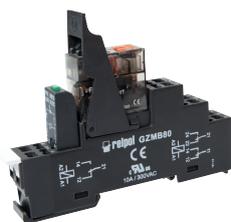


PI85P with socket GZMB80

interface relays with spring terminals

RMP85 (AC) + GZMB80

RMP85 (DC) + GZMB80



NEW

- Interface relay **PI85P with socket GZMB80** consists of: electromagnetic relay **RMP85**, black plug-in socket **GZMB80**, signalling / protecting module **type M...**, retainer / retractor clip **GZMB80-0025** (plastic), white description plate **TR**
- 35 mm rail mount acc. to EN 60715
- Recognitions, certifications, directives: recognitions RMP85, RoHS,



Contact data

Number and type of contacts		1 CO
Contact material		AgNi
Rated / max. switching voltage	AC	250 V / 300 V
Min. switching voltage		12 V 10 mA
Rated load	AC1	16 A / 250 V AC ①
Min. switching current		10 mA 12 V
Max. inrush 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		360 cycles/hour
• at rated load	AC1	18 000 cycles/hour
• no load		
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
	DC	0,4 ... 0,48 W
Insulation according to EN 60664-1		
Insulation rated voltage		300 V AC
Rated surge voltage		4 000 V 1,2 / 50 μs
Overvoltage category		III
Insulation pollution degree		3
Dielectric strength		
• between coil and contacts		4 000 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)		97 x 16 x 78 mm
Weight		60 g
Ambient temperature	• storage	-40...+70 °C
(non-condensation and/or icing)	• operating	-40...+55 °C
Cover protection category		IP 20 EN 60529
Environmental protection		RMP85: RTII GZMB80: RT0 EN 61810-7
Shock resistance		10 g
Vibration resistance	(NO/NC)	10 g / 5 g length direction: 10 g / 2 g 10...150 Hz

The data in bold type relate to the standard versions of the relays. ① Loads above 10 A require bridging pairs of spring terminals: 11 with 21, 12 with 22, 14 with 24 - see page 2.

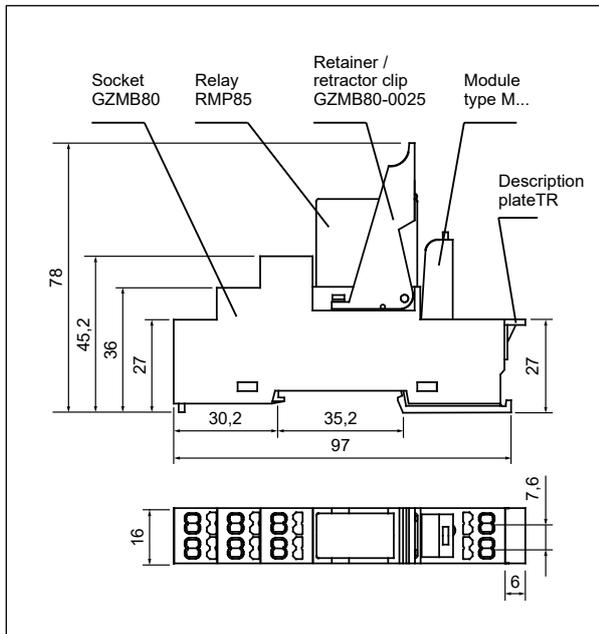
PRECAUTIONS:

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.

PI85P with socket GZMB80

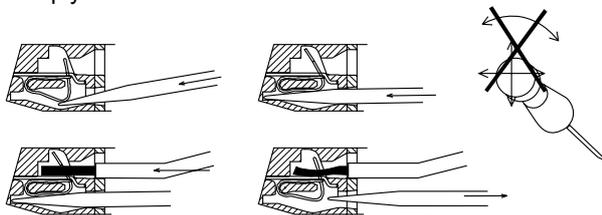
interface relays with spring terminals

Dimensions

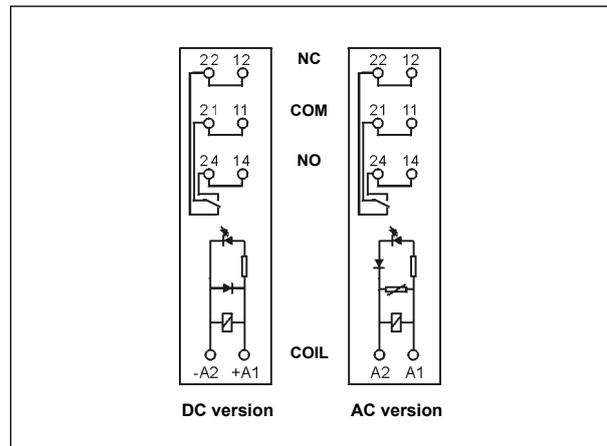


Wire connection

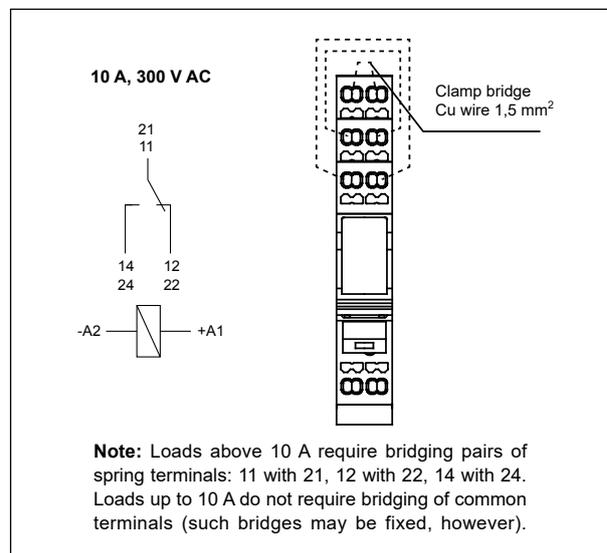
The drawings present the sequence of operations in course of inserting wires to the spring terminal, and the recommended screwdriver to be used for opening of case springs, comply with the DIN 5264 FORM "A".



Connection diagrams (spring terminals side view)

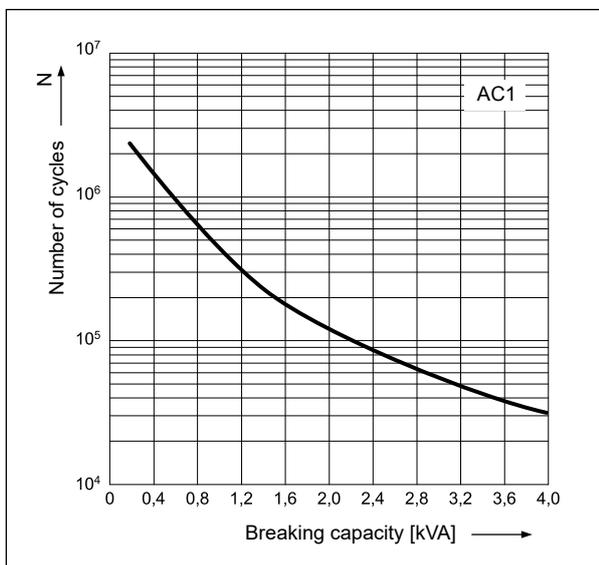


Connection of GZMB80 socket



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

Fig. 1



Max. AC 50 Hz resistive load breaking capacity

Fig. 2

