

D-SERIES DRM
DRM270048

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
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Germany
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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	DRM270048
Order No.	7760056052
Version	D-SERIES DRM, Relay, No. of contacts: 2, CO contact, AgNi 0,15 µm Au, Rated control voltage: 48 V DC, Continuous current: 10 A, Plug-in connection
GTIN (EAN)	4032248856039
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		

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Rated data UL

Certificate No. (cURus)	E312083
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Input

Rated control voltage	48 V DC	Rated current DC	18.5 mA
Power rating	0.9 W	Pull-in/drop-out voltage, typ.	36 V / 4.8 V DC
Coil resistance	2600 $\Omega \pm 10\%$		

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 $\mu\text{m Au}$)	Contact resistance	$\leq 50\text{ m}\Omega$
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

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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
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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

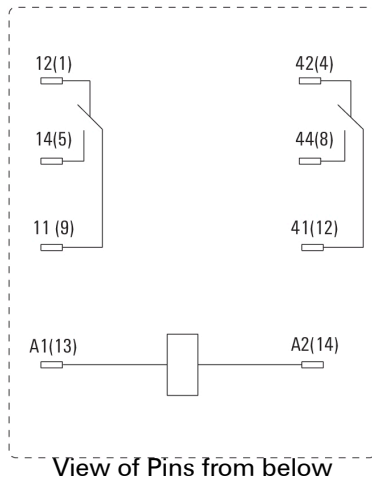
Approval/Certificate/Document of Conformity	DE_PA_5600_160310_001.pdf
Brochure/Catalogue	CAT 4.2 ELECTR 18/19 EN
Engineering Data	EPLAN.WSCAD
Engineering Data	STEP

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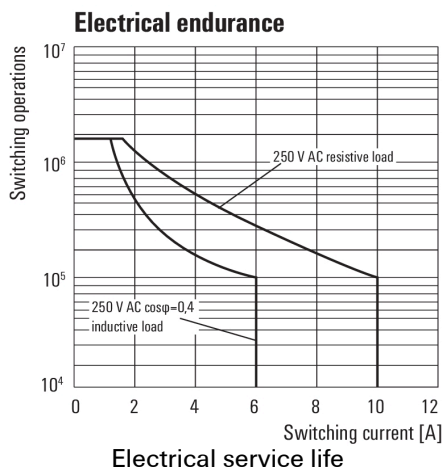
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Drawings

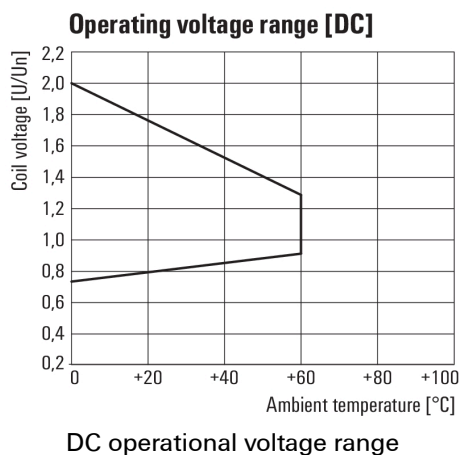
Wiring diagram



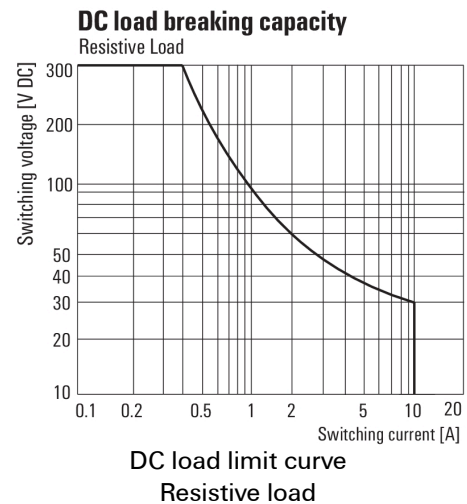
Graph



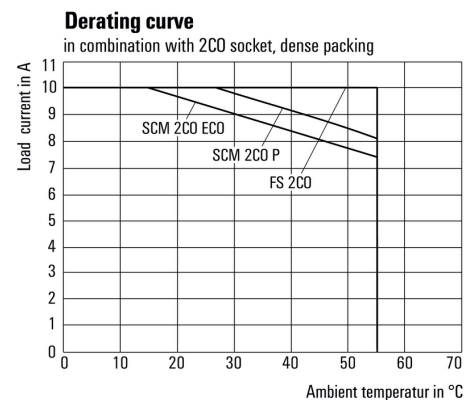
Graph



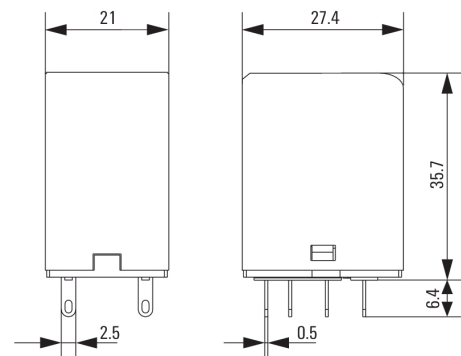
Graph



Graph



Derating curve Relay in combination with base Dimensional drawing

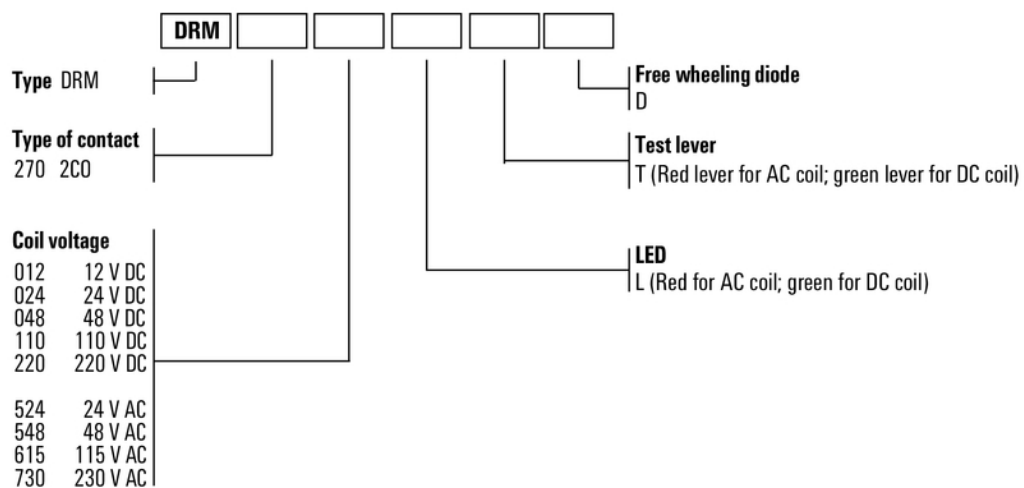


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Drawings

Miscellaneous



Type codes