

# RM84 / RM85 / RM87

## Miniature Electromagnetic Relays



- Miniature dimensions
- 5000 V / 10 mm reinforced insulation
- Available special versions with the increased dielectric strength of the contact clearance
- IP67 flux proof, water proof and sealed cover protection (For IP40 unsealed, contact Altech)
- Cadmium - free contacts
- For PCB and plug-in sockets

| Contact Data                              |                             | RM84   | RM85   | RM87   |
|---|-----------------------------|--|--|--|
| <b>No. and type of contacts</b>           |                             | <b>DPDT, DPST (2NO)</b>  | <b>SPDT, SPST (1NO)</b>  | <b>SPDT, SPST (1NO)</b>  |
| Contact material                          |                             | AgNi   | AgNi   | AgNi   |
| Rated / max. switching voltage            | AC                          | 250 V / 440 V  | 250 V / 440 V  | 250 V / 440 V  |
| Min. switching voltage                    |                             | 5 V  | 5 V  | 5 V  |
| Rated load (capacity)                     |                             | 8 A / 250 V AC   | 16 A / 250 V AC  | 12 A / 250 V AC  |
|   | AC15                        | 3 A / 120 V; 1.5 A / 240 V (B300)                                    | 3 A / 120 V; 1.5 A / 240 V (B300)                                    | 3 A / 120 V; 1.5 A / 240 V (B300)                                    |
|   | AC3                         | 550 W (single-phase motor)   | 750 W (single-phase motor)   | 750 W (single-phase motor)   |
|   | DC1                         | 8 A / 24 V DC (see Fig. 3.1)   | 16 A / 24 V DC (see Fig. 3.2)  | 12 A / 24 V DC (see Fig. 3.3)  |
|   | DC13                        | 0.22 A / 120 V; 0.1 A / 250 V (R300)                                 | 0.22 A / 120 V; 0.1 A / 250 V (R300)                                 | 0.22 A / 120 V; 0.1 A / 250 V (R300)                                 |
| Min. switching current                    |                             | 5 mA   | 5 mA   | 5 mA   |
| Max. inrush current                       |                             | 12 A   | 24 A   | 18 A   |
| <b>Rated current</b>                      |                             | <b>8 A</b>   | <b>16 A</b>  | <b>12 A</b>  |
| Max. breaking capacity                    | AC1                         | 2 000 VA   | 4 000 VA   | 3 000 VA   |
| Min. breaking capacity                    |                             | 0.3 W  | 0.3 W  | 0.3 W  |
| Contact resistance                        |                             | ≤ 100 mΩ   | ≤ 100 mΩ   | ≤ 100 mΩ   |
| Max. operating frequency                  |                             | 600 cycles/hour  | 600 cycles/hour  | 600 cycles/hour  |
|   | • at rated load             | 72000 cycles/hour  | 72000 cycles/hour  | 72000 cycles/hour  |
|   | • no load                   |  |  |  |
| <b>Coil Data</b>                          |                             |  |  |  |
| Rated voltage                             | 50/60 Hz AC                 | 12 ... 240 V   | 12 ... 240 V   | 12 ... 240 V   |
|   | DC                          | 3 ... 110 V  | 3 ... 110 V  | 3 ... 110 V  |
| Must release voltage                      |                             | AC: ≥ 0.15 U <sub>N</sub> ; DC: ≥ 0.1 U <sub>N</sub>                 | AC: ≥ 0.15 U <sub>N</sub> ; DC: ≥ 0.1 U <sub>N</sub>                 | AC: ≥ 0.15 U <sub>N</sub> ; DC: ≥ 0.1 U <sub>N</sub>                 |
| Operating range of supply voltage         |                             | see page 80 and Fig. 4.1. 5.1  | see page 80 and Fig. 4.2. 5.2  | see page 80 and Fig. 4.3. 5.3  |
| Rated power consumption                   | AC                          | 0.75 VA  | 0.75 VA  | 0.75 VA  |
|   | DC                          | 0.4 ... 0.48 W   | 0.4 ... 0.48 W   | 0.4 ... 0.48 W   |
| <b>Insulation</b>                         |                             |  |  |  |
| Insulation rated voltage                  |                             | 400 V AC   | 400 V AC   | 400 V AC   |
| Rated surge voltage                       |                             | 4000 V 1.2 / 50 μs   | 4000 V 1.2 / 50 μs   | 4000 V 1.2 / 50 μs   |
| Overvoltage category                      |                             | III  | III  | III  |
| Insulation pollution degree               |                             | 3  | 3  | 3  |
| Dielectric strength                       |                             | 5000 V AC type of insulation: reinforced                             | 5000 V AC type of insulation: reinforced                             | 5000 V AC type of insulation: reinforced                             |
|   | • between coil and contacts | 1000 V AC type of clearance: micro-disconnection                     | 1000 V AC type of clearance: micro-disconnection                     | 1000 V AC type of clearance: micro-disconnection                     |
|   | • contact clearance         | 2000 V AC contacts DPST (2NO).<br>type of clearance: full-disconnect | 2000 V AC contacts DPST (2NO).<br>type of clearance: full-disconnect | 2000 V AC contacts SPST (1NO).<br>type of clearance: full-disconnect |
|   | • pole - pole               | 2500 V AC type of insulation: basic                                  | -  | -  |
| Contact - coil distance                   |                             | ≥ 10 mm  | ≥ 10 mm  | ≥ 10 mm  |
|   | • clearance                 | ≥ 10 mm  | ≥ 10 mm  | ≥ 10 mm  |
|   | • creepage                  |  |  |  |
| <b>General data</b>                       |                             |  |  |  |
| Operating / release time (typical values) |                             | 7 ms / 3 ms  | 7 ms / 3 ms  | 7 ms / 3 ms  |
| Electrical life                           |                             |  |  |  |
|   | • resistive                 | > 10 <sup>6</sup> ; 8 A. 250 V AC                                    | > 0.7 x 10 <sup>6</sup> ; 16 A. 250 V AC                             | > 10 <sup>6</sup> ; 12 A. 250 V AC                                   |
|   | • cosφ                      | see Fig. 2.1   | see Fig. 2.2   | see Fig. 2.3   |
|   | • DC L/R=40 ms              | > 10 <sup>6</sup> ; 0.15 A. 220 V DC                                 | > 10 <sup>6</sup> ; 0.15 A. 220 V DC                                 | > 10 <sup>6</sup> ; 0.15 A. 220 V DC                                 |
| Mechanical life (cycles)                  |                             | > 3 x 10 <sup>7</sup>  | > 3 x 10 <sup>7</sup>  | > 3 x 10 <sup>7</sup>  |
| Dimensions (L x W x H)                    |                             | 29 x 12.7 x 15.7 mm  | 29 x 12.7 x 15.7 mm  | 29 x 12.7 x 15.7 mm  |
| Weight                                    |                             | 14 g   | 14 g   | 14 g   |
| Ambient temperature                       |                             |  |  |  |
|   | • storage                   | -40...+85 °C   | 40...+85 °C  | 40...+85 °C  |
|   | • operating                 | AC: -40...+70 °C DC: -40...+85 °C                                    | AC: -40...+70 °C DC: -40...+85 °C                                    | AC: -40...+70 °C DC: -40...+85 °C                                    |
| Cover protection category                 |                             | IP 67 PN-EN 60529  | IP 67 PN-EN 60529  | IP 67 PN-EN 60529  |
| Environmental protection                  |                             | RTIII PN-EN 116000-3   | RTIII PN-EN 116000-3   | RTIII PN-EN 116000-3   |
| Shock resistance (NO/NC)                  |                             | 20 g   | 30 g   | 30 g   |
| Vibration resistance                      |                             | 10 g / 5 g 10...150 Hz   | 10 g 10...150 Hz   | 10 g 10...150 Hz   |
| Solder bath temperature                   |                             | max. 270 °C  | max. 270 °C  | max. 270 °C  |
| Soldering time                            |                             | max. 5 s   | max. 5 s   | max. 5 s   |

# RM84 / RM85 / RM87

## Miniature Electromagnetic Relays



**RM84**



### CONNECTION DIAGRAM



|                |                |   |
|----------------|----------------|---|
| Terminal (pin) | A1(1); A2(2)   | 22(3); 21(4); 24(5);<br>12(6); 11(7); 14(8) |
| [mm]           | ∅ 0.6          | 0.5 x 0.9                                   |
| Drilling hole: |                |   |
| • for relays   | ∅ 1.3 + 0.1 mm |   |
| • for sockets  | ∅ 1.5 + 0.1 mm |   |

### DIMENSIONS



### LOAD CHARTS

**Electrical life at AC resistive load.** Switching frequency: 600 cycles/hour      Fig. 1.1



**Electrical life reduction factor at AC inductive load**      Fig. 2.1



**Max. DC resistive load breaking capacity**      Fig. 3.1



**Coil operating range - DC**      Fig. 4.1



**Coil operating range - AC 50 Hz**      Fig. 5.1



#### Description of Fig. 4.1 and 5.1

**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

# RM84 / RM85 / RM87

## Miniature Electromagnetic Relays



**RM85**



### CONNECTION DIAGRAM



| Terminal (pin) | A1(1); A2(2)   | 22(3); 21(4); 24(5);<br>12(6); 11(7); 14(8) |
|----------------|----------------|---|
| [mm]           | Ø 0.6          | 0.5 x 0.9                                   |
| Drilling hole: |                |   |
| • for relays   | Ø 1.3 + 0.1 mm |   |
| • for sockets  | Ø 1.5 + 0.1 mm |   |

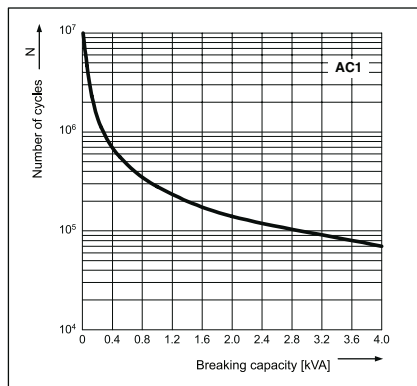
**RM85** terminals are doubled for each contact.  
Both terminals are to be used while connecting to load.

### DIMENSIONS



### LOAD CHARTS

**Electrical life at AC resistive load.**  
Switching frequency: 600 cycles/hour Fig. 1.2



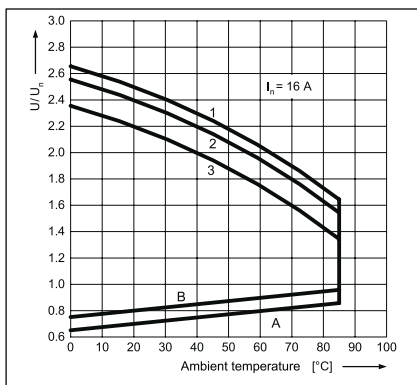
**Electrical life reduction factor at AC inductive load** Fig. 2.2



**Max. DC resistive load breaking capacity** Fig. 3.2



**Coil operating range - DC** Fig. 4.2



**Coil operating range - AC 50 Hz** Fig. 5.2



**Description of Fig. 4.2 and 5.2**

**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

# RM84 / RM85 / RM87

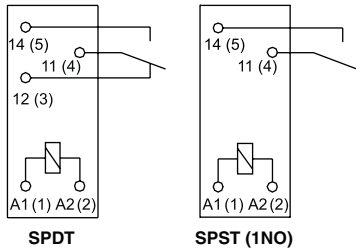
## Miniature Electromagnetic Relays



**RM87**



### CONNECTION DIAGRAM



| Terminal (pin) | A1(1); A2(2)   | 12(3); 11(4); 14(5) |
|----------------|----------------|---------------------|
| [mm]           | Ø 0.6          | 0.5 x 0.9           |
| Drilling hole: |                |                     |
| • for relays   | Ø 1.3 + 0.1 mm |                     |
| • for sockets  | Ø 1.5 + 0.1 mm |                     |

### DIMENSIONS

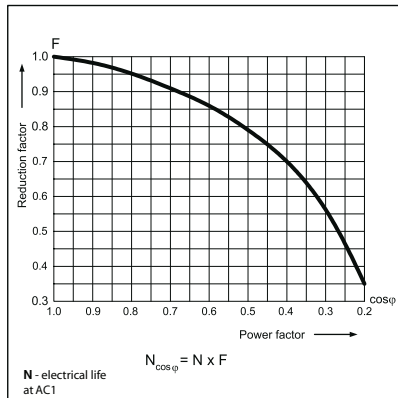


### LOAD CHARTS

**Electrical life at AC resistive load.** Fig. 1.3  
Switching frequency: 600 cycles/hour



**Electrical life reduction factor at AC inductive load** Fig. 2.3



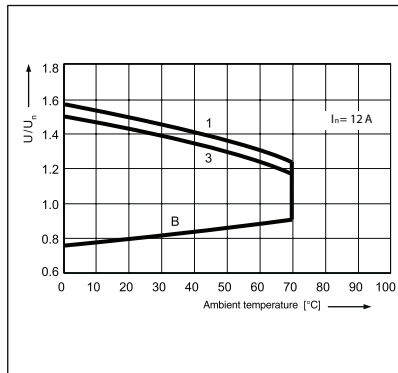
**Max. DC resistive load breaking capacity** Fig. 3.3  
- standard version



**Coil operating range - DC** Fig. 4.3  
- standard version



**Coil operating range - AC 50 Hz** Fig. 5.3



**Description of Fig. 4.3 and 5.3**

**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<sub>n</sub> at continues load of I<sub>n</sub> 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

# RM84 / RM85 / RM87

## Miniature Electromagnetic Relays

### R84 DPDT AC 50/60Hz & DC coil

| Part Number                | Coil Voltage (V) | Coil Type  | Coil resistance at 20 °C in Ω | Coil operating range |                |
|----------------------------|------------------|------------|-------------------------------|----------------------|----------------|
|                            |                  |            |                               | min. (at 20°C)       | max. (at 55°C) |
| ▶ <b>RM84-2012-35-1012</b> | 12               | DC         | 360                           | 8.4                  | 30.6           |
| ▶ <b>RM84-2012-35-1024</b> | 24               | DC         | 1440                          | 16.8                 | 61.2           |
| ▶ RM84-2012-35-1110        | 110              | DC         | 25200                         | 77.0                 | 280.0          |
| ▶ <b>RM84-2012-35-5120</b> | 120              | AC 50/60Hz | 10200                         | 96.0                 | 144.0          |
| ▶ <b>RM84-2012-35-5230</b> | 230              | AC 50/60Hz | 38500                         | 184.0                | 276.0          |

### R84 DPST(2NO) AC 50/60Hz & DC coil

| Part Number                | Coil Voltage (V) | Coil Type  | Coil resistance at 20 °C in Ω | Coil operating range |                |
|----------------------------|------------------|------------|-------------------------------|----------------------|----------------|
|                            |                  |            |                               | min. (at 20°C)       | max. (at 55°C) |
| ▶ <b>RM84-2022-35-1012</b> | 12               | DC         | 360                           | 8.4                  | 30.6           |
| ▶ <b>RM84-2022-35-1024</b> | 24               | DC         | 1440                          | 16.8                 | 61.2           |
| ▶ RM84-2022-35-1110        | 110              | DC         | 25200                         | 77.0                 | 280.0          |
| ▶ <b>RM84-2022-35-5120</b> | 120              | AC 50/60Hz | 10200                         | 96.0                 | 144.0          |
| ▶ <b>RM84-2022-35-5230</b> | 230              | AC 50/60Hz | 38500                         | 184.0                | 276.0          |

### R85 SPDT AC 50/60Hz & DC coil

| Part Number                | Coil Voltage (V) | Coil Type  | Coil resistance at 20 °C in Ω | Coil operating range |                |
|----------------------------|------------------|------------|-------------------------------|----------------------|----------------|
|                            |                  |            |                               | min. (at 20°C)       | max. (at 55°C) |
| ▶ <b>RM85-2011-35-1012</b> | 12               | DC         | 360                           | 8.4                  | 30.6           |
| ▶ <b>RM85-2011-35-1024</b> | 24               | DC         | 1440                          | 16.8                 | 61.2           |
| ▶ RM85-2011-35-1110        | 110              | DC         | 25200                         | 77.0                 | 280.0          |
| ▶ <b>RM85-2011-35-5120</b> | 120              | AC 50/60Hz | 10200                         | 96.0                 | 144.0          |
| ▶ <b>RM85-2011-35-5230</b> | 230              | AC 50/60Hz | 38500                         | 184.0                | 276.0          |

### R85 SPST(1NO) AC 50/60Hz & DC coil

| Part Number                | Coil Voltage (V) | Coil Type  | Coil resistance at 20 °C in Ω | Coil operating range |                |
|----------------------------|------------------|------------|-------------------------------|----------------------|----------------|
|                            |                  |            |                               | min. (at 20°C)       | max. (at 55°C) |
| ▶ <b>RM85-2021-35-1012</b> | 12               | DC         | 360                           | 8.4                  | 30.6           |
| ▶ <b>RM85-2021-35-1024</b> | 24               | DC         | 1440                          | 16.8                 | 61.2           |
| ▶ RM85-2021-35-1110        | 110              | DC         | 25200                         | 77.0                 | 280.0          |
| ▶ <b>RM85-2021-35-5120</b> | 120              | AC 50/60Hz | 10200                         | 96.0                 | 144.0          |
| ▶ <b>RM85-2021-35-5230</b> | 230              | AC 50/60Hz | 38500                         | 184.0                | 276.0          |

### R87 SPDT AC 50/60Hz & DC coil

| Part Number                 | Coil Voltage (V) | Coil Type  | Coil resistance at 20 °C in Ω | Coil operating range |                |
|-----------------------------|------------------|------------|-------------------------------|----------------------|----------------|
|                             |                  |            |                               | min. (at 20°C)       | max. (at 55°C) |
| ▶ <b>RM87N-2011-35-1012</b> | 12               | DC         | 360                           | 8.4                  | 30.6           |
| ▶ <b>RM87N-2011-35-1024</b> | 24               | DC         | 1440                          | 16.8                 | 61.2           |
| ▶ RM87N-2011-35-1110        | 110              | DC         | 25200                         | 77.0                 | 280.0          |
| ▶ <b>RM87N-2011-35-5120</b> | 120              | AC 50/60Hz | 10200                         | 96.0                 | 144.0          |
| ▶ <b>RM87N-2011-35-5230</b> | 230              | AC 50/60Hz | 38500                         | 184.0                | 276.0          |

### R87 SPST(1NO) AC 50/60Hz & DC coil

| Part Number                 | Coil Voltage (V) | Coil Type  | Coil resistance at 20 °C in Ω | Coil operating range |                |
|-----------------------------|------------------|------------|-------------------------------|----------------------|----------------|
|                             |                  |            |                               | min. (at 20°C)       | max. (at 55°C) |
| ▶ <b>RM87N-2021-35-1012</b> | 12               | DC         | 360                           | 8.4                  | 30.6           |
| ▶ <b>RM87N-2021-35-1024</b> | 24               | DC         | 1440                          | 16.8                 | 61.2           |
| ▶ RM87N-2021-35-1110        | 110              | DC         | 25200                         | 77.0                 | 280.0          |
| ▶ <b>RM87N-2021-35-5120</b> | 120              | AC 50/60Hz | 10200                         | 96.0                 | 144.0          |
| ▶ <b>RM87N-2021-35-5230</b> | 230              | AC 50/60Hz | 38500                         | 184.0                | 276.0          |

\* waterproof version

▶ **BOLD** - Regular stocked items.

# RM84 / RM85 / RM87

Miniature Electromagnetic Relays - Plug-in Sockets and Accessories **Altech®**

## GZT80 (for RM84 / RM85)

Screw terminals  
 Max. tightening moment  
 for the terminal: 0.7 Nm  
 35 mm rail mount  
 acc. to PN-EN 60715  
 or on panel mounting  
 75.3 x 15.5 x 61(67) mm\*  
 Two poles, 5 mm pinout  
 12 A, 300 V AC



E22891



GZT80

### CONNECTION DIAGRAM



RM84 RM85

### DIMENSIONS



ZGGZ80 (see page 110)



GZT80-0040



GZM80-0041\*\*



GZT80-0035



Module type M... (see page 113)

## GZM80 (for RM84 / RM85)

Screw terminals  
 Max. tightening moment  
 for the terminal: 0.7 Nm  
 35 mm rail mount  
 acc. to PN-EN 60715  
 or on panel mounting  
 78.1 x 15.9 x 61(66.5) mm\*  
 Two poles, 5 mm pinout  
 12 A, 300 V AC



E22891



GZM80

### CONNECTION DIAGRAM



RM84 RM85

### DIMENSIONS



ZGGZ80 (see page 110)



GZT80-0040



GZM80-0041\*\*



GZT80-0035



Module type M... (see page 113)

\* In parenthesis is the height of the socket with plastic retainer clip. \*\* For lower profile application.

All accessories are sold separately.

# RM84 / RM85 / RM87

## Miniature Electromagnetic Relays - Plug-in Sockets and Accessories

### GZT92 (for RM87)

Screw terminals  
 Max. tightening moment  
 for the terminal: 0.7 Nm  
 35 mm rail mount  
 acc. to PN-EN 60715  
 or on panel mounting  
 75.3 x 15.5 x 61(67) mm\*  
 One pole, 3,5 mm  
 12 A, 300 V AC



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GZT92



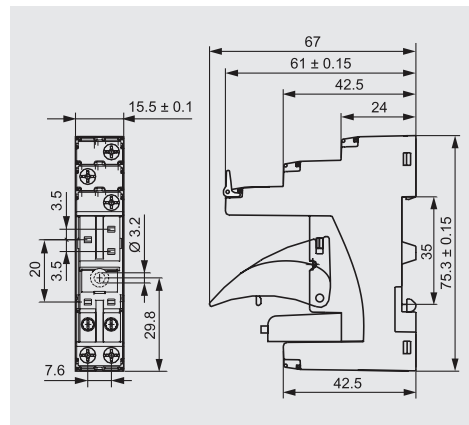
ZGGZ80 (see page 110)

### CONNECTION DIAGRAM



RM87

### DIMENSIONS



GZT80-0040



GZM80-0041\*\*



GZT80-0035



Module type M... (see page 113)

### GZM92 (for RM87)

Screw terminals  
 Max. tightening moment  
 for the terminal: 0.7 Nm  
 35 mm rail mount  
 acc. to PN-EN 60715  
 or on panel mounting  
 78.1 x 15.9 x 61(66.5) mm\*  
 One pole, 3,5 mm pinout  
 12 A, 300 V AC



E22891



GZM92



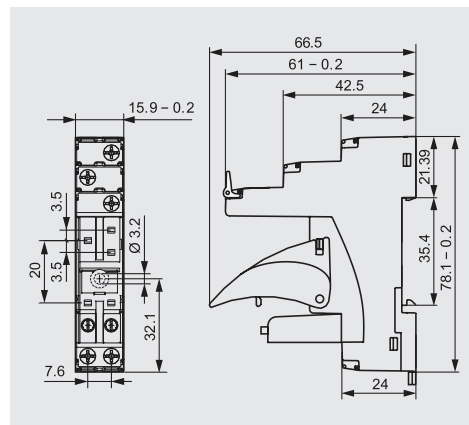
ZGGZ80 (see page 110)

### CONNECTION DIAGRAM



RM87

### DIMENSIONS



GZT80-0040



GZM80-0041\*\*



GZT80-0035



Module type M... (see page 113)

\* In parenthesis is the height of the socket with plastic retainer clip. \*\* For lower profile application.

All accessories are sold separately.

# RM84 / RM85 / RM87

## Miniature Electromagnetic Relays - Plug-in Sockets and Accessories **Altech**<sup>®</sup>

### GZMB80 (for RM84, RM85)

Spring terminals  
 Max. cross section of the cables:  
 1 x 0.2...1.5 mm<sup>2</sup>  
 (1 x 24...16 AWG)  
 Stripping length deinsulation:  
 9...11 mm  
 35 mm rail mount  
 acc. to PN-EN 60715  
 97 x 16 x 45.2(69) mm\*  
 Two poles, 5 mm pinout  
 10 A, 300 V AC



GZMB80

#### CONNECTION DIAGRAM



#### DIMENSIONS



GZMB80-0040



GZMB80-0041\*\*



TR



Module type M... (see page 113)

### GD50 (for RM84, RM85)

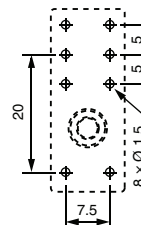
For RM84, RM85

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



GD50

#### CONNECTION DIAGRAM



#### DIMENSIONS



MH16-2

### GD35 (for RM87N)

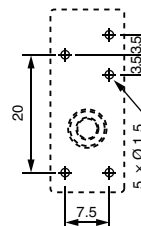
For RM87

For PCB  
 31.5 x 13 x 9 mm  
 One pole, 3.5 mm pinout  
 12 A, 300 V AC



GD35

#### CONNECTION DIAGRAM



#### DIMENSIONS



MH16-2

\* In parenthesis is the height of the socket with plastic retainer clip. \*\* For lower profile application.

All accessories are sold separately.





Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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