

**RIDERSERIES RCM
RCMKIT-I 24VDC 2CO LD****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

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Modular system comprised of:

- relay socket for rail mounting
- LED indicator unit
- retaining clip
- plug-in relay
- markers

General ordering data

Type	RCMKIT-I 24VDC 2CO LD
Order No.	8920940000
Version	RIDERSERIES RCM, Relay module, No. of contacts: 2 CO contact with test button AgNi 90/10, Rated control voltage: 24 V DC, Continuous current: 12 A, Screw connection
GTIN (EAN)	4032248692194
Qty.	10 pc(s).

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Technical data
Dimensions and weights

Width	27.2 mm	Width (inches)	1.071 inch
Height	77 mm	Height (inches)	3.031 inch
Depth	78.3 mm	Depth (inches)	3.083 inch
Net weight	89.35 g		

Temperatures

Humidity	40 °C / 93 % rel. humidity, no condensation	Operating temperature	-40 °C...70 °C
Storage temperature	-40 °C...70 °C		

Input

Rated control voltage	24 V DC	Rated current DC	31.3 mA
Power rating	740 mW	Pull-in/drop-out voltage, typ.	18 V / 2.4 V DC
Coil resistance	777 $\Omega \pm 10\%$	Status indicator	Green LED
Protective circuit	Free-wheel diode		

Output

Rated switching voltage	240 V AC	Max. switching voltage, AC	400 V
Continuous current	12 A	Inrush current	24 A / 20 ms
AC switching capacity (resistive), max.	3000 VA	DC switching capacity (resistive), max.	288 W @ 24 V
Switch-on delay	≤ 15 ms	Switch-off delay	≤ 10 ms
Min. switching power	1 mA @ 24 V, 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 90/10)	Mechanical service life	AC coil 20×10^6 Switch. cycles, DC coil 30×10^6 Switch. cycles
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General data

Mounting rail	TS 35	Test button	yes (lockable)
Mechanical switch position indicator	Yes	UL 94 flammability rating	V-2

Insulation coordination

Rated voltage	250 V	Creepage and clearance distance input – output	≥ 4 mm
Dielectric strength input – output	2.5 kV _{eff} / 1 min.	Dielectric strength of neighbouring contacts	2.5 kV _{eff} / 1 min.
Dielectric strength of open contact	1.2 kV _{eff} / 1 min.	Impulse withstand voltage	5 kV (1.2/50 μ s)
Protection degree	IP20	Insulating material group	IIIa
Pollution severity	2	Surge voltage category	III

Further details of approvals / standards

Standards	DIN EN 50178	Certificate no. (CSA) relay	249409-2426937
Certificate no. (CSA) base	249409-2295474	Certificate No. (GERMLLOYD)	54702-08
Certificate no. (cURus) relay	E224238	Certificate no. (cURus) base	E223759

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Connection data

Wire connection method	Screw connection	Stripping length, rated connection	8 mm
Tightening torque, min.	0.5 Nm	Tightening torque, max.	0.7 Nm
Clamping range, rated connection	2.5 mm ²	Clamping range, rated connection, min.	1 mm ²
Clamping range, rated connection, max.	2.5 mm ²	Wire cross-section, solid, min.	1 mm ²
Wire cross-section, solid, max.	2.5 mm ²	Wire connection cross-section, finely stranded, min.	1 mm ²
Wire connection cross section, finely stranded, max.	2.5 mm ²	Cross-section for connected conductor, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, min.	1 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, max.	2.5 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	1 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	2.5 mm ²	Wire connection cross section, finely stranded, two clampable wires, min.	1 mm ²
Wire cross-section, finely stranded, two clampable wires, max.	1.5 mm ²	Blade size	size PZ1

Classifications

ETIM 3.0	EC001437	ETIM 4.0	EC001437
ETIM 5.0	EC001437	ETIM 6.0	EC001437
UNSPSC	30-21-19-17	eClass 5.1	27-37-16-01
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		

Product information

Product information	IP20 without connected conductor at complete opened clamping yoke connection.
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Approvals

Approvals



ROHS	Conform
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Downloads

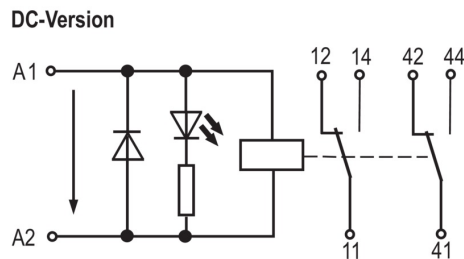
Approval/Certificate/Document of Conformity	DE_PA5600_160414_002.pdf
Brochure/Catalogue	CAT 4.2 ELECTR 15/16 EN
Engineering Data	EPLAN, WSCAD, Zuken E3.S

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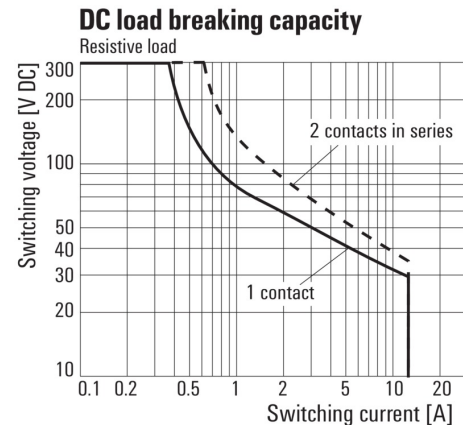
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Drawings

Wiring diagram

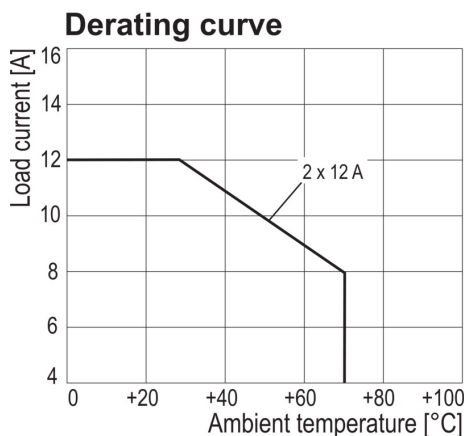


Graph



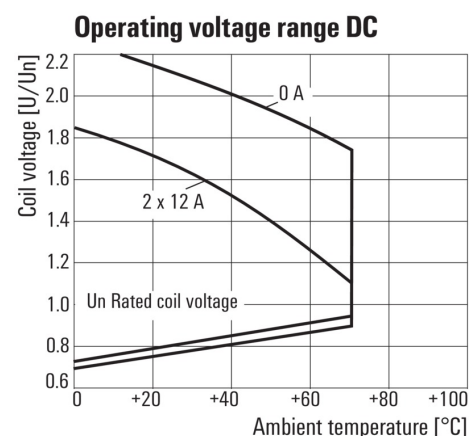
DC load limit curve
Resistive load

Graph



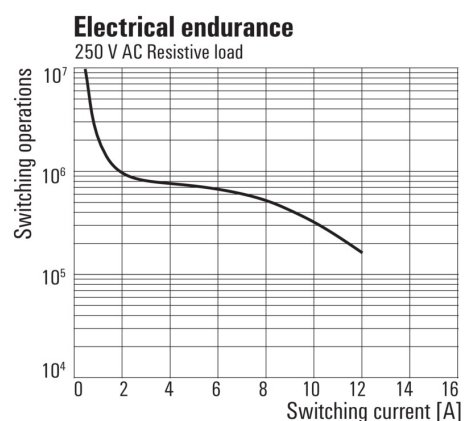
Derating curve
Relay in combination with base

Graph



DC operational voltage range

Graph



Electrical service life 250 V AC resistive load
250 V AC resistive load

Dimensional drawing

