14.07.2014

R15 - 2 CO, 3 CO

industrial relays of small dimensions





R15 - 2 CO R15 - 3 CO

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 6 · Have obtained LR Type Approval Certificate (Lloyd's Register) • Recognitions, certifications, directives: RoHS, AUCOTEAM

• Relays of general application • For plug-in sockets: 35 mm rail mount

Number and type of contacts	Contact data		GmbH Berlin - railroad standard, (
Contact material AgNi, AgNi/Au 0,2 μm, AgNi/Au 5 μm			2 CO, 3 CO
Rated max. switching voltage AC 250 V 440 V			
Min. switching voltage	Rated / max. switching voltage	AC	
Rated load (capacity)	Min. switching voltage		10 V AgNi, 10 V AgNi/Au 0,2 μm, 5 V AgNi/Au 5 μm
AC15		AC1	
DC1 DC1 DC1 DC2 A / 1 2 D V DC (see Fig. 3) D.22 A / 1 2 D V DC (R300)	, , , ,	AC15	3 A / 120 V 1,5 A / 240 V (B300)
DC1 DC1 O.22 A / 120 V O.1 A / 250 V (R300)		AC3	370 W (single-phase motor; 0,5 HP / 240 V AC UL 508)
Min. switching current S mA		DC1	, <u> </u>
Max. inrush current 20 A Rated current 10 A Max. breaking capacity AC1 2 500 VA Min. breaking capacity 0,3 W AgNii, 0,3 W AgNii/Au 0,2 μm, 0,05 W AgNii/Au 5 μm Contact resistance ≤ 100 mΩ Max. operating frequency - 1 at rated load AC1 - 1 200 cycles/hour - 1 2000 cycles/hour - 2 2000 cycles/		DC13	0,22 A / 120 V 0,1 A / 250 V (R300)
Rated current 10 A 2 500 VA Max. breaking capacity 0,3 W AgNi, 0,3 W AgNi, 0,3 W AgNi/Au 0,2 μm, 0,05 W AgNi/Au 5 μm 2 100 mΩ Max. operating frequency	Min. switching current		5 mA
Max. breaking capacity AC1 2 500 VA Min. breaking capacity 0,3 W AgNi, 0,3 W AgNiiAu 0,2 μm, 0,05 W AgNii/Au 5 μm Contact resistance ≤ 100 mΩ Max. operating frequency 4 rated load AC1 - at rated load AC1 1 200 cycles/hour - no load 12 000 cycles/hour Coil data Coil data Rated voltage 5060 Hz AC 6 240 V DC 6 220 V DC: ≥ 0,1 Un Must release voltage AC: ≥ 0,15 Un DC: ≥ 0,1 Un Operating range of supply voltage see Tables 1, 2 Resertables 1, 2 Rated power consumption AC 2,8 VA 50 Hz 2,5 VA 60 Hz Insulation according to PN-EN 60664-1 DC 1,5 W Insulation rated voltage 2 500 V AC 2,5 VA 60 Hz Insulation pollution degree 3 3 Dielectric strength 2 500 V AC type of insulation: basic Lebetween coil and contacts 2 500 V AC type of insulation: basic Lebetween coil and contacts 2 500 V AC type of insulation: basic	Max. inrush current		20 A
Min. breaking capacity	Rated current		10 A
Contact resistance ≤ 100 mΩ Max. operating frequency - at rated load AC1 - at rated load AC1 - no load 12 000 cycles/hour Coil data Coil data Rated voltage 50/60 Hz AC 6 240 V Bated voltage AC: ≥ 0,15 U. DC: ≥ 0,1 U. Operating range of supply voltage see Tables 1, 2 Rated power consumption AC 2,8 VA 50 Hz 2,5 VA 60 Hz Insulation according to PN-EN 60664-1 Insulation rated voltage 250 V AC Rated surge voltage 2 500 V AC V Overvoltage category III Insulation pollution degree 3 Dielectric strength 2 500 V AC type of insulation: basic • contact clearance 1 500 V AC type of insulation: basic • contact clearance 2 3 mm • clearance (clearance) 2 3 mm • clearance (clearance) 2 2 x 10° • clearance (clearance) </td <td>Max. breaking capacity</td> <td>AC1</td> <td>2 500 VA</td>	Max. breaking capacity	AC1	2 500 VA
Max. operating frequency • at rated load AC1 1 200 cycles/hour Coil data Rated voltage 50/60 Hz AC 6 240 V Rated voltage DC 6 220 V Must release voltage AC : ≥ 0,15 U₁ DC: ≥ 0,1 U₁ Operating range of supply voltage see Tables 1, 2 Rated power consumption AC 2,8 VA 50 Hz DC: ≥ 0,1 U₁ Linsulation according to PN-EN 60664-1 Insulation according to PN-EN 60664-1 Insulation according to PN-EN 60664-1 Insulation according to PN-EN 60664-1 Insulation pollution degree 2500 V AC Overvoltage category III Insulation pollution degree 3 Dielectric strength 2 500 V AC type of insulation: basic between coil and contacts 2 500 V AC type of insulation: basic contact clearance 1 500 V AC type of insulation: basic Contact - coil distance ≥ 3 mm clearance ≥ 3 mm croepage ≥ 4,2 mm General data AC: 12 ms / 10 ms Dc: 18 ms / 7 ms Dietectrical life > 2 x 10° resistive AC1 > 2 x 10° <	Min. breaking capacity		0,3 W AgNi, 0,3 W AgNi/Au 0,2 μm, 0,05 W AgNi/Au 5 μm
• at rated load	Contact resistance		≤ 100 mΩ
• no load 12 000 cycles/hour Coil data Rated voltage 50/60 Hz AC DC 6 240 V 6 220 V Must release voltage AC: ≥ 0,15 U₁ DC: ≥ 0,1 U₁ DC: ≥ 0,1 U₁ 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 1,5 W Insulation according to PN-EN 60664-1 Insulation rated voltage Rated surge voltage 2 500 V AC Rated surge voltage 2 500 V AC Overvoltage category III Insulation pollution degree 3 Dielectric strength • between coil and contacts 2 500 V AC type of insulation: basic • between coil and contacts 2 500 V AC type of insulation: basic • contact - coil distance 2 500 V AC type of insulation: basic • cotact - coil distance ≥ 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 > 2 x 10² 10 A, 250 V AC • cosp/ See Fig. 2 Mechanical life (cycles) > 2 x 10²	Max. operating frequency		
Coil data Coil data Rated voltage 50/60 Hz AC DC 6 240 V DC 6 220 V Must release voltage AC: ≥ 0,15 U, DC: ≥ 0,1 U, DC: ≥	at rated load	AC1	1 200 cycles/hour
Rated voltage	• no load		12 000 cycles/hour
DC 6 220 V	Coil data		
Must release voltage	Rated voltage 50/60	Hz AC	6 240 V
See Tables 1, 2	, and the second	DC	6 220 V
Rated power consumption	Must release voltage		$AC: \ge 0,15 U_n$ $DC: \ge 0,1 U_n$
DC			
Insulation according to PN-EN 60664-1	Rated power consumption	AC	2,8 VA 50 Hz 2,5 VA 60 Hz
Insulation rated voltage		DC	1,5 W
Insulation rated voltage	Insulation according to PN-EN 60664-1		
Rated surge voltage 2 500 V 1,2 / 50 µs Overvoltage category III Insulation pollution degree 3 Dielectric strength	-		250 V AC
Overvoltage category III Insulation pollution degree 3 Dielectric strength 2 500 V AC type of insulation: basic • between coil and contacts 2 500 V AC type of clearance: micro-disconnection • pole - pole 2 000 V AC type of insulation: basic Contact - coil distance ≥ 3 mm • clearance ≥ 3 mm • creepage ≥ 4,2 mm General data AC: 12 ms / 10 ms DC: 18 ms / 7 ms Electrical life > 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 10150 Hz Solder bath temperature max. 270 °C	_		
Insulation pollution degree 3	<u>-</u>		
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• 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 10⁵ 10 A, 250 V AC • cosφ see Fig. 2 Mechanical life (cycles) > 2 x 10⁻ Dimensions (L x W x H) 35 x 35 x 54,4 mm Weight 83 g Ambient temperature • storage • operating -40+85 °C 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 10150 Hz Solder bath temperature max. 270 °C	• pole - pole		2 000 V AC type of insulation: basic
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General dataAC: 12 ms / 10 msDC: 18 ms / 7 msElectrical life> 2 x 10510 A, 250 V AC• resistive AC1> 2 x 10710 A, 250 V AC• cosφsee Fig. 2Mechanical life (cycles)> 2 x 107Dimensions (L x W x H)35 x 35 x 54,4 mmWeight83 gAmbient temperature• storage-40+85 °C• operatingAC: -40+55 °C DC: -40+70 °CCover protection categoryIP 40 PN-EN 60529Environmental protectionRTI PN-EN 116000-3Shock resistance10 gVibration resistance5 g 10150 HzSolder bath temperaturemax. 270 °C	clearance		≥ 3 mm
Operating / release time (typical values)AC: 12 ms / 10 msDC: 18 ms / 7 msElectrical life• resistive AC1> 2 x 10510 A, 250 V AC• cosφsee Fig. 2Mechanical life (cycles)> 2 x 107Dimensions (L x W x H)35 x 35 x 54,4 mmWeight83 gAmbient temperature• storage-40+85 °C• operatingAC: -40+55 °C DC: -40+70 °CCover protection categoryIP 40 PN-EN 60529Environmental protectionRTI PN-EN 116000-3Shock resistance10 gVibration resistance5 g 10150 HzSolder bath temperaturemax. 270 °C	• creepage		≥ 4,2 mm
Electrical life • resistive AC1 • cos ϕ Mechanical life (cycles) Dimensions (L x W x H) Weight Ambient temperature • storage • operating Environmental protection Shock resistance Vibration resistance • resistive AC1 • 2 x 10 ⁵ 10 A, 250 V AC see Fig. 2 10 A 250 V AC 10 A 250	General data		
Electrical life • resistive AC1 • cos ϕ Mechanical life (cycles) Dimensions (L x W x H) Weight Ambient temperature • storage • operating Environmental protection Shock resistance Vibration resistance • resistive AC1 • 2 x 10 ⁵ 10 A, 250 V AC see Fig. 2 10 A 250 V AC 10 A 250	Operating / release time (typical values)		AC: 12 ms / 10 ms DC: 18 ms / 7 ms
• $\cos\phi$ see Fig. 2Mechanical life (cycles)> 2×10^7 Dimensions (L x W x H) $35 \times 35 \times 54,4$ mmWeight83 gAmbient temperature• storage • operating $-40+85$ °C AC: $-40+55$ °C DC: $-40+70$ °CCover protection categoryIP 40PN-EN 60529Environmental protectionRTIPN-EN 116000-3Shock resistance10 gVibration resistance5 g 10150 HzSolder bath temperaturemax. 270 °C			
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Shock resistance10 gVibration resistance5 g 10150 HzSolder bath temperaturemax. 270 °C			IP 40 PN-EN 60529
Vibration resistance5 g 10150 HzSolder bath temperaturemax. 270 °C	Environmental protection		RTI PN-EN 116000-3
Solder bath temperature max. 270 °C	Shock resistance		10 g
·	Vibration resistance		5 g 10150 Hz
Soldering time max. 5 s	Solder bath temperature		max. 270 °C
	Soldering time		max. 5 s

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



Coil data - DC voltage version

Table 1

Coil code	Coil code Rated voltage V DC Coil resistance at 20 °C Ω	at 20 °C	Acceptable resistance	Coil operating range V DC	
			min. (at 20 °C)	max. (at 55 °C)	
1006	6	28	± 10%	4,8	6,6
1012	12	110	± 10%	9,6	13,2
1024	24	430	± 10%	19,2	26,4
1048	48	1 750	± 10%	38,4	52,8
1060	60	2 700	± 10%	48,0	66,0
1110	110	9 200	± 10%	88,0	121,0
1120	120	11 000	± 10%	96,0	132,0
1220	220	37 000	± 10%	176,0	242,0

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

Coil data - AC 50/60 Hz voltage version

Table 2

Coil code Rated voltage V AC		Coil resistance at 20 °C	Acceptable resistance	Coil operating range V AC	
	_	Ω		min. (at 20 °C)	max. (at 55 °C)
5006	6	4,3	± 15%	4,8	6,6
5012	12	18,5	± 15%	9,6	13,2
5024	24	75	± 15%	19,2	26,4
5048	48	305	± 15%	38,4	52,8
5060	60	475	± 15%	48,0	66,0
5115	115	1 840	± 15%	92,0	126,5
5120	120	1 910	± 15%	96,0	132,0
5220	220	6 980	± 15%	176,0	242,0
5230	230	7 080	± 15%	184,0	253,0
5240	240	7 760	± 15%	192,0	264,0

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

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

2 CO
3 CO
3 CO
3 CO

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

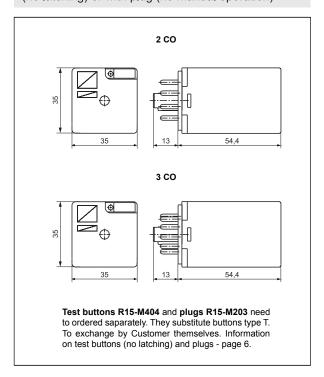
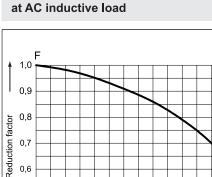


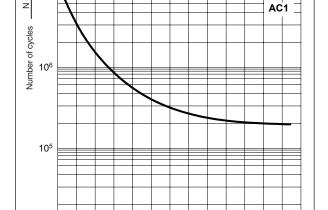
Fig. 2

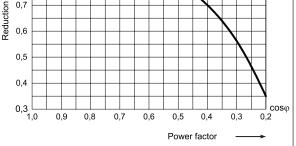
Electrical life at AC resistive load. Switching frequency: 1 200 cycles/hour





Electrical life reduction factor

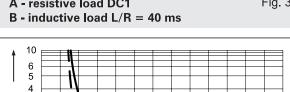




 $N_{cosj} = N \times F$

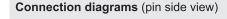
Max. DC breaking capacity A - resistive load DC1

Fig. 3



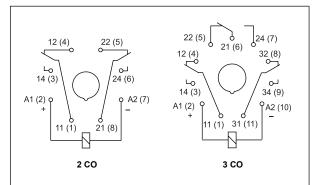
0,2 0,4 0,6 0,8 1,0 1,2 1,4 1,6 1,8 2,0 2,2 2,4 2,6

Breaking capacity [kVA] -



N - electrical life

at AC1



Note: the indicated polarity of the supply refers to the relays with extra equipment **D** - surge suppression element (diode) - for DC coils only.

3 Surrent [A] 2 1 0.5 0,4 0,3 Α 0.2 В 20 40 60 80 100 120 140 160 180 200 220 240 260 Voltage [V]

Mounting

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 GZS8, 35 mm rail mount acc. to PN-EN 60715 or 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 GZS11, 35 mm rail mount acc. to PN-EN 60715 or 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.

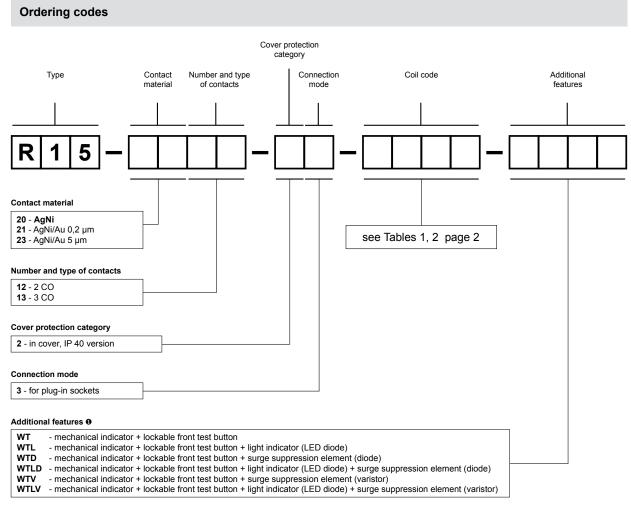
14.07.2014

R15 - 2 CO, 3 CO

industrial relays of small dimensions

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 ordered saparately.



• WT - standard features of relays for plug-in sockets. WTD, WTLD - only for DC coils, WTV, WTLV - only for AC coils

Test buttons (no latching) and plugs need to ordered saparately. They substitute buttons type T. To exchange by Customer themselves. Information on test buttons (no latching) and plugs - page 6.

- Button R15-M404-A orange colour (AC coils)
 Button R15-M404-D green colour (DC coils)
- Plug R15-M203-A orange colour (AC coils)
- Plug R15-M203-D green colour (DC coils)

Note:

For relays with additional features $\bf D$ - surge suppression element (diode) (versions WTD and WTLD) - fixed supply polarity compulsory for the DC load of coils: +A1(2) / -A2(7) for R15 - 2 CO and +A1(2) / -A2(10) for R15 - 3 CO. The polarity is indicated on the relay cover. For other versions of the relays with DC coils any polarity is possible.

Examples of ordering codes:

R15-2012-23-1024-WT

R15-2013-23-5230-WTL

relay **R15**, for plug-in sockets, two changeover contacts, contact material AgNi, coil voltage 24 V DC, with mechanical indicator and lockable front test button, in cover IP 40 relay **R15**, for plug-in sockets, three changeover contacts, contact material AgNi, coil voltage 230 V AC 50/60 Hz, with mechanical indicator and lockable front test button and light indicator (LED diode), in cover IP 40



Additional features for industrial relays

Industrial relays for plug-in sockets: R2N, R3N, R4N, R15 - 2 CO @, R15 - 3 CO @ with WT features as standard (W - mechanical indicator + T - lockable front test button). **Detailed information** on additional features of individual relays can be found in the data sheets on the side of "Ordering codes".

Type o	Description	For industrial relays
W	mechanical indicator	R2N, R3N, R4N, (R15 - 2 CO, 3 CO ❷)
Т	lockable front test button, orange colour - AC coils, green colour - DC coils	R2N, R3N, R4N, (R15 - 2 CO, 3 CO ❷)
L	light indicator (LED diode), located inside the relay	R2N, R3N, R4N, RY2, (R15 - 2 CO, 3 CO, 4 CO @) RUC, RUC-M
D	surge suppression element (diode) - only for DC coils	R2N, R3N, R4N, RY2, (R15 - 2 CO, 3 CO, 4 CO 2)
V	surge suppression element (varistor) - only for AC coils	(R15 - 2 CO, 3 CO ❷)
K	test button without block function	(R15 - 4 CO ❷), RUC

• Available combinations:

 $\mbox{WTL},\mbox{WTD},\mbox{WTLD}$ - in relays R2N, R3N, R4N for plug-in sockets

 $\textbf{L},\,\textbf{D},\,\textbf{L}\textbf{D}$ - in relays RY2 for plug-in sockets

WT, WTL, WTD, WTLD, WTV, WTLV - in relays R15 - 2 CO, 3 CO for plug-in sockets

 $\mathbf{K},\,\mathbf{L},\,\mathbf{D},\,\mathbf{KL},\,\mathbf{KD},\,\mathbf{LD},\,\mathbf{KLD}$ - in relays R15 - 4 CO for plug-in sockets

K, L, KL - in relays RUC

L - in relays RUC-M

Voltage versions, in covers



Test buttons (no latching) are recommended for R2N...WT, R3N...WT, R4N...WT, R15...WT 2 CO, R15...WT 3 CO relays - **for applications that do not allow permanent contact latching**. By manual operation (pressing the button) relay contacts can get switched for as long time as long the button is pressed. Contacts return to initial position as soon as pressure is released from the button. Those operations can be done while the coil is deenergized.

Button **R4P-0001** or **R15-M404** can be easily inserted by the Customer after removal of button type **T** (see Fig. 2). Button type **T** can be removed with screwdriver as shown on Fig. 1.

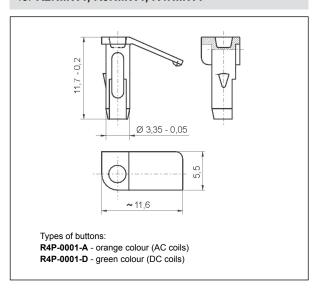




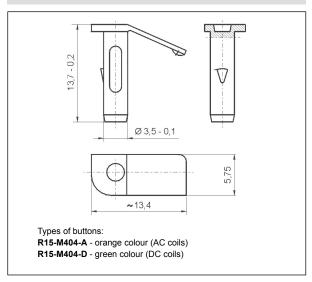
Fig. 1

Fig. 2

Dimensions - test button R4P-0001 for R2N...WT, R3N...WT, R4N...WT

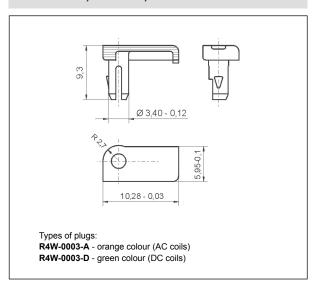


Dimensions - test button R15-M404 for R15...WT 2 CO, R15...WT 3 CO

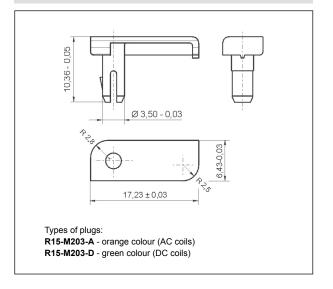


Plugs R4W-0003 or R15-M203 can substitute button type T if manual operation (latching and testing) is not allowed. Changing button type T for plug can be done by Customer themselves in the same way as changing button type T for button (no latching).

Dimensions - plug R4W-0003 for R2N...WT, R3N...WT, R4N...WT



Dimensions - plug R15-M203 for R15...WT 2 CO, R15...WT 3 CO



🖵 relool 🖁

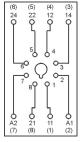
PZ8 6

For R15 - 2 CO

Screw terminals Max. tightening moment for the terminal: 0,7 Nm 35 mm rail mount acc. to PN-EN 60715 or on panel mounting 68,2 x 38 x 24,2 mm Two poles 10 A, 250 V AC

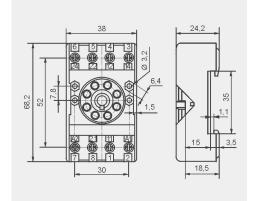


Connection diagram



PZ11 0031

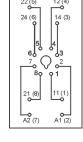
Dimensions



GZU8

For R15 - 2 CO

Screw terminals Max. tightening moment for the terminal: 0,7 Nm acc. to PN-EN 60715 82 x 35,5 x 25,7 mm Two poles 10 A, 300 V AC

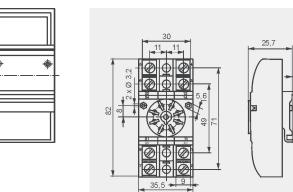


Accessories

Connection diagram

Adaptor

Dimensions





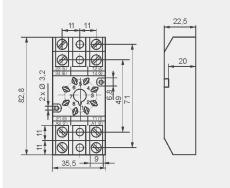
Accessories

GZU 1052





Dimensions



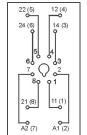
GZ8

For R15 - 2 CO

Screw terminals Max. tightening moment for the terminal: 0,7 Nm On panel mounting 82,8 x 35,5 x 22,5 mm Two poles 10 A, 300 V AC



Connection diagram

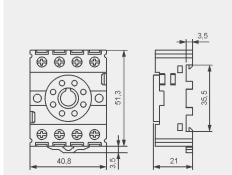




GZ 1050

Accessories

Dimensions



GZS8

For R15 - 2 CO

Screw terminals Max. tightening moment for the terminal: 1,0 Nm 35 mm rail mount acc. to PN-EN 60715 or on panel mounting 51,3 x 40,8 x 21 mm Two poles 10 A, 300 V AC





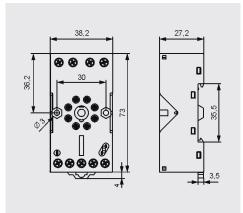
Connection diagram

6 Have obtained LR Type Approval Certificate (Lloyd's Register).

14.07.2014

Connection diagram GZP8 For R15 - 2 CO 12 **④** Screw terminals Max. tightening moment for the terminal: 0,5 Nm 35 mm rail mount acc. to PN-EN 60715 or on panel mounting 73 x 38,2 x 27,2 mm Two poles 12 A, 300 V AC

Dimensions



GOP8

For R15 - 2 CO

Solder terminals 47,2 x 32 x 22 mm Two poles 10 A, 250 V AC

Dimensions



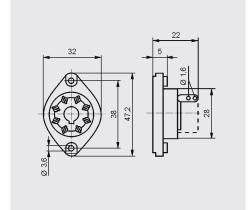


GZP-0054



Time module COM3

GZP-0035



Accessories

Connection diagram

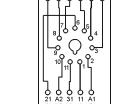
Accessories

R159 1051

PS11 6

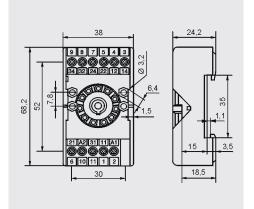
For R15 - 3 CO

Screw terminals Max. tightening moment for the terminal: 0,7 Nm 35 mm rail mount acc. to PN-EN 60715 or on panel mounting 68,2 x 38 x 24,2 mm Three poles 10 A, 250 V AC





Dimensions



PZ11 6

For R15 - 3 CO

Screw terminals Max. tightening moment for the terminal: 0,7 Nm 35 mm rail mount acc. to PN-EN 60715 or on panel mounting 68,2 x 38 x 24,2 mm Three poles 10 A, 250 V AC



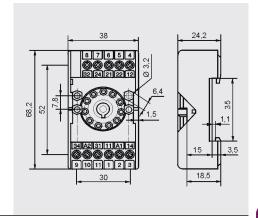
Connection diagram

Accessories

Accessories



Dimensions



14.07.2014

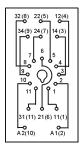
⁶ Have obtained LR Type Approval Certificate (Lloyd's Register).

GZU11 For R15 - 3 CO

Screw terminals Max. tightening moment for the terminal: 0,7 Nm 35 mm rail mount acc. to PN-EN 60715 82 x 35,5 x 25,7 mm Three poles 10 A, 250 V AC

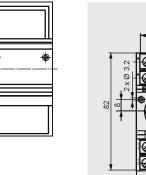


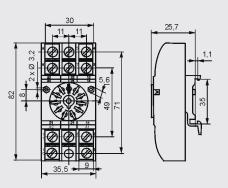
Connection diagram



Adaptor

Dimensions





GZ11

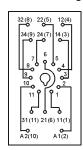
For R15 - 3 CO

Screw terminals Max. tightening moment for the terminal: 0,7 Nm On panel mounting 82,8 x 35,5 x 22,5 mm Three poles 10 A, 250 V AC



Connection diagram

Accessories



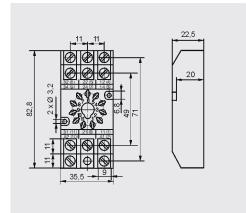
Mounting dimensions

GZU 1052

GZ 1050



Dimensions



GZS11

For R15 - 3 CO

Screw terminals Max. tightening moment for the terminal: 1,0 Nm 35 mm rail mount acc. to PN-EN 60715 or on panel mounting 51,3 x 43 x 30 mm Three poles 10 A, 300 V AC

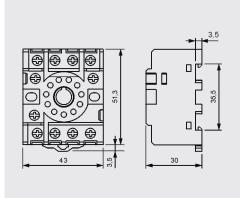


Connection diagram

Accessories



Dimensions



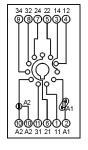
GZP11

For R15 - 3 CO

Screw terminals Max. tightening moment for the terminal: 0,5 Nm 35 mm rail mount acc. to PN-EN 60715 or on panel mounting 73 x 38,2 x 27,2 mm Three poles 12 A, 300 V AC



Connection diagram

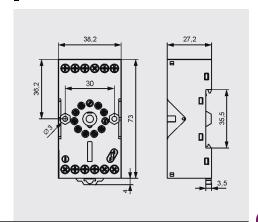


Accessories



GZP-0035 GZP-0054

Dimensions



Prelpol ® s.A.

GOP11

For R15 - 3 CO

Solder terminals 47,2 x 32 x 22 mm Three poles 10 A, 250 V AC

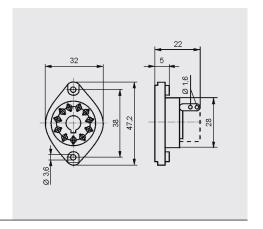




Accessories



Dimensions



PZ8 / PZ11

Screw terminals plug-in sockets for R15 - 2 CO / 3 CO



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.