RMP85 (AC)



RMP85 (DC)



- Cadmium - free contacts • Height 25,5 mm
- Reinforced insulation
- For plug-in sockets
- Accessories: sockets and modules
- AC and DC coils
- WT (mechanical indicator + lock able front test button) - standard equipment of relays
- Recognitions, certifications, directives: RoHS, CE

Contact data

Number and type of contacts		1 CO
Contact material		**AgNi**
Rated / max. switching voltage	AC	250 V / 440 V
Min. switching voltage		12 V 10 mA
Rated load	AC1	16 A / 250 V AC
Min. switching current		10 mA 12 V
Max. make current		32 A 20 ms
Rated current		16 A
Max. breaking capacity	AC1	4 000 VA
Min. breaking capacity		0,12 W 10 mA / 12 V
Contact resistance		≤ 100 mΩ 1 A / 6 V DC
Max. operating frequency		
• at rated load	AC1	360 cycles/hour
• no load		18 000 cycles/hour

Coil data

Rated voltage	50 Hz AC	**24**, 115, **230** V
	DC	**12**, **24**, 48, 110 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	0,75 VA ❶
	DC	0,4 ... 0,48 W ❶

Insulation according to EN 60664-1

Insulation rated voltage		440 V AC
Rated surge voltage		4 000 V 1,2 / 50 µs
Overvoltage category		III
Insulation pollution degree		3
Insulation resistance		1 000 MΩ 500 V DC
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
Contact - coil distance		
• clearance		≥ 8 mm
• creepage		≥ 8 mm

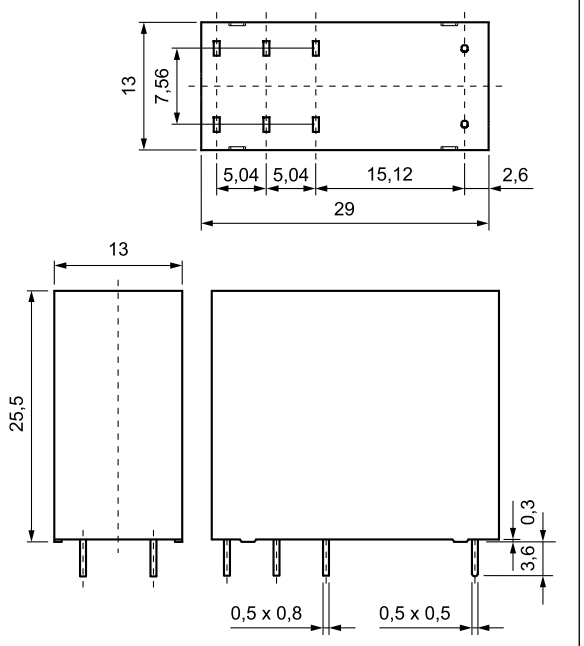
General data

Operating / release time (typical values)		15 ms / 8 ms
Electrical life (number of cycles)	• resistive AC1	> 3 x 10^4 AC coils, 16 A, 250 V AC, ON for 5 s / OFF for 5 s
		> 10^4 DC coils, 16 A, 250 V AC, ON for 5 s / OFF for 5 s
		> 3 x 10^4 16 A, 250 V AC, 70 °C, ON for 1 s / OFF for 9 s
Mechanical life (cycles)		> 10^6 AC coils
		> 5 x 10^6 DC coils
Dimensions (L x W x H)		29 x 13 x 25,5 mm
Weight		16 g
Ambient temperature	• storage	-40...+70 °C
(non-condensation and/or icing)	• operating	-40...+70 °C ❷ ❸
Cover protection category		IP 40 EN 60529
Environmental protection		RTII EN 61810-1
Relative humidity		5...85%
Shock resistance		10 g
Vibration resistance	(NO/NC)	10 g / 5 g length direction: 10 g / 2 g ❸ 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. ❶ The data don't include the power of electronic indicating circuit when the relay picks-up. ❷ Operating temperature for relays mounted in sockets on 35 mm rail mount: -40...+55 °C. ❸ The distance between the relays mounted side by side: min. 5 mm for versions AC; min. 1,5 mm for versions DC.

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Dimensions



Test buttons type T

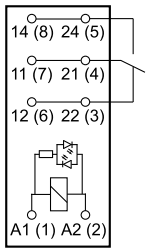


orange
(AC coils)

blue
(DC coils)

Note: normally open contacts may be closed with the blocking function of the test button of the T type (it shall be bent by 90° to vertical position). When the button is drawn back, the normally open contacts are opened.

Connection diagram (pin side view)

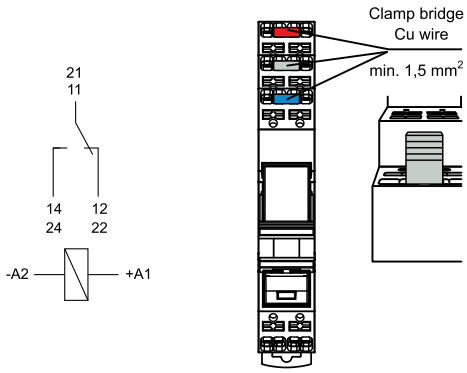


1 CO

Terminal (pin)	A1(1); A2(2)	22(3); 21(4); 24(5); 12(6); 11(7); 14(8)
[mm]	0,5 x 0,5	0,5 x 0,8
Drilling hole: • for sockets Ø 1,5 + 0,1 mm		

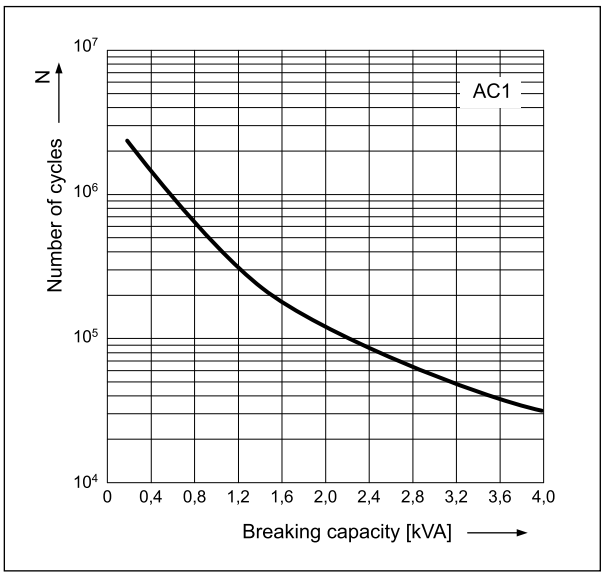
RMP85 terminals are doubled for each contact.
Both terminals are to be used while connecting to load.

Connection of GZ.80 sockets

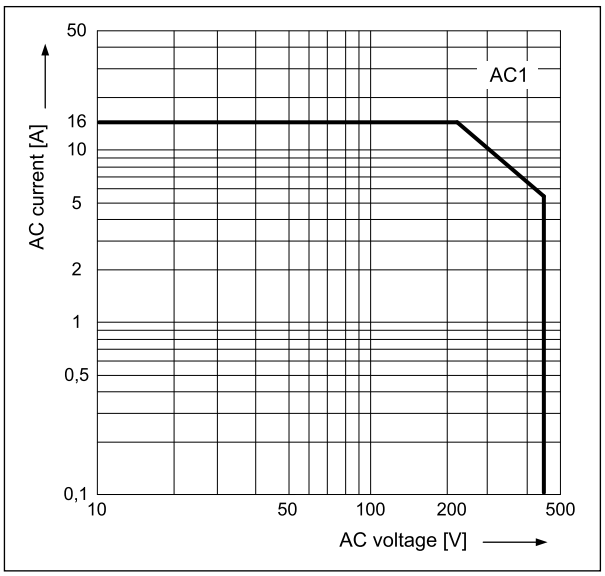


Note: loads above 12 A (GZP80) or 10 A (GZF80) require bridging pairs of spring terminals: 11 with 21, 12 with 22, 14 with 24. Loads up to 10 A do not require bridging of common terminals (such bridges may be fixed, however).

Electrical life at AC resistive load. Switching frequency: 360 cycles/hour Fig. 1



Max. AC 50 Hz resistive load breaking capacity Fig. 2



Mounting, sockets and accessories for relays

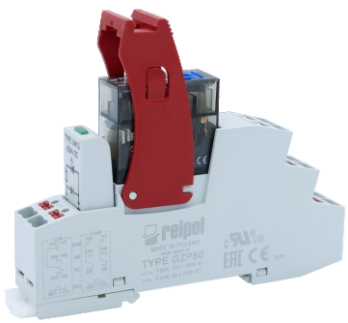
Relays **RMP85** ❸ are designed for mounting in plug-in sockets.

Sockets for RMP85	Accessories			Additional equipment
	Retainer / retractor clips	Spring wire clips	Description plates	
Screw terminals sockets, 35 mm rail mount (acc. to EN 60715) or on panel mounting (one M3 screw)				
GZF80 ❹	–	GZ80-1001	–	–
Push-in terminals sockets, 35 mm rail mount (acc. to EN 60715) or on panel mounting (one M3 screw)				
GZP80 ❹ ❺	GZP80-0442	GZ80-1001	MP15	M... ❻, ZGZP80-8, ZGZP80-2, ZGZP-2 ❼
Sockets for PCB				
EW50	–	MH25-2	–	–
EC 50	–	MH25-2	–	–
GD50	–	MH25-2	–	–

❸ The distance between the relays mounted side by side: min. 5 mm for versions AC; min. 1,5 mm for versions DC. ❹ Sockets GZ.80: load connection - see page 2. ❺ Sockets GZP80: wire connection - see page 5. ❻ Signalling / protecting modules type M... - see page 7 ❼ Interconnection strips ZGZP... - see page 8.

GZP80

Push-in terminals
plug-in sockets
for RM84, RM85...,
RM87L, RM87P,
RMP84, RMP85
- see page 7



28.07.2026

Coil data - DC voltage version

Table 1

Coil code	Rated voltage V DC	Coil resistance at 23 °C Ω	Acceptable resistance	Coil operating range V DC ❽	
				min. (0...+70 °C)	max. (0...+70 °C)
1012	**12**	**360**	**± 10%**	**8,4**	**18,0**
1024	**24**	**1 440**	**± 10%**	**16,8**	**36,0**
1048	48	5 760	± 15%	33,6	72,0
1110	110	25 200	± 15%	77,0	165,0

The data in bold type relate to the standard versions of the relays. ❽ The max. allowable voltage is coil overdrive voltage, it is the instantaneous max. voltage which the relay coil could endure in very short time. Relays with 48 V DC and 110 V DC coils shall be absolutely protected against any possibility of operation at voltages higher than the rated voltage.

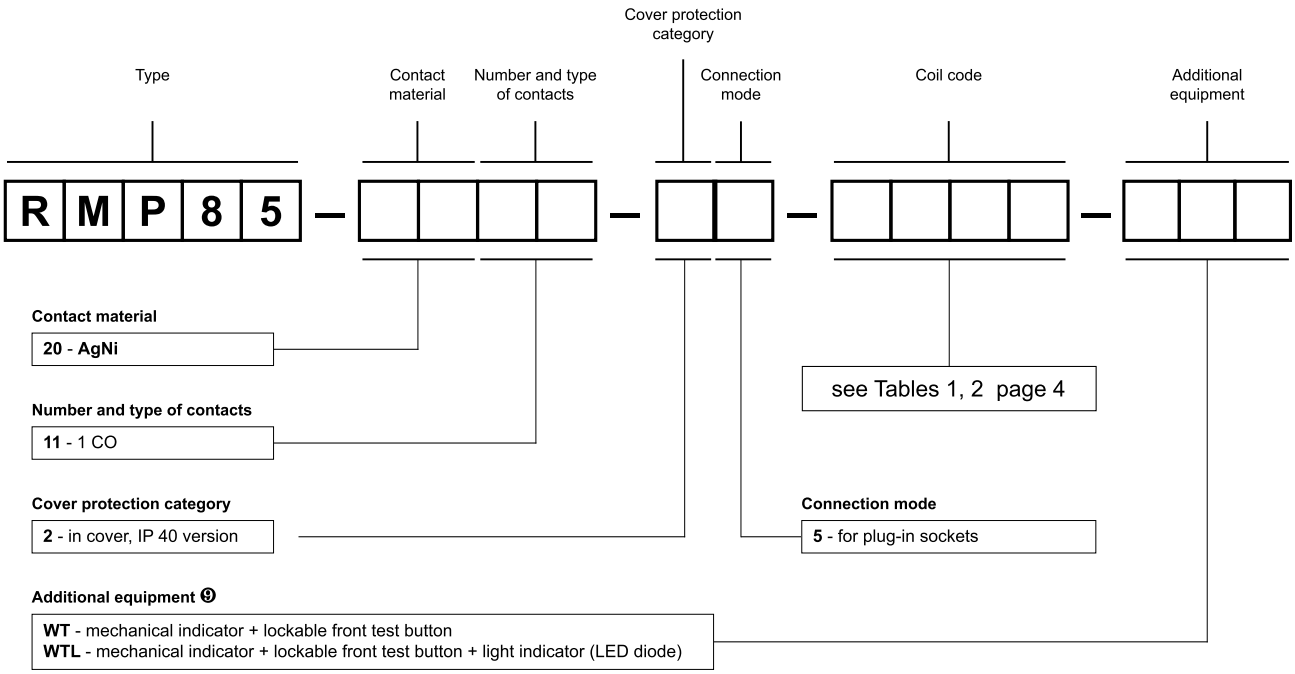
Coil data - AC 50 Hz voltage version

Table 2

Coil code	Rated voltage V AC	Coil resistance at 23 °C Ω	Acceptable resistance	Coil operating range V AC 50 Hz	
				min. (0...+70 °C)	max. (0...+70 °C)
5024	**24**	**350**	**± 10%**	**18,0**	**26,4**
5115	115	8 100	± 15%	86,3	126,5
5230	**230**	**32 500**	**± 15%**	**172,5**	**253,0**

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

Ordering codes



❾ **WT** - standard equipment of relays. Test buttons type T - see page 2.

Examples of ordering code:

RMP85-2011-25-1024-WT relay **RMP85**, for plug-in sockets, one changeover contact, contact material AgNi, coil voltage 24 V DC, with mechanical indicator and lockable front test button, in cover IP 40

RMP85-2011-25-5230-WTL relay **RMP85**, for plug-in sockets, one changeover contact, contact material AgNi, coil voltage 230 V AC 50 Hz, with mechanical indicator and lockable front test button and light indicator (LED diode), in cover IP 40

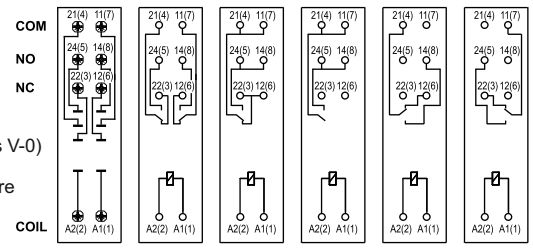
GZP80

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

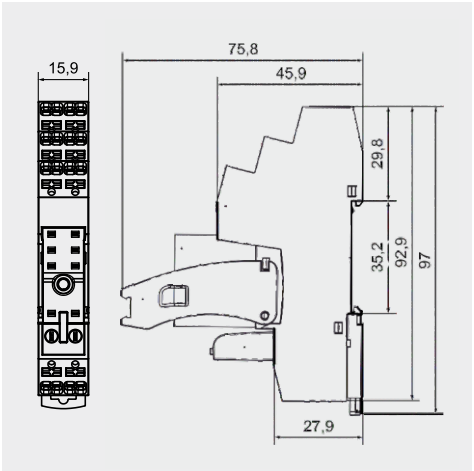
Push-in terminals (flammability class V-0)
Max. cross section of the cables:
2 x 1,5 mm2 (stranded wire, solid wire without ferrule or stranded wire with non-insulated ferrule)
2 x 1 mm2 (solid or stranded wire with insulated ferrule)
Stripping length: 8...10 mm

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

Connection diagrams ❸



Dimensions



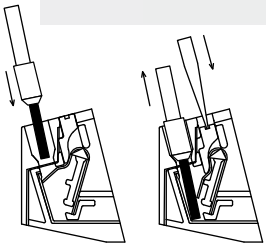




Module type M...



ZGZP80-8



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



Accessories❶

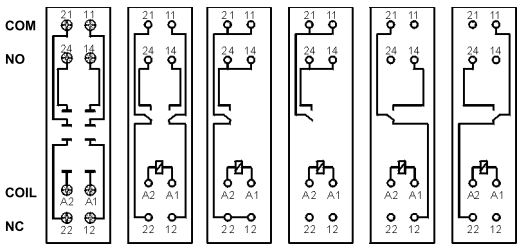
Wire connection

GZF80

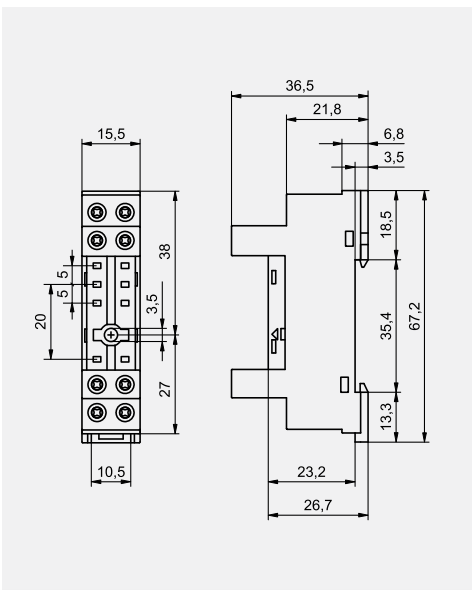
For RM84, RM85,
RM85 inrush,
RM85 105 °C sensitive,
RM87L, RM87L sensitive,
RM87P, RM87P sensitive,
RMP84, RMP85

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 ❸



Dimensions







GZM80-0041
(RM84/85/87)

GZ80-1001
(RMP84/85)

Accessories

❶.Signalling / protecting modules type M... - see page 7 ❷ In the bracket the height of socket with retainer / retractor clip is shown. ❸ 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.relpol.com.pl

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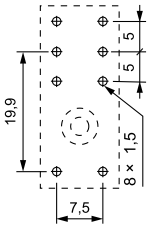
EW50

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

For PCB
30,2 x 13 x 9,4 mm
Two poles, 5 mm pinout
10 A, 250 V AC



Pinout



Accessories

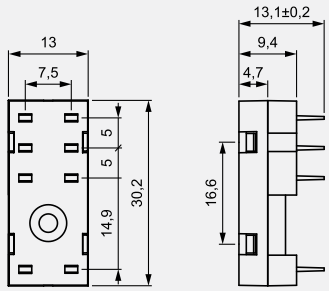

MP16-2
(RM84/85/87)


MH16-2
(RM84/85/87)


MP25-2
(RMP84/85)
(RM83)


MH25-2
(RMP84/85)
(RM83)

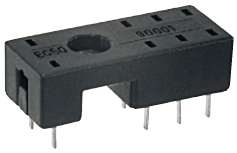
Dimensions



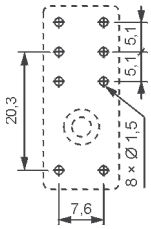
EC 50

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

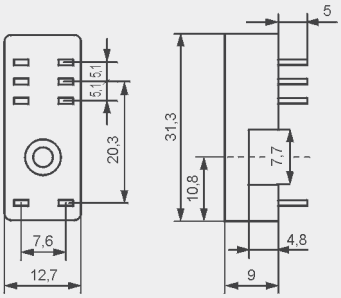

MP16-2
(RM84/85/87)


MH16-2
(RM84/85/87)


MP25-2
(RMP84/85)
(RM83)


MH25-2
(RMP84/85)
(RM83)

Dimensions



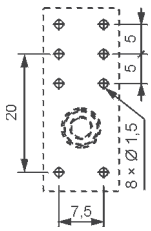
GD50

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


GD-0016
(RM84/85/87)

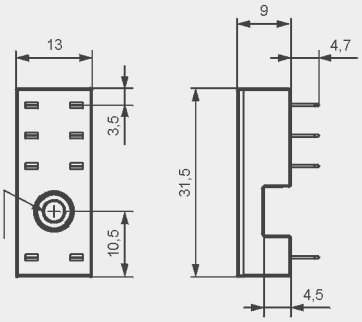

MP16-2
(RM84/85/87)


MH16-2
(RM84/85/87)


MP25-2
(RMP84/85)
(RM83)

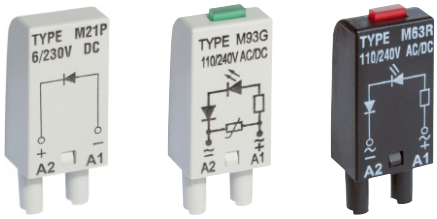

MH25-2
(RMP84/85)
(RM83)

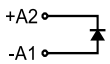
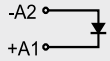
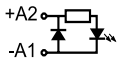
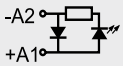
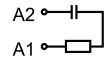
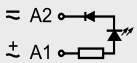
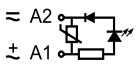
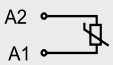
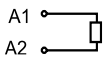
Dimensions



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

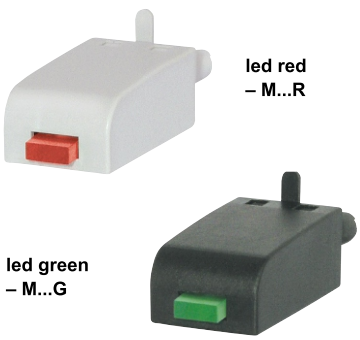
Modules type M... are parallely connected with relay coil.
Polarization P: -A1/+A2. Polarization N: +A1/-A2.



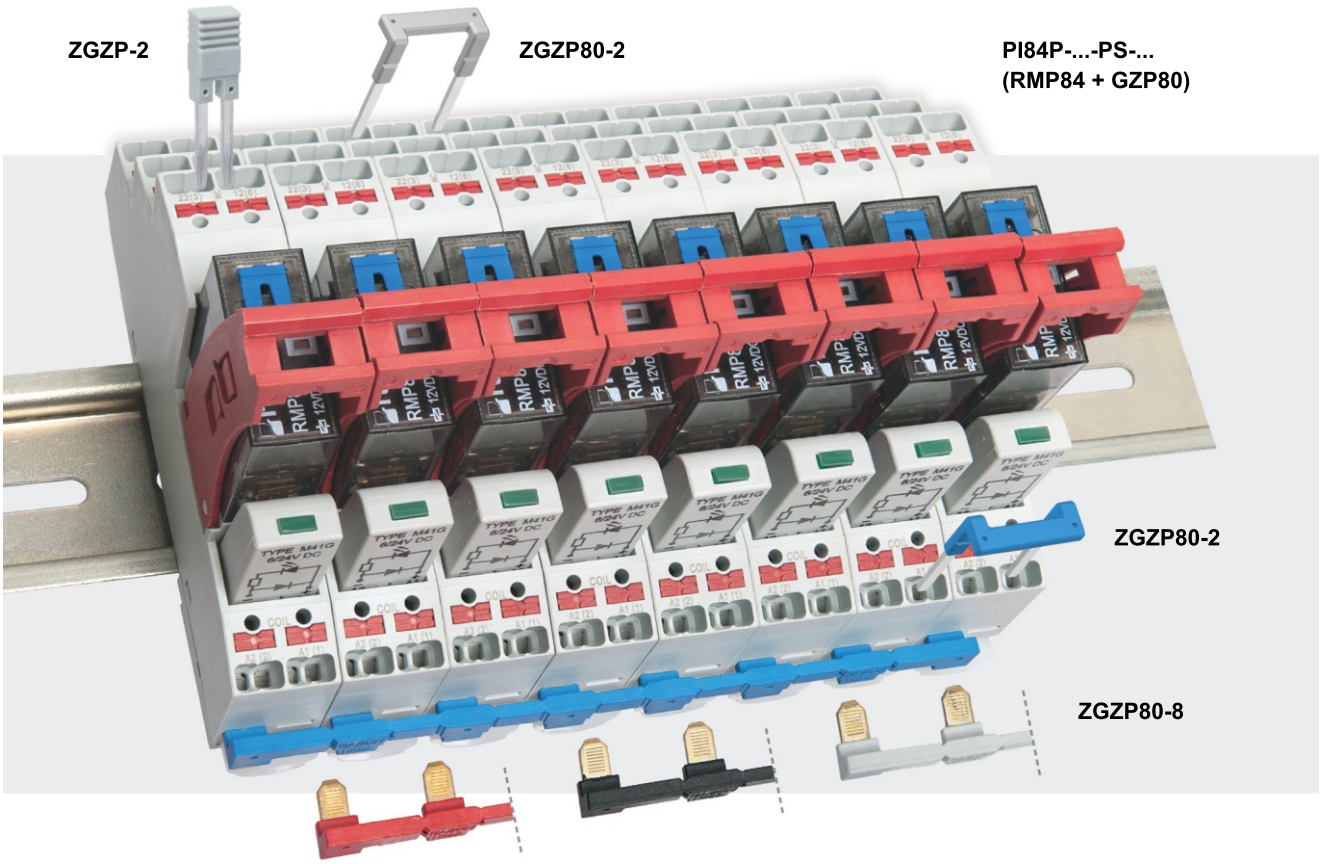
Modules type M...	Layout	Voltage	Type of module ❶ ❷
Module d (polarization P) It limits overvoltage on DC coils.		6/230 V DC	M21P
Module d (polarization N) It limits overvoltage on DC coils.		6/230 V DC	M21N
Module ld (polarization P) It limits overvoltage on DC coils. Coil energizing indication.		6/24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

❶ **M...R** - LED red, **M...G** - LED green
❷ When ordering modules indicate their color: gray or black.

MODULE type M...



28.07.2026



ZGZP... for:

Plug-in sockets	Relays for plug-in sockets	Interface relays ❸	
GZP80	RM84, RM85, RM85 inrush, RM85 105 °C sensitive, RM87L ❹, RM87P ❹, RMP84, RMP85	PI84-...-PS-...	(RM84 + GZP80)
		PI85-...-PS-...	(RM85 + GZP80)
		PI84P-...-PS-...	(RMP84 + GZP80)
		PI85P-...-PS-...	(RMP85 + GZP80)

❸ 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 **GZP80-0442**.
❹ 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** (usage of jumpers ZGZP-2 in interface relays Push-in PI85, PI85P increases load capacity of socket from 12 A TO 16 A).



ZGZP-2 GY grey | **ZGZP-2 BK** black | **ZGZP-2 RD** red | **ZGZP-2 BE** blue

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