

## DRMKIT 24VDC 2CO LD/PB

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany

www.weidmueller.com

### Product image



Similar to illustration

- Mounted kit consisting relay, socket and retaining clip
- 100 % function tested
- 100 % check of the dielectric strenght between input - output
- 2 CO contacts
- Optional with mechanical status indicator
- Optional Test button with coloured identification of coils (AC red / DC blue)
- Bright status LED (AC coil: red / DC coil: green)

### General ordering data

|            |  |
|------------|--|
| Version    | D-SERIES DRM, Relay module, Number of contacts: 2, CO contact AgNi flash gold-plated, Rated control voltage: 24 V DC, Continuous current: 10 A, Screw connection, Test button available: Yes |
| Order No.  | <a href="#">1542460000</a>   |
| Type       | DRMKIT 24VDC 2CO LD/PB   |
| GTIN (EAN) | 4050118347401  |
| Qty.       | 10 items   |

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**Technical data**

**Approvals**

Approvals



ROHS Conform

**Dimensions and weights**

|            |         |                 |             |
|------------|---------|-----------------|-------------|
| Depth      | 66.8 mm | Depth (inches)  | 2.6299 inch |
| Height     | 79.9 mm | Height (inches) | 3.1457 inch |
| Width      | 27.2 mm | Width (inches)  | 1.0709 inch |
| Net weight | 93.35 g |                 |             |

**Temperatures**

|                       |                |                     |                |
|-----------------------|----------------|---------------------|----------------|
| Storage temperature   | -40 °C...70 °C | Ambient temperature | -40 °C...60 °C |
| Operating temperature |                |                     |                |

**Environmental Product Compliance**

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 7a                                   |
| REACH SVHC                           | Lead 7439-92-1                       |
| SCIP                                 | 611f3393-31e7-4ef5-8360-95619a629f27 |

**Control side**

|                       |           |                    |                     |
|-----------------------|-----------|--------------------|---------------------|
| Rated control voltage | 24 V DC   | Rated current DC   | 36.9 mA             |
| Power rating          | 0.9 W     | Coil resistance    | 650 Ω ± 10 %        |
| Status indicator      | Green LED | Protective circuit | Free-wheeling diode |

**Load side**

|   |                                       |   |                                       |
|---|---------------------------------------|---|---------------------------------------|
| Rated switching voltage                 | 250 V AC                              | Continuous current                      | 10 A                                  |
| Max. switching frequency at rated load  | 0.1 Hz                                | Max. switching voltage, AC              | 250 V                                 |
| Inrush current                          | 20 A / 50 ms                          | AC switching capacity (resistive), max. | 2500 VA                               |
| DC switching capacity (resistive), max. | 240 W @ 24 V                          | Switch-on delay                         | <20 ms                                |
| Switch-off delay                        | <20 ms                                | Contact type                            | 2 CO contact (AgNi flash gold-plated) |
| Mechanical service life                 | 20 x 10 <sup>6</sup> switching cycles | Min. switching power                    | 10 mA @ 12 V, 100 mA @ 5 V            |

**General data**

|                                      |   |                |
|--------------------------------------|---|----------------|
| Mounting rail                        | TS 35                                       |                |
| Test button available                | Yes   |                |
| Version of test button               | Lockable test button, Momentary test button |                |
| Mechanical switch position indicator | Yes   |                |
| Colour                               | black                                       |                |
| UL94 flammability rating component   | Component                                   | Housing        |
|                                      | UL94 flammability rating                    | V-2            |
|                                      | Component                                   | Mounting foot  |
|                                      | UL94 flammability rating                    | HB             |
|                                      | Component                                   | Retaining clip |
|                                      | UL94 flammability rating                    | HB             |

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|                          |                        |
|--------------------------|------------------------|
| Component                | Relay cover            |
| UL94 flammability rating | V-2                    |
| Component                | Relay baseplate        |
| UL94 flammability rating | V-0                    |
| Component                | Relay status indicator |
| UL94 flammability rating | HB                     |
| Component                | Relay test button      |
| UL94 flammability rating | HB                     |

**Insulation coordination**

|   |                    |  |                    |
|---|--------------------|--|--------------------|
| Rated voltage   | 250 V              | Pollution severity                               | 2                  |
| Surge voltage category  | III                | Insulating material group                        | C                  |
| Clearance and creepage distances for control side - load side | ≥ 5.5 mm           | Dielectric strength for control side - load side | 1.8 kVeff / 1 min. |
| Dielectric strength of neighbouring contacts                  | 1 kVeff / 1 min    | Dielectric strength of open contact              | 1 kVeff / 1 min    |
| Impulse withstand voltage                                     | 4.8 kV (1.2/50 µs) | Protection degree                                | IP20               |

**Further details of approvals / standards**

|                               |                             |                              |                             |
|-------------------------------|-----------------------------|------------------------------|-----------------------------|
| Relevant relay                | <a href="#">DRM270024LT</a> | Relevant base                | <a href="#">SCM 2CO ECO</a> |
| Certificate no. (cURus) relay | E312083                     | Certificate no. (cURus) base | E312083                     |

**Connection data**

|   |                     |   |                     |
|---|---------------------|---|---------------------|
| Wire connection method  | Screw connection    | Stripping length, rated connection  | 7 mm                |
| Tightening torque, min.   | 0.5 Nm              | Tightening torque, max.   | 0.7 Nm              |
| Clamping range, min.  | 0.5 mm <sup>2</sup> | Clamping range, max.  | 2.5 mm <sup>2</sup> |
| Wire cross-section, solid, min.   | 0.5 mm <sup>2</sup> | Wire cross-section, solid, max.   | 2.5 mm <sup>2</sup> |
| Wire connection cross section, finely stranded, min.                                    | 0.5 mm <sup>2</sup> | Wire connection cross section, finely stranded, max.                                    | 2.5 mm <sup>2</sup> |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.5 mm <sup>2</sup> | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 2.5 mm <sup>2</sup> |
| Conductor cross-section, flexible, AEH (DIN 46228-1), min.                              | 0.5 mm <sup>2</sup> | Conductor cross-section, flexible, AEH (DIN 46228-1), max.                              | 2.5 mm <sup>2</sup> |
| Wire connection cross section, finely stranded, two clampable wires, min.               | 0.5 mm <sup>2</sup> | Wire cross-section, finely stranded, two clampable wires, max.                          | 1 mm <sup>2</sup>   |
| Blade size  | size PH1            |   |                     |

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC001437    | ETIM 9.0    | EC001437    |
| ETIM 10.0   | EC001437    | ECLASS 14.0 | 27-37-16-01 |
| ECLASS 15.0 | 27-37-16-01 |             |             |

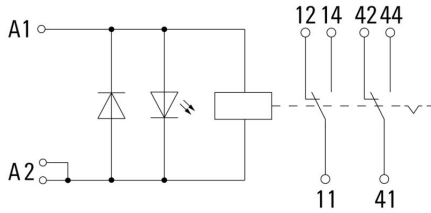
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Drawings

Wiring diagram



Graph



DC load limit curve Resistive load

Graph



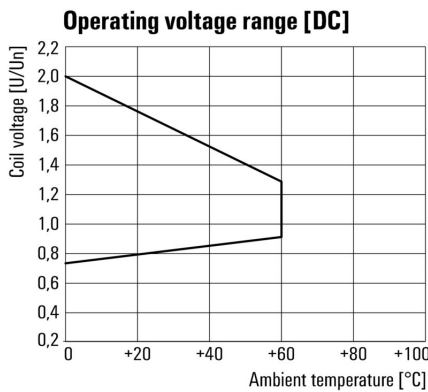
Electrical service life

Graph



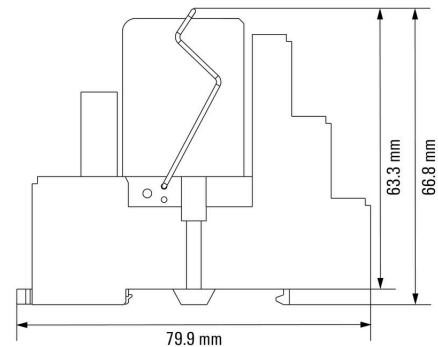
Derating curve

Graph



DC operational voltage range

Dimensional drawing



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**Drawings**

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**Miscellaneous**



Type codes