R15 - 3 CO + GZP11 + COM3

- Time relay PIR15 3 CO (standard) consists of: electromagnetic relay R15 - 3 CO, black plug-in socket GZP11, time module COM3, spring wire clip GZP-0054, white description plate GZP-0035
- Time relay PIR15 2 CO consists of: electromagnetic relay R15 2 CO, black plug-in socket GZP8, time module COM3, spring wire clip GZP-0054, white description plate GZP-0035
- 35 mm rail mount acc. to PN-EN 60715 or on panel mounting with two M3 screws Recognitions, certifications, directives: recognitions R15, RoHS, CE

Output circuits - contact data

Output circuits - contact data			
Number and type of contacts		2 CO, 3 CO	
Contact material		AgNi	
Max. switching voltage		440 V AC / 250 V DC	
Rated load (capacity)	AC1	10 A / 250 V AC	
	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)	
Max. inrush current		20 A	
Rated current		10 A	
Max. breaking capacity	AC1	2 500 VA	
Min. breaking capacity		0,3 W 5 V, 5 mA	
Contact resistance		\leq 100 m Ω	
Max. operating frequency			
 at rated load 	AC1	1 200 cycles/hour	
no load		12 000 cycles/hour	
Input circuit			
•	60 Hz AC	24 240 V	
	DC	24 220 V	
Supply voltage of time module COM3		24240 V AC/DC (universal module)	
Operating range of supply voltage		0,851,1 Un see Tables 1, 2	
Rated power consumption	AC	3,0 VA	
F F	DC	2,0 W	
Range of supply frequency		4863 Hz	
Control contact (B1) S			
• min. time of pulse duration @		100 ms	
Insulation according to PN-EN 60664-	1		
Insulation rated voltage	1	250 V AC	
Overvoltage category			
Dielectric strength			
input - outputs		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	
Input - outputs distance			
clearance		≥ 3 mm	
• creepage		\geq 4,2 mm	
General data			
Operating / release time (typical values)		AC: 12 ms / 10 ms DC: 18 ms / 7 ms	
Electrical life		AC: 12 IIIS / 10 IIIS DC: 16 IIIS / 7 IIIS	
resistive AC1		> 2 x 10 ⁵ 10 A, 250 V AC	
• COSØ		patrz Wykres 2	
Mechanical life (cycles)		$> 2 \times 10^7$	
,		73 x 38,2 x 85,4 mm	
Dimensions (L x W x H)			
Weight	orogo	3 CO: 175 g 2 CO: 168 g -40+70 °C	
•	orage	-40+70 °C -40+55 °C	
•	perating		
Cover protection category			
Environmental protection Shock resistance			
Vibration resistance		10 g	
VIDIALION TESISLANCE		5 g 10500 Hz	

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

• The control terminal B1 is activated by connection to A1 terminal via the external control contact S.

2 Where the control signal is recognizable.

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PIR15...T with time module COM3 time relays

Time module data

Functions	E, Wu, Bp, Bi, R, Ws, Wa, Es
Function adjustment	selection with microswitches
Time ranges	1 s; 10 s; 1 min.; 10 min.; 1 h; 10 h; 1 d; 10 d
Timing adjustment	(0,051) x time range - with microswitches;
	within the range - with a potentiometer
Base accuracy	± 1% (calculated from the final range values)
Setting accuracy	\pm 5% (calculated from the final range values)
Repeatability	± 0,5% or ± 5 ms
Temperature influence	± 0,01% / °C
Recovery time	150 ms
LED indicator	green LED U ON - indication of supply voltage U
	green LED U flashing - measurement of T time

 $\ensuremath{\boldsymbol{\Theta}}$ Settings of switches - see below.

Settings of switches								
Function	E	Wu	Bi	Вр	R	Ws	Wa	Es
adjustment microswitches 1, 2, 3								
Timing	1 s	10 s	1 min.	10 min.	1 h	10 h	1 d	10 d
adjustment (max.) microswitches 4, 5, 6								

Input data - DC voltage version

Input voltage code Rated input voltage Un V DC	Input resistance at 20 °C	Acceptable resistance	Input - voltage range V DC		
	V DC	Ω		min. (at 20 °C)	max. (at 55 °C)
024DC	24	430	± 10%	19,2	26,4
048DC	48	1 750	± 10%	38,4	52,8
060DC	60	2 700	± 10%	48,0	66,0
110DC	110	9 200	± 10%	88,0	121,0
120DC	120	11 000	± 10%	96,0	132,0
220DC	220	37 000	± 10%	176,0	242,0

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

Input data - AC 50/60 Hz voltage version

Input voltage code	Input resistance at 20 °C	Acceptable resistance	Input - voltage range V AC		
	V AC	Ω		min. (at 20 °C)	max. (at 55 °C)
024AC	24	75	± 15%	19,2	26,4
048AC	48	305	± 15%	38,4	52,8
060AC	60	475	± 15%	48,0	66,0
110AC	110	1 700	± 15%	88,0	121,0
120AC	120	1 910	± 15%	96,0	132,0
230AC	230	7 080	± 15%	184,0	253,0
240AC	240	7 760	± 15%	192,0	264,0

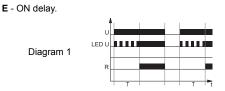
The data in bold type pertain to the standard versions of the relays.

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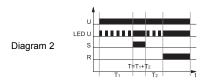
Table 1

Table 2

Time functions

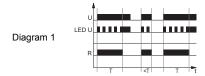


On applying the supply voltage U the set interval T begins - off-delay of the output relay R. After the interval T has lapsed, the output relay R switches on and remains on until supply voltage U is interrupted - see Diagram 1.

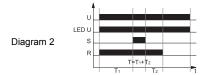


Note: in case the control contact S is closed in the course of the interval T, measurement of the interval T will be interrupted for the time in which the contact S is closed. Opening of the control contact S begins further measurement of the interval T. After the set interval T has lapsed, the output relay switches on and remains in this position until the supply voltage U is interrupted - see Diagram 2.

Wu - ON for the set interval

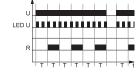


Applying the supply voltage U immediately switches the output relay R on for the set interval T. After the interval T has lapsed, the output relay R switches off - see Diagram 1.



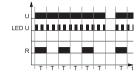
Note: if the **control contact S is closed** during the interval T, the interval is stopped for the time for which the control contact S remains closed. Opening of the control contact S restores the measurement of the interval T. After the interval T has lapsed, the output relay R switches off - see Diagram 2.

Bp - Symmetrical cyclical operation pause first.



Applying the supply voltage U starts the cyclical operation from the T interval - switching the output relay R off followed by switching on the output relay R for the interval T. The cyclical operation lasts until the supply voltage U is interrupted.

Bi - Symmetrical cyclical operation pulse first.



Applying the supply voltage U starts the cyclical operation from switching on the output relay R for the set interval T. After the interval T has lapsed,

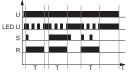
the output relay R switches off for the interval T. The cyclical operation lasts until the supply voltage U is interrupted.

R - OFF delay with the control contact S.



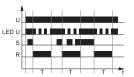
The input of the time relay is supplied with voltage U continuously. Closing of the control contact S immediately switches on the output relay R. Opening of the control contact S starts the set time of the delayed switching off of the output relay R. After the interval T has lapsed, the output relay R switches off. If the control contact S is closed during the interval T, the already measured time is reset, and the output relay R is switched on again. The OFF delay of the output relay R will start when the control contact S is opened again.

 $\ensuremath{\text{Ws}}$ - Single shot for the set interval triggered by closing of the control contact S.



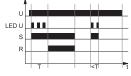
The input of the time relay is supplied with voltage U continuously. Closing of the control contact S immediately switches the output relay R on for the set interval T. After the interval T has lapsed, the output relay R is switched off. In the course of the interval T, any opening of the control contact S does not affect the function to be performed. The output relay R may be switched on again for the set interval, after the interval T has lapsed, by closing the control contact S again.

Wa - ON for the set interval triggered with the control contact S.



The input of the time relay is supplied with voltage U continuously. Closing of the control contact S does not start the interval T, and it does not change the position of the output relay R. Opening of the control contact S immediately switches on the output relay R for the set time. After the interval T has lapsed, the output relay R switches off. Opening and closing of the control contact S in the course of the interval T does not affect the function to be performed. The output relay R may be switched on again for the set interval with another closing and opening of the control contact S.

Es - ON delay with the control contact S.

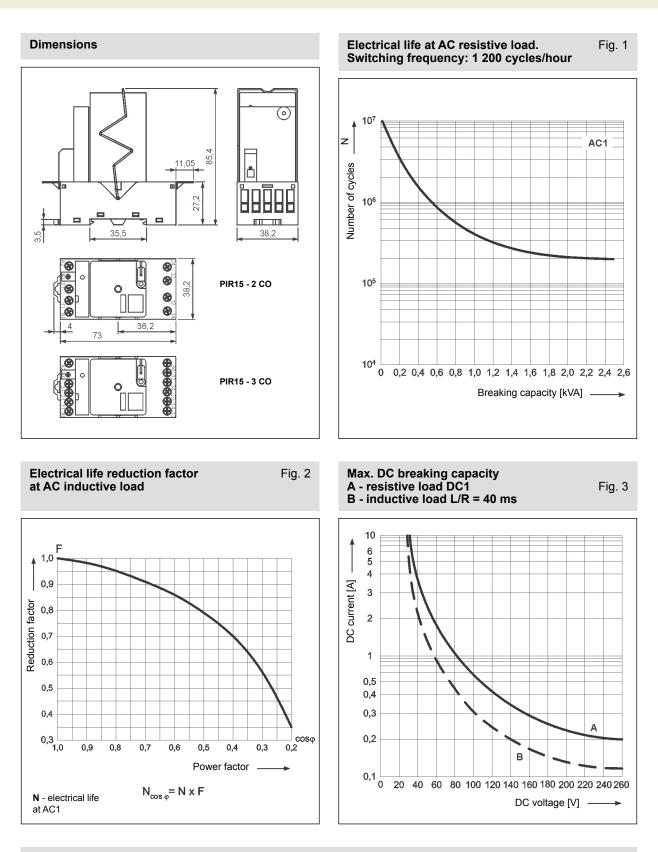


The input of the time relay is supplied with voltage U continuously. Closing of the control contact S starts the interval T - on-delay of the output relay R. After the interval T has lapsed, the output relay R switches on and remains in this position until the control contact S is opened. In case the control contact S is closed for time shorter than the set interval T, the output relay R will not activate.

 ${\bf U}$ - supply voltage; ${\bf R}$ - output state of the relay; ${\bf S}$ - control contact state; ${\bf T},\,{\bf T1},\,{\bf T2}$ - measured times; t - time axis

3

PIR15...T with time module COM3 time relays



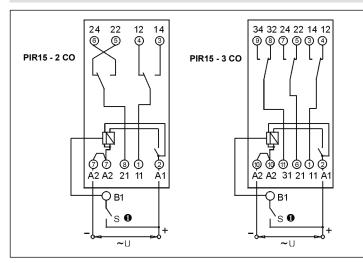
Mounting

Relays **PIR15...T** are designed for direct mounting on 35 mm rail mount acc. to PN-EN 60715 or on panel mounting with two M3 screws. **Connections:** max. cross section of the cables (stranded): 2 x 2,5 mm² (2 x 14 AWG), length of the cable deinsulation: 6,5 mm, max. tightening moment for the terminal: 0,5 Nm.

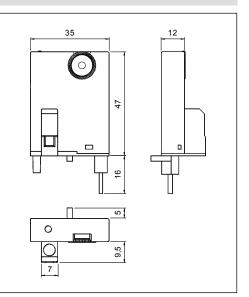
4

Connection diagrams (screw terminals side view)

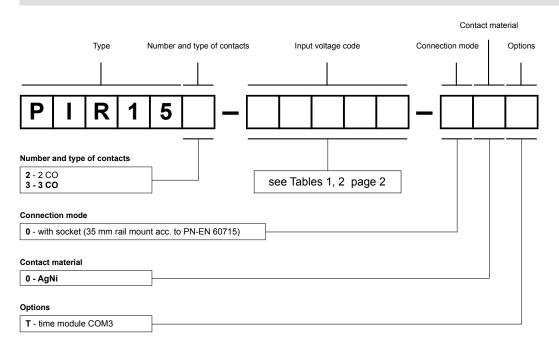
Dimensions - time module COM3



 ${\pmb 0}$ The control terminal B1 is activated by connection to A1 terminal via the external control contact S.



Ordering codes



Examples of ordering codes:

PIR153-230AC-00T	time relay PIR15 - 3 CO , which consists of: relay R15 - 3 CO (contact material AgNi, rated input voltage 230 V AC 50/60 Hz), black plug-in socket GZP11 (screw terminals), time module COM3 , spring wire clip GZP-0054 , white description plate GZP-0035
PIR152-024DC-00T	time relay PIR15 - 2 CO , which consists of: relay R15 - 2 CO (contact material AgNi, rated input voltage 24 V DC, black plug-in socket GZP8 (screw terminals), time module COM3 , spring wire clip GZP-0054 , white description plate GZP-0035

COM3

Universal time module - see www.relpol.com.pl



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.

5



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 H3CR-A8-301 24-48AC/12

 48DC
 H3CR-A8E 24-48AC/DC
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 H3CR-F8 100-240AC/100-125DC
 H3CR-F8 100-240AC/100-125DC