D-SERIES DRM
DRMKIT 24VDC 2CO LD

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Product image



Our relay kits are particularly convenient to use. The kits are delivered fully assembled and 100 % function-tested. This saves assembly time and reduces the number of parts required.

- Assembled kit consisting of relay, base and retaining clip, incl. label
- 100% function-tested
- 100% control of the dielectric strength input - output
- Optional: test button with coloured control voltage marking (AC coil: red / DC coil: blue) and mechanical switch position indicator
- Bright status LED (AC coil: red / DC coil: green)

General ordering data

Type	DRMKIT 24VDC 2CO LD
Order No.	1542360000
Version	D-SERIES DRM, Relay module, No. of contacts: 2 CO contact AgNi 0,15 µm Au, Rated control voltage: 24 V DC, Continuous current: 10 A, Screw connection
GTIN (EAN)	4050118347234
Qty.	10 pc(s).

D-SERIES DRM
DRMKIT 24VDC 2CO LD

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Technical data

Dimensions and weights

Width	27.2 mm	Width (inches)	1.071 inch
Height	79.9 mm	Height (inches)	3.146 inch
Depth	66.8 mm	Depth (inches)	2.63 inch
Net weight	93.35 g		

Temperatures

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

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

Mounting rail	TS 35	Test button	No
Mechanical switch position indicator	Yes	Colour	Black
UL 94 flammability rating	V-0		

Insulation coordination

Rated voltage	250 V	Surge voltage category	III
Pollution severity	2	Insulating material group	C
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	4.8 kV (1.2/50 µs)

D-SERIES DRM
DRMKIT 24VDC 2CO LD

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Technical data

Further details of approvals / standards

Certificate no. (cURus) relay	E312083	Certificate no. (cURus) base	E312083

Connection data

Wire connection method	Screw connection	Stripping length, rated connection	7 mm
Tightening torque, min.	0.5 Nm	Tightening torque, max.	0.7 Nm
Clamping range, min.	0.5 mm²	Clamping range, max.	2.5 mm²
Wire cross-section, solid, min.	0.5 mm²	Wire cross-section, solid, max.	2.5 mm²
Wire connection cross-section, finely stranded, min.	0.5 mm²	Wire connection cross section, finely stranded, max.	2.5 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.5 mm²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	2.5 mm²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	2.5 mm²
Wire connection cross section, finely stranded, two clampable wires, min.	0.5 mm²	Wire cross-section, finely stranded, two clampable wires, max.	1 mm²
Blade size	size PH1		

Classifications

ETIM 5.0	EC001437	ETIM 6.0	EC001437
eClass 6.2	27-37-16-90	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

ROHS	Conform

Downloads

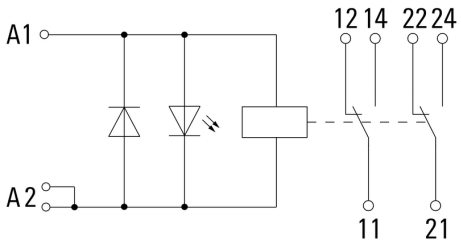
Approval/Certificate/Document of Conformity	DE_PA_5600_160317_001.pdf
Engineering Data	EPLAN, WSCAD, Zuken E3.S
Engineering Data	STEP

D-SERIES DRM
DRMKIT 24VDC 2CO LD

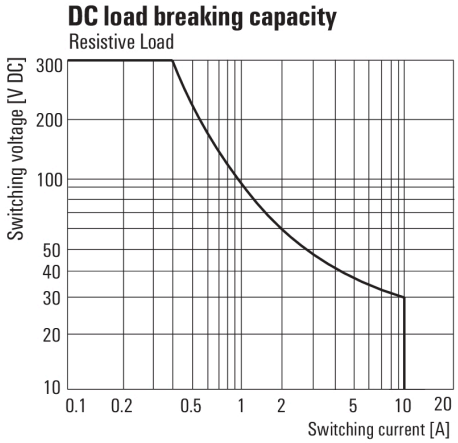
Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Drawings

Wiring diagram

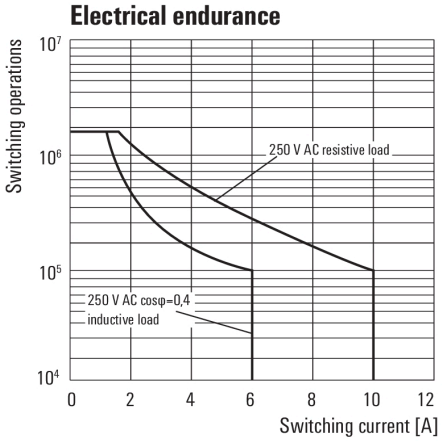


Graph



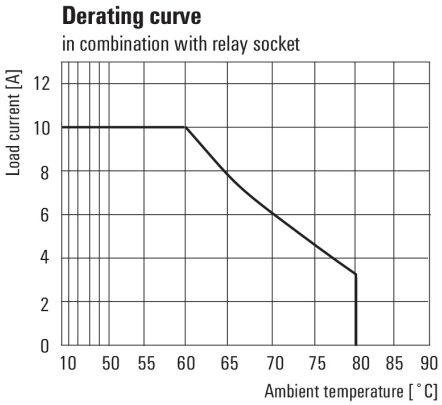
DC load limit curve
Resistive load

Graph



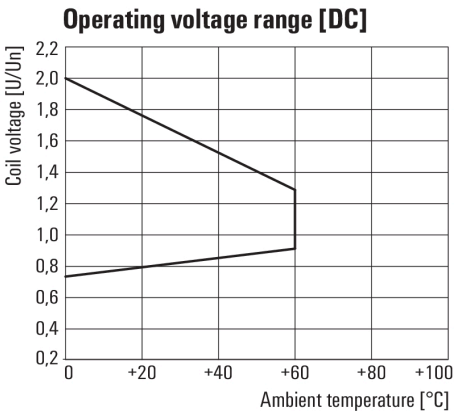
Electrical service life

Graph



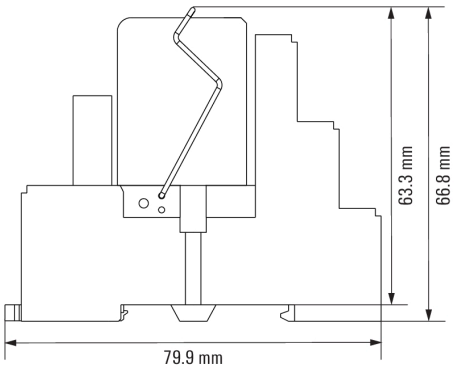
Derating curve

Graph



DC operational voltage range

Dimensional drawing

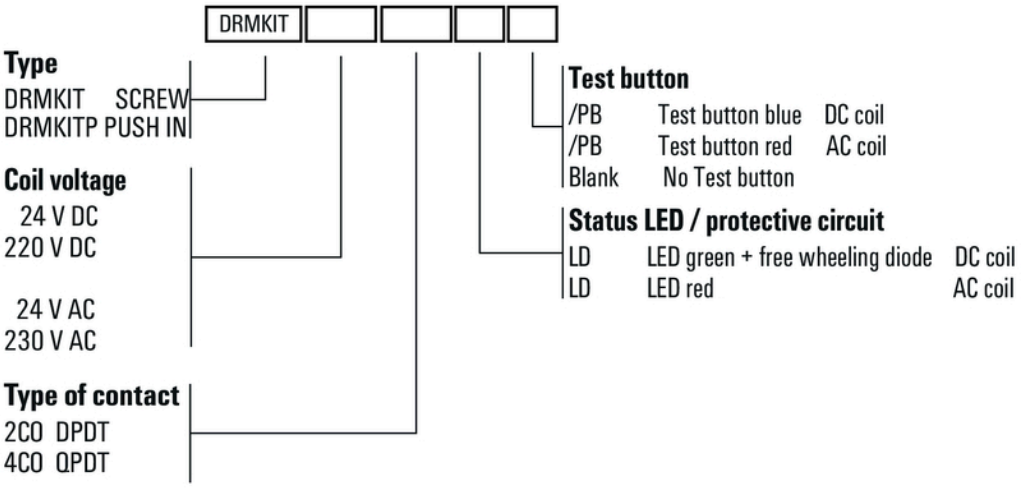


D-SERIES DRM
DRMKIT 24VDC 2CO LD

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

Drawings

Miscellaneous



Type codes