

# RM85

## miniature relays

RM85








RM85-...-01 (AC) ①



RM85-...-01 (DC) ①



- CTI 250 • Reinforced insulation
- For PCB and plug-in sockets
- AC and DC coils, insulation class F: 155 °C
- Available special versions: in transparent cover ①; with the increased dielectric strength of the contact clearance ② • Compliance with standards EN 60335-1, EN 45545-2 • Recognitions, certifications, directives: RoHS,     

### Contact data

|                                |                           |  |
|--------------------------------|---------------------------|--|
| Number and type of contacts    |                           | 1 CO, 1 NO ②   |
| Contact material               |                           | <b>AgNi</b> , AgNi/Au hard gold plating, AgSnO <sub>2</sub>          |
| Rated / max. switching voltage | AC                        | 250 V / 400 V  |
| Min. switching voltage         |                           | 5 V AgNi, 5 V AgNi/Au hard gold plating, 10 V AgSnO <sub>2</sub>     |
| Rated load (capacity)          | AC1                       | 16 A / 250 V AC  |
|                                | AC15                      | 3 A / 120 V                      1,5 A / 240 V (B300)                |
|                                | DC1                       | 16 A / 24 V DC (see Fig. 3)  |
|                                | DC13                      | 0,22 A / 120 V                      0,1 A / 250 V (R300)             |
| Motor load                     | acc. to UL 508            | 1/2 HP                      240 V AC, 4,9 FLA, single-phase motor ③  |
|                                | AC3 acc. to IEC 60947-4-1 | 0,5 kW                      240 V AC, single-phase motor             |
| Min. switching current         |                           | 5 mA AgNi, 2 mA AgNi/Au hard gold plating, 10 mA AgSnO <sub>2</sub>  |
| Max. inrush current            |                           | 30 A AgSnO <sub>2</sub>  |
| Rated current                  |                           | 16 A   |
| Max. breaking capacity         | AC1                       | 4 000 VA   |
| Min. breaking capacity         |                           | 0,3 W AgNi, 0,05 W AgNi/Au hard gold plating, 1 W AgSnO <sub>2</sub> |
| Contact resistance             |                           | ≤ 100 mΩ   |
| Max. operating frequency       | • at rated load AC1       | 600 cycles/hour  |
|                                | • no load                 | 72 000 cycles/hour   |

### Coil data

|                                   |             |  |
|-----------------------------------|-------------|--|
| Rated voltage                     | 50/60 Hz AC | 12, <b>24</b> , 48, 60, 110, 115, 120, 220, <b>230</b> , 240 V |
|                                   | DC          | 3, 5, 6, 9, <b>12</b> , 18, <b>24</b> , 36, 48, 60, 110 V      |
| Must release voltage              |             | AC: ≥ 0,15 U <sub>n</sub> DC: ≥ 0,1 U <sub>n</sub>             |
| Operating range of supply voltage |             | see Tables 1, 2 and Fig. 4, 5                                  |
| Rated power consumption           | AC          | 0,75 VA  |
|                                   | DC          | 0,4 ... 0,48 W   |

### Insulation according to EN 60664-1

|                             |                             |   |
|-----------------------------|-----------------------------|---|
| Insulation rated voltage    |                             | 400 V AC  |
| Rated surge voltage         |                             | 4 000 V    1,2 / 50 μs  |
| Overvoltage category        |                             | III   |
| Insulation pollution degree |                             | 3   |
| Flammability class          |                             | V-0                      for standard cover (no transparent), UL 94                   |
| Dielectric strength         | • between coil and contacts | 5 000 V AC                      type of insulation: reinforced                        |
|                             | • contact clearance         | 1 000 V AC                      type of clearance: micro-disconnection                |
|                             |                             | 2 000 V AC                      contact 1 NO, type of clearance: full-disconnection ② |
| Contact - coil distance     |                             | clearance: ≥ 10 mm                      creepage: ≥ 10 mm                             |

### General data

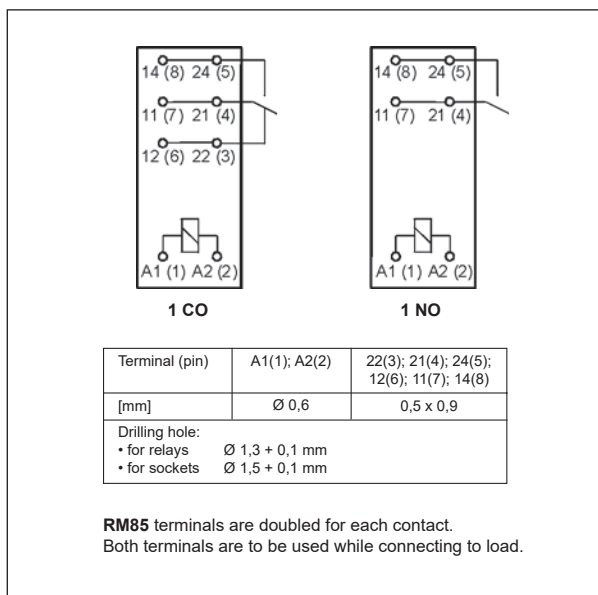
|   |   |  |  |
|---|---|--|--|
| Operating / release time (typical values) |   | 7 ms / 3 ms  |  |
| Electrical life (number of cycles)        | • resistive AC1                             | > 0,7 x 10 <sup>5</sup> 16 A, 250 V AC                                   |  |
|   | • motor load acc. to UL 508                 | > 10 <sup>4</sup>  | 20 A, 250 V AC, 85 °C (RM85-3021-25-1...)          |
|   |   | 10 <sup>5</sup>  | 5 FLA / 7 LRA, 240 V AC, 65 °C (RM85-3021-5-1...)  |
|   |   | 10 <sup>5</sup>  | 5 FLA / 12 LRA, 24 V DC, 65 °C (RM85-3021-5-1...)  |
|   |   | 3 x 10 <sup>4</sup>  | 5 FLA / 30 LRA, 240 V AC, 70 °C (RM85-2021-5-1...) |
| • cosφ                                    |   | see Fig. 2   |  |
| • DC L/R=40 ms                            |   | > 10 <sup>5</sup> 0,15 A, 220 V DC                                       |  |
| Mechanical life (cycles)                  |   | > 3 x 10 <sup>7</sup>  |  |
| Dimensions (L x W x H) / Weight           |   | 29 x 12,7 x 15,7 mm / 14 g   |  |
| Ambient temperature                       | • storage                                   | -40...+85 °C   |  |
|   | (non-condensation and/or icing) • operating | AC: -40...+70 °C                      DC: -40...+85 °C    -20...+70 °C ① |  |
| Cover protection category                 |   | IP 40 ① or IP 67                      EN 60529                           |  |
| Environmental protection                  |   | RTII ① or RTIII                      EN 61810-7                          |  |
| Shock / vibration resistance              |   | 30 g / 10 g    10...150 Hz   |  |
| Solder bath temperature / Soldering time  |   | max. 270 °C / max. 5 s   |  |

The data in bold type relate to the standard versions of the relays. ① Special versions - relays in transparent cover (certifications cULus, EAC), only available with IP 40 and RTII, operating temperature -20...+70 °C. See "Ordering codes". ② Special versions - relays with one normally open contact 1 NO, with increased contact gap - dielectric strength 2000 V AC, only available with DC coils. See "Ordering codes". ③ For single phase motors for 110-120 V AC do not use motors with higher FLA than given for 240 V AC.

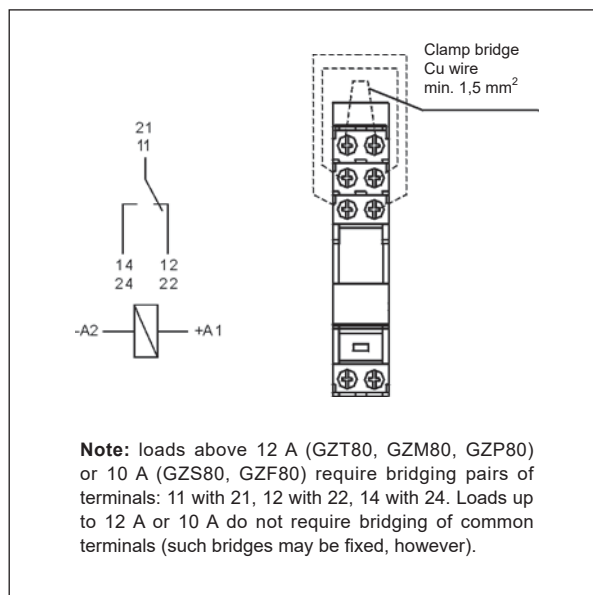
# RM85

## miniature relays

### Connection diagrams (pin side view)



### Connection of GZ.80 sockets



### Mounting, sockets and accessories for relays

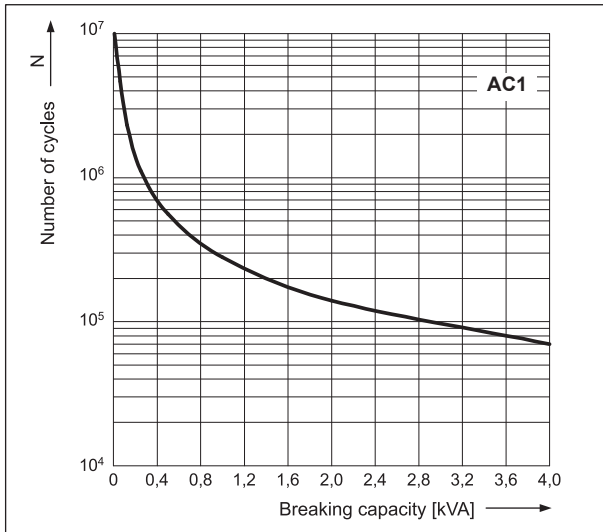
Relays **RM85** are designed for: • direct PCB mounting • plug-in sockets.

| Sockets for RM85   | Accessories                |                              |                    | Additional equipment                    |
|--|----------------------------|------------------------------|--------------------|---|
|  | Retainer / retractor clips | Spring wire clips            | Description plates |   |
| <b>Screw terminals sockets</b> , 35 mm rail mount (acc. to EN 60715) or on panel mounting (one M3 screw)   |                            |                              |                    |   |
| GZT80 ⑤  | GZT80-0040                 | GZM80-0041                   | GZT80-0035         | M... ⑦, ZGGZ80 ⑧                        |
| GZM80 ⑤  | GZT80-0040                 | GZM80-0041                   | GZT80-0035         | M... ⑦, ZGGZ80 ⑧                        |
| GZS80 ⑤  | GZS-0040                   | GZM80-0041                   | TR                 | M... ⑦, ZGGZ80 ⑧                        |
| GZF80 ⑤  | –                          | GZM80-0041                   | –                  | –                                       |
| <b>Push-in terminals sockets</b> , 35 mm rail mount (acc. to EN 60715) or on panel mounting (one M3 screw) |                            |                              |                    |   |
| GZP80 ⑤ ⑥  | GZP80-0400,<br>GZT80-0040  | GZM80-0041                   | MP15               | M... ⑦, ZGZP80-8,<br>ZGZP80-2, ZGZP-2 ⑨ |
| <b>Sockets for PCB</b>   |                            |                              |                    |   |
| PW80   | –                          | MH16-2                       | –                  | –                                       |
| EC 50  | –                          | MP16-2 ⑩, MH16-2             | –                  | –                                       |
| GD50   | –                          | MP16-2 ⑩,<br>MH16-2, GD-0016 | –                  | –                                       |

④ For relays in transparent cover: the distance at least 5 mm between the relays mounted side by side.    ⑤ Sockets GZ.80: load connection - see page 2.    ⑥ Sockets GZP80: wire connection - see page 7.    ⑦ Signalling / protecting modules type M... - see page 10.    ⑧ Interconnection strips ZGGZ80, ZGZP.. - see page 11-12.    ⑩ Plastic clips MP16-2.

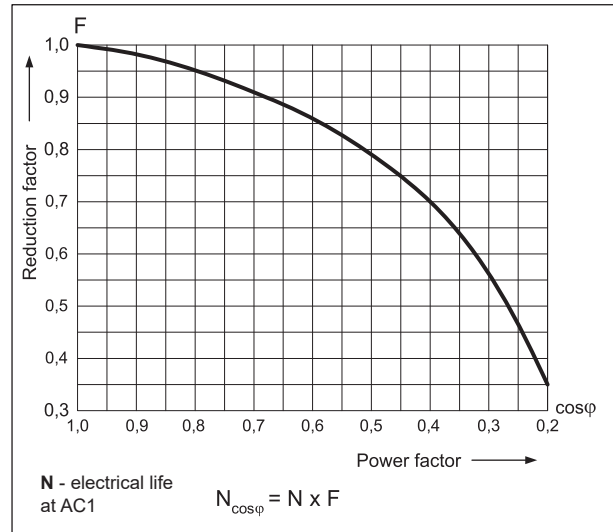
**Electrical life at AC resistive load.**  
Switching frequency: 600 cycles/hour

Fig. 1



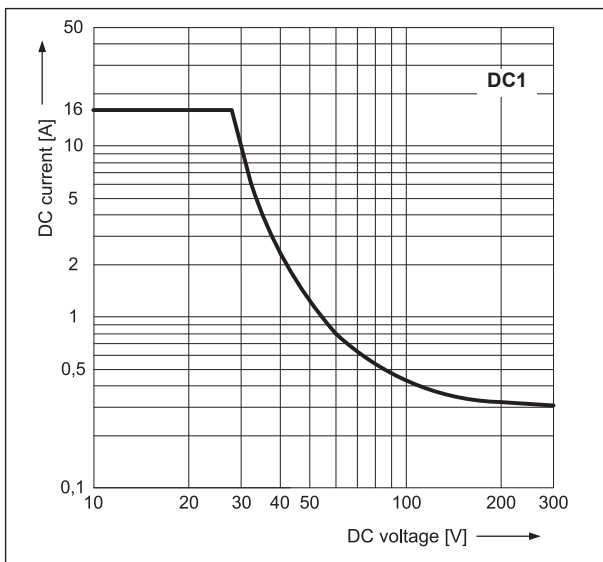
**Electrical life reduction factor at AC inductive load**

Fig. 2



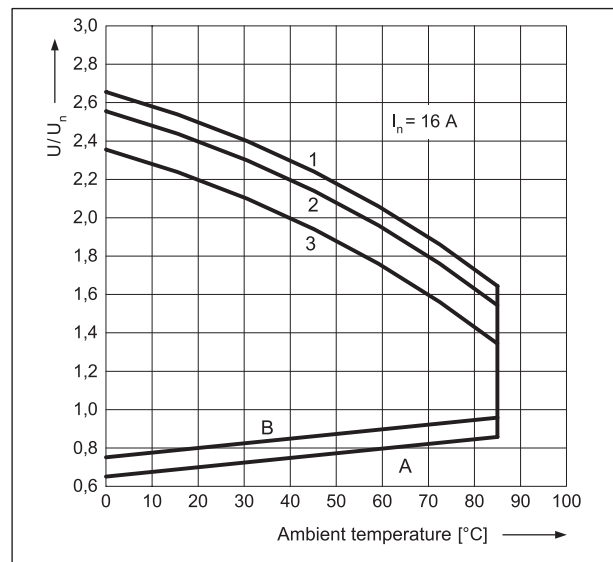
**Max. DC resistive load breaking capacity**

Fig. 3



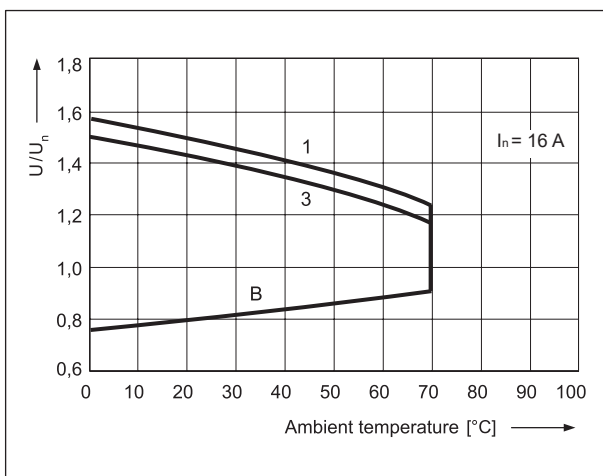
**Coil operating range - DC**

Fig. 4



**Coil operating range - AC 50 Hz**

Fig. 5



**Description of Fig. 4 and 5**

**A** - relations between make voltage and ambient temperature at no load on contacts. Coil temperature and ambient temperature are equal before coil energizing. Make voltage is not higher than the value read on Y axis (multiplication of rated voltage).

**B** - relations between make voltage and ambient temperature after initial coil heating up with  $1,1 U_n$ , at continues load of  $I_n$  on contacts. Make voltage is not higher than the value read on Y axis (multiplication of rated voltage).

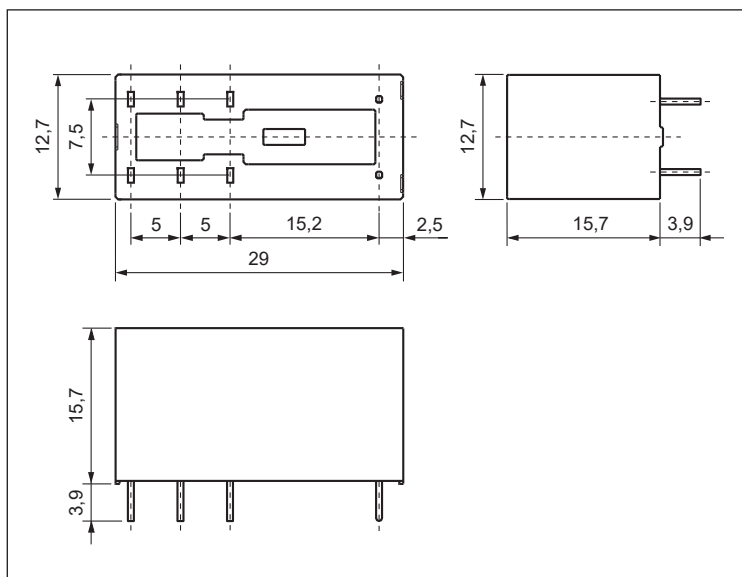
**1, 2, 3** - values on Y axis represent allowed overvoltage on coil at certain ambient temperature and contact load:

- 1** - no load
- 2** - 50% of rated load
- 3** - rated load

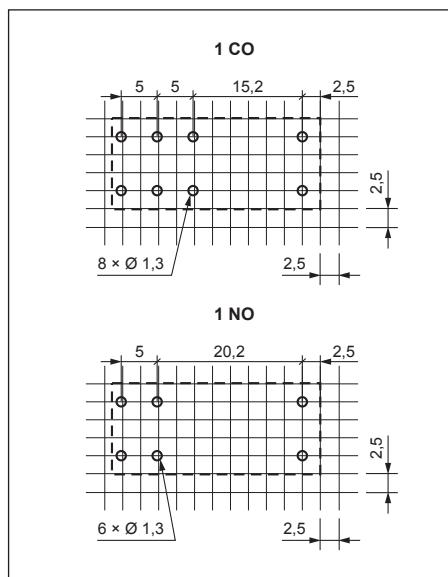
# RM85

## miniature relays

### Dimensions



### Pinout (solder side view)



### Coil data - DC voltage version

Table 1

| Coil code   | Rated voltage<br>V DC | Coil resistance<br>at 20 °C<br>Ω | Acceptable<br>resistance | Coil operating range<br>V DC |                 |
|-------------|-----------------------|----------------------------------|--------------------------|------------------------------|-----------------|
|             |                       |                                  |                          | min. (at 20 °C)              | max. (at 20 °C) |
| 1003        | 3                     | 22                               | ± 10%                    | 2,1                          | 7,6             |
| 1005        | 5                     | 60                               | ± 10%                    | 3,5                          | 12,7            |
| 1006        | 6                     | 90                               | ± 10%                    | 4,2                          | 15,3            |
| 1009        | 9                     | 200                              | ± 10%                    | 6,3                          | 22,9            |
| <b>1012</b> | <b>12</b>             | <b>360</b>                       | <b>± 10%</b>             | <b>8,4</b>                   | <b>30,6</b>     |
| 1018        | 18                    | 710                              | ± 10%                    | 12,6                         | 45,9            |
| <b>1024</b> | <b>24</b>             | <b>1 440</b>                     | <b>± 10%</b>             | <b>16,8</b>                  | <b>61,2</b>     |
| 1036        | 36                    | 3 140                            | ± 10%                    | 25,2                         | 91,8            |
| 1048        | 48                    | 5 700                            | ± 10%                    | 33,6                         | 122,4           |
| 1060        | 60                    | 7 500                            | ± 10%                    | 42,0                         | 153,0           |
| 1110        | 110                   | 25 200                           | ± 10%                    | 77,0                         | 280,0           |

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

### Coil data - AC 50/60 Hz voltage version

Table 2

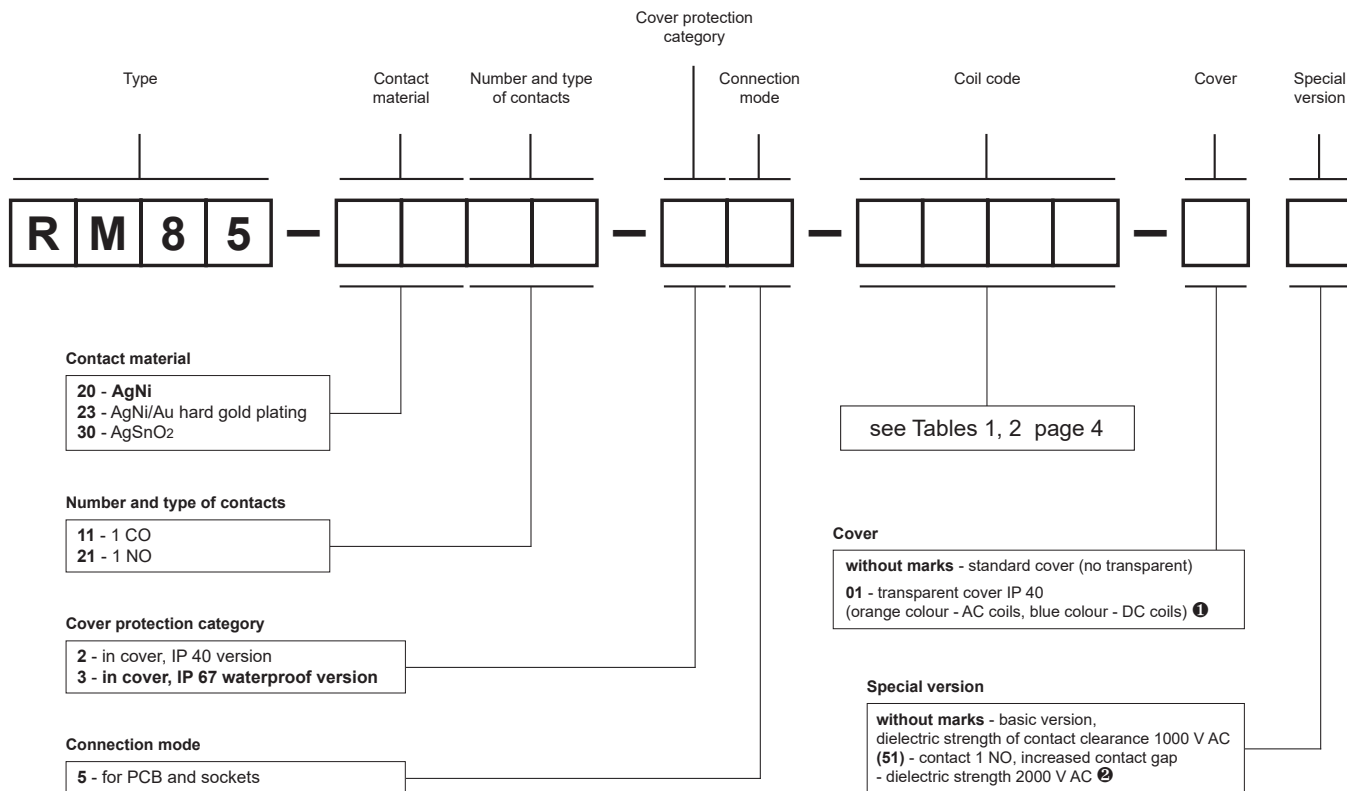
| Coil code   | Rated voltage<br>V AC | Coil resistance<br>at 20 °C<br>Ω | Acceptable<br>resistance | Coil operating range<br>V AC 50 Hz |                 |
|-------------|-----------------------|----------------------------------|--------------------------|------------------------------------|-----------------|
|             |                       |                                  |                          | min. (at 20 °C)                    | max. (at 20 °C) |
| 5012        | 12                    | 100                              | ± 10%                    | 9,6                                | 13,2            |
| <b>5024</b> | <b>24</b>             | <b>400</b>                       | <b>± 10%</b>             | <b>19,2</b>                        | <b>28,8</b>     |
| 5048        | 48                    | 1 550                            | ± 10%                    | 38,4                               | 57,6            |
| 5060        | 60                    | 2 600                            | ± 10%                    | 48,0                               | 72,0            |
| 5110        | 110                   | 8 900                            | ± 10%                    | 88,0                               | 132,0           |
| 5115        | 115                   | 9 600                            | ± 10%                    | 92,0                               | 138,0           |
| 5120        | 120                   | 10 200                           | ± 10%                    | 96,0                               | 144,0           |
| 5220        | 220                   | 35 500                           | ± 10%                    | 176,0                              | 264,0           |
| <b>5230</b> | <b>230</b>            | <b>38 500</b>                    | <b>± 10%</b>             | <b>184,0</b>                       | <b>276,0</b>    |
| 5240        | 240                   | 42 500                           | ± 15%                    | 192,0                              | 288,0           |

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

# RM85

## miniature relays

### Ordering codes



① 01: special version - relay in transparent cover (certifications cULus, EAC), only available with IP 40 and RTII, operating temperature -20...+70 °C  
 ② (51): special version - relay with one normally open contact 1 NO, with increased contact gap - dielectric strength 2000 V AC, only available with DC coil

Examples of ordering code:

**RM85-3011-25-5024**

relay **RM85**, for PCB and sockets, one changeover contact, contact material AgSnO<sub>2</sub>, coil voltage 24 V AC 50/60 Hz, in standard cover (no transparent) IP 40

**RM85-2011-25-1012-01**

relay **RM85**, for PCB and sockets, one changeover contact, contact material AgNi, coil voltage 12 V DC, in transparent cover (blue colour) IP 40

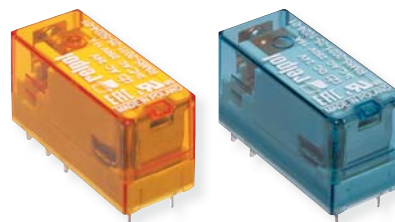
**RM85-2321-35-1024 (51)**

relay **RM85**, special version with increased contact gap, for PCB and sockets, one normally open contact, contact material AgNi/Au hard gold plating, coil voltage 24 V DC, in standard cover (no transparent) IP 67

### RM85

Transparent cover IP 40,  
certifications cULus, EAC  
(orange colour - AC coils,  
blue colour - DC coils)

NEW



# Sockets and accessories

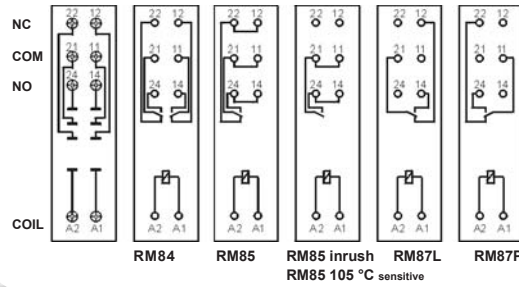
## GZT80

For RM84, RM85, RM85 inrush, RM85 105 °C sensitive, RM87L, RM87L sensitive, RM87P, RM87P sensitive

Screw terminals  
Max. tightening moment for the terminal: 0,7 Nm  
35 mm rail mount acc. to EN 60715 or on panel mounting  
80 x 15,6 x 61(67) mm  
Two poles, 5 mm pinout  
12 A, 300 V AC

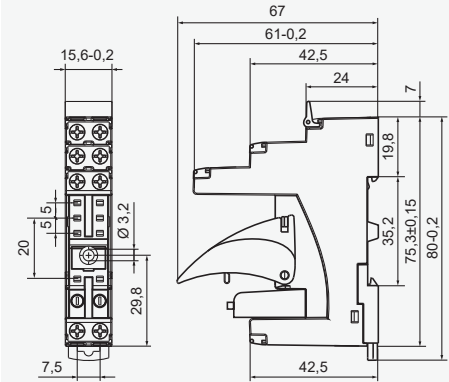


### Connection diagrams ④



Accessories ① ZGGZ80 GZM80-0041

### Dimensions



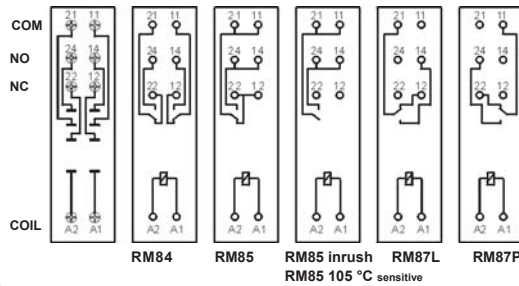
## GZM80

For RM84, RM85, RM85 inrush, RM85 105 °C sensitive, RM87L, RM87L sensitive, RM87P, RM87P sensitive

Screw terminals  
Max. tightening moment for the terminal: 0,7 Nm  
35 mm rail mount acc. to EN 60715 or on panel mounting  
81,6 x 15,9 x 61(67) mm  
Two poles, 5 mm pinout  
12 A, 300 V AC

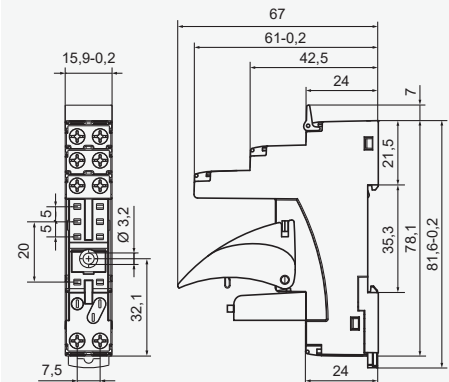


### Connection diagrams ④



Accessories ① ZGGZ80 GZM80-0041

### Dimensions



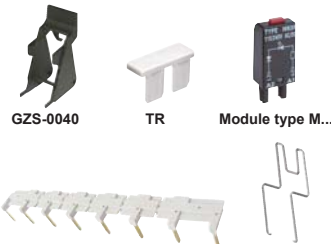
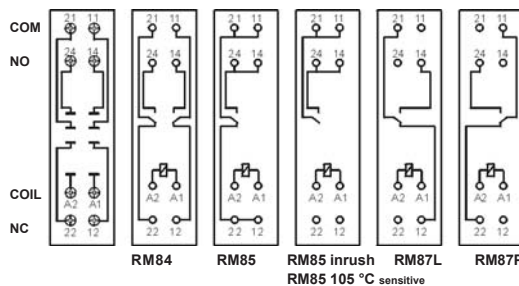
## GZS80

For RM84, RM85, RM85 inrush, RM85 105 °C sensitive, RM87L, RM87L sensitive, RM87P, RM87P sensitive

Screw terminals  
Max. tightening moment for the terminal: 0,5 Nm  
35 mm rail mount acc. to EN 60715 or on panel mounting  
76,8 x 15,8 x 42,5(57,1) mm  
Two poles, 5 mm pinout  
10 A, 300 V AC

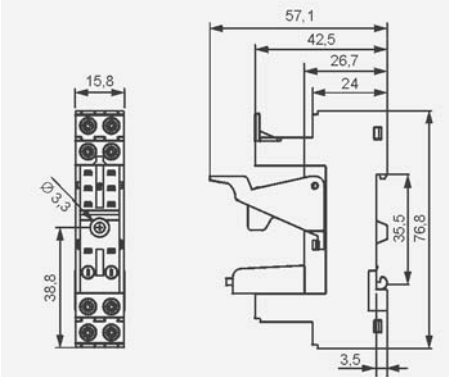


### Connection diagrams ④



Accessories ① ZGGZ80 GZM80-0041

### Dimensions



① Mounting and sub-assemblies of accessories in the socket - see page 8. Signalling / protecting modules type M... - see page 10. ② In the bracket the height of socket with retainer / retractor clip is shown. ④ For RM85..., RMP85: loads above 12 A (GZT80, GZM80, GZP80) or 10 A (GZS80, GZF80) require bridging pairs of terminals: 11 with 21, 12 with 22, 14 with 24 - see www.repol.com.pl

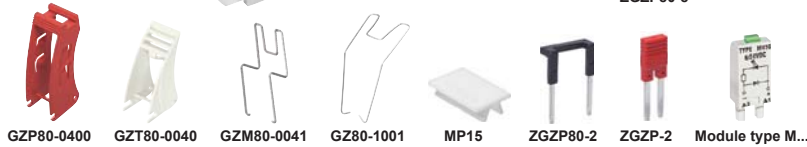
# Sockets and accessories

## GZP80

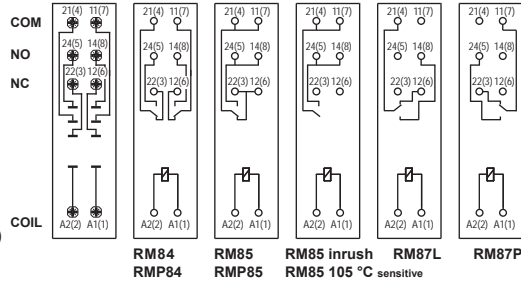
For RM84, RM85,  
RM85 inrush,  
RM85 105 °C sensitive,  
RM87L, RM87L sensitive,  
RM87P, RM87P sensitive,  
RMP84, RMP85

Push-in terminals  
Max. cross section of the cables:  
2 x 1,5 mm<sup>2</sup> (ferrules without  
insulation)  
2 x 1 mm<sup>2</sup> (ferrules with insulation)  
Stripping length: 8...10 mm

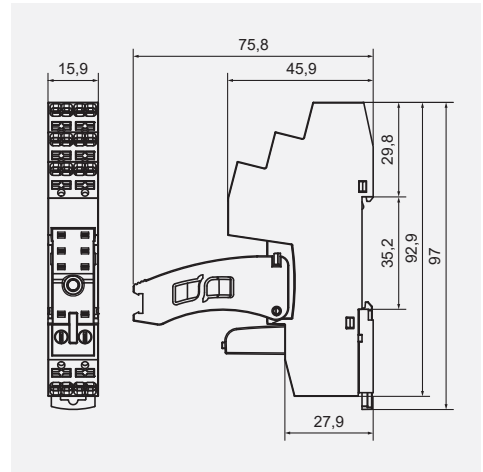
35 mm rail mount  
acc. to EN 60715  
or on panel mounting  
97 x 15,9 x 45,9(75,8) mm  
5 mm pinout  
One pole  
12 A, 300 V AC  
Two poles  
8 A, 300 V AC



### Connection diagrams



### Dimensions



The drawings present inserting wire into the Push-in terminal and removing wire using the button releasing a clamp (assembly without tools).

### Accessories

### Wire connection

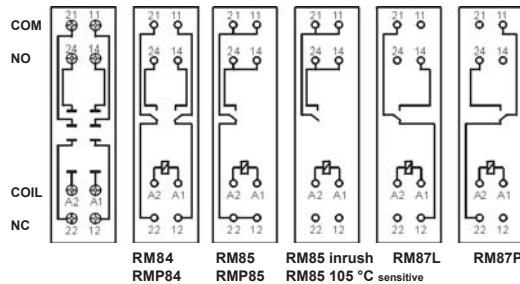
## GZF80

For RM84, RM85,  
RM85 inrush,  
RM85 105 °C sensitive,  
RM87L, RM87L sensitive,  
RM87P, RM87P sensitive,  
RMP84, RMP85

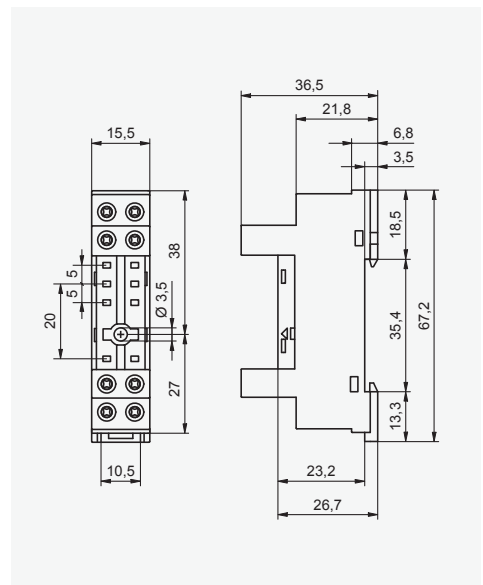
Screw terminals  
Max. tightening moment  
for the terminal: 0,5 Nm  
35 mm rail mount  
acc. to EN 60715  
or on panel mounting  
67,2 x 15,5 x 36,5 mm  
Two poles, 5 mm pinout  
10 A, 250 V AC



### Connection diagrams



### Dimensions

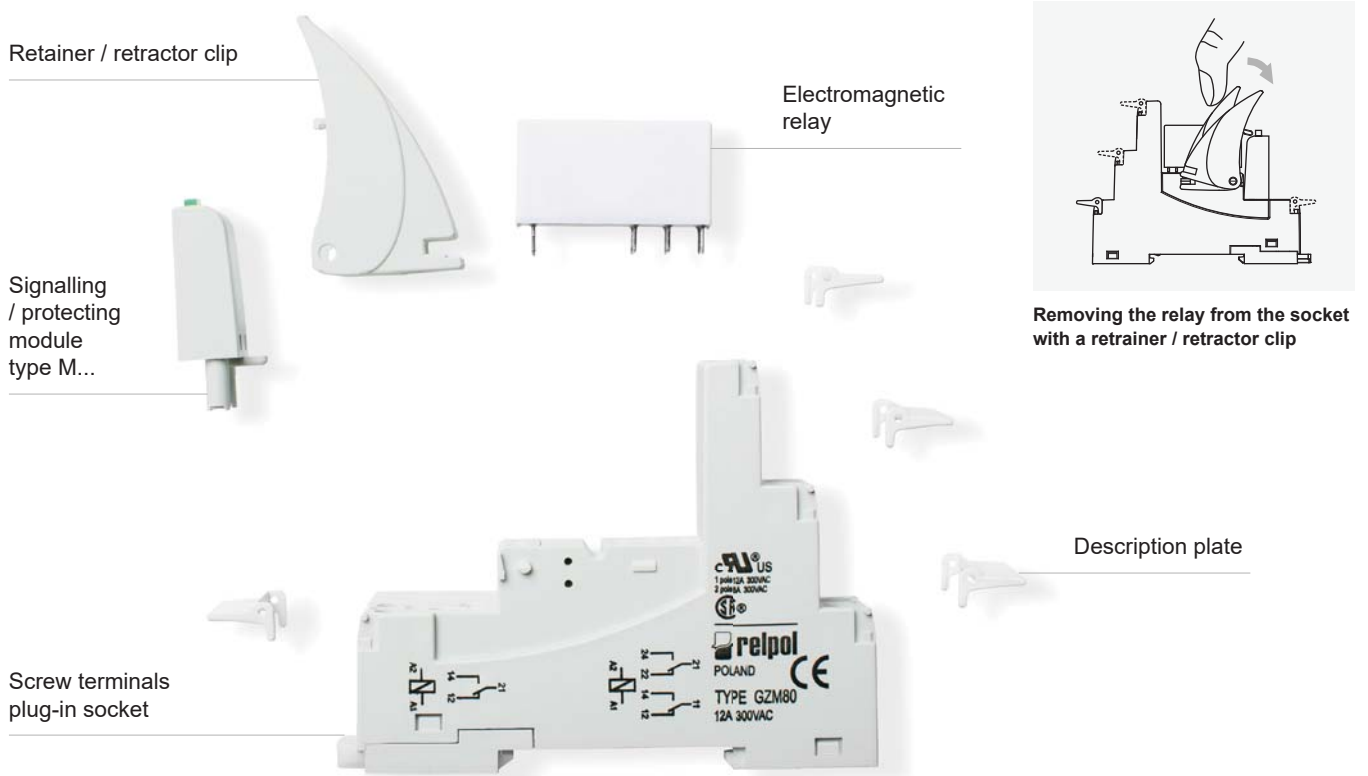


### Accessories



① Mounting and sub-assemblies of accessories in the socket - see page 8. Signalling / protecting modules type M... - see page 10. ② In the bracket the height of socket with retainer / retractor clip is shown. ③ For RM85..., RMP85: loads above 12 A (GZT80, GZM80, GZP80) or 10 A (GZS80, GZF80) require bridging pairs of terminals: 11 with 21, 12 with 22, 14 with 24 - see [www.repol.com.pl](http://www.repol.com.pl)

### Mounting and sub-assemblies of the relay and accessories in the socket



#### 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.



# Sockets and accessories

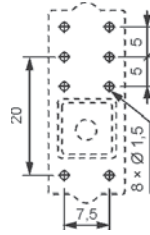
## PW80

For RM84, RM85, RM85 inrush,  
RM85 105 °C sensitive,  
RM87L, RM87L sensitive,  
RM87P, RM87P sensitive,  
RM83

For PCB  
34,6 x 12,9 x 6,6 mm  
Two poles, 5 mm pinout  
12 A, 250 V AC



### Pinout

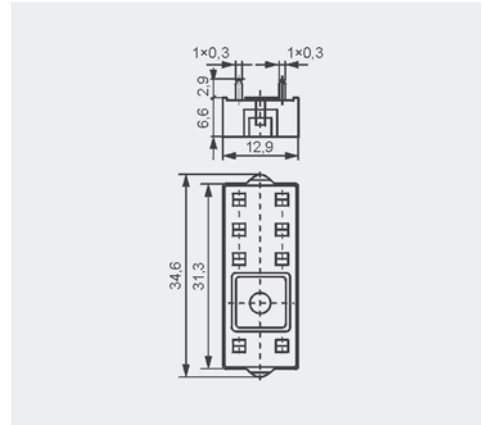


### Accessories



### Dimensions

ERC



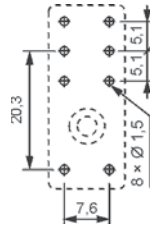
## EC 50

For RM84, RM85, RM85 inrush,  
RM85 105 °C sensitive,  
RM87L, RM87L sensitive,  
RM87P, RM87P sensitive,  
RM83, RMP84, RMP85

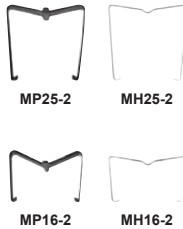
For PCB  
31,3 x 12,7 x 9 mm  
Two poles, 5 mm pinout  
12 A, 250 V AC



### Pinout

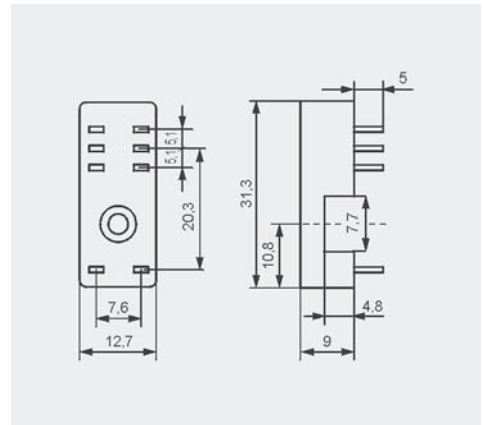


### Accessories



### Dimensions

ERC



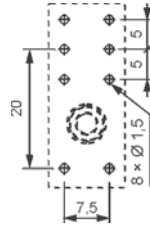
## GD50

For RM84, RM85, RM85 inrush,  
RM85 105 °C sensitive,  
RM87L, RM87L sensitive,  
RM87P, RM87P sensitive,  
RM83, RMP84, RMP85

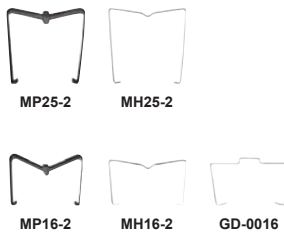
For PCB  
31,5 x 13 x 9 mm  
Two poles, 5 mm pinout  
8 A, 300 V AC



### Pinout

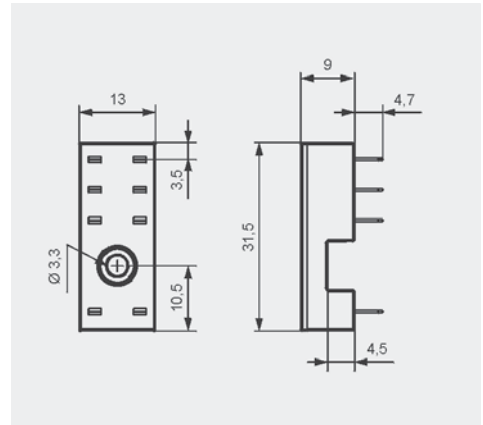


### Accessories



### Dimensions

ERC



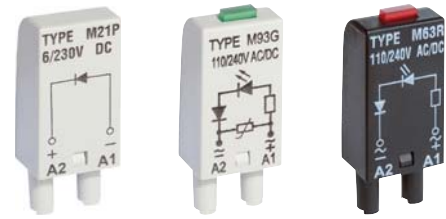
## Signalling / protecting modules type M...

### For sockets type:

GZT80, GZM80, GZS80, GZP80, GZT92, GZM92, GZS92, ES 32, GZT2, GZM2, GZT3, GZM3, GZT4, GZM4, GZP4

Modules type M... are parallelly connected with relay coil.

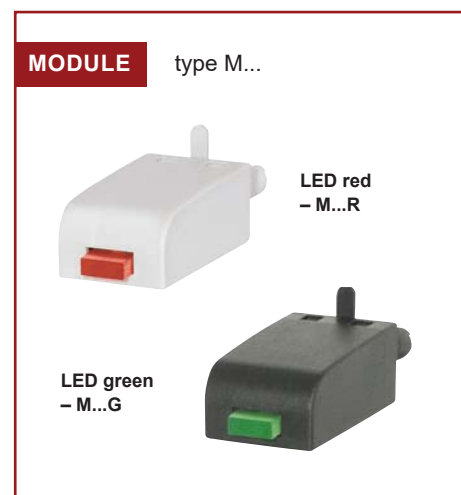
Polarization P: -A1/+A2. Polarization N: +A1/-A2.



| Modules type M...   | Layout | Voltage  | Type of module ① ②                     |
|---|--------|--|--|
| <b>Module D (polarization P)</b><br>It limits overvoltage on DC coils.  |        | 6/230 V DC                                       | M21P                                   |
| <b>Module D (polarization N)</b><br>It limits overvoltage on DC coils.  |        | 6/230 V DC                                       | M21N                                   |
| <b>Module LD (polarization P)</b><br>It limits overvoltage on DC coils.<br>Coil energizing indication.                    |        | 6/24 V DC<br>24/60 V DC<br>110/230 V DC          | M31R, M31G<br>M32R, M32G<br>M33R, M33G |
| <b>Module LD (polarization N)</b><br>It limits overvoltage on DC coils.<br>Coil energizing indication.                    |        | 6/24 V DC<br>24/60 V DC<br>110/230 V DC          | M41R, M41G<br>M42R, M42G<br>M43R, M43G |
| <b>Module RC</b><br>It protects against EMC disturbance.<br>It limits overvoltage.  |        | 6/24 V AC/DC<br>24/60 V AC/DC<br>110/240 V AC/DC | M51<br>M52<br>M53                      |
| <b>Module L</b><br>Coil energizing indication.  |        | 6/24 V AC/DC<br>24/60 V AC/DC<br>110/240 V AC/DC | M61R, M61G<br>M62R, M62G<br>M63R, M63G |
| <b>Module LV</b><br>It limits overvoltage on AC and DC coils.<br>Coil energizing indication.                              |        | 6/24 V AC/DC<br>24/60 V AC/DC<br>110/240 V AC/DC | M91R, M91G<br>M92R, M92G<br>M93R, M93G |
| <b>Module V</b><br>It limits overvoltage on AC coils.<br>No indication.   |        | 6/24 V AC<br>110/130 V AC<br>220/240 V AC        | M71<br>M72<br>M73                      |
| <b>Module R</b><br>It limits harmful voltage on AC coils induced in long lines which causes unwanted making of the relay. |        | 110/240 V AC                                     | M103                                   |

① M...R - LED red, M...G - LED green

② When ordering modules indicate their color: gray or black.



## Interconnection strips ZGGZ80



PI85-...-MS-...  
(RM85 + GZM80)

ZGGZ80

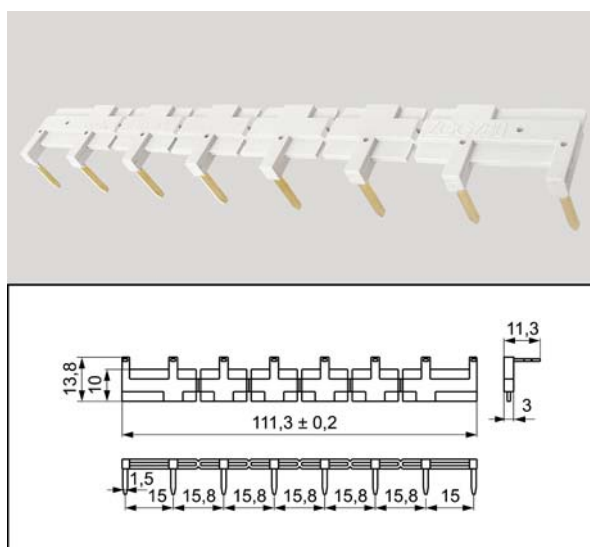
### ZGGZ80 for:

| Plug-in sockets | Relays for plug-in sockets   | Interface relays ③             |
|-----------------|--|--------------------------------|
| GZT80           | RM84, RM85, RM85 inrush,<br>RM85 105 °C sensitive,<br>RM87L ④, RM87P ④,<br>RM87N ④ | PI84-...-TS-... (RM84 + GZT80) |
| GZM80           |  | PI84-...-MS-... (RM84 + GZM80) |
| GZS80           |  | PI85-...-TS-... (RM85 + GZT80) |
| GZT92           |  | (RM85 inrush + GZT80)          |
| GZM92           |  | PI85-...-MS-... (RM85 + GZM80) |
| GZS92           |  |                                |
| ES 32           | RM96 1 CO  |                                |

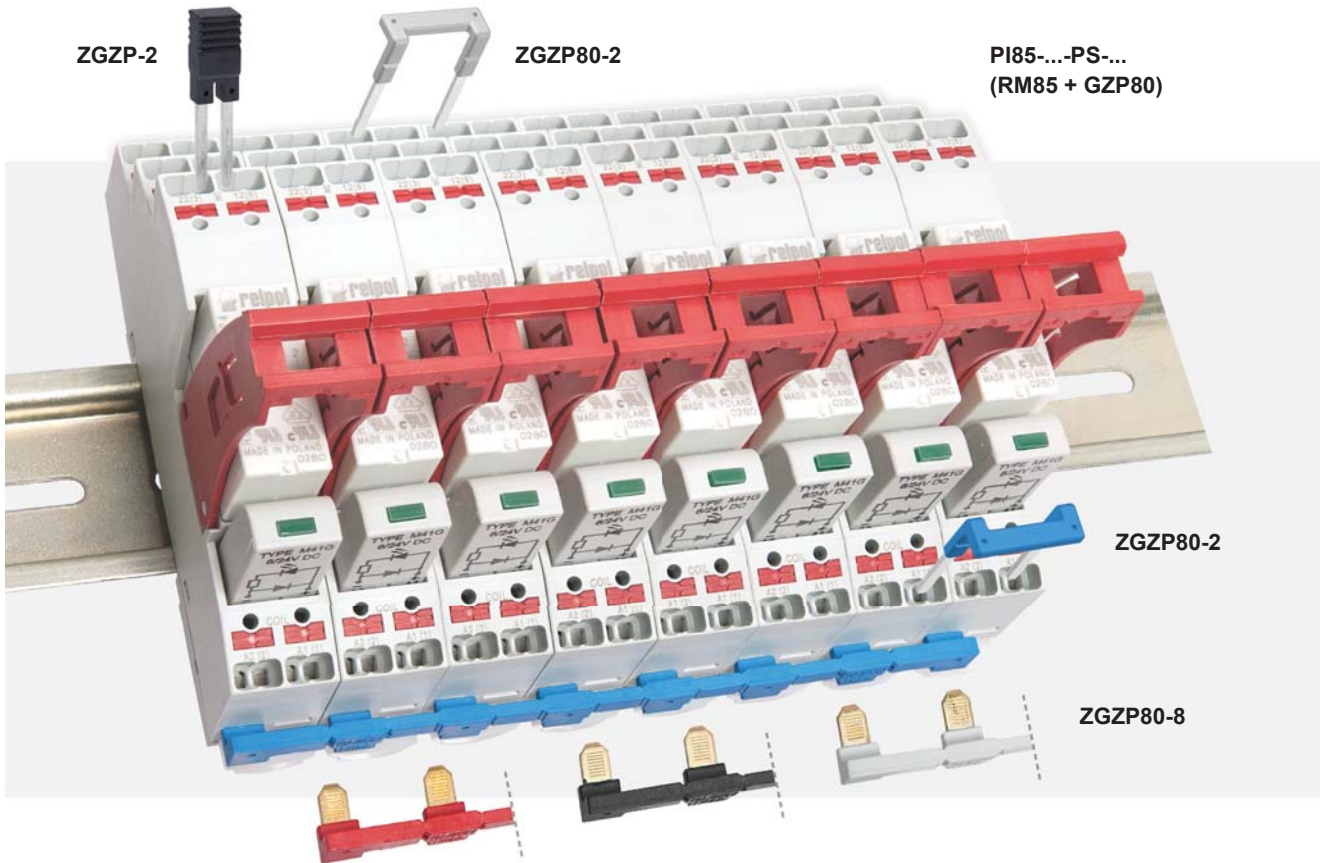
③ Interface relay **PI84 (PI85)** is offered as a **set**: electromagnetic relay **RM84 (RM85)** + plug-in socket **GZT80** or **GZM80** + signalling / protecting module type **M...** + retainer / retractor clip **GZT80-0040** + description plate **GZT80-0035**. ④ Also versions RM87. sensitive

### Interconnection strip ZGGZ80

- designed for the co-operation with plug-in sockets of miniature relays and with interface relays PI84 and PI85, which are equipped with screw terminals; sockets and relays are mounted on 35 mm rail mount acc. to EN 60715,
- bridges common input signals (coil terminals A1 or A2) or output signals - see photo at the top,
- maximum permissible current is 10 A / 250 V AC,
- possibility of connection of 8 sockets or relays,
- colours of strips: **ZGGZ80-1** grey, **ZGGZ80-2** black.



## Interconnection strips ZGZP...



### ■ ZGZP... for:

| Plug-in sockets | Relays for plug-in sockets   | Interface relays ⑤   |
|-----------------|--|--|
| GZP80           | RM84, RM85, RM85 inrush, RM85 105 °C sensitive, RM87L ④, RM87P ④, RMP84, RMP85 | PI84-...-PS-... (RM84 + GZP80)<br>PI85-...-PS-... (RM85 + GZP80)<br>PI84P-...-PS-... (RMP84 + GZP80)<br>PI85P-...-PS-... (RMP85 + GZP80) |

⑤ Interface relay **PI84** (**PI85**, **PI84P**, **PI85P**) is offered as a **set**: electromagnetic relay **RM84** (**RM85**, **RMP84**, **RMP85**) + plug-in socket **GZP80** + signalling / protecting module type **M...** + retainer / retractor clip **GZP80-0400**.  
④ Also versions RM87. sensitive

### ■ Interconnection strips ZGZP...

- designed for the co-operation with plug-in sockets of miniature relays and with interface relays PI84, PI85, PI84P, PI85P, which are equipped with Push-in terminals; sockets and relays are mounted on 35 mm rail mount acc. to EN 60715,
- strip **ZGZP80-8** bridges common input signals (coil terminals A1 or A2), maximum permissible current is 10 A / 250 V AC, possibility of connection of 8 sockets or relays,



ZGZP80-8 GY grey



ZGZP80-8 BK black



ZGZP80-8 RD red



ZGZP80-8 BE blue

- strip **ZGZP80-2** bridges common input signals (coil terminals A1 or A2) or output signals, possibility of connection of 2+n sockets or relays,



ZGZP80-2 GY grey



ZGZP80-2 BK black



ZGZP80-2 RD red



ZGZP80-2 BE blue

- jumper **ZGZP-2** bridges the neighboring poles of single socket **GZP80**.



ZGZP-2 GY grey



ZGZP-2 BK black



ZGZP-2 RD red



ZGZP-2 BE blue