230 V
AC-5b (e.g. incandescent lamps)	5 kW / 230 V	1 kW / 230 V	7 kW / 230 V	0.5 kW / 230 V

^{*)} For complete information look at specific products.

Multiple-function time relays
 switch according to set function and time


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Type	MCR-MA	MCR-MB	MCR-TK	MQD
Rated voltage U_c	AC/DC 12 ÷ 230 V	AC/DC 12 ÷ 230 V	AC/DC 12 ÷ 230 V	AC 230 V
Arrangement of contacts	001, 003	001, 003	001	100
Operating voltage of contact	AC 250 V	AC 250 V	AC 250 V	AC 250 V
Operating current of contact	8 A	8 A	8 A	16 A
Time setting	0.1 s ÷ 100 hr	0.1 s ÷ 100 hr	0.1 s ÷ 10 day	0.5 ÷ 10 min
Function	Time relay	Time relay	Timing relays	Stair switches
	- 9 functions	- 18 functions	- adjustable duty cycle	- extension of the set time (at start of timing) - subsequent extension of make time (during timing) - premature switching off

INSTALLATION RELAYS RPI



RPI-16-001-X230-SE

Installation relays - electronic

- Intended for building and similar installations.
- For switching of electrical circuits by application of control voltage on the coil.
- There is ensured such electrical isolation between the control circuit (coil) and main circuit (contact) as it is between inlet and outlet lead of the safety transformer.
- Light indication at contacts closing.
- Noiseless switching.

Installation relays RPI-16...

- For control of electric appliances up to 16 A – electric boilers, convection heaters, water-heaters, storage heaters and also low power lighting circuits.
- Contacts: 1 make-and-break.
- Control voltage: AC/DC 24 V, AC 230 V.

Arrangement of contacts ¹⁾	Control voltage U _c	Colour of indication	Type	Order code	Number of modules	Weight [kg]	Package [pcs]
001	AC/DC 24 V, AC 230 V	red	RPI-16-001-X230-SC	OEZ:43251	1	0.070	1
		green	RPI-16-001-X230-SE	OEZ:43250	1	0.070	1

¹⁾ Each digit indicates successively the number of make, break and break-make contacts.

Installation relays RPI-08...




- For control of electric appliances up to 8 A – electric boilers, convection heaters, water-heaters, storage heaters and also low power lighting circuits.
- Contacts: 2 make-and-break.
Control voltage: AC/DC 24 V, AC 230 V (X230).
- Contacts: 3 make-and-break.
Control voltage: AC 24 ÷ 230 V, DC 24 ÷ 220 V (UNI).
- In applications, where the make time exceeds 1 hour or duty cycle of switching is higher than 25 %, it is necessary for assurance of the stated life to create a gap between the devices of at least 2 mm (0.5 module recommended).

Arrangement of contacts ¹⁾	Control voltage U _c	Colour of indication	Type	Order code	Number of modules	Weight [kg]	Package [pcs]
002	AC/DC 24 V, AC 230 V	red	RPI-08-002-X230-SC	OEZ:43253	1	0.070	1
		green	RPI-08-002-X230-SE	OEZ:43252	1	0.070	1
003	AC 24 ÷ 230 V DC 24 ÷ 220 V	red	RPI-08-003-UNI-SC	OEZ:43255	1	0.070	1
		green	RPI-08-003-UNI-SE	OEZ:43254	1	0.070	1

¹⁾ Each digit indicates successively the number of make, break and break-make contacts.

INSTALLATION RELAYS RPI

Specifications

Type	RPI-16-001-X230			RPI-08-002-X230	RPI-08-003-UNI
Standards	EN 60669-2-2			EN 60669-2-2	EN 60669-2-2
Approval marks					
Main circuit (contact)					
Arrangement of contacts ¹⁾			001	002	003
Rated operating voltage/current	U _e /I _e	AC - 1	250 V / 16 A	250 V / 8 A	250 V / 8 A
		DC - 1	24 V / 16 A	24 V / 8 A	24 V / 8 A
Max. switched power		AC	4 000 VA	2 000 VA	2 000 VA
		DC	384 W	192 W	192 W
Min. voltage/current			DC 5 V / 100 mA	DC 5 V / 100 mA	DC 5 V / 100 mA
Switched power of relay		AC - 3	1 kW	200 W	200 W
		AC - 5a	288 W (cos φ = 0.8)	-	-
		AC - 5b	1 kW	200 W	200 W
Indication of closed contacts		RPI-...-SC	red LED	red LED	red LED
		RPI-...-SE	green LED	green LED	green LED
Total power loss at I _e			1.4 W	1.2 W	1.9 W
Mechanical endurance			20 000 000 operating cycles	5 000 000 operating cycles	5 000 000 operating cycles
Electrical endurance			AC 50 000 operating cycles, DC 30 000 operating cycles	100 000 operating cycles	100 000 operating cycles
Connection – conductor rigid and flexible			0.2 ÷ 2.5 mm ² / 2x 1.5 mm ²	0.2 ÷ 2.5 mm ² / 2x 1.5 mm ²	0.2 ÷ 2.5 mm ² / 2x 1.5 mm ²
Torque			0.5 Nm	0.5 Nm	0.5 Nm
Control circuit (coil)					
Rated voltage ²⁾	U _c	terminals A1, A2	AC/DC 24 V	AC/DC 24 V	AC 24 ÷ 230 V, DC 24 ÷ 220 V
		terminals A2, A3	AC 230 V	AC 230 V	-
Input power at U _c		AC 24 V	0.31 VA	0.30 VA	1.00 VA
		DC 24 V	0.34 W	0.34 W	0.82 W
		AC 230 V	3.24 VA	3.45 VA	1.15 VA
		DC 220 V	-	-	0.92 W
Rated frequency	f _n		50 Hz	50 Hz	50 Hz
Connection – conductor rigid and flexible			0.2 ÷ 2.5 mm ² / 2x 1.5 mm ²	0.2 ÷ 2.5 mm ² / 2x 1.5 mm ²	0.2 ÷ 2.5 mm ² / 2x 1.5 mm ²
Torque			0.5 Nm	0.5 Nm	0.5 Nm
Other data					
Galvanic isolation			4 kV	4 kV	4 kV ³⁾
Mounting on "U" rail according to EN 60715 – type			TH35	TH35	TH35
Degree of protection			IP20	IP20	IP20
Ambient temperature			-20 ÷ +55 °C	-20 ÷ +55 °C	-20 ÷ +55 °C
Working position			arbitrary	arbitrary	arbitrary

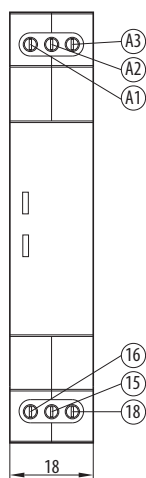
¹⁾ Each digit indicates successively the number of make, break and break-make contacts.

²⁾ For DC voltage it does not depend on polarity.

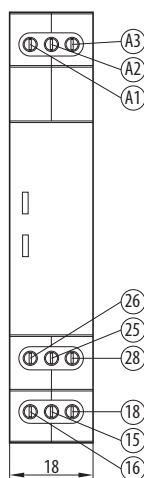
³⁾ Between contacts 25, 26, 28 and 25, 36, 38 galvanic isolation is not assured.

Dimensions

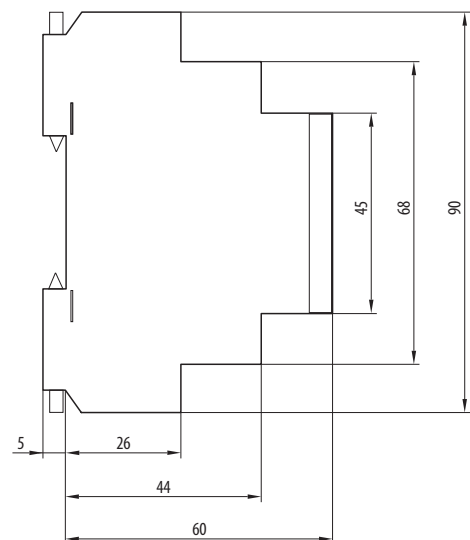
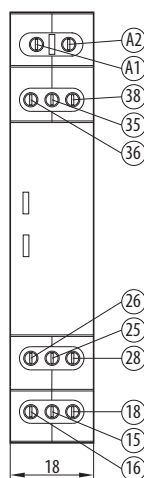
RPI-16-001-...



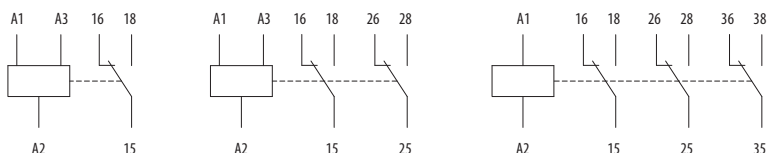
RPI-08-002-...



RPI-08-003-...



Diagram





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