

# R2M / RY2 / RUC

## Industrial Electromagnetic Relays



- Relays of general application
- For plug-in sockets, 35 mm rail mount or on panel mounting
- Cadmium-free contacts
- R2M and RUC also for PCB and soldering connections
- AC and DC coils available



R2M

RY2

RUC

### Contact Data

| Number and type of contacts    |               | DPDT              | DPDT              | DPDT. 3PDT. DPST. 3PST             |
|--------------------------------|---------------|-------------------|-------------------|------------------------------------|
| Contact material               |               | AgNi*             | AgNi*             | AgNi*                              |
| Rated / max. switching voltage | AC            | 250 V / 250 V     | 250 V / 440 V     | 400 V / 440 V                      |
| Min. switching voltage         |               | 5 V               | 5 V               | 5 V                                |
| Rated load                     | AC1           | 5 A / 250 V AC    | 12 A / 250 V AC   | 16 A / 250 V AC or 10 A / 400 V AC |
|                                | DC1           | 5 A / 24 V DC     | 12 A / 30 V DC    | 16 A / 24 V DC (see Fig. 3.3)      |
| Min. switching current         |               | 5 mA              | 5 mA              | 5 mA                               |
| Max. inrush current            |               | 20 A              | 20 A              | 40 A                               |
| <b>Rated current</b>           |               | <b>5A</b>         | <b>12A</b>        | <b>16A</b>                         |
| Max. breaking capacity         | AC1           | 1250 VA           | 3000 VA           | 4000 VA                            |
| Min. breaking capacity         |               | 0.3 W             | 0.3 W             | 0.3 W                              |
| Contact resistance             |               | ≤ 100 mΩ          | ≤ 100 mΩ          | ≤ 100 mΩ                           |
| Max. operating frequency       | at rated load | 1200 cycles/hour  | 1200 cycles/hour  | 1200 cycles/hour                   |
|                                | no load       | 36000 cycles/hour | 18000 cycles/hour | 12000 cycles/hour                  |

### Coil Data

|                                   |             |                       |   |  |
|-----------------------------------|-------------|-----------------------|---|--|
| Rated voltage                     | 50/60 Hz AC | 6 ... 240 V           | 6 ... 240 V   | 6 ... 240 V  |
|                                   | DC          | 6 ... 110 V           | 5 ... 220 V   | 6 ... 220 V  |
| Must release voltage              |             | ≥ 0.05 U <sub>n</sub> | AC: ≥ 0.2 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 62           | see page 62   | see page 62  |
| Rated power consumption           | AC          | 1.2 VA                | 1.6 VA  | 2.8 VA 50 Hz; 2.5 VA 60 Hz                           |
|                                   | DC          | 0.9 W                 | 0.9 W   | 1.5 W; 1.7 W with contact gap ≥ 3 mm                 |

### Insulation

|   |                   |   |   |   |
|---|-------------------|---|---|---|
| Insulation rated voltage                      |                   | 250 V AC  | 250 V AC  | 400 V AC  |
| Rated surge voltage                           |                   | 2500 V 1.2 / 50 μs  | 4000 V 1.2 / 50 μs  | 4000 V 1.2 / 50 μs  |
| Overvoltage category                          |                   | II  | III   | III   |
| Insulation pollution degree                   |                   | 3   | 3   | 3   |
| Dielectric strength between coil and contacts | contact clearance | 2000 V AC type of insulation: basic<br>1000 V AC type of clearance: micro-disconnection | 2500 V AC type of insulation: basic<br>1000 V AC type of clearance: micro-disconnection | 2500 V AC type of insulation: basic<br>1500 V AC type of clearance: micro-disconnection<br>2500 V AC with contact gap ≥ 3 mm.<br>type of clearance: full-disconnection<br>2500 V AC type of insulation: basic |
|   | pole - pole       | 2000 V AC type of insulation: basic   | 2500 V AC type of insulation: basic   |   |
| Contact - coil distance                       | clearance         | ≥ 3 mm  | ≥ 2.6 mm  | ≥ 5 mm  |
|   | creepage          | ≥ 4 mm  | ≥ 4 mm  | ≥ 8 mm  |

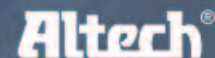
### General data

|   |               |                                       |                                    |  |
|---|---------------|---------------------------------------|------------------------------------|--|
| Operating / release time (typical values) |               | AC: 8 ms / 7 ms; DC: 10 ms / 3 ms     | 15 ms / 10 ms                      | 20 ms / 15 ms  |
| Electrical life                           | resistive AC1 | > 2 x 10 <sup>6</sup> ; 5 A. 250 V AC | > 10 <sup>6</sup> ; 12 A. 250 V AC | > 10 <sup>6</sup> ; 16 A. 250 V AC; > 10 <sup>6</sup> ; 10 A. 400 V AC   |
|   | cosφ          | see Fig. 2.1                          | see Fig. 2.2                       | see Fig. 2.3   |
| Mechanical life (cycles)                  |               | > 10 <sup>7</sup>                     | > 10 <sup>7</sup>                  | > 10 <sup>7</sup>  |
| Motor load according to UL 508            |               | -                                     | -                                  | DPDT: 1/3 HP 120 V AC, single-phase motor<br>1/2 HP 240 V AC, single-phase motor<br>3PDT: 1/3 HP 120 V AC, single-phase motor<br>1/2 HP 240 V AC, single-phase motor<br>3PDT: 1/2 HP 240 V AC, three-phase motor |
| Dimensions (L x W x H)                    |               | 27.5 x 14 x 32.9 mm                   | 27.5 x 21.1 x 34.5 mm              | 36.1 x 38.6 x 45.5 mm  |
| Weight                                    |               | 22 g                                  | 35 g                               | 80 g   |
| Ambient temperature                       | storage       | -40...+70 °C                          | -40...+70 °C                       | -40...+85 °C   |
|   | operating     | -40...+55 °C                          | -40...+55 °C                       | AC: -40...+55 °C 3PDT. 3PST (NO) /<br>16 A (+70 °C DPDT. DPST (NO) / 16 A)<br>DC: -40...+55 °C 3PDT. 3PST (NO) /<br>16 A (+70 °C 3PDT. 3PST (NO) /<br>10 A; DPDT. DPST (NO) / 16 A)                              |
| Cover protection category                 |               | IP 40 PN-EN 60529                     | IP 40 PN-EN 60529                  | IP 00 PN-EN 60529  |
| Shock resistance                          |               | 10 g                                  | 10 g                               | 10 g   |
| Vibration resistance                      |               | 5 g 10...150 Hz                       | 5 g 15...150 Hz                    | 5 g 10...150 Hz  |
| Solder bath temperature                   |               | max. 270 °C                           | -                                  | max. 270 °C  |
| Soldering time                            |               | max. 5 s                              | -                                  | max. 5 s   |

\* Other contact materials (eg. gold plated) available, contact Altech Corp.

# R2M / RY2 / RUC

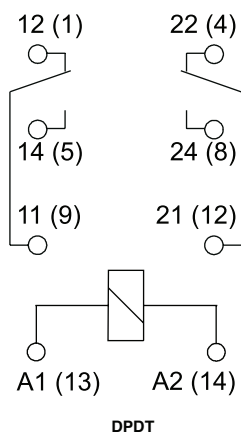
## Industrial Electromagnetic Relays



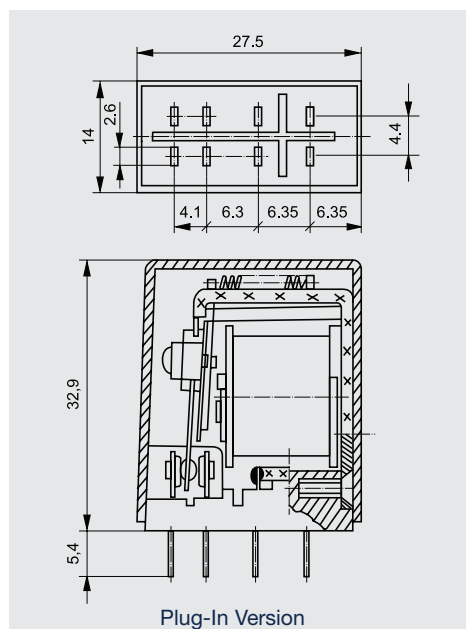
### R2M



### CONNECTION DIAGRAM

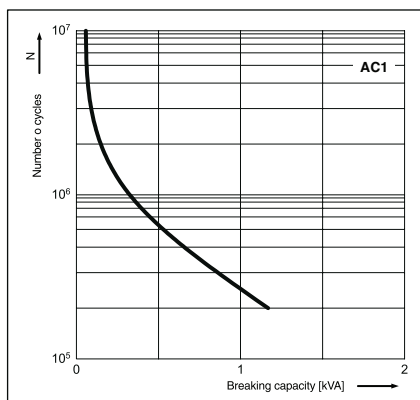


### DIMENSIONS

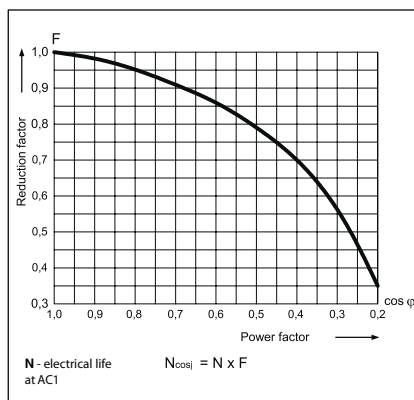


### LOAD CHARTS

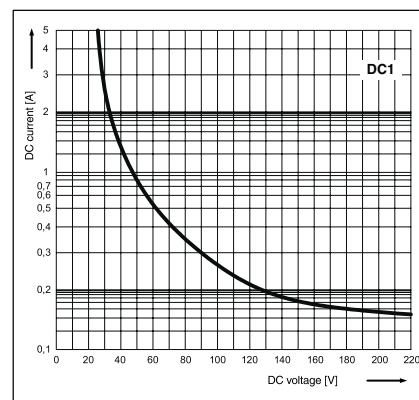
Electrical life at AC resistive load. Switching frequency: 1200 cycles/hour Fig. 1.1



Electrical life reduction factor at AC inductive load Fig. 2.1



Max. DC resistive load breaking capacity Fig. 3.1



# R2M / RY2 / RUC

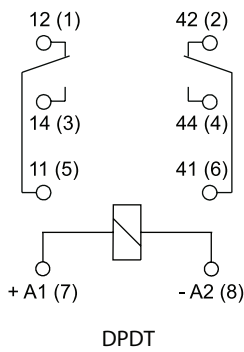
## Industrial Electromagnetic Relays



**RY2**

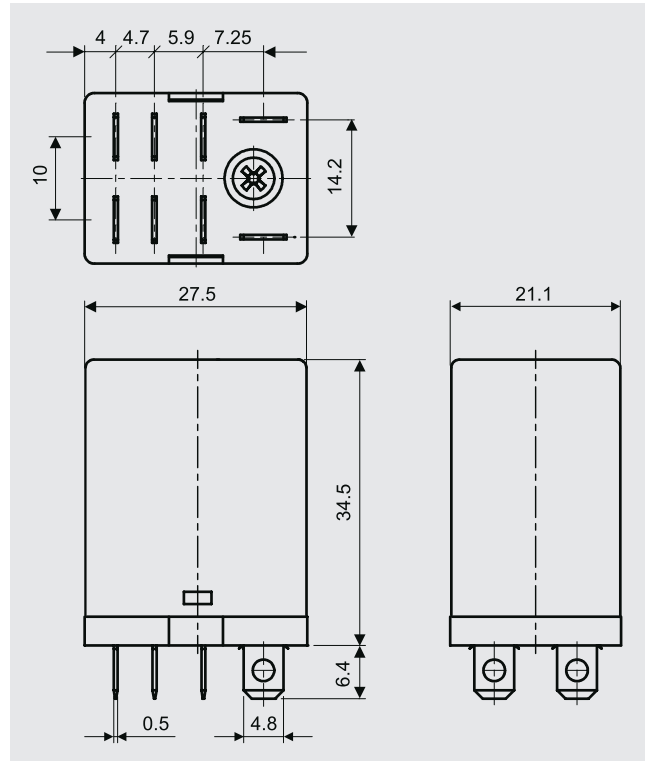


### CONNECTION DIAGRAM



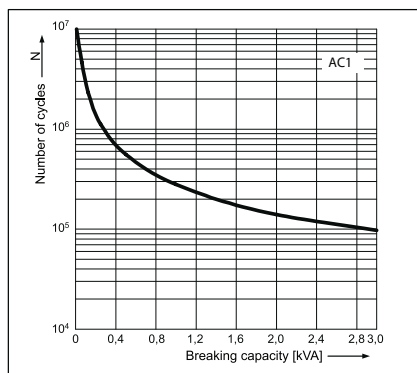
Note: the indicated polarity of the supply refers to the relays with extra equipment D - surge suppression element (diode) - for DC coils only.

### DIMENSIONS

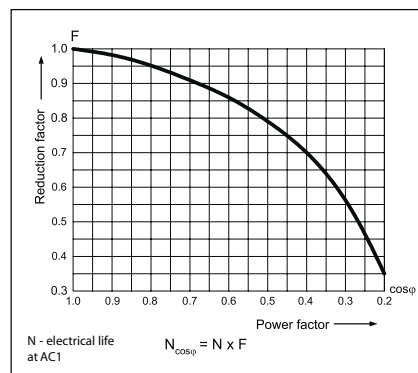


### LOAD CHARTS

**Electrical life at AC resistive load.** Fig. 1.2  
Switching frequency: 1 200 cycles/hour



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



# R2M / RY2 / RUC

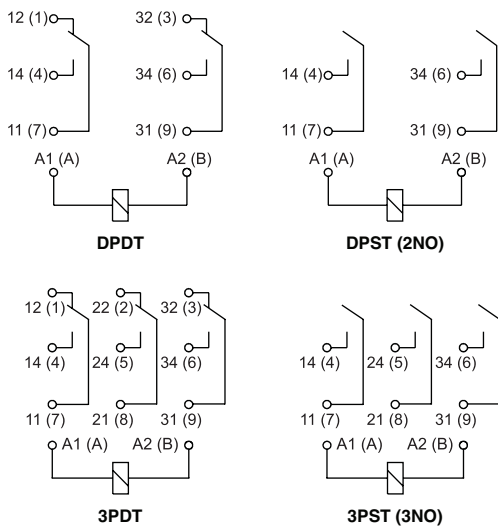
## Industrial Electromagnetic Relays



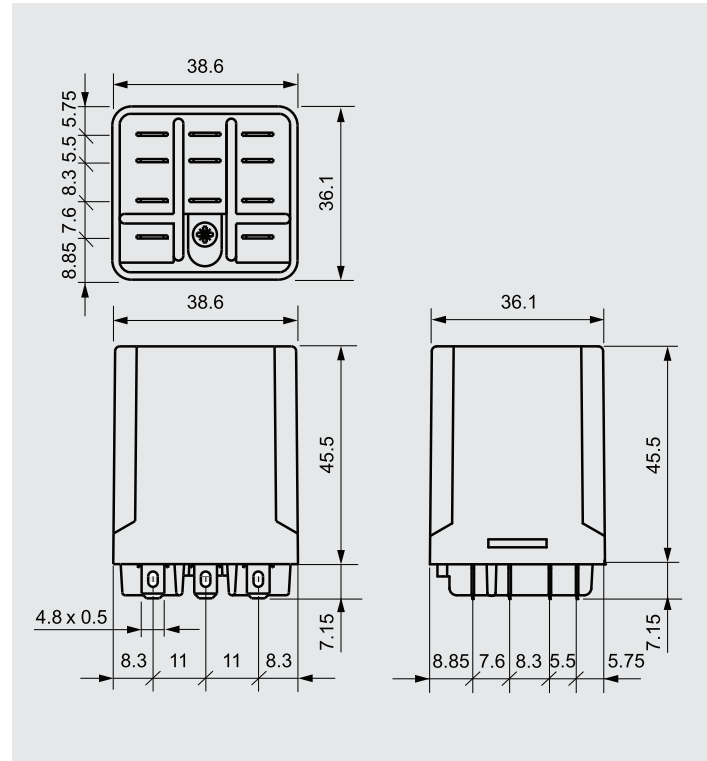
### RUC



### CONNECTION DIAGRAM



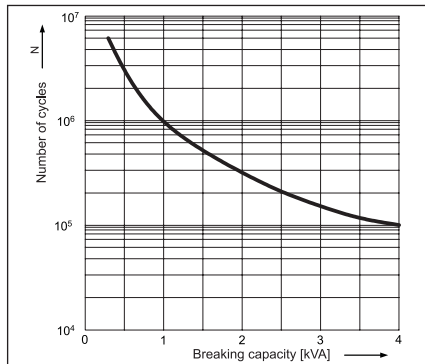
### DIMENSIONS



### LOAD CHARTS

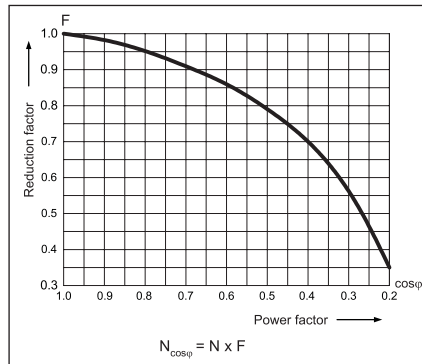
Electrical life at AC resistive load.  
Switching frequency: 1200 cycles/hour

Fig. 1



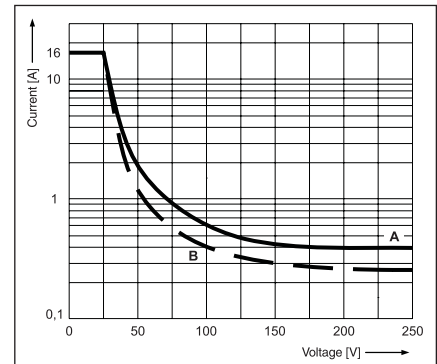
Electrical life reduction factor at AC inductive load

Fig. 2



Max. DC breaking capacity  
A - resistive load DC1  
B - inductive load L/R = 40 ms

Fig. 3



# R2M / RY2 / RUC

## Industrial Electromagnetic Relays

### R2M 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) |
| R2M-2012-23-1012          | 12               | DC         | 188                           | 9.6                  | 13.2           |
| ▶ <b>R2M-2012-23-1024</b> | 24               | DC         | 750                           | 19.2                 | 26.4           |
| R2M-2012-23-1110          | 110              | DC         | 13480                         | 88.0                 | 121.0          |
| ▶ <b>R2M-2012-23-5120</b> | 120              | AC 50/60Hz | 6390                          | 96.0                 | 132.0          |
| R2M-2012-23-5230          | 230              | AC 50/60Hz | 21470                         | 184.0                | 253.0          |

### RY2 DPDT AC 50/60Hz & DC coil

| Part Number                 | Coil Voltage (V) | Coil Type  | Coil resistance at 20 °C in Ω | Coil operating range |                | Options* |   |   |
|-----------------------------|------------------|------------|-------------------------------|----------------------|----------------|----------|---|---|
|                             |                  |            |                               | min. (at 20°C)       | max. (at 55°C) | -        | L | D |
| ▶ <b>RY2-1012-26-1012</b>   | 12               | DC         | 160                           | 9.6                  | 13.2           | x        |   |   |
| RY2-1012-26-1012-L          | 12               | DC         | 160                           | 9.6                  | 13.2           |          | x |   |
| RY2-1012-26-1012-D          | 12               | DC         | 160                           | 9.6                  | 13.2           |          |   | x |
| RY2-1012-26-1012-LD         | 12               | DC         | 160                           | 9.6                  | 13.2           |          | x | x |
| ▶ <b>RY2-1012-26-1024</b>   | 24               | DC         | 640                           | 19.2                 | 26.4           | x        |   |   |
| ▶ <b>RY2-1012-26-1024-L</b> | 24               | DC         | 640                           | 19.2                 | 26.4           |          | x |   |
| RY2-1012-26-1024-D          | 24               | DC         | 640                           | 19.2                 | 26.4           |          |   | x |
| RY2-1012-26-1024-LD         | 24               | DC         | 640                           | 19.2                 | 26.4           |          | x | x |
| RY2-1012-26-1110            | 110              | DC         | 13600                         | 88.0                 | 121.0          | x        |   |   |
| RY2-1012-26-1110-L          | 110              | DC         | 13600                         | 88.0                 | 121.0          |          | x |   |
| RY2-1012-26-1110-D          | 110              | DC         | 13600                         | 88.0                 | 121.0          |          |   | x |
| RY2-1012-26-1110-LD         | 110              | DC         | 13600                         | 88.0                 | 121.0          |          | x | x |
| RY2-1012-26-5024            | 24               | AC 50/60Hz | 158                           | 19.2                 | 26.4           | x        |   |   |
| ▶ <b>RY2-1012-26-5024-L</b> | 24               | AC 50/60Hz | 158                           | 19.2                 | 26.4           |          | x |   |
| RY2-1012-26-5024-D          | 24               | AC 50/60Hz | 158                           | 19.2                 | 26.4           |          |   | x |
| RY2-1012-26-5024-LD         | 24               | AC 50/60Hz | 158                           | 19.2                 | 26.4           |          | x | x |
| ▶ <b>RY2-1012-26-5120</b>   | 120              | AC 50/60Hz | 3770                          | 96.0                 | 132.0          | x        |   |   |
| ▶ <b>RY2-1012-26-5120-L</b> | 120              | AC 50/60Hz | 3770                          | 96.0                 | 132.0          |          | x |   |
| RY2-1012-26-5120-D          | 120              | AC 50/60Hz | 3770                          | 96.0                 | 132.0          |          |   | x |
| RY2-1012-26-5120-LD         | 120              | AC 50/60Hz | 3770                          | 96.0                 | 132.0          |          | x | x |
| RY2-1012-26-5230            | 230              | AC 50/60Hz | 16100                         | 184.0                | 253.0          | x        |   |   |
| ▶ <b>RY2-1012-26-5230-L</b> | 230              | AC 50/60Hz | 16100                         | 184.0                | 253.0          |          | x |   |
| RY2-1012-26-5230-D          | 230              | AC 50/60Hz | 16100                         | 184.0                | 253.0          |          |   | x |
| RY2-1012-26-5230-LD         | 230              | AC 50/60Hz | 16100                         | 184.0                | 253.0          |          | x | x |

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

| Part Number                  | Coil Voltage (V) | Coil Type  | Coil resistance at 20 °C in Ω | Coil operating range |                | Options* |   |   |
|------------------------------|------------------|------------|-------------------------------|----------------------|----------------|----------|---|---|
|                              |                  |            |                               | min. (at 20°C)       | max. (at 55°C) | -        | K | L |
| ▶ <b>RUC-2012-26-1012</b>    | 12               | DC         | 110                           | 9.6                  | 13.2           | x        |   |   |
| RUC-2012-26-1012-K           | 12               | DC         | 110                           | 9.6                  | 13.2           |          | x |   |
| RUC-2012-26-1012-L           | 12               | DC         | 110                           | 9.6                  | 13.2           |          |   | x |
| RUC-2012-26-1012-KL          | 12               | DC         | 110                           | 9.6                  | 13.2           |          | x | x |
| ▶ <b>RUC-2012-26-1024</b>    | 24               | DC         | 430                           | 19.2                 | 26.4           | x        |   |   |
| RUC-2012-26-1024-K           | 24               | DC         | 430                           | 19.2                 | 26.4           |          | x |   |
| RUC-2012-26-1024-L           | 24               | DC         | 430                           | 19.2                 | 26.4           |          |   | x |
| ▶ <b>RUC-2012-26-1024-KL</b> | 24               | DC         | 430                           | 19.2                 | 26.4           |          | x | x |
| RUC-2012-26-1110             | 110              | DC         | 9200                          | 88.0                 | 121.0          | x        |   |   |
| RUC-2012-26-1110-K           | 110              | DC         | 9200                          | 88.0                 | 121.0          |          | x |   |
| RUC-2012-26-1110-L           | 110              | DC         | 9200                          | 88.0                 | 121.0          |          |   | x |
| RUC-2012-26-1110-KL          | 110              | DC         | 9200                          | 88.0                 | 121.0          |          | x | x |
| ▶ <b>RUC-2012-26-5120</b>    | 120              | AC 50/60Hz | 1910                          | 96.0                 | 132.0          | x        |   |   |
| RUC-2012-26-5120-K           | 120              | AC 50/60Hz | 1910                          | 96.0                 | 132.0          |          | x |   |
| RUC-2012-26-5120-L           | 120              | AC 50/60Hz | 1910                          | 96.0                 | 132.0          |          |   | x |
| ▶ <b>RUC-2012-26-5120-KL</b> | 120              | AC 50/60Hz | 1910                          | 96.0                 | 132.0          |          | x | x |
| RUC-2012-26-5230             | 230              | AC 50/60Hz | 7080                          | 184.0                | 253.0z         | x        |   |   |
| RUC-2012-26-5230-K           | 230              | AC 50/60Hz | 7080                          | 184.0                | 253.0          |          | x |   |
| RUC-2012-26-5230-L           | 230              | AC 50/60Hz | 7080                          | 184.0                | 253.0          |          |   | x |
| ▶ <b>RUC-2012-26-5230-KL</b> | 230              | AC 50/60Hz | 7080                          | 184.0                | 253.0          |          | x | x |

- = without additional features

**K** = with test button without block function;

**L** = with light indicator (LED)

**D** = with surge suppression element (diode)

\* other options available upon request

▶ **BOLD** - Regular stocked items.



### RUC 3PDT AC 50/60Hz & DC coil

| Part Number                  | Coil Voltage (V) | Coil Type  | Coil resistance at 20 °C in Ω | Coil operating range |                | Options* |   |   |
|------------------------------|------------------|------------|-------------------------------|----------------------|----------------|----------|---|---|
|                              |                  |            |                               | min. (at 20°C)       | max. (at 55°C) | -        | K | L |
| ► <b>RUC-2013-26-1012</b>    | 12               | DC         | 110                           | 9.6                  | 13.2           | x        |   |   |
| RUC-2013-26-1012-K           | 12               | DC         | 110                           | 9.6                  | 13.2           |          | x |   |
| RUC-2013-26-1012-L           | 12               | DC         | 110                           | 9.6                  | 13.2           |          |   | x |
| RUC-2013-26-1012-KL          | 12               | DC         | 110                           | 9.6                  | 13.2           |          | x | x |
| ► <b>RUC-2013-26-1024</b>    | 24               | DC         | 430                           | 19.2                 | 26.4           | x        |   |   |
| RUC-2013-26-1024-K           | 24               | DC         | 430                           | 19.2                 | 26.4           |          | x |   |
| RUC-2013-26-1024-L           | 24               | DC         | 430                           | 19.2                 | 26.4           |          |   | x |
| ► <b>RUC-2013-26-1024-KL</b> | 24               | DC         | 430                           | 19.2                 | 26.4           |          | x | x |
| RUC-2013-26-1110             | 110              | DC         | 9200                          | 88.0                 | 121.0          | x        |   |   |
| RUC-2013-26-1110-K           | 110              | DC         | 9200                          | 88.0                 | 121.0          |          | x |   |
| RUC-2013-26-1110-L           | 110              | DC         | 9200                          | 88.0                 | 121.0          |          |   | x |
| RUC-2013-26-1110-KL          | 110              | DC         | 9200                          | 88.0                 | 121.0          |          | x | x |
| ► <b>RUC-2013-26-5120</b>    | 120              | AC 50/60Hz | 1910                          | 96.0                 | 132.0          | x        |   |   |
| RUC-2013-26-5120-K           | 120              | AC 50/60Hz | 1910                          | 96.0                 | 132.0          |          | x |   |
| RUC-2013-26-5120-L           | 120              | AC 50/60Hz | 1910                          | 96.0                 | 132.0          |          |   | x |
| ► <b>RUC-2013-26-5120-KL</b> | 120              | AC 50/60Hz | 1910                          | 96.0                 | 132.0          |          | x | x |
| ► <b>RUC-2013-26-5230</b>    | 230              | AC 50/60Hz | 7080                          | 184.0                | 253.0          | x        |   |   |
| RUC-2013-26-5230-K           | 230              | AC 50/60Hz | 7080                          | 184.0                | 253.0          |          | x |   |
| RUC-2013-26-5230-L           | 230              | AC 50/60Hz | 7080                          | 184.0                | 253.0          |          |   | x |
| RUC-2013-26-5230-KL          | 230              | AC 50/60Hz | 7080                          | 184.0                | 253.0          |          | x | x |

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

| Part Number         | Coil Voltage (V) | Coil Type  | Coil resistance at 20 °C in Ω | Coil operating range |                | Options* |   |   |
|---------------------|------------------|------------|-------------------------------|----------------------|----------------|----------|---|---|
|                     |                  |            |                               | min. (at 20°C)       | max. (at 55°C) | -        | K | L |
| RUC-2022-26-1012    | 12               | DC         | 110                           | 9.6                  | 13.2           | x        |   |   |
| RUC-2022-26-1012-K  | 12               | DC         | 110                           | 9.6                  | 13.2           |          | x |   |
| RUC-2022-26-1012-L  | 12               | DC         | 110                           | 9.6                  | 13.2           |          |   | x |
| RUC-2022-26-1012-KL | 12               | DC         | 110                           | 9.6                  | 13.2           |          | x | x |
| RUC-2022-26-1024    | 24               | DC         | 430                           | 19.2                 | 26.4           | x        |   |   |
| RUC-2022-26-1024-K  | 24               | DC         | 430                           | 19.2                 | 26.4           |          | x |   |
| RUC-2022-26-1024-L  | 24               | DC         | 430                           | 19.2                 | 26.4           |          |   | x |
| RUC-2022-26-1024-KL | 24               | DC         | 430                           | 19.2                 | 26.4           |          | x | x |
| RUC-2022-26-1110    | 110              | DC         | 9200                          | 88.0                 | 121.0          | x        |   |   |
| RUC-2022-26-1110-K  | 110              | DC         | 9200                          | 88.0                 | 121.0          |          | x |   |
| RUC-2022-26-1110-L  | 110              | DC         | 9200                          | 88.0                 | 121.0          |          |   | x |
| RUC-2022-26-1110-KL | 110              | DC         | 9200                          | 88.0                 | 121.0          |          | x | x |
| RUC-2022-26-5120    | 120              | AC 50/60Hz | 1910                          | 96.0                 | 132.0          | x        |   |   |
| RUC-2022-26-5120-K  | 120              | AC 50/60Hz | 1910                          | 96.0                 | 132.0          |          | x |   |
| RUC-2022-26-5120-L  | 120              | AC 50/60Hz | 1910                          | 96.0                 | 132.0          |          |   | x |
| RUC-2022-26-5120-KL | 120              | AC 50/60Hz | 1910                          | 96.0                 | 132.0          |          | x | x |
| RUC-2022-26-5230    | 230              | AC 50/60Hz | 7080                          | 184.0                | 253.0          | x        |   |   |
| RUC-2022-26-5230-K  | 230              | AC 50/60Hz | 7080                          | 184.0                | 253.0          |          | x |   |
| RUC-2022-26-5230-L  | 230              | AC 50/60Hz | 7080                          | 184.0                | 253.0          |          |   | x |
| RUC-2022-26-5230-KL | 230              | AC 50/60Hz | 7080                          | 184.0                | 253.0          |          | x | x |

### RUC 3PST(3NO) AC 50/60Hz & DC coil

| Part Number         | Coil Voltage (V) | Coil Type  | Coil resistance at 20 °C in Ω | Coil operating range |                | Options* |   |   |
|---------------------|------------------|------------|-------------------------------|----------------------|----------------|----------|---|---|
|                     |                  |            |                               | min. (at 20°C)       | max. (at 55°C) | -        | K | L |
| RUC-2023-26-1012    | 12               | DC         | 110                           | 9.6                  | 13.2           | x        |   |   |
| RUC-2023-26-1012-K  | 12               | DC         | 110                           | 9.6                  | 13.2           |          | x |   |
| RUC-2023-26-1012-L  | 12               | DC         | 110                           | 9.6                  | 13.2           |          |   | x |
| RUC-2023-26-1012-KL | 12               | DC         | 110                           | 9.6                  | 13.2           |          | x | x |
| RUC-2023-26-1024    | 24               | DC         | 430                           | 19.2                 | 26.4           | x        |   |   |
| RUC-2023-26-1024-K  | 24               | DC         | 430                           | 19.2                 | 26.4           |          | x |   |
| RUC-2023-26-1024-L  | 24               | DC         | 430                           | 19.2                 | 26.4           |          |   | x |
| RUC-2023-26-1024-KL | 24               | DC         | 430                           | 19.2                 | 26.4           |          | x | x |
| RUC-2023-26-1110    | 110              | DC         | 9200                          | 88.0                 | 121.0          | x        |   |   |
| RUC-2023-26-1110-K  | 110              | DC         | 9200                          | 88.0                 | 121.0          |          | x |   |
| RUC-2023-26-1110-L  | 110              | DC         | 9200                          | 88.0                 | 121.0          |          |   | x |
| RUC-2023-26-1110-KL | 110              | DC         | 9200                          | 88.0                 | 121.0          |          | x | x |
| RUC-2023-26-5120    | 120              | AC 50/60Hz | 1910                          | 96.0                 | 132.0          | x        |   |   |
| RUC-2023-26-5120-K  | 120              | AC 50/60Hz | 1910                          | 96.0                 | 132.0          |          | x |   |
| RUC-2023-26-5120-L  | 120              | AC 50/60Hz | 1910                          | 96.0                 | 132.0          |          |   | x |
| RUC-2023-26-5120-KL | 120              | AC 50/60Hz | 1910                          | 96.0                 | 132.0          |          | x | x |
| RUC-2023-26-5230    | 230              | AC 50/60Hz | 7080                          | 184.0                | 253.0          | x        |   |   |
| RUC-2023-26-5230-K  | 230              | AC 50/60Hz | 7080                          | 184.0                | 253.0          |          | x |   |
| RUC-2023-26-5230-L  | 230              | AC 50/60Hz | 7080                          | 184.0                | 253.0          |          |   | x |
| RUC-2023-26-5230-KL | 230              | AC 50/60Hz | 7080                          | 184.0                | 253.0          |          | x | x |

- = without additional features; **K** = with test button without block function; **L** = with light indicator (LED)

\* other options available upon request

► **BOLD** - Regular stocked items.

# R2M / RY2 / RUC

## Industrial Electromagnetic Relays

### RUC DPST(2NO) contact gap ≥ 3mm AC 50/60Hz & DC coil

| Part Number         | Coil Voltage (V) | Coil Type  | Coil resistance at 20 °C in Ω | Coil operating range |                | Options* |   |   |
|---------------------|------------------|------------|-------------------------------|----------------------|----------------|----------|---|---|
|                     |                  |            |                               | min. (at 20°C)       | max. (at 55°C) | -        | K | L |
| RUC-2052-26-1012    | 12               | DC         | 110                           | 9.6                  | 13.2           | x        |   |   |
| RUC-2052-26-1012-K  | 12               | DC         | 110                           | 9.6                  | 13.2           |          | x |   |
| RUC-2052-26-1012-L  | 12               | DC         | 110                           | 9.6                  | 13.2           |          |   | x |
| RUC-2052-26-1012-KL | 12               | DC         | 110                           | 9.6                  | 13.2           |          | x | x |
| RUC-2052-26-1024    | 24               | DC         | 430                           | 19.2                 | 26.4           | x        |   |   |
| RUC-2052-26-1024-K  | 24               | DC         | 430                           | 19.2                 | 26.4           |          | x |   |
| RUC-2052-26-1024-L  | 24               | DC         | 430                           | 19.2                 | 26.4           |          |   | x |
| RUC-2052-26-1024-KL | 24               | DC         | 430                           | 19.2                 | 26.4           |          | x | x |
| RUC-2052-26-1110    | 110              | DC         | 9200                          | 88.0                 | 121.0          | x        |   |   |
| RUC-2052-26-1110-K  | 110              | DC         | 9200                          | 88.0                 | 121.0          |          | x |   |
| RUC-2052-26-1110-L  | 110              | DC         | 9200                          | 88.0                 | 121.0          |          |   | x |
| RUC-2052-26-1110-KL | 110              | DC         | 9200                          | 88.0                 | 121.0          |          | x | x |
| RUC-2052-26-5120    | 120              | AC 50/60Hz | 1910                          | 96.0                 | 132.0          | x        |   |   |
| RUC-2052-26-5120-K  | 120              | AC 50/60Hz | 1910                          | 96.0                 | 132.0          |          | x |   |
| RUC-2052-26-5120-L  | 120              | AC 50/60Hz | 1910                          | 96.0                 | 132.0          |          |   | x |
| RUC-2052-26-5120-KL | 120              | AC 50/60Hz | 1910                          | 96.0                 | 132.0          |          | x | x |
| RUC-2052-26-5230    | 230              | AC 50/60Hz | 7080                          | 184.0                | 253.0          | x        |   |   |
| RUC-2052-26-5230-K  | 230              | AC 50/60Hz | 7080                          | 184.0                | 253.0          |          | x |   |
| RUC-2052-26-5230-L  | 230              | AC 50/60Hz | 7080                          | 184.0                | 253.0          |          |   | x |
| RUC-2052-26-5230-KL | 230              | AC 50/60Hz | 7080                          | 184.0                | 253.0          |          | x | x |

### RUC 3PST(3NO) contact gap ≥ 3mm AC 50/60Hz & DC coil

| Part Number         | Coil Voltage (V) | Coil Type  | Coil resistance at 20 °C in Ω | Coil operating range |                | Options* |   |   |
|---------------------|------------------|------------|-------------------------------|----------------------|----------------|----------|---|---|
|                     |                  |            |                               | min. (at 20°C)       | max. (at 55°C) | -        | K | L |
| RUC-2053-26-1012    | 12               | DC         | 110                           | 9.6                  | 13.2           | x        |   |   |
| RUC-2053-26-1012-K  | 12               | DC         | 110                           | 9.6                  | 13.2           |          | x |   |
| RUC-2053-26-1012-L  | 12               | DC         | 110                           | 9.6                  | 13.2           |          |   | x |
| RUC-2053-26-1012-KL | 12               | DC         | 110                           | 9.6                  | 13.2           |          | x | x |
| RUC-2053-26-1024    | 24               | DC         | 430                           | 19.2                 | 26.4           | x        |   |   |
| RUC-2053-26-1024-K  | 24               | DC         | 430                           | 19.2                 | 26.4           |          | x |   |
| RUC-2053-26-1024-L  | 24               | DC         | 430                           | 19.2                 | 26.4           |          |   | x |
| RUC-2053-26-1024-KL | 24               | DC         | 430                           | 19.2                 | 26.4           |          | x | x |
| RUC-2053-26-1110    | 110              | DC         | 9200                          | 88.0                 | 121.0          | x        |   |   |
| RUC-2053-26-1110-K  | 110              | DC         | 9200                          | 88.0                 | 121.0          |          | x |   |
| RUC-2053-26-1110-L  | 110              | DC         | 9200                          | 88.0                 | 121.0          |          |   | x |
| RUC-2053-26-1110-KL | 110              | DC         | 9200                          | 88.0                 | 121.0          |          | x | x |
| RUC-2053-26-5120    | 120              | AC 50/60Hz | 1910                          | 96.0                 | 132.0          | x        |   |   |
| RUC-2053-26-5120-K  | 120              | AC 50/60Hz | 1910                          | 96.0                 | 132.0          |          | x |   |
| RUC-2053-26-5120-L  | 120              | AC 50/60Hz | 1910                          | 96.0                 | 132.0          |          |   | x |
| RUC-2053-26-5120-KL | 120              | AC 50/60Hz | 1910                          | 96.0                 | 132.0          |          | x | x |
| RUC-2053-26-5230    | 230              | AC 50/60Hz | 7080                          | 184.0                | 253.0          | x        |   |   |
| RUC-2053-26-5230-K  | 230              | AC 50/60Hz | 7080                          | 184.0                | 253.0          |          | x |   |
| RUC-2053-26-5230-L  | 230              | AC 50/60Hz | 7080                          | 184.0                | 253.0          |          |   | x |
| RUC-2053-26-5230-KL | 230              | AC 50/60Hz | 7080                          | 184.0                | 253.0          |          | x | x |

- = without additional features

K = with test button without block function

L = with light indicator (LED)

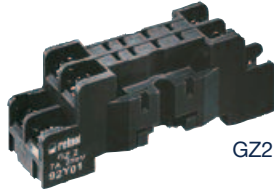
\* Other options available upon request

# R2M / RY2 / RUC

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

### GZ2 (for R2M)

Screw terminals  
 Max. tightening moment  
 for the terminal: 0.7 Nm  
 35 mm rail mount  
 acc. to PN-EN 60715  
 or on panel mounting  
 65.2 x 20 x 25 mm  
 Two poles  
 7 A, 250 V AC



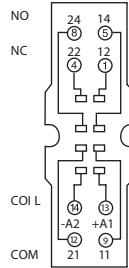
GZ2



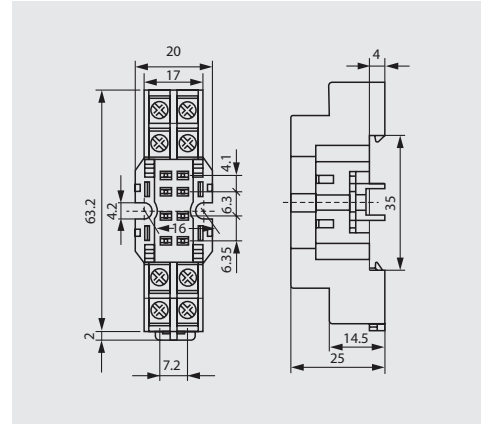
GZ2 1060

GZ2 1111

#### CONNECTION DIAGRAM



#### DIMENSIONS



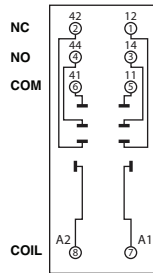
### GZY2G (for RY2)

Screw terminals  
 Max. tightening moment  
 for the terminal: 0.7 Nm  
 35 mm rail mount  
 acc. to PN-EN 60715  
 or on panel mounting  
 78.7 x 28 x 32.4 mm  
 Two poles  
 12 A, 250 V AC

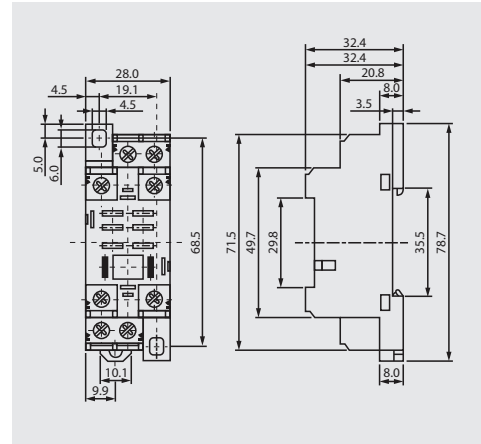


GZY2G

#### CONNECTION DIAGRAM



#### DIMENSIONS



### GUC11 (for RUC)

Screw terminals  
 Max. tightening moment  
 for the terminal: 0.7 Nm  
 35 mm rail mount  
 acc. to PN-EN 60715  
 or on panel mounting  
 82 x 42.2 x 26.5 mm  
 Three poles  
 16 A, 250 V AC

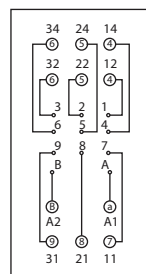


GUC11

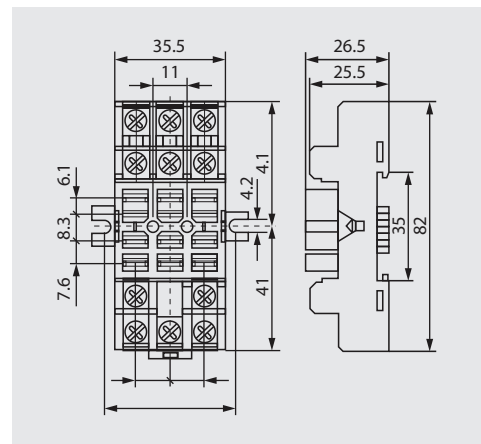


MBA

#### CONNECTION DIAGRAM



#### DIMENSIONS



All accessories are sold separately.



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«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
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