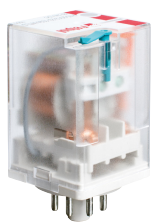
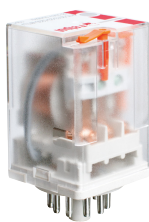


R15 - 2 CO, 3 CO

industrial relays of small dimensions



R15 - 2 CO



R15 - 3 CO

• Relays of general application • For plug-in sockets: 35 mm rail mount acc. to PN-EN 60715; on panel mounting: solder terminals • Contacts AgNi • Coils AC and DC • WT (mechanical indicator + lockable front test button) - standard features of relays in cover, for plug-in sockets. Relays may be provided with the test buttons (no latching) and plugs - page 7 • **Have obtained LR Type Approval Certificate (Lloyd's Register)** • Recognitions, certifications, directives: RoHS, AUCOTEAM GmbH Berlin - railroad standard,       

Contact data

Number and type of contacts	2 CO, 3 CO
Contact material	AgNi , AgNi/Au flash gold plating, AgNi/Au hard gold plating
Rated / max. switching voltage	AC 250 V / 440 V
Min. switching voltage	10 V AgNi, 10 V AgNi/Au flash gold plating 5 V AgNi/Au hard gold plating
Rated load (capacity)	AC1 10 A / 250 V AC 10 A / 277 V AC UL 508 AC15 3 A / 120 V 1,5 A / 240 V (B300) AC3 370 W (single-phase motor; 0,5 HP / 240 V AC UL 508) DC1 10 A / 24 V DC (see Fig. 3) DC13 0,22 A / 120 V 0,1 A / 250 V (R300)
Min. switching current	5 mA
Max. inrush current	20 A
Rated current	10 A
Max. breaking capacity	AC1 2 500 VA
Min. breaking capacity	0,3 W AgNi, 0,3 W AgNi/Au flash gold plating 0,05 W AgNi/Au hard gold plating
Contact resistance	≤ 100 mΩ
Max. operating frequency	
• at rated load	AC1 1 200 cycles/hour
• no load	12 000 cycles/hour

Coil data

Rated voltage	50/60 Hz AC 6 ... 240 V DC 6 ... 220 V
Must release voltage	AC: ≥ 0,15 U _n DC: ≥ 0,1 U _n
Operating range of supply voltage	see Tables 1, 2
Rated power consumption	AC 2,8 VA 50 Hz 2,5 VA 60 Hz DC 1,5 W

Insulation according to PN-EN 60664-1

Insulation rated voltage	250 V AC
Rated surge voltage	2 500 V 1,2 / 50 μs
Overvoltage category	III
Insulation pollution degree	3
Dielectric strength	
• between coil and contacts	2 500 V AC type of insulation: basic
• contact clearance	1 500 V AC type of clearance: micro-disconnection
• pole - pole	2 000 V AC type of insulation: basic
Contact - coil distance	• clearance ≥ 3 mm • creepage ≥ 4,2 mm

General data

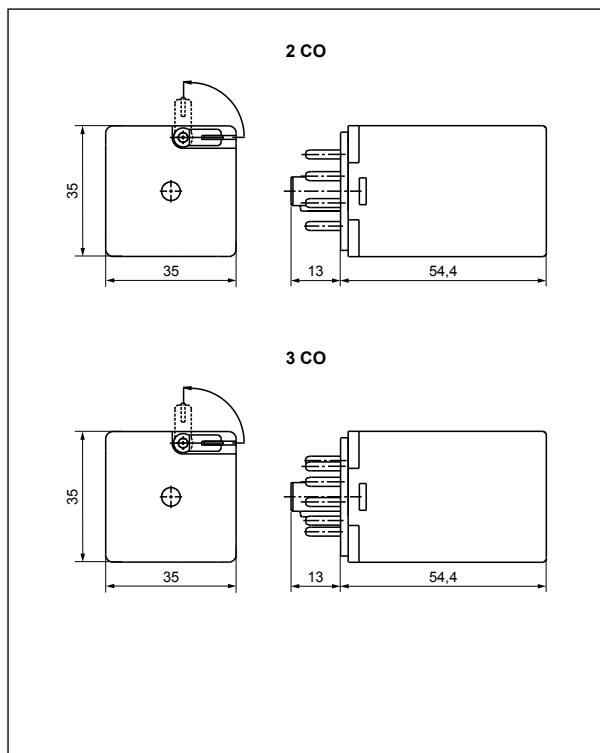
Operating / release time (typical values)	AC: 12 ms / 10 ms DC: 18 ms / 7 ms
Electrical life	
• resistive AC1	> 2 x 10 ⁵ 10 A, 250 V AC
• cosφ	see Fig. 2
Mechanical life (cycles)	> 2 x 10 ⁷
Dimensions (L x W x H)	35 x 35 x 54,4 mm
Weight	83 g
Ambient temperature	• storage -40...+85 °C • operating AC: -40...+55 °C DC: -40...+70 °C
Cover protection category	IP 40 PN-EN 60529
Environmental protection	RTI PN-EN 116000-3
Shock resistance	10 g
Vibration resistance	5 g 10...150 Hz
Solder bath temperature	max. 270 °C
Soldering time	max. 5 s

The data in bold type relate to the standard versions of the relays.

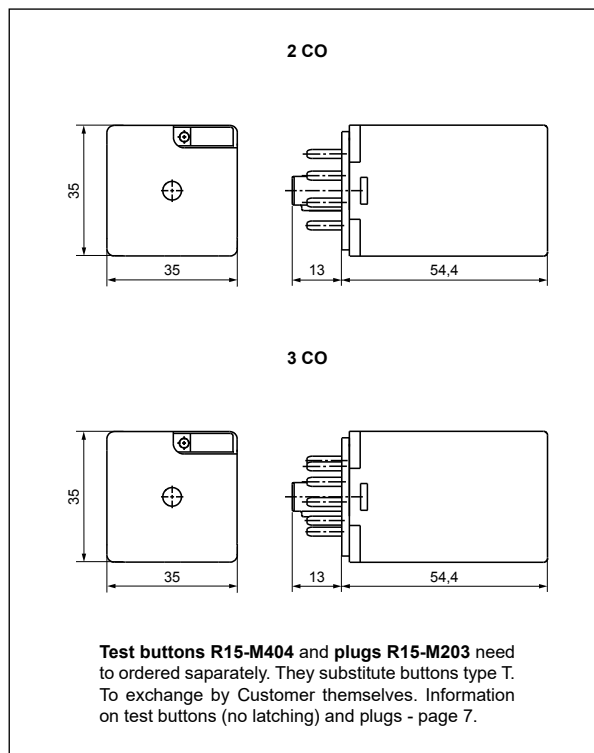
R15 - 2 CO, 3 CO

industrial relays of small dimensions

Dimensions - plug-in version (WT), with lockable front test button type T



Dimensions - plug-in version, with test button (no latching) or with plug (no manual operation)



Mounting

Relays R15 - 2 CO, 3 CO are offered in versions: • for plug-in sockets. With WT features as standard (W - mechanical indicator + T - lockable front test button). In these relays is possibility self-exchange of button type T for test button R15-M404 (no latching) or on plug R15-M203 (no manual operation). The buttons R15-M404 and the plugs R15-M203 need to be ordered separately.

Relays R15 - 2 CO are designed for: • screw terminals plug-in sockets PZ8 with clip PZ11 0031, 35 mm rail mount acc. to PN-EN 60715 or on panel mounting with two M3 screws • screw terminals plug-in sockets GZU8 with clip GZU 1052, 35 mm rail mount acc. to PN-EN 60715 • screw terminals plug-in sockets GZ8 with clip GZ 1050, on panel mounting with two M3 screws • screw terminals plug-in sockets GZP8 with clip GZP-0054, 35 mm rail mount acc. to PN-EN 60715 or on panel mounting with two M3 screws • solder terminals sockets GOP8 with clip R159 1051 and spring clamp R15 5922.

Relays R15 - 3 CO are designed for: • screw terminals plug-in sockets PS11 and PZ11 with clip PZ11 0031, 35 mm rail mount acc. to PN-EN 60715 or on panel mounting with two M3 screws • screw terminals plug-in sockets GZU11 with clip GZU 1052, 35 mm rail mount acc. to PN-EN 60715 • screw terminals plug-in sockets GZ11 with clip GZ 1050, on panel mounting with two M3 screws • screw terminals plug-in sockets GZP11 with clip GZP-0054, 35 mm rail mount acc. to PN-EN 60715 or on panel mounting with two M3 screws • solder terminals sockets GOP11 with clip R159 1051 and spring clamp R15 5922.