D-SERIES DRM
DRM270110LT

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

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	DRM270110LT
Order No.	7760056071
Version	D-SERIES DRM, Relay, Number of contacts: 2, CO contact with test button, AgNi 0,15 µm Au, Rated control voltage: 110 V DC, Continuous current: 10 A, Plug-in connection
GTIN (EAN)	4032248855841
Qty.	20 pc(s).

Creation date May 1, 2020 2:47:31 PM CEST

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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	34.15 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		

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1

Rated data UL

Certificate No. (cURus)	E312083

Input

Rated control voltage	110 V DC	Rated current DC	10 mA
Power rating	1.2 W	Pull-in/drop-out voltage, typ.	82.5 V / 11 V DC
Coil resistance	11000 Ω ± 10 %	Status indicator	Green LED

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 with test button (AgNi 0,15 µm Au)	Contact resistance	≤ 50 mΩ
Mechanical service life	20 x 10^6 switching cycles		

General data

Test button	yes (lockable)	Mechanical switch position indicator	Yes
Colour	Transparent	UL 94 flammability rating	V-2

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Technical data

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)		

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		

Approvals

Approvals	
ROHS	Conform

Downloads

Approval/Certificate/Document of Conformity	EU Konformitätserklärung / EU Declaration of Conformity
Brochure/Catalogue	CAT 4.2 ELECTR 18/19 EN
Engineering Data	EPLAN, WSCAD
Engineering Data	STEP

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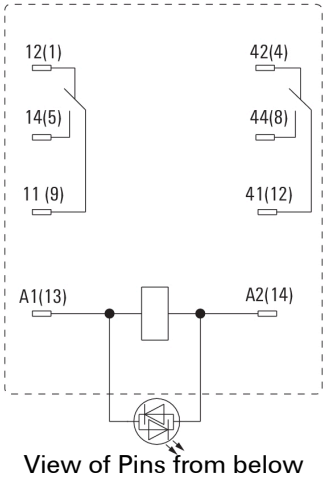
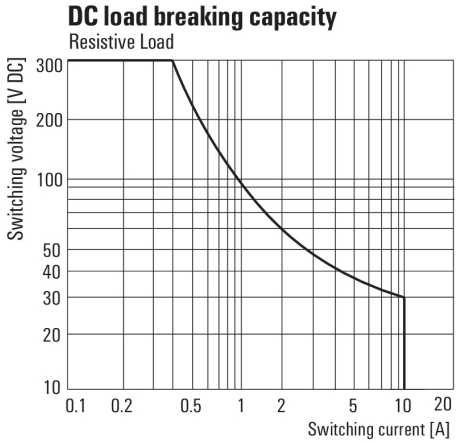
Drawings

Wiring diagram



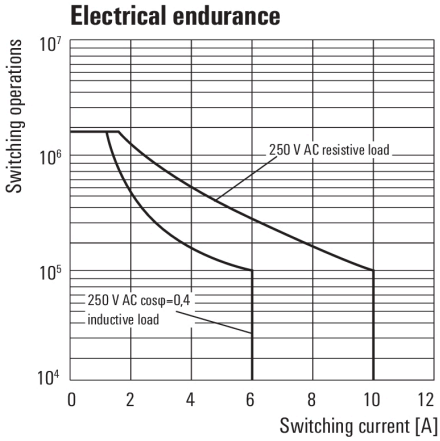
View of Pins from below

Graph



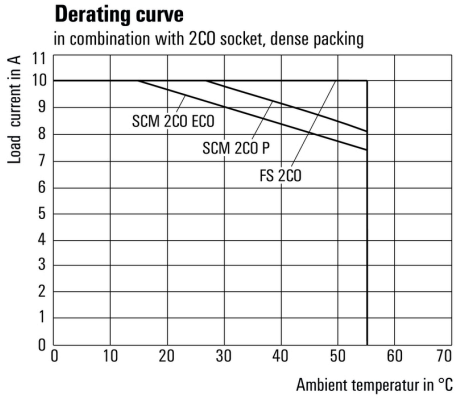
DC load limit curve
Resistive load

Graph



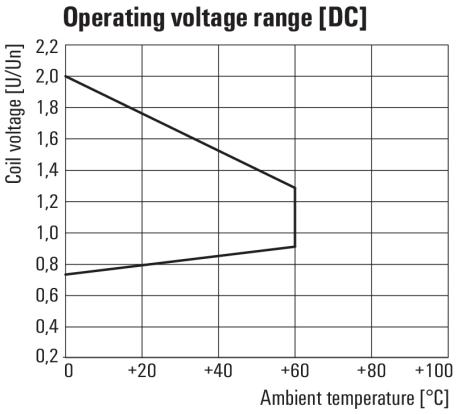
Electrical service life

Graph



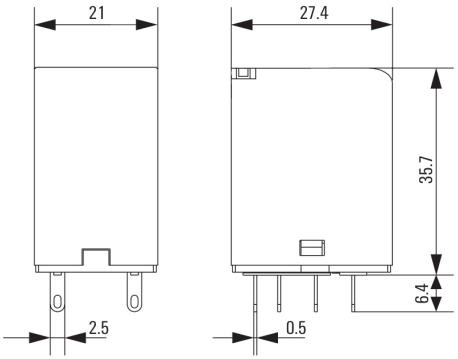
Derating curve
Relay in combination with base

Graph



DC operational voltage range

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	SCM 4CO P	Version
Order No.	7760056363	D-SERIES DRM, Relay bases, Number of contacts: 4 CO contact,
GTIN (EAN)	6944169772276	Continuous current: 6 A, PUSH IN
Qty.	10 pc(s).	
Type	FS 4CO	Version
Order No.	7760056107	D-SERIES DRM, Relay bases, Number of contacts: 4, CO contact,
GTIN (EAN)	4032248855575	Continuous current: 10 A, Screw connection
Qty.	10 pc(s).	
Type	FS 2CO	Version
Order No.	7760056106	D-SERIES DRM, Relay bases, Number of contacts: 2, CO contact,
GTIN (EAN)	4032248855582	Continuous current: 12 A, Screw connection
Qty.	10 pc(s).	
Type	SCM 2CO ECO	Version
Order No.	7760056263	D-SERIES DRM, Relay bases, Number of contacts: 2 CO contact,
GTIN (EAN)	6944169662966	Continuous current: 12 A, Screw connection
Qty.	10 pc(s).	
Type	SCM 2CO P	Version
Order No.	7760056362	D-SERIES DRM, Relay bases, Number of contacts: 2 CO contact,
GTIN (EAN)	6944169772269	Continuous current: 12 A, PUSH IN
Qty.	10 pc(s).	
Type	SCM 4CO ECO	Version
Order No.	7760056264	D-SERIES DRM, Relay bases, Number of contacts: 4 CO contact,
GTIN (EAN)	6944169662973	Continuous current: 6 A, Screw connection
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 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	ESG 6/17 K MC NE WS	Version
Order No.	1880120000	ESG, Device markers x 17 mm, PA 66, Colour: white, Self-adhesive
GTIN (EAN)	4032248478804	
Qty.	200 pc(s).	
Type	ESG 6/17 K MC NE GE	Version
Order No.	1880110000	ESG, Device markers x 17 mm, PA 66, Colour: yellow, Self-adhesive
GTIN (EAN)	4032248478798	
Qty.	200 pc(s).	

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Accessories

Base

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- Metal retaining clips

General ordering data

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

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- 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	ESG 6/15 K MC NE WS	Version
Order No.	1880100000	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.	1880130000	ESG, Device markers x 15 mm, PA 66, Colour: yellow, Self-adhesive
GTIN (EAN)	4032248478910	
Qty.	200 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	SCM CLIP P	Version
Order No.	7760056367	D-SERIES DRM, Retaining clip
GTIN (EAN)	6944169773334	
Qty.	5 pc(s).	
Type	DRM/DRL CLIP M	Version
Order No.	7760056108	D-SERIES, Retaining clip
GTIN (EAN)	4032248855568	
Qty.	20 pc(s).	

Protection modules

Accessories for D-SERIES relays include:
- Relay bases
- LED / Protective modules
- Metal retaining clips

General ordering data

Type	RIM 1 6/230VDC	Version
Order No.	7760056169	D-SERIES, Free-wheeling diode, Rated control voltage: 6...230 V, Plug-in connection
GTIN (EAN)	4032248967728	
Qty.	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	RIM 2 110/230VDC	Version
Order No.	7760056017	D-SERIES, LED module with freewheel diode, Rated control voltage:
GTIN (EAN)	4032248896615	110...230 V DC, Plug-in connection
Qty.	10 pc(s).	

LED

Accessories for D-SERIES relays include:
- Relay bases
- LED / Protective modules
- Metal retaining clips

General ordering data

Type	RIM 3 110/230VUC	Version
Order No.	7940018455	D-SERIES, LED module, Rated control voltage: 110...230 V UC, Plug-in
GTIN (EAN)	4032248878185	connection
Qty.	20 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	ESG 9/26 SCM ECO MC NE ...	Version
Order No.	1520990000	ESG, Device markers x 26 mm, PA 66, Colour: yellow
GTIN (EAN)	4050118327861	
Qty.	80 pc(s).	
Type	ESG 9/26 SCM ECO MC SDR	Version
Order No.	1525800000	ESG, Device markers x 26 mm, PA 66, Colour: To customer
GTIN (EAN)	4050118331875	specification
Qty.	80 pc(s).	
Type	ESG 9/26 SCM ECO MC NE ...	Version
Order No.	1521000000	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.	1520980000	ESG, Device markers x 26 mm, PA 66, Colour: white
GTIN (EAN)	4050118327939	
Qty.	80 pc(s).	

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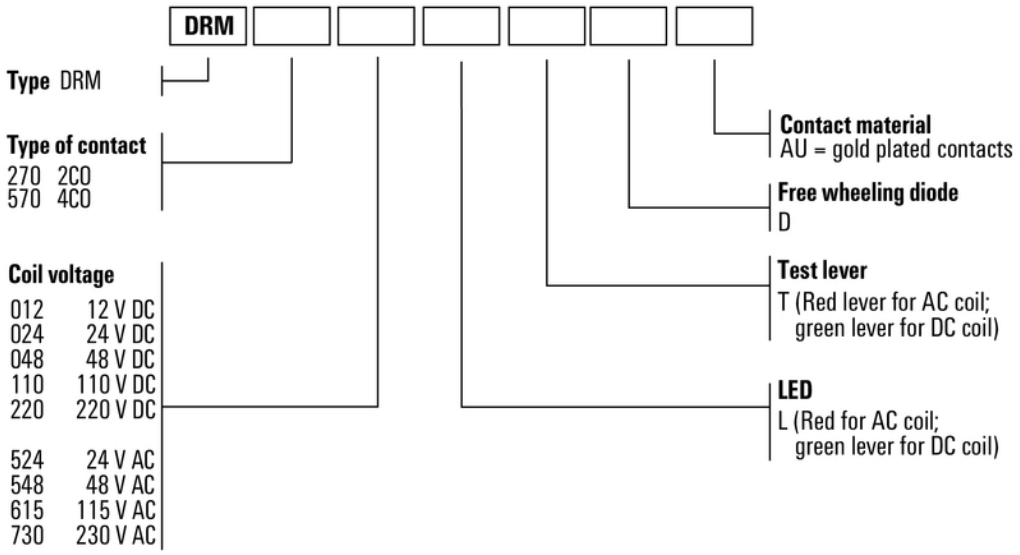
Drawings

Miscellaneous



Type codes