

D-SERIES DRM
DRM270024LD

Weidmüller Interface GmbH & Co. KG
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Product image

Similar to illustration

Relay from the D-SERIES DRM.

- 2 or 4 CO contacts
- Compact design
- Wide range of coil voltages
- Optional test button (AC red, DC blue)
- Optional with integrated status display (AC red, DC green)
- and/or free-wheel diode

General ordering data

Type	DRM270024LD
Order No.	7760056077
Version	D-SERIES DRM, Relay, No. of contacts: 2, CO contact, AgNi 0,15 µm Au, Rated control voltage: 24 V DC, Continuous current: 10 A, Plug-in connection
GTIN (EAN)	4032248855780
Qty.	20 pc(s).

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Technical data
Dimensions and weights

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

Temperatures

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

Input

Rated control voltage	24 V DC	Rated current DC	36.9 mA
Power rating	0.9 W	Pull-in/drop-out voltage, typ.	18 V / 2.4 V DC
Coil resistance	650 Ω ± 10 %	Status indicator	Green LED
Protective circuit	Free-wheel diode		

Output

Rated switching voltage	250 V AC	Max. switching voltage, AC	250 V
Continuous current	10 A	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
Min. switching power	10 mA @ 12 V, 100 mA @ 5 V	Max. switching frequency at rated load	0.1 Hz

Contact data

Contact type	2 CO contact (AgNi 0,15 µm Au)	Contact resistance	≤ 50 mΩ
Mechanical service life	20 x 10 ⁶ switching cycles		

General data

Test button	No	Mechanical switch position indicator	Yes
Colour	Transparent	UL 94 flammability rating	V-0

Insulation coordination

Rated voltage	250 V	Surge voltage category	III
Pollution severity	2	Protection degree	IP20
Dielectric strength input – output	1.8 kV _{eff} / 1 min.	Creepage and clearance distance input – output	≥ 5.5 mm
Dielectric strength of neighbouring contacts	1 kV _{eff} / 1 min	Dielectric strength of open contact	1 kV _{eff} / 1 min
Impulse withstand voltage	6 kV (1.2/50 µs)		

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Technical data
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
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Classifications

ETIM 3.0	EC001437	ETIM 5.0	EC001437
ETIM 6.0	EC001437	eClass 6.2	27-37-16-01
eClass 7.1	27-37-16-01	eClass 8.1	27-37-16-01
eClass 9.0	27-37-16-01	eClass 9.1	27-37-16-01

Approvals

Approvals



ROHS	Conform
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Downloads

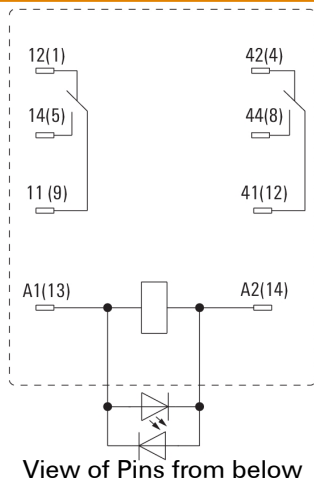
Approval/Certificate/Document of Conformity	DE_PA_5600_160310_001.pdf
Brochure/Catalogue	CAT 4.2 ELECTR 18/19 EN
Engineering Data	EPLAN, WSCAD
Engineering Data	STEP

D-SERIES DRM DRM270024LD

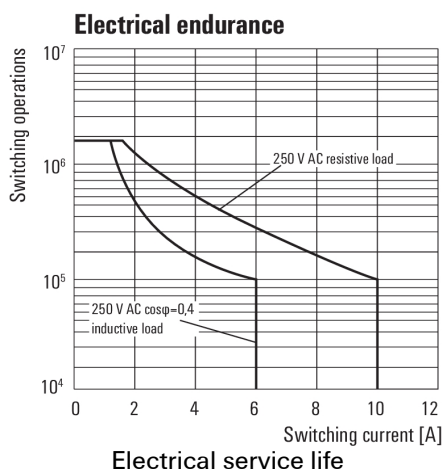
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Drawings

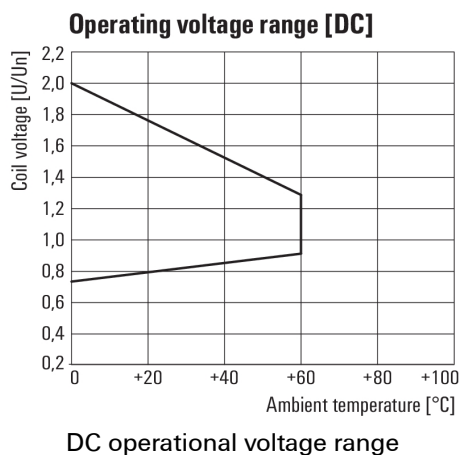
Wiring diagram



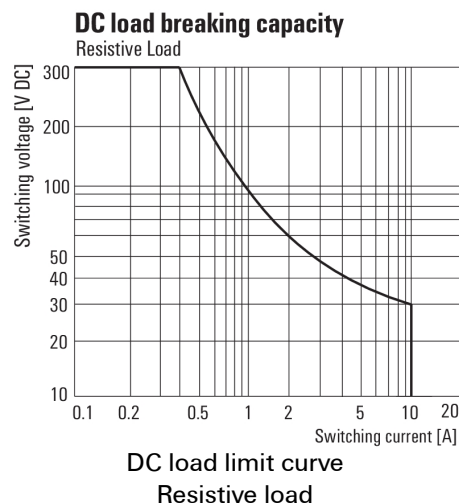
Graph



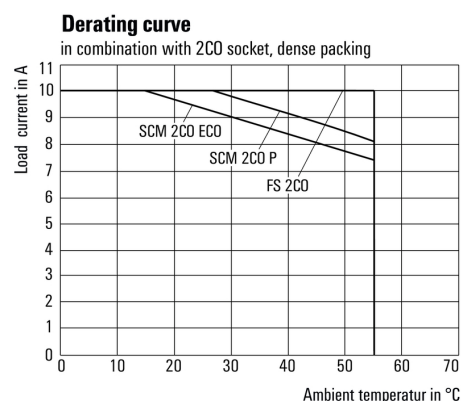
Graph



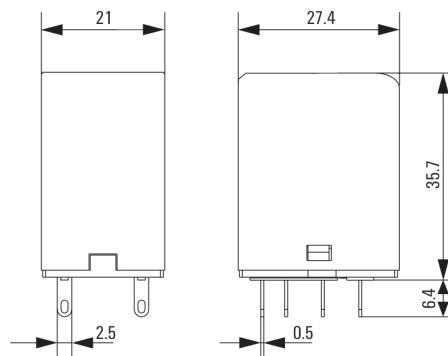
Graph



Graph



Dimensional drawing



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Mating connector (fully pluggable)
Base


Accessories for D-SERIES relays include:

- Relay bases
- LED / Protective modules
- Metal retaining clips

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
SCM 2CO ECO	7760056263	D-SERIES DRM, Relay base, No. of contacts: 2 CO contact, Continuous current: 12 A, Screw connection	6944169662966	10 pc(s).
FS 4CO	7760056107	D-SERIES DRM, Relay base, No. of contacts: 4, CO contact, Continuous current: 10 A, Screw connection	4032248855575	10 pc(s).
SCM 2CO P	7760056362	D-SERIES DRM, Relay base, No. of contacts: 2 CO contact, Continuous current: 12 A, PUSH IN with actuator	6944169772269	10 pc(s).
FS 2CO	7760056106	D-SERIES DRM, Relay base, No. of contacts: 2, CO contact, Continuous current: 12 A, Screw connection	4032248855582	10 pc(s).
SCM 4CO ECO	7760056264	D-SERIES DRM, Relay base, No. of contacts: 4 CO contact, Continuous current: 6 A, Screw connection	6944169662973	10 pc(s).
SCM 4CO P	7760056363	D-SERIES DRM, Relay base, No. of contacts: 4 CO contact, Continuous current: 6 A, PUSH IN with actuator	6944169772276	10 pc(s).

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Accessories

Retaining clip



Accessories for D-SERIES relays include:

- Relay bases
- LED / Protective modules
- Metal retaining clips

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
SCM CLIP P	7760056367	D-SERIES DRM, Retaining clip	6944169773334	5 pc(s).
DRM/DRL CLIP M	7760056108	D-SERIES, Retaining clip	4032248855568	20 pc(s).

LED



Accessories for D-SERIES relays include:

- Relay bases
- LED / Protective modules
- Metal retaining clips

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
RIM 3 6/24VUC	7940018457	D-SERIES, LED module, Rated control voltage: 6...24 V UC, Plug-in connection	4032248878192	20 pc(s).
RIM 3 24/60VUC	7760056018	D-SERIES, LED module, Rated control voltage: 24...60 V UC, Plug-in connection	4032248878130	10 pc(s).

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Accessories**LED / free-wheel diode**

Accessories for D-SERIES relays include:

- Relay bases
- LED / Protective modules
- Metal retaining clips

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
RIM 2 6/24VDC	7760056015	D-SERIES, LED module with freewheel diode, Rated control voltage: 6...24 V DC, Plug-in connection	4032248878116	10 pc(s).
RIM 2 24/60VDC	7760056016	D-SERIES, LED module with freewheel diode, Rated control voltage: 24...60 V DC, Plug-in connection	4032248878123	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 the following manufacturers:

- Siemens
- Télémecanique
- ABB
- Beckhoff
- Lumberg
- Tags for all-purpose usage; self-adhesive or clip-on tags, depending on the type

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.

Please note that these markers are not intended for printing with the SpeedMarking laser.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
ESG 6/15 K MC NE WS	1880100000	ESG, Device markers x 6 mm, PA 66, Colour: White, Self-adhesive	4032248478781	200 pc(s).
ESG 6/15 K MC NE GE	1880130000	ESG, Device markers x 6 mm, PA 66, Colour: Yellow, Self-adhesive	4032248478910	200 pc(s).

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General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
ESG 6/17 K MC NE GE	1880110000	ESG, Device markers x 6 mm, PA 66, Colour: Yellow, Self-adhesive	4032248478798	200 pc(s).
ESG 6/17 K MC NE WS	1880120000	ESG, Device markers x 6 mm, PA 66, Colour: White, Self-adhesive	4032248478804	200 pc(s).

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Accessories

MultiCard



The Weidmüller device markers enable users to conform to obligatory equipment labelling regulations. Users can label the device markers themselves by means of suitable software and system-compatible printer systems.

ESG is the tried-and-tested marker in MultiCard format. The result is high-quality device marking with a high-contrast appearance.

ESG 9/26 SCM ECO MC... for marking D-SERIES DRM relay sockets:

- Attachable MultiCard markers
- Depending on the relay socket it is attachable on up to 4 levels
- Additional option for attaching the marker on plastic retaining clip: SCM CLIP P
- PrintJet printable

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
ESG 9/26 SCM ECO MC NE WS	1520980000	ESG, Device markers x 26 mm, PA 66, Colour: White	4050118327939 80 pc(s).	
ESG 9/26 SCM ECO MC NE GR	1521000000	ESG, Device markers x 26 mm, PA 66, Colour: Grey	4050118327878 80 pc(s).	
ESG 9/26 SCM ECO MC NE GE	1520990000	ESG, Device markers x 26 mm, PA 66, Colour: Yellow	4050118327861 80 pc(s).	
ESG 9/26 SCM ECO MC SDR	1525800000	ESG, Device markers x 26 mm, PA 66, Colour: To customer specification	4050118331875 80 pc(s).	

Protection modules



Accessories for D-SERIES relays include:

- Relay bases
- LED / Protective modules
- Metal retaining clips

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
RIM 1 6/230VDC	7760056169	D-SERIES, Free-wheel diode, Rated control	4032248967728 10 pc(s).	

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Accessories

voltage: 6...230 V, Plug-in
connection

Base



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- Relay bases
- LED / Protective modules
- Metal retaining clips

General ordering data

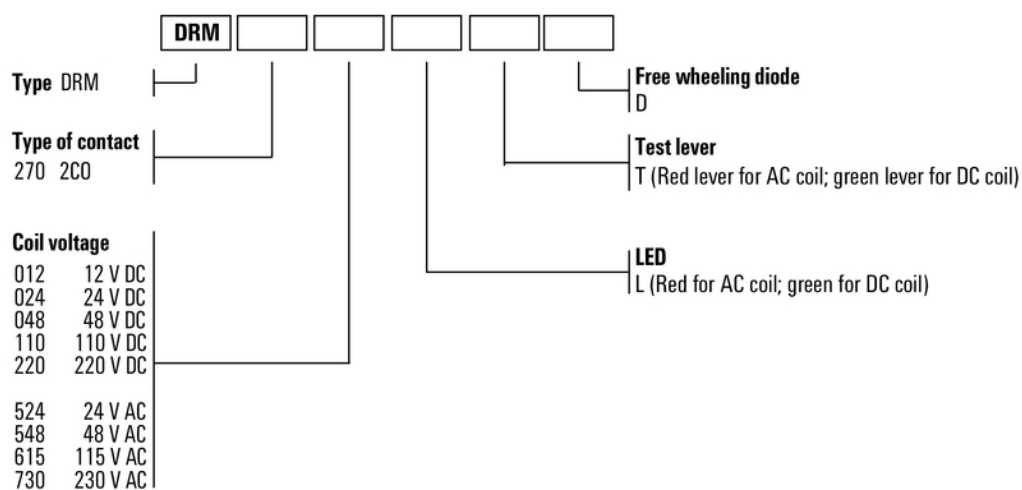
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Drawings

Miscellaneous



Type codes