

**DRM570048****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

- 4 CO contacts
- Optional AC or DC coils

**General ordering data**

|            |                                                                                                                                                             |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version    | D-SERIES DRM, Relay, Number of contacts: 4, CO contact, AgNi flash gold-plated, Rated control voltage: 48 V DC, Continuous current: 5 A, Plug-in connection |
| Order No.  | <a href="#">7760056080</a>                                                                                                                                  |
| Type       | DRM570048                                                                                                                                                   |
| GTIN (EAN) | 4032248855148                                                                                                                                               |
| 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 | 30.492 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 $\Omega \pm 10\%$ |
| Status indicator      | No      |                  |                        |

### Load side

|                                         |                                       |                                         |                                       |
|-----------------------------------------|---------------------------------------|-----------------------------------------|---------------------------------------|
| Rated switching voltage                 | 250 V AC                              | Continuous current                      | 5 A                                   |
| Max. switching frequency at rated load  | 0.1 Hz                                | Max. switching voltage, AC              | 250 V                                 |
| Inrush current                          | 10 A / 50 ms                          | AC switching capacity (resistive), max. | 1250 VA                               |
| DC switching capacity (resistive), max. | 120 W @ 24 V                          | Switch-on delay                         | < 20 ms                               |
| Switch-off delay                        | < 20 ms                               | Contact type                            | 4 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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[www.weidmueller.com](http://www.weidmueller.com)**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    |
| ETIM 10.0   | 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 | ECLASS 14.0 | 27-37-16-01 |
| ECLASS 15.0 | 27-37-16-01 |             |             |

**Environmental Product Compliance**

|                        |                             |
|------------------------|-----------------------------|
| RoHS Compliance Status | Compliant without exemption |
|------------------------|-----------------------------|

|            |                       |
|------------|-----------------------|
| REACH SVHC | No SVHC above 0.1 wt% |
|------------|-----------------------|

**Approvals**

Approvals



|                         |                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals MAMID         | <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319230/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319230/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319260/-T1z1mm-S800/</a> |
| 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_DRM4CO_LOAD_GUIDE</a>                                                                                            |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                                                                                 |
| Brochures                                   |                                                                                                                                          |

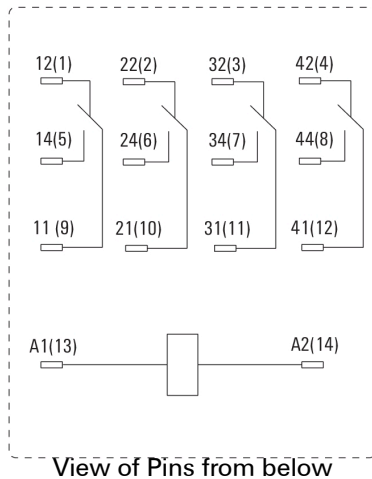
# DRM570048

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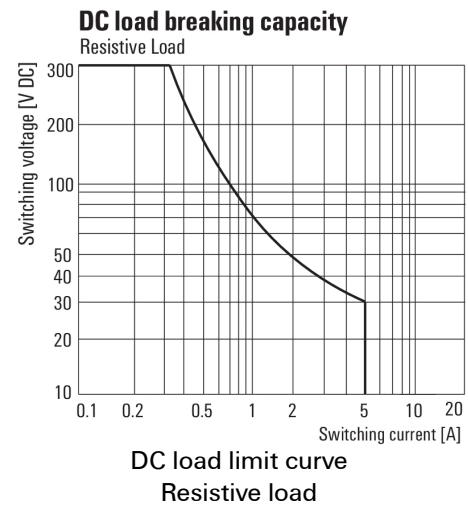
[www.weidmueller.com](http://www.weidmueller.com)

## Drawings

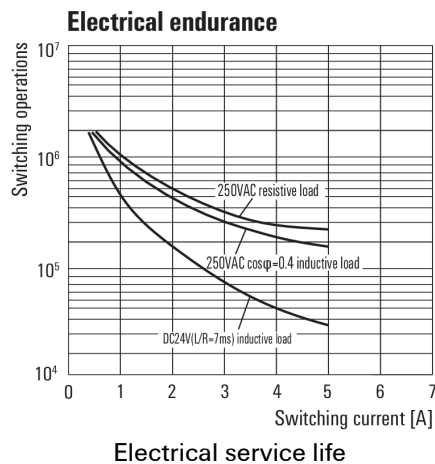
### Wiring diagram



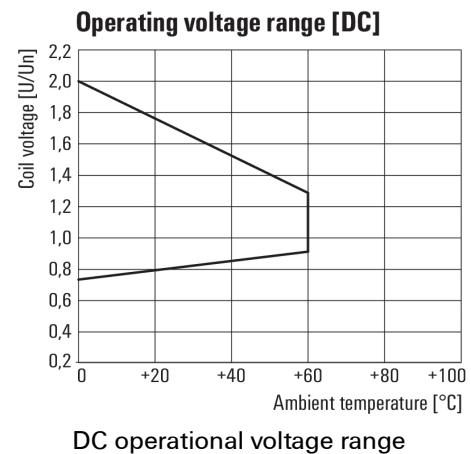
### Graph



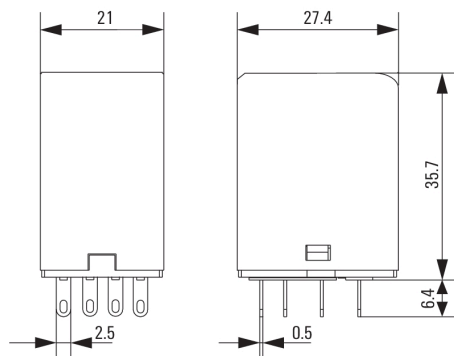
### Graph



### Graph



### Dimensional drawing



## DRM570048

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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 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 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).                  |                                                                |

### 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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## 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="#">1520980000</a> | ESG, Device markers x 26 mm, PA 66, Colour: white  |
| GTIN (EAN) | 4050118327939              |                                                    |
| Qty.       | 80 pc(s).                  |                                                    |
| 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).                  |                                                    |

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## Accessories

### 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).                  |                                                         |

### 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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[www.weidmueller.com](http://www.weidmueller.com)**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).                  |                                                                   |

**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).                  |                                                                        |



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

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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

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## General ordering data

|            |                            |                                                                   |
|------------|----------------------------|-------------------------------------------------------------------|
| 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).                 |                                                                   |

## 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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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****ESG 6/17****Guaranteed long service life: ESG**

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- Can be used with equipment from many manufacturers
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**General ordering data**

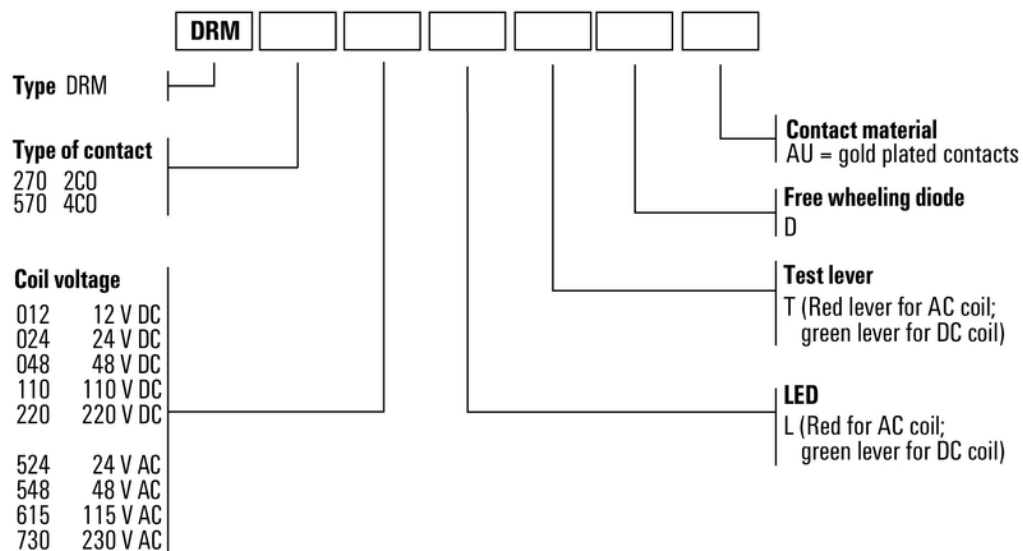
|            |                            |                                       |
|------------|----------------------------|---------------------------------------|
| Type       | ESG 6/17 MM WS             | Version                               |
| Order No.  | <a href="#">2005100000</a> | ESG,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

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

Type codes