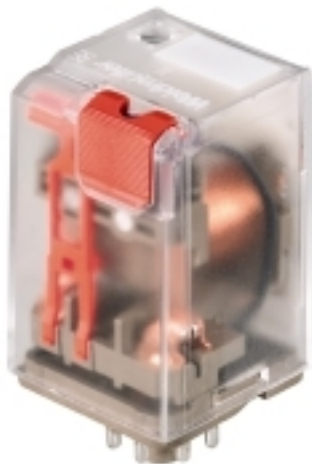


**RRD221024****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image****General ordering data**

|            |                                                                                                                                                                     |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version    | RIDERSERIES RRD, Relay, Number of contacts: 2, CO contact with test button AgNi 90/10, Rated control voltage: 24 V DC, Continuous current: 10 A, Plug-in connection |
| Order No.  | <a href="#">8690370000</a>                                                                                                                                          |
| Type       | RRD221024                                                                                                                                                           |
| GTIN (EAN) | 4032248360994                                                                                                                                                       |
| Qty.       | 25 pc(s).                                                                                                                                                           |

Creation date March 29, 2021 11:07:05 PM CEST

Catalogue status 12.03.2021 / We reserve the right to make technical changes.

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## Technical data

### Dimensions and weights

|                |            |                 |            |
|----------------|------------|-----------------|------------|
| Depth          | 57 mm      | Depth (inches)  | 2.244 inch |
| Height         | 35.5 mm    | Height (inches) | 1.398 inch |
| Net weight     | 81.32 g    | Width           | 35.5 mm    |
| Width (inches) | 1.398 inch |                 |            |

### Temperatures

|                     |                                                |                       |                |
|---------------------|------------------------------------------------|-----------------------|----------------|
| Storage temperature | -40 °C...60 °C                                 | Operating temperature | -40 °C...60 °C |
| Humidity            | 40 °C / 93 % rel. humidity,<br>no condensation |                       |                |

### Rated data UL

|                         |         |
|-------------------------|---------|
| Certificate No. (cURus) | E224238 |
|-------------------------|---------|

### Control side

|                                |                       |                       |         |
|--------------------------------|-----------------------|-----------------------|---------|
| Coil resistance                | 475 $\Omega \pm 10\%$ | Power rating          | 1.2 W   |
| Pull-in/drop-out voltage, typ. | 18 V / 2.4 V DC       | Rated control voltage | 24 V DC |
| Rated current DC               | 50.5 mA               |                       |         |

### Load side

|                                         |                                         |                            |              |
|-----------------------------------------|-----------------------------------------|----------------------------|--------------|
| AC switching capacity (resistive), max. | 2500 VA                                 | Continuous current         | 10 A         |
| DC switching capacity (resistive), max. | 240 W @ 24 V                            | Inrush current             | 20 A / 20 ms |
| Max. switching frequency at rated load  | 0.1 Hz                                  | Max. switching voltage, AC | 400 V        |
| Min. switching power                    | 1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V | Rated switching voltage    | 250 V AC     |
| Switch-off delay                        | $\leq 10$ ms                            | Switch-on delay            | $\leq 15$ ms |

### Contact data

|              |                                            |                         |                                       |
|--------------|--------------------------------------------|-------------------------|---------------------------------------|
| Contact type | 2 CO contact with test button (AgNi 90/10) | Mechanical service life | 20 x 10 <sup>6</sup> switching cycles |
|--------------|--------------------------------------------|-------------------------|---------------------------------------|

### General data

|             |                |                                      |     |
|-------------|----------------|--------------------------------------|-----|
| Test button | yes (lockable) | Mechanical switch position indicator | Yes |
| Colour      | Transparent    | UL 94 flammability rating            | V-2 |

### Insulation coordination

|                                                |                                |                                              |                                |
|------------------------------------------------|--------------------------------|----------------------------------------------|--------------------------------|
| Creepage and clearance distance input – output | $\leq 3$ mm                    | Dielectric strength of neighbouring contacts | 2.5 kV <sub>eff</sub> / 1 Min. |
| Dielectric strength of open contact            | 1.5 kV <sub>eff</sub> / 1 min. | Dielectric strength, Input/Output            | 2.5 kV <sub>eff</sub> / 1 Min. |
| Impulse withstand voltage                      | 2.5 kV (1.2/50 $\mu$ s)        | Insulating material group                    | IIIa                           |
| Pollution severity                             | 2                              | Protection degree                            | IP20                           |
| Rated voltage                                  | 250 V                          | Surge voltage category                       | III                            |

### Further details of approvals / standards

|                       |                    |                         |                |
|-----------------------|--------------------|-------------------------|----------------|
| Standards             | IEC 61810-1, UL508 | Certificate No. (CSA)   | 249409-2426937 |
| Certificate No. (VDE) | 40011757           | Certificate No. (cURus) | E224238        |

RRD221024

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## Technical data

### Connection data

|                        |                    |
|------------------------|--------------------|
| Wire connection method | Plug-in connection |
|------------------------|--------------------|

### Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC001437    | ETIM 7.0    | EC001437    |
| ECLASS 9.0  | 27-37-16-01 | ECLASS 9.1  | 27-37-16-01 |
| ECLASS 10.0 | 27-37-16-01 | ECLASS 11.0 | 27-37-16-01 |

### Approvals

Approvals



|                       |         |
|-----------------------|---------|
| ROHS                  | Conform |
| UL File Number Search | E224238 |

### Downloads

|                                             |                                                                         |
|---------------------------------------------|-------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">EU Konformitätserklärung / EU Declaration of Conformity</a> |
| Engineering Data                            | <a href="#">EPLAN, WSCAD</a>                                            |

**RRD221024**

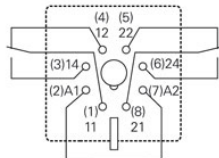
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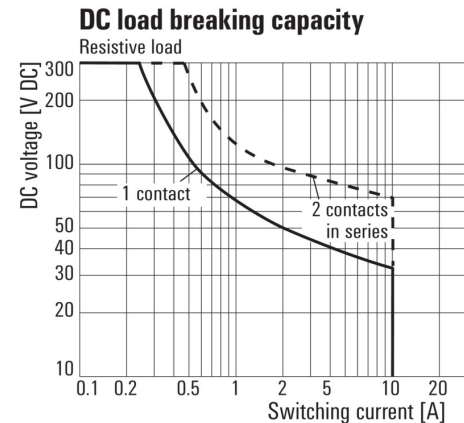
## Drawings

### Wiring diagram

Circuit diagram  
View of connections

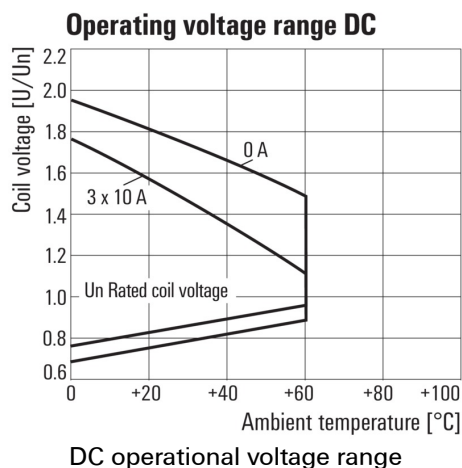


### Graph

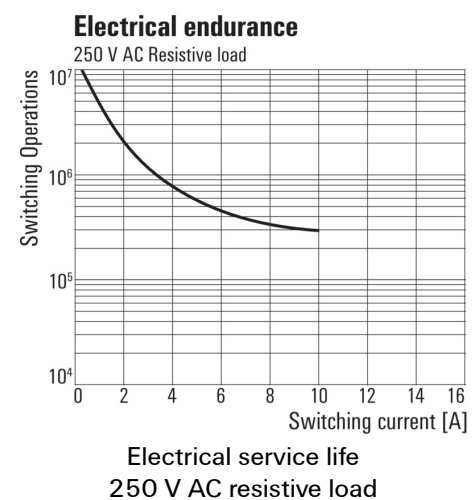


DC load limit curve  
Resistive load

### Graph



### Graph



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[www.weidmueller.com](http://www.weidmueller.com)**Drawings****Miscellaneous**

|                                                                                                                                                                                       |     |  |  |  |                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--|--|--|--------------------------------|
|                                                                                                                                                                                       | RRD |  |  |  |                                |
| <b>Type</b><br><b>RIDER Round</b>                                                                                                                                                     |     |  |  |  |                                |
| <b>Type of contact</b><br>2 2CO, 8-pole<br>3 3CO, 11-pole                                                                                                                             |     |  |  |  |                                |
| <b>Contact material</b><br>2 AgNi 90/10                                                                                                                                               |     |  |  |  |                                |
| <b>Type of construction</b><br>1 DC coil with test button<br>3 DC coil with test button and bi-polar LED<br>6 AC coil with test button<br>8 AC coil with test button and bi-polar LED |     |  |  |  |                                |
|                                                                                                                                                                                       |     |  |  |  | <b>Coil voltage</b>            |
|                                                                                                                                                                                       |     |  |  |  | 006 6 V DC                     |
|                                                                                                                                                                                       |     |  |  |  | 012 12 V DC                    |
|                                                                                                                                                                                       |     |  |  |  | 024 24 V DC                    |
|                                                                                                                                                                                       |     |  |  |  | 048 48 V DC                    |
|                                                                                                                                                                                       |     |  |  |  | 060 60 V DC                    |
|                                                                                                                                                                                       |     |  |  |  | 110 110 V DC                   |
|                                                                                                                                                                                       |     |  |  |  | 220 220 V DC                   |
|                                                                                                                                                                                       |     |  |  |  | 0C4 24 V DC+ free wheel diode  |
|                                                                                                                                                                                       |     |  |  |  | 0E8 48 V DC+ free wheel diode  |
|                                                                                                                                                                                       |     |  |  |  | 0G0 60 V DC+ free wheel diode  |
|                                                                                                                                                                                       |     |  |  |  | 1B0 110 V DC+ free wheel diode |
|                                                                                                                                                                                       |     |  |  |  | 2C0 220 V DC+ free wheel diode |
|                                                                                                                                                                                       |     |  |  |  | 006 6 V AC                     |
|                                                                                                                                                                                       |     |  |  |  | 012 12 V AC                    |
|                                                                                                                                                                                       |     |  |  |  | 024 24 V AC                    |
|                                                                                                                                                                                       |     |  |  |  | 048 48 V AC                    |
|                                                                                                                                                                                       |     |  |  |  | 115 115 V AC                   |
|                                                                                                                                                                                       |     |  |  |  | 230 230 V AC                   |

Type codes