



R2 + GZM2

- 35 mm rail mount acc. to PN-EN 60715 or on panel mounting with two M3 screws.
- Interface relay **PIR2** consists of:
  - electromagnetic relay **R2**, plug-in socket **GZM2** grey,
  - signalling / protecting module **type M...** LED green:
    - version **LD** (polarization N: +A1/-A2) - M41G or M42G or M43G;
    - version **LV** - M91G or M92G or M93G,
  - retainer / retractor clip **GZT4-0040**, white description plate **GZT4-0035**.
- Recognitions, certifications, directives: recognitions R2, RoHS,

### Contact data

Number and type of contacts		2 C/O	
Contact material		<b>AgNi</b>	
Rated / max. switching voltage	AC	250 V / 440 V	
Min. switching voltage		5 V	
Rated load (capacity)	AC1	12 A / 250 V AC	
	AC15	3 A / 120 V      1,5 A / 240 V (B300)	
	AC3	370 W (single-phase motor)	
	DC1	12 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		24 A	
Rated current		12 A	
Max. breaking capacity	AC1	3 000 VA	
Min. breaking capacity		0,3 W	
Contact resistance		≤ 100 mΩ	
Max. operating frequency	AC1	• at rated load	1 200 cycles/hour
		• no load	18 000 cycles/hour

### Coil data

Rated voltage	50/60 Hz AC	12-24-48-120-230 V
	DC	12-24-48-110 V
Must release voltage		AC: ≥ 0,2 U <sub>n</sub> DC: ≥ 0,1 U <sub>n</sub>
Operating range of supply voltage		see Tables 1,2
Rated power consumption	AC	50 Hz: 1,6 VA      60 Hz: 1,3 VA
	DC	0,9 W

### Insulation according to PN-EN 60664-1

Insulation rated voltage		250 V AC
Rated surge voltage		4 000 V    1,2 / 50 μs
Overtoltage 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	2 500 V AC    type of insulation: basic
Contact - coil distance	• clearance	≥ 2,5 mm
	• creepage	≥ 4 mm

### General data

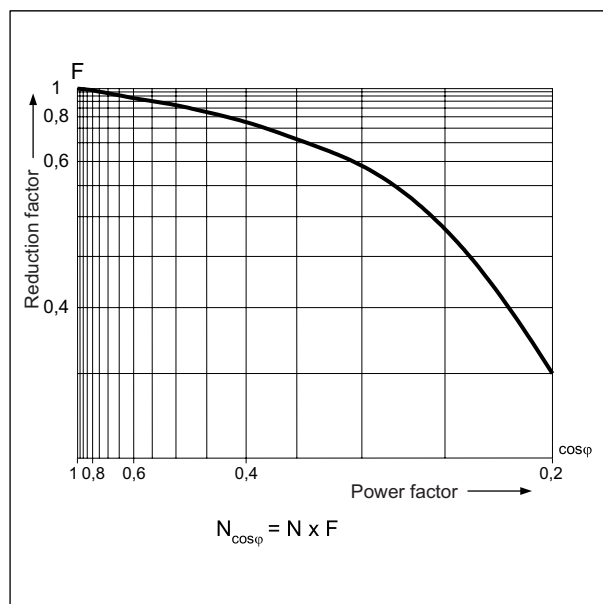
Operating / release time (typical values)		AC: 10 ms / 8 ms	DC: 13 ms / 3 ms
Electrical life	• resistive AC1	> 10 <sup>5</sup>	12 A, 250 V AC
	• cos φ	see Fig. 2	
Mechanical life (cycles)		> 2 x 10 <sup>7</sup>	
Dimensions (L x W x H)		75 x 27 x 82 mm	
Weight		97 g	
Ambient temperature	• storage	-40...+85 °C	
	• operating	AC: -40...+55 °C	DC: -40...+70 °C
Cover protection category		IP 20	PN-EN 60529
Environmental protection		R2: RTI	GZM2: RT0      PN-EN 116000-3
Shock resistance	(NO/NC)	10 g / 5 g	
Vibration resistance		5 g    10...150 Hz	

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



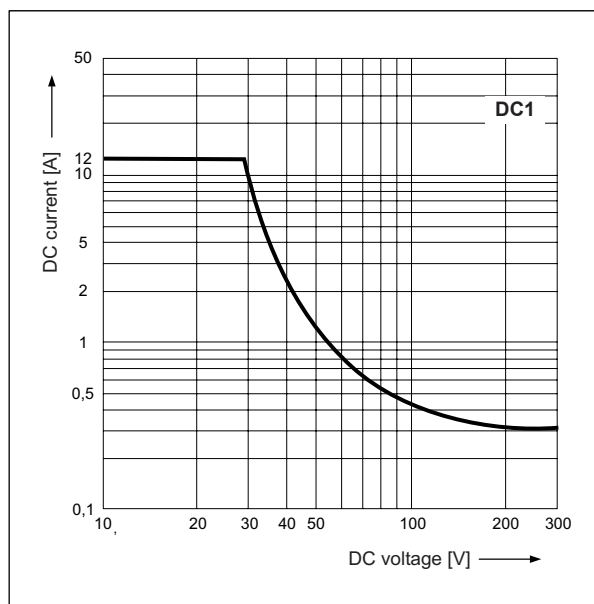
**Electrical life reduction factor at AC inductive load**

Fig. 2



**Max. DC resistive load breaking capacity**

Fig. 3

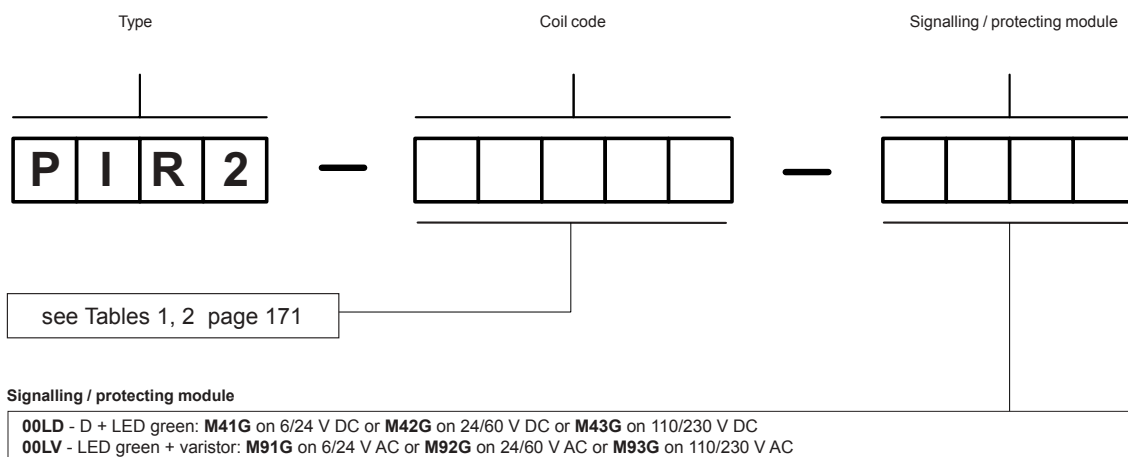


**Mounting**

Relays **PIR2** with socket **GZM2** are designed for direct mounting on 35 mm rail mount acc. to PN-EN 60715 or on panel mounting with two M3 screws.

Plug-in sockets **GZM2** may be linked with interconnection strip type **ZGGZ4** (see page 252).

**Ordering codes**



Examples of ordering codes:

**PIR2-012DC-00LD** interface relay **PIR2**, which consists of: relay **R2**, voltage version 12 V DC, plug-in socket **GZM2** grey (screw terminals), signalling / protecting module **M41G** (version **LD**, polarization N: +A1/-A2, LED green), retainer / retractor clip **GZT4-0040**, white description plate **GZT4-0035**

**PIR2-230AC-00LV** interface relay **PIR2**, which consists of: relay **R2**, voltage version 230 V AC 50/60 Hz, plug-in socket **GZM2** grey (screw terminals), signalling / protecting module **M93G** (version **LV**, LED green), retainer / retractor clip **GZT4-0040**, white description plate **GZT4-0035**