

**DRM270024****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: 24 V DC, Continuous current: 10 A, Plug-in connection |
| Order No.  | <a href="#">7760056051</a>                                                                                                                                   |
| Type       | DRM270024                                                                                                                                                    |
| GTIN (EAN) | 4032248856046                                                                                                                                                |
| Qty.       | 20 pc(s).                                                                                                                                                    |

Creation date March 29, 2021 8:42:20 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          | 35.7 mm    | Depth (inches)  | 1.406 inch |
| Height         | 27.4 mm    | Height (inches) | 1.079 inch |
| Net weight     | 34.95 g    | Width           | 21 mm      |
| Width (inches) | 0.827 inch |                 |            |

**Temperatures**

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

**Environmental Product Compliance**

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

**Rated data UL**

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

**Control side**

|                                |                        |                       |         |
|--------------------------------|------------------------|-----------------------|---------|
| Coil resistance                | 650 $\Omega \pm 10 \%$ | Power rating          | 0.9 W   |
| Pull-in/drop-out voltage, typ. | 18 V / 2.4 V DC        | Rated control voltage | 24 V DC |
| Rated current DC               | 37.8 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 / 50 ms               |
| Max. switching frequency at rated load  | 0.1 Hz       | Min. switching power | 10 mA @ 12 V, 100 mA @ 5 V |
| Rated switching voltage                 | 250 V AC     | Switch-off delay     | $\leq 20$ ms               |
| Switch-on delay                         | $\leq 20$ ms |                      |                            |

**Contact data**

|                         |                                       |                    |                      |
|-------------------------|---------------------------------------|--------------------|----------------------|
| Contact type            | 2 CO contact (AgNi flash gold-plated) | Contact resistance | $\leq 50$ m $\Omega$ |
| Mechanical service life | 20 x 10 <sup>6</sup> switching cycles |                    |                      |

**General data**

|                                      |                          |                        |  |
|--------------------------------------|--------------------------|------------------------|--|
| Test button                          | 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                     |  |

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## Technical data

### Insulation coordination

|                                                |                                             |                                              |                                                |
|------------------------------------------------|---------------------------------------------|----------------------------------------------|------------------------------------------------|
| Creepage and clearance distance input – output | $\geq 5.5 \text{ mm}$                       | Dielectric strength of neighbouring contacts | $1 \text{ kV}_{\text{eff}} / 1 \text{ min}$    |
| Dielectric strength of open contact            | $1 \text{ kV}_{\text{eff}} / 1 \text{ min}$ | Dielectric strength, Input/Output            | $1.8 \text{ kV}_{\text{eff}} / 1 \text{ min.}$ |
| Impulse withstand voltage                      | 6 kV (1.2/50 $\mu\text{s}$ )                | Pollution severity                           | 2                                              |
| Protection degree                              | IP20                                        | Rated voltage                                | 250 V                                          |
| Surge voltage category                         | III                                         |                                              |                                                |

### Further details of approvals / standards

|           |                                                                                      |                         |         |
|-----------|--------------------------------------------------------------------------------------|-------------------------|---------|
| Standards | IEC 61810-1, EN 60664-1:2007, EN 61000-6-2:2005, EN 61000-6-4:2007 + A1:2011, UL 508 | Certificate No. (cURus) | E312083 |
|-----------|--------------------------------------------------------------------------------------|-------------------------|---------|

### 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 | E312083 |

### Downloads

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

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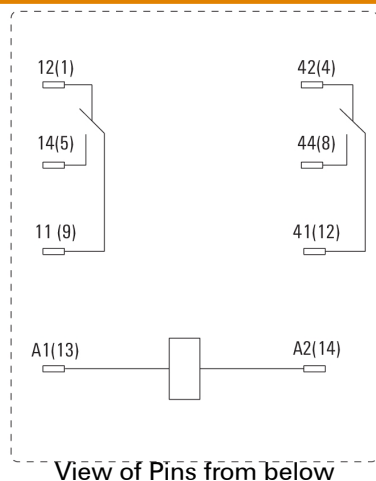
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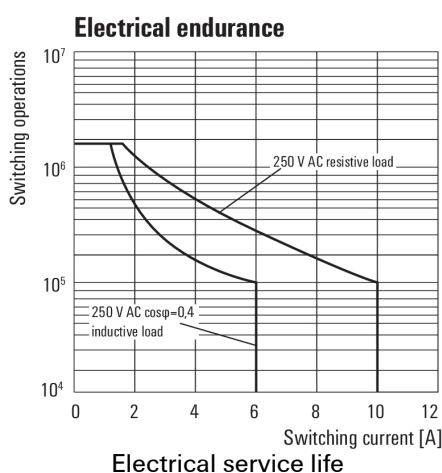
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## Drawings

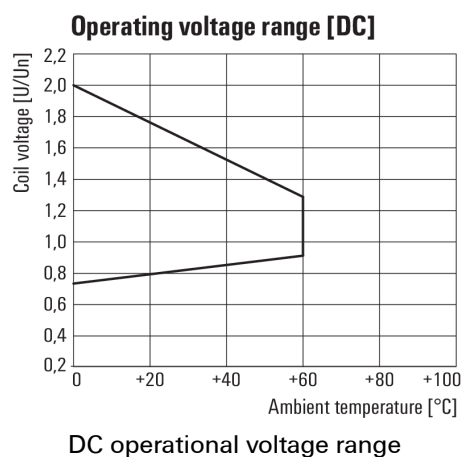
## Wiring diagram



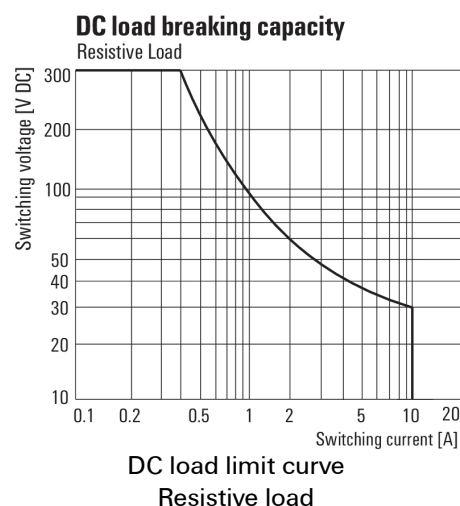
## Graph



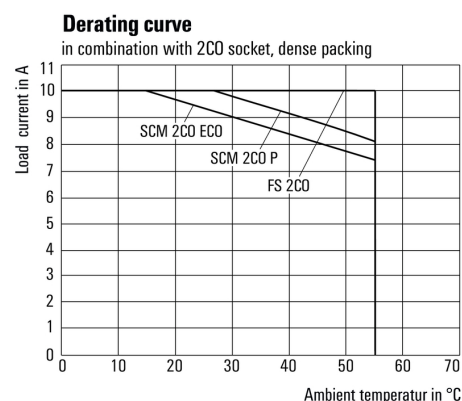
## Graph



## Graph



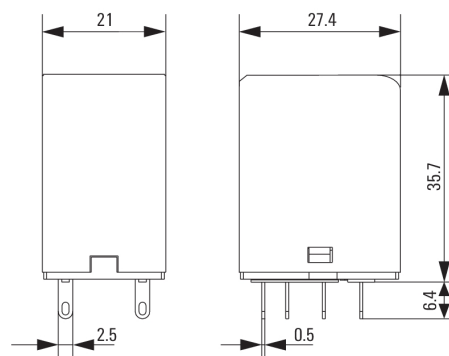
## Graph



Derating curve

Relay in combination with base

**Dimensional drawing**

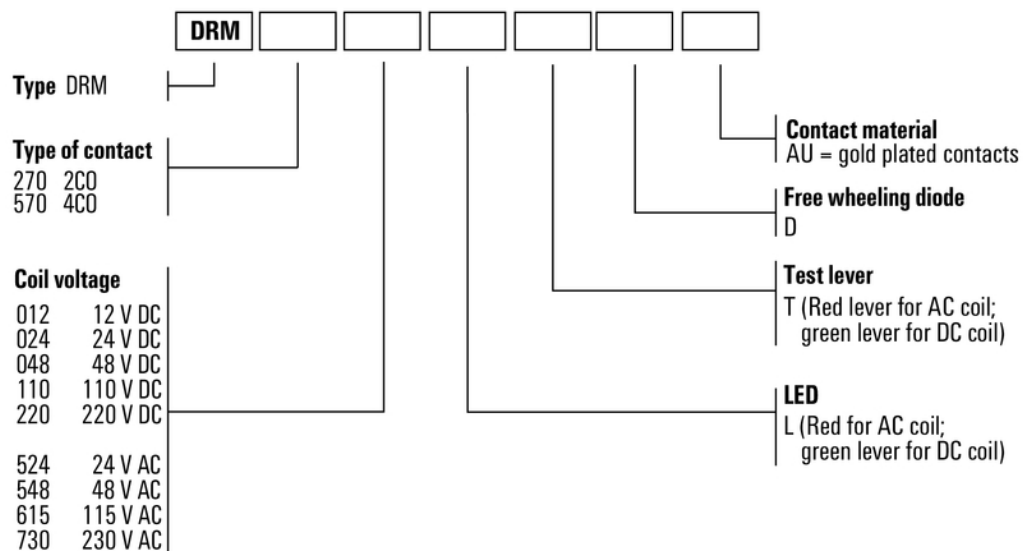


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Type codes