

**DRM270048****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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

Similar to illustration

Individual relays within the D-SERIES DRM

- 2 CO contacts
- Optional AC or DC coils

**General ordering data**

|            |  |
|------------|--|
| Version    | D-SERIES DRM, Relay, Number of contacts: 2, CO contact, AgNi flash gold-plated, Rated control voltage: 48 V DC, Continuous current: 10 A, Plug-in connection |
| Order No.  | <a href="#">7760056052</a>   |
| Type       | DRM270048  |
| GTIN (EAN) | 4032248856039  |
| Qty.       | 20 pc(s).  |

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## Technical data

### Dimensions and weights

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Depth      | 35.7 mm | Depth (inches)  | 1.406 inch |
| Height     | 27.4 mm | Height (inches) | 1.079 inch |
| Width      | 21 mm   | Width (inches)  | 0.827 inch |
| Net weight | 35.3 g  |                 |            |

### Temperatures

|                     |  |                       |                |
|---------------------|--|-----------------------|----------------|
| Storage temperature | -40 °C...70 °C                           | Operating temperature | -40 °C...60 °C |
| Humidity            | 35...85 % rel. humidity, no condensation |                       |                |

### Rated data UL

|                         |         |
|-------------------------|---------|
| Certificate No. (cURus) | E312083 |
|-------------------------|---------|

### Control side

|                       |         |                  |                        |
|-----------------------|---------|------------------|------------------------|
| Rated control voltage | 48 V DC | Rated current DC | 18.5 mA                |
| Power rating          | 0.9 W   | Coil resistance  | 2600 $\Omega \pm 10\%$ |
| Coil tolerance        | 10 %    | Status indicator | No                     |

### Load side

|   |                                       |   |                                       |
|---|---------------------------------------|---|---------------------------------------|
| Rated switching voltage                 | 250 V AC                              | Continuous current                      | 10 A                                  |
| Max. switching frequency at rated load  | 0.1 Hz                                | 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

|                                      |                          |                        |
|--------------------------------------|--------------------------|------------------------|
| Test button available                | No                       |                        |
| Mechanical switch position indicator | Yes                      |                        |
| Colour                               | Transparent              |                        |
| UL94 flammability rating component   | Component                | Relay cover            |
|                                      | UL94 flammability rating | V-2                    |
|                                      | Component                | Relay baseplate        |
|                                      | UL94 flammability rating | V-0                    |
|                                      | Component                | Relay status indicator |
|                                      | UL94 flammability rating | HB                     |

### Insulation coordination

|  |                                |   |                             |
|--|--------------------------------|---|-----------------------------|
| Rated voltage                                    | 250 V                          | Pollution severity  | 2                           |
| Surge voltage category                           | III                            | Clearance and creepage distances for control side - load side | $\geq 5.5$ mm               |
| Dielectric strength for control side - load side | 1.8 kV <sub>eff</sub> / 1 min. | Dielectric strength of neighbouring contacts                  | 1 kV <sub>eff</sub> / 1 min |
| Dielectric strength of open contact              | 1 kV <sub>eff</sub> / 1 min    | Impulse withstand voltage                                     | 6 kV (1.2/50 $\mu$ s)       |
| Protection degree                                | IP20                           |   |                             |

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## Technical data

## Further details of approvals / standards

|                         |         |
|-------------------------|---------|
| Certificate No. (cURus) | E312083 |
|-------------------------|---------|

## Connection data

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

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC001437    | ETIM 7.0    | EC001437    |
| ETIM 8.0    | EC001437    | ETIM 9.0    | 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 |
| ECLASS 12.0 | 27-37-16-01 | ECLASS 13.0 | 27-37-16-01 |

## Environmental Product Compliance

|            |   |
|------------|---|
| REACH SVHC | / |
|------------|---|

## Approvals

Approvals



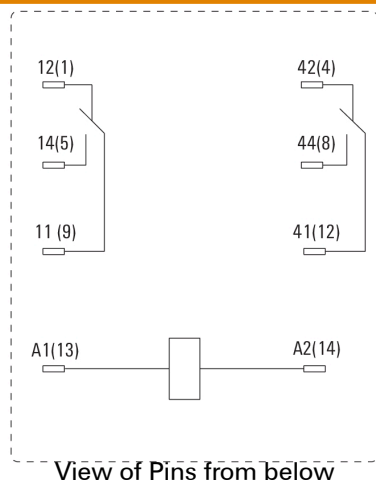
|                         |            |
|-------------------------|------------|
| ROHS                    | Conform    |
| UL File Number Search   | UL Website |
| Certificate No. (cURus) | E312083    |

## Downloads

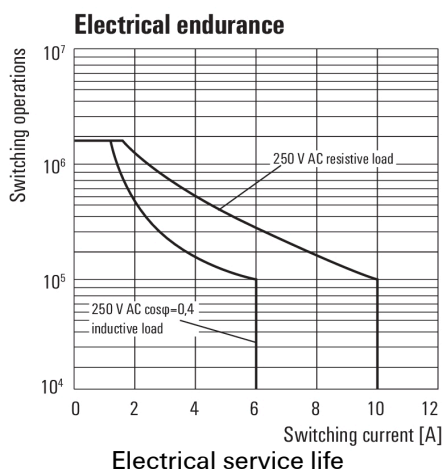
|   |  |
|---|--|
| Approval/Certificate/Document of Conformity | <a href="#">EU Konformitätserklärung / EU Declaration of Conformity</a>  |
| Engineering Data                            | <a href="#">CAD data – STEP</a>  |
| Product Change Notification                 | <a href="#">20230124 Product consolidation D-SERIES DRM relays</a><br><a href="#">20230124 Produktkonsolidierung D-SERIES DRM Relais</a> |
| User Documentation                          | <a href="#">FL_D-SERIES_DRM2CO_LOAD_GUIDE</a>  |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>   |
| Brochures                                   |  |

## Drawings

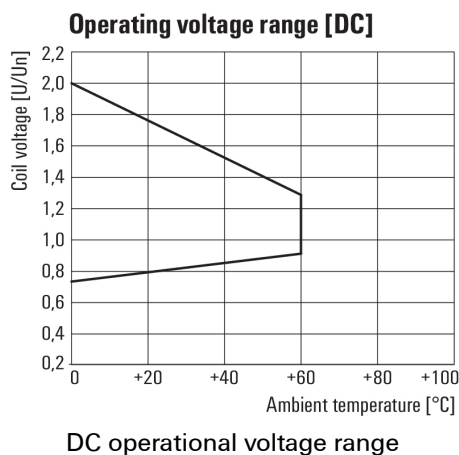
## Wiring diagram



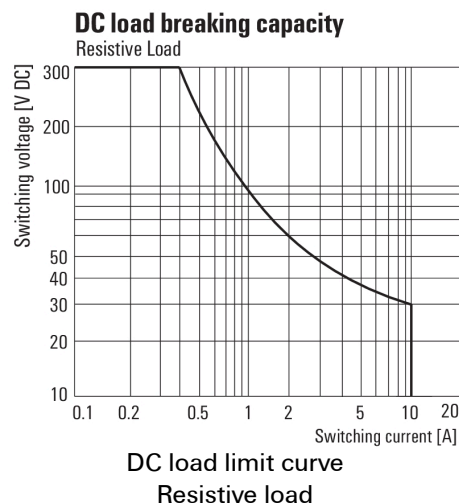
## Graph



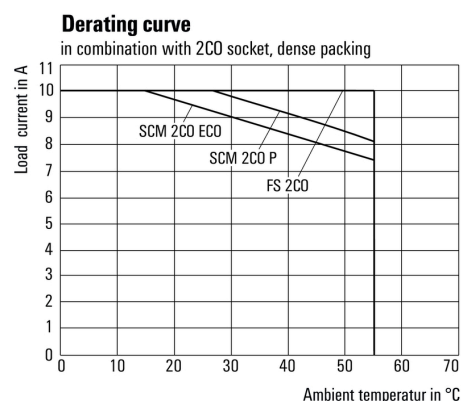
## Graph



## Graph



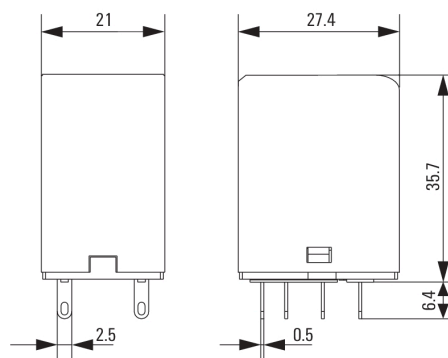
## Graph



**Derating curve**

Relay in combination with base

**Dimensional drawing**



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## Accessories

## Blank



ESG is the tried-and-tested marker in MultiCard format for use on many well-known electrical devices. The result is high-quality device marking with a high-contrast appearance.

Various types are available for devices from manufacturers like Siemens, ABB, Beckhoff etc.

Advantages at a glance:

- Tags for universal usage, self-adhesive or clip-on tags, depending on type
- For aligned equipment, e.g. circuit breakers, we supply ESG markers for clipping onto tag rails
- Individual laser-quality printing according to specifications

**For custom printing:** Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

## General ordering data

|            |                            |  |
|------------|----------------------------|--|
| Type       | ESG 9/26 SCM ECO MC NE ... | Version  |
| Order No.  | <a href="#">1520990000</a> | ESG, Device markers x 26 mm, PA 66, Colour: yellow |
| GTIN (EAN) | 4050118327861              |  |
| Qty.       | 80 pc(s).                  |  |
| Type       | ESG 9/26 SCM ECO MC NE ... | Version  |
| Order No.  | <a href="#">1521000000</a> | ESG, Device markers x 26 mm, PA 66, Colour: grey   |
| GTIN (EAN) | 4050118327878              |  |
| Qty.       | 80 pc(s).                  |  |
| Type       | ESG 9/26 SCM ECO MC NE ... | Version  |
| Order No.  | <a href="#">1520980000</a> | ESG, Device markers x 26 mm, PA 66, Colour: white  |
| GTIN (EAN) | 4050118327939              |  |
| Qty.       | 80 pc(s).                  |  |

## ESG 6/15

**Guaranteed long service life: ESG**

The multi-colour and multi-format labels have a strong adhesive layer to ensure the best possible adhesion to the underlying surface. Double laminated polyester makes the basic material very thin and yet extremely tear-resistant.

**Your benefits with MultiMark**

- "Different materials for various requirements"
- Can be used with equipment from many manufacturers
- Device markers with a familiar design

## General ordering data

|            |                            |                                       |
|------------|----------------------------|---------------------------------------|
| Type       | ESG 6/15 MM WS             | Version                               |
| Order No.  | <a href="#">2619940000</a> | ESG, Device markers, 6 x 15 mm, white |
| GTIN (EAN) | 4050118626148              |                                       |
| Qty.       | 3,000 pc(s).               |                                       |

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## Accessories

### LED / free-wheel diode



Pluggable protective modules for the D-SERIES relay sockets, with optional protective functions.

- With green LED and free-wheeling diode

### General ordering data

|            |                            |   |
|------------|----------------------------|---|
| Type       | RIM 2 24/60VDC             | Version   |
| Order No.  | <a href="#">7760056016</a> | D-SERIES, LED module with freewheel diode, Rated control voltage: |
| GTIN (EAN) | 4032248878123              | 24...60 V DC, Plug-in connection                                  |
| Qty.       | 10 pc(s).                  |   |

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### General ordering data

|            |                            |   |
|------------|----------------------------|---|
| Type       | ESG 6/15 K MC NE WS        | Version   |
| Order No.  | <a href="#">1880100000</a> | ESG, Device markers x 15 mm, PA 66, Colour: white, Self-adhesive  |
| GTIN (EAN) | 4032248478781              |   |
| Qty.       | 200 pc(s).                 |   |
| Type       | ESG 6/15 K MC NE GE        | Version   |
| Order No.  | <a href="#">1880130000</a> | ESG, Device markers x 15 mm, PA 66, Colour: yellow, Self-adhesive |
| GTIN (EAN) | 4032248478910              |   |
| Qty.       | 200 pc(s).                 |   |

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## Accessories

## Protection modules



Pluggable protective modules for the D-SERIES relay sockets, with optional protective functions.

- With free-wheeling diode or RC filter

## General ordering data

|            |                            |  |
|------------|----------------------------|--|
| Type       | RIM 1 6/230VDC             | Version  |
| Order No.  | <a href="#">7760056169</a> | D-SERIES, Free-wheeling diode, Rated control voltage: 6...230 V, Plug- |
| GTIN (EAN) | 4032248967728              | in connection  |
| Qty.       | 10 pc(s).                  |  |

## Custom printing



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## General ordering data

|            |                            |   |
|------------|----------------------------|---|
| Type       | ESG 9/26 SCM ECO MC SDR    | Version   |
| Order No.  | <a href="#">1525800000</a> | ESG, Device markers x 26 mm, PA 66, Colour: To customer |
| GTIN (EAN) | 4050118331875              | specification   |
| Qty.       | 80 pc(s).                  |   |

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## Accessories

### Sockets



Relay sockets for the D-SERIES DRM relays

- 2 and 4 CO contacts
- Screw and PUSH IN connection
- Standard and low heights

### General ordering data

|            |                            |  |
|------------|----------------------------|--|
| Type       | FS 2CO                     | Version  |
| Order No.  | <a href="#">7760056106</a> | D-SERIES DRM, Relay socket, Number of contacts: 2, CO contact, |
| GTIN (EAN) | 4032248855582              | Continuous current: 12 A, Screw connection                     |
| Qty.       | 10 pc(s).                  |  |
| Type       | FS 4CO                     | Version  |
| Order No.  | <a href="#">7760056107</a> | D-SERIES DRM, Relay socket, Number of contacts: 4, CO contact, |
| GTIN (EAN) | 4032248855575              | Continuous current: 10 A, Screw connection                     |
| Qty.       | 10 pc(s).                  |  |
| Type       | SCM 4CO ECO                | Version  |
| Order No.  | <a href="#">7760056264</a> | D-SERIES DRM, Relay socket, Number of contacts: 4, CO contact, |
| GTIN (EAN) | 6944169662973              | Continuous current: 6 A, Screw connection                      |
| Qty.       | 10 pc(s).                  |  |
| Type       | SCM 2CO ECO                | Version  |
| Order No.  | <a href="#">7760056263</a> | D-SERIES DRM, Relay socket, Number of contacts: 2, CO contact, |
| GTIN (EAN) | 6944169662966              | Continuous current: 12 A, Screw connection                     |
| Qty.       | 10 pc(s).                  |  |
| Type       | SCM 4CO P                  | Version  |
| Order No.  | <a href="#">7760056363</a> | D-SERIES DRM, Relay socket, Number of contacts: 4, CO contact, |
| GTIN (EAN) | 6944169772276              | Continuous current: 6 A, PUSH IN                               |
| Qty.       | 10 pc(s).                  |  |
| Type       | SCM 2CO P                  | Version  |
| Order No.  | <a href="#">7760056362</a> | D-SERIES DRM, Relay socket, Number of contacts: 2, CO contact, |
| GTIN (EAN) | 6944169772269              | Continuous current: 12 A, PUSH IN                              |
| Qty.       | 10 pc(s).                  |  |



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## Accessories

## LED



Pluggable protective modules for the D-SERIES relay sockets, with optional protective functions.

- With green LED

## General ordering data

|            |                            |  |
|------------|----------------------------|--|
| Type       | RIM 3 24/60VUC             | Version  |
| Order No.  | <a href="#">7760056018</a> | D-SERIES, LED module, Rated control voltage: 24...60 V UC, Plug-in |
| GTIN (EAN) | 4032248878130              | connection   |
| Qty.       | 10 pc(s).                  |  |

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|            |                            |   |
|------------|----------------------------|---|
| Type       | ESG 6/17 K MC NE GE        | Version   |
| Order No.  | <a href="#">1880110000</a> | ESG, Device markers x 17 mm, PA 66, Colour: yellow, Self-adhesive |
| GTIN (EAN) | 4032248478798              |   |
| Qty.       | 200 pc(s).                 |   |
| Type       | ESG 6/17 K MC NE WS        | Version   |
| Order No.  | <a href="#">1880120000</a> | ESG, Device markers x 17 mm, PA 66, Colour: white, Self-adhesive  |
| GTIN (EAN) | 4032248478804              |   |
| Qty.       | 200 pc(s).                 |   |

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## Accessories

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**General ordering data**

|            |                            |                                       |
|------------|----------------------------|---------------------------------------|
| Type       | ESG 6/17 MM WS             | Version                               |
| Order No.  | <a href="#">2005100000</a> | ESG, Device markers, 6 x 17 mm, white |
| GTIN (EAN) | 4050118390728              |                                       |
| Qty.       | 3,000 pc(s).               |                                       |

**Retaining clips**

Retaining clip for D-SERIES DRM relays

- Metal and plastic retaining clip

**General ordering data**

|            |                            |                              |
|------------|----------------------------|------------------------------|
| Type       | SCM CLIP P                 | Version                      |
| Order No.  | <a href="#">7760056367</a> | D-SERIES DRM, Retaining clip |
| GTIN (EAN) | 6944169773334              |                              |
| Qty.       | 5 pc(s).                   |                              |

|            |                            |                          |
|------------|----------------------------|--------------------------|
| Type       | DRM/DRL CLIP M             | Version                  |
| Order No.  | <a href="#">7760056108</a> | D-SERIES, Retaining clip |
| GTIN (EAN) | 4032248855568              |                          |
| Qty.       | 10 pc(s).                  |                          |

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## Drawings

## Miscellaneous



Type codes