

# 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              | 40 A                               |
| Rated current                  |     | 5A                | 12A               | 16A                                |
| 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                | AC1 | 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

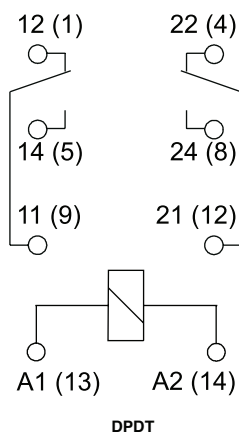
Altech®



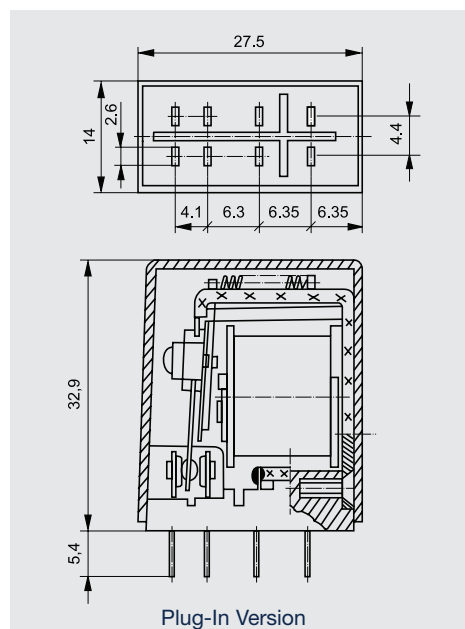
### R2M



#### CONNECTION DIAGRAM

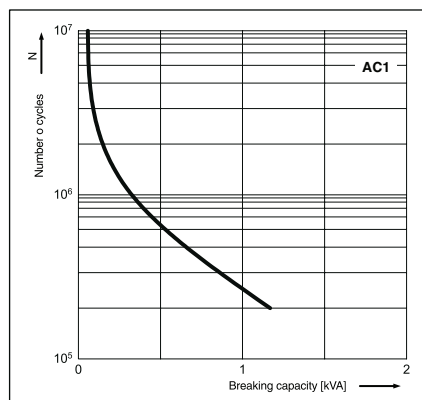


#### DIMENSIONS

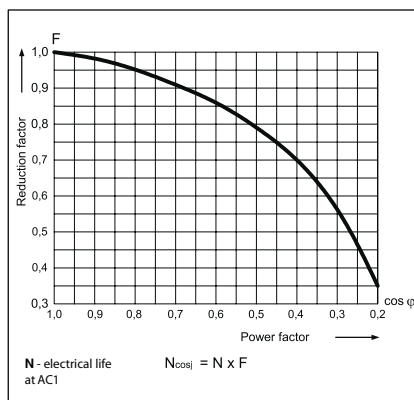


#### LOAD CHARTS

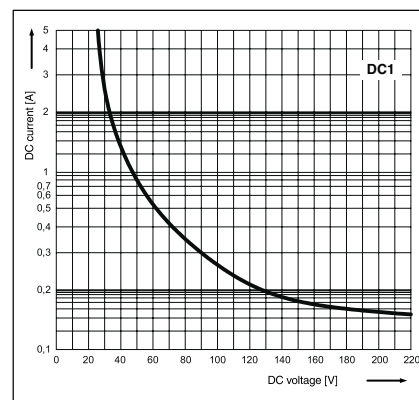
Electrical life at AC resistive load. Switching frequency: 1200 cycles/hour Fig. 1.1



Electrical life reduction factor at AC inductive load Fig. 2.1



Max. DC resistive load breaking capacity Fig. 3.1



# R2M / RY2 / RUC

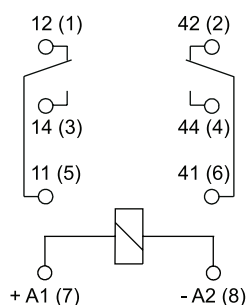
## Industrial Electromagnetic Relays



**RY2**



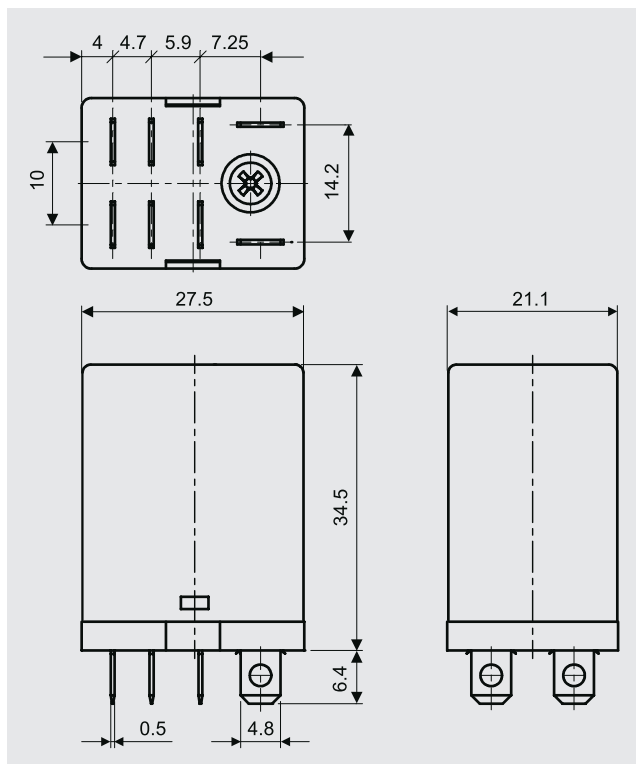
### CONNECTION DIAGRAM



DPDT

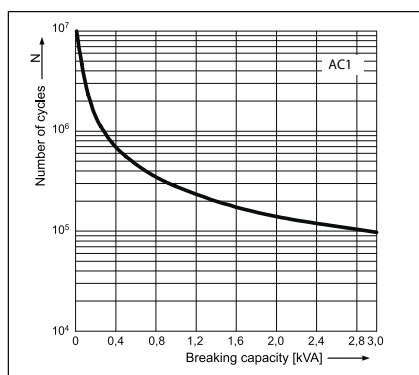
Note: the indicated polarity of the supply refers to the relays with extra equipment D - surge suppression element (diode) - for DC coils only.

### DIMENSIONS

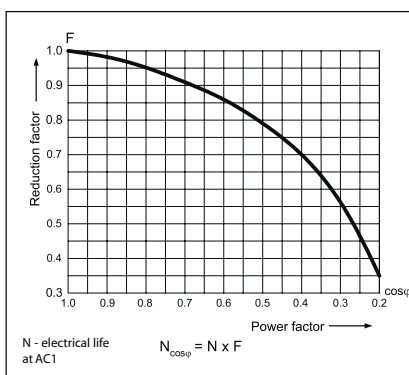


### LOAD CHARTS

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



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



# R2M / RY2 / RUC

## Industrial Electromagnetic Relays

Altech®

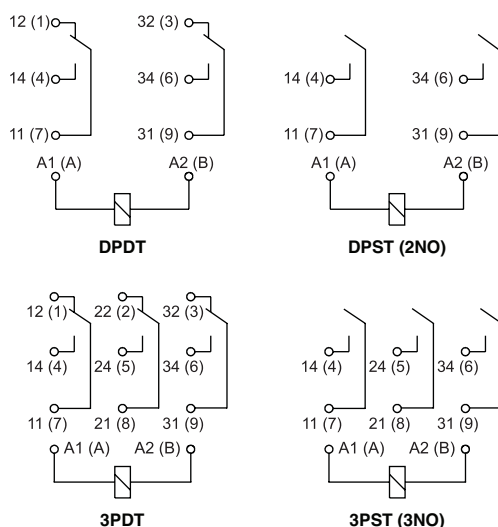


**RUC**

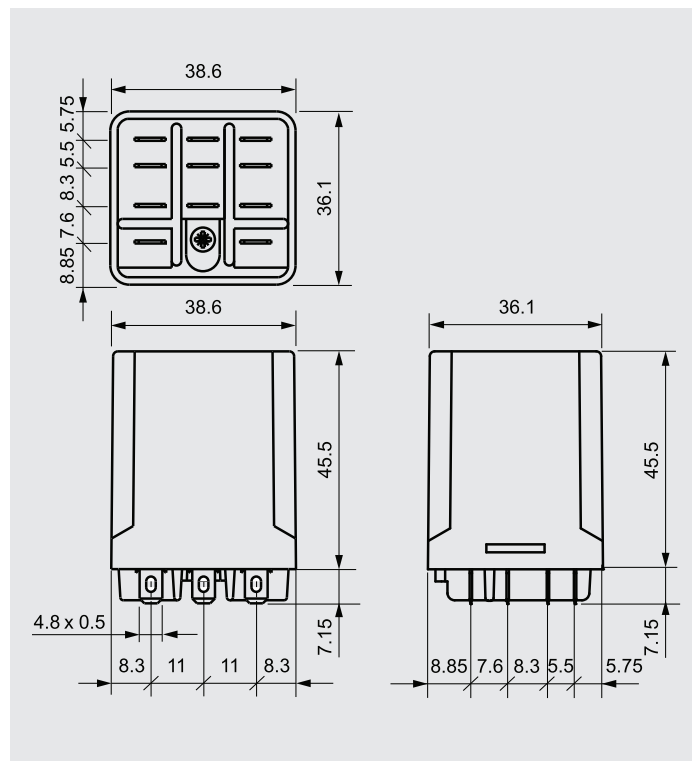
CE E105728



### CONNECTION DIAGRAM



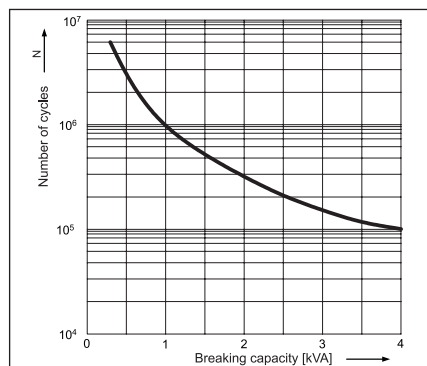
### DIMENSIONS



### LOAD CHARTS

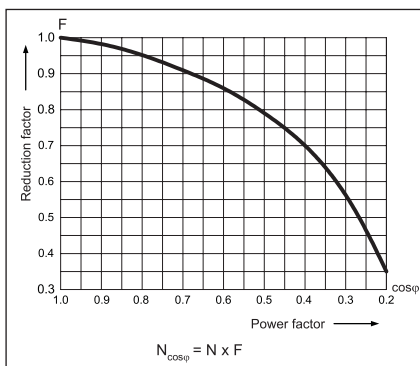
Electrical life at AC resistive load.  
Switching frequency: 1200 cycles/hour

Fig. 1



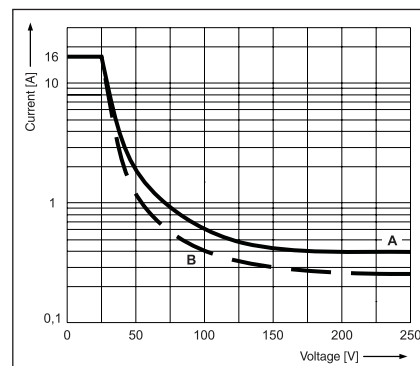
Electrical life reduction factor  
at AC inductive load

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 $\Omega$ | 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 $\Omega$ | 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 $\Omega$ | 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.

# R2M / RY2 / RUC

## Industrial Electromagnetic Relays



### 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<br>(V) | Coil Type  | Coil resistance<br>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<br>(V) | Coil Type  | Coil resistance<br>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)

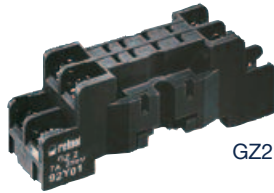
\* Other options available upon request

# R2M / RY2 / RUC

## Industrial Electromagnetic Relays - Plug-in Sockets and Accessories **Altech**

### 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



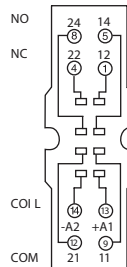
GZ2



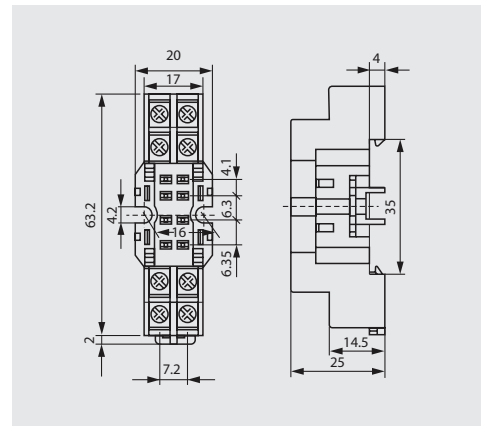
GZ2 1060

GZ2 1111

#### CONNECTION DIAGRAM



#### DIMENSIONS



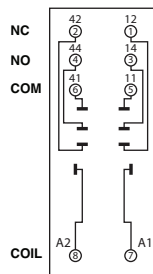
### GZY2G (for RY2)

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

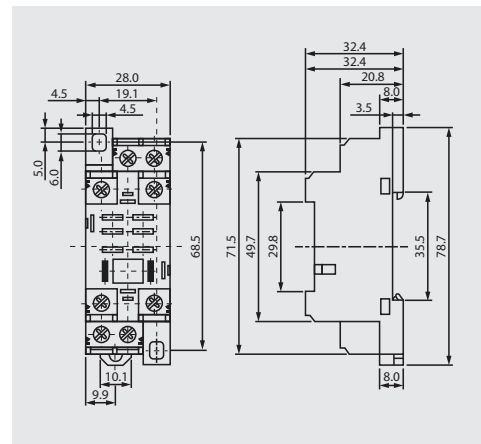


GZY2G

#### 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

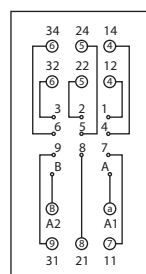


GUC11

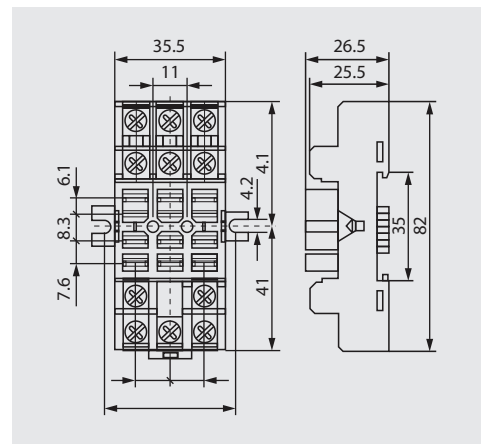


MBA

#### CONNECTION DIAGRAM



#### DIMENSIONS



All accessories are sold separately.

# Mouser Electronics

Authorized Distributor

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## Altech:

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