

## Power Relay RM C/D

- 1 pole 30/32 A, 1 form X, double make, NO or 1 form Z, double make + double break, NO + NC
- Switching capacity up to 12800VA
- DC or AC coil
- Push-to-test button
- Chassis mount

Typical applications  
Battery chargers, heating control.



## Approvals

UL E214025, VDE Cert. No. 40003144 for AgNi-versions

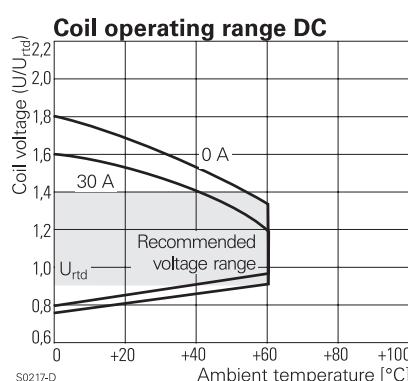
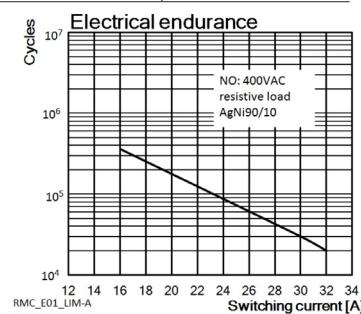
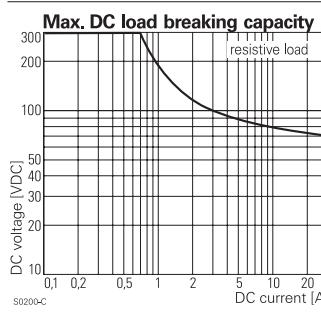
Technical data of approved types on request.

## Contact Data

|   | RMC                      | RMD               |
|---|--------------------------|-------------------|
| Contact arrangement                                   | 1 form Z,<br>1 NO + 1 NC | 1 form X,<br>1 NO |
| Rated voltage   | 400VAC                   |                   |
| Max. switching voltage                                | 440VAC                   |                   |
| Rated current   | 30A/32A (VDE)            |                   |
| Limiting making current, max. 20ms                    | 60A                      |                   |
| Switching power                                       | 12000VA                  |                   |
| Contact material                                      | AgCdO, AgNi 90/10        |                   |
| Contact style   | single bridging contact  |                   |
| Min. recommended contact load                         | 24VDC/100mA              |                   |
| Frequency of operation,<br>with/without load, DC coil | 360/6000h <sup>-1</sup>  |                   |
| Operate/release time max., DC coil                    | 20/20ms                  |                   |
| Bounce time max., form A/form B, DC coil              | 4/6ms                    |                   |

## Contact ratings

| Type                         | Contact                             | Load                  | Cycles             |
|------------------------------|-------------------------------------|-----------------------|--------------------|
| <b>EN 61810</b>              |                                     |                       |                    |
| RMC/D X of Z (NO)            | AgNi DC coil                        | 32A, 400VAC res. 40°C | 20x10 <sup>3</sup> |
| RMC/D Y of Z (NC), AgNi      | 32A, 400VAC res. 40°C               |                       | 10x10 <sup>3</sup> |
| RMC/D X of Z (NO)            | AgNi DC coil                        | 30A, 400VAC res. 50°C | 10x10 <sup>3</sup> |
| RMC/D X of Z (NO)            | AgNi AC coil                        | 30A, 400VAC res. 40°C | 10x10 <sup>3</sup> |
| <b>UL 508</b>                |                                     |                       |                    |
| RMC/D X/Y (NO/NC),<br>AgCdO, | 30 A, 277 VAC, general purpose 50°C | 10x10 <sup>3</sup>    |                    |
| RMC/D X/Y (NO/NC)            | 30 A, 415 VAC, resistive 50°C       | 10x10 <sup>3</sup>    |                    |
| RMC/D X (of Z / NO), AgNi    | 120 VAC, 0,75 HP 50°C               | 10x10 <sup>3</sup>    |                    |
| RMC/D X/Y (NO/NC)            | 240 VAC, 2 HP 50°C                  | 6x10 <sup>3</sup>     |                    |
| Mechanical endurance         |                                     |                       |                    |
| DC coil                      | 10x10 <sup>6</sup> operations       |                       |                    |
| AC coil                      | 10x10 <sup>6</sup> operations       |                       |                    |



## Power Relay RM C/D (Continued)

### Coil Data (continued)

#### Coil versions, AC coil

| Coil code | Rated voltage | Operate voltage 50/60Hz | Release voltage 50/60Hz | Coil resistance $\Omega \pm 10\%^{12)}$ | Rated coil power 50/60Hz |
|-----------|---------------|-------------------------|-------------------------|---|--------------------------|
| STD       | LED           | VAC                     | VAC                     |   |                          |
| 524       | R24           | 24                      | 19.2/20.4               | 7.2                                     | 80                       |
| 548       | R48           | 48                      | 38.4/40.8               | 14.4                                    | 320                      |
| 560       | R60           | 60                      | 48.0/51.0               | 18.0                                    | 500                      |
| 615       | S15           | 115                     | 92.0/97.8               | 34.5                                    | 1850                     |
| 730       | T30           | 230                     | 184.0/195.5             | 69.0                                    | 7500                     |
| 900       | V00           | 400                     | 320.0/340.0             | 120.0                                   | 23500 <sup>2)</sup>      |
|           |               |                         |                         |   | 2.61/2.20                |

2) Coil resistance  $\pm 15\%$ .

All figures are given for coil without pre-energization, at ambient temperature +23°C.

### Insulation Data

|  | RMC                    | RMD      |
|--|------------------------|----------|
| Initial dielectric strength between open contacts        | 1500Vrms               | 2000Vrms |
| between contact and coil                                 | 2500Vrms               | 2500Vrms |
| Initial surge withstand voltage between contact and coil | 6000V (1.2/50 $\mu$ s) |          |
| Clearance/creepage between contact and coil              | $\geq 4.0/14.9$ mm     |          |
| Material group of insulation parts                       | IIIa                   |          |

### Other Data

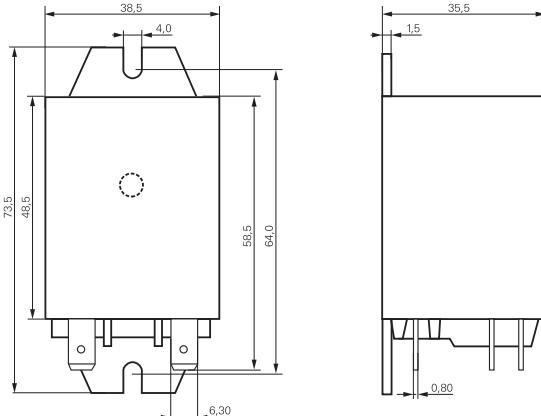
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at [www.te.com/customersupport/rohssupportcenter](http://www.te.com/customersupport/rohssupportcenter)

|   |                          |
|---|--------------------------|
| Ambient temperature for mounting/handling in operation    | -20 to +40°C             |
| DC coil   | -40 to +60°C             |
| AC coil   | -40 to +40°C             |
| Cold storage, IEC 60068-2-1                               | Test Aa (-40°C/16h)      |
| Dry heat, IEC 60068-2-2                                   | Test B (+85°C/16h)       |
| Damp heat cyclic, IEC 60068-2-30, Db, Variant 1           | 12/12h +25/55°C 2 cycles |
| Category of environmental protection IEC 61810            | RTI - dust protected     |
| Vibration resistance (functional) form A (NO)/form B (NC) | 10/5 g, 30 to 150Hz      |
| Terminal type   | quick connect (QC)       |
| Cover retention   |                          |
| pull force  | 100N                     |
| push force  | 100N                     |
| Weight  | 81g                      |
| Packaging unit  | 10 pcs.                  |

### Dimensions

Dimensions in mm

Cover with mounting brackets, 6.3mm quick connect terminals



## Power Relay RM C/D (Continued)

## Product code structure

 Typical product code **RM** **D** **0** **5** **730**

## Type

**RM** Power Relay RMC/D

## Contact arrangement

**C** 1 form Z (1 NO + 1 NC), 30A (32A at AgNi versions with DC coil)  
**D** 1 form X (1 NO), 30A (32A at AgNi versions with DC coil)

## Version

**0** AgCdO, without test button      **3** AgCdO, with test button  
**2** AgNi90/10, without test button      **7** AgNi90/10, with test button

## Enclosure

**5** Cover with mounting brackets, 6.3mm quick connect terminals

## Coil

Coil code: please refer to coil versions table

| Product code | Contacts     | Cont. material | Version             | Enclosure                         | Coil    | Coil   | Part number |
|--------------|--------------|----------------|---------------------|-----------------------------------|---------|--------|-------------|
| RMC05024     | 1 form Z,    | AgCdO          | Without test button | Mounting brackets quick c. 6.3 mm | DC coil | 24VDC  | 4-1393844-5 |
| RMC05524     | 1 NO + 1 NC  | AgCdO          |                     |                                   | AC coil | 24VAC  | 1393146-5   |
| RMC05615     | contact      | AgCdO          |                     |                                   |         | 115VAC | 8-1393147-7 |
| RMC05730     |              | AgCdO          |                     |                                   |         | 230VAC | 1393146-6   |
| RMC25024     |              | AgNi           |                     |                                   | DC coil | 24VDC  | 5-1415546-6 |
| RMC25048     |              | AgNi           |                     |                                   |         | 48VDC  | 5-1415546-7 |
| RMC25730     |              | AgNi           |                     |                                   | AC coil | 230VAC | 5-1415544-9 |
| RMC35024     |              | AgCdO          | With test button    |                                   | DC coil | 24VDC  | 1393146-7   |
| RMD05024     | 1 form X,    | AgCdO          | Without test button |                                   |         | 24VDC  | 1393146-9   |
| RMD05524     | 1 NO contact | AgCdO          |                     |                                   | AC coil | 24VAC  | 1-1393146-1 |
| RMD05615     |              | AgCdO          |                     |                                   |         | 115VAC | 1415009-1   |
| RMD05730     |              | AgCdO          |                     |                                   |         | 230VAC | 4-1393844-7 |
| RMD25012     |              | AgNi           |                     |                                   | DC coil | 12VDC  | 5-1415546-8 |
| RMD25024     |              | AgNi           |                     |                                   |         | 24VDC  | 5-1415546-9 |
| RMD25730     |              | AgNi           |                     |                                   | AC coil | 230VAC | 6-1415544-0 |
| RMD35024     |              | AgCdO          | With test button    |                                   | DC coil | 24VDC  | 2-1419136-2 |
| RMD35730     |              | AgCdO          |                     |                                   | AC coil | 230VAC | 1393097-5   |

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