

RCIKIT 24VDC 1CO LD/PB**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image

- Mounted kit consisting relay, socket and retaining clip
- 100 % function tested
- 100 % check of the dielectric strenght between input - output
- 1 CO contacts
- Optional test button with mechanical status indicator
- Bright status LED (AC coil: red / DC coil: green)
- identification of coils (AC red / DC blue)

General ordering data

Version	RIDERSERIES RCI, Relay module, Number of contacts: 1, CO contact AgNi 90/10, Rated control voltage: 24 V DC, Continuous current: 16 A ⁽¹⁾ , Screw connection
Order No.	8881580000
Type	RCIKIT 24VDC 1CO LD/PB
GTIN (EAN)	4032248631834
Qty.	10 pc(s).
Relevant base	8869490000
Relevant relay	8870250000

Creation date March 29, 2021 11:36:39 PM CEST

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Technical data

Dimensions and weights

Depth	70.2 mm	Depth (inches)	2.764 inch
Height	77 mm	Height (inches)	3.031 inch
Net weight	56.2 g	Width	15.8 mm
Width (inches)	0.622 inch		

Temperatures

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

Probability of failure

B10	280.000 AC15: 250Vac/3A
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Control side

Coil resistance	1440 $\Omega \pm 10\%$	Power rating	761 mW
Protective circuit	Free-wheeling diode	Pull-in/drop-out voltage, typ.	16.8 V / 2.4 V DC
Rated control voltage	24 V DC	Rated current DC	31.6 mA
Status indicator	Green LED		

Load side

AC switching capacity (resistive), max.		Continuous current	16 A .1) For full continuous current (16 A), relay connections 11-21, 12-22 and 14-24 must be bridged.
	4000 VA	Inrush current	30 A / 4 s
DC switching capacity (resistive), max.	384 W @ 24 V	Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
Max. switching frequency at rated load	0.1 Hz	Switch-off delay	≤ 6 ms
Rated switching voltage	250 V AC		
Switch-on delay	≤ 8 ms		

Contact data

Contact type	1 CO contact (AgNi 90/10)	Mechanical service life	AC coil 5×10^6 switching cycles, DC coil 10×10^6 switching cycles
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General data

Rail	TS 35	Test button	yes (lockable, just when removing the detent lock)
Mechanical switch position indicator	Yes	Colour	black

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Insulation coordination

Creepage and clearance distance input – output	≥ 8 mm	Dielectric strength of open contact	1 kV _{eff} / 1 min
Dielectric strength, Input/Output	5 kV _{eff} / 1min	Impulse withstand voltage	5 kV (1.2/50 µs)
Insulating material group	IIIa	Pollution severity	2
Protection degree	IP20	Rated voltage	250 V
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. (DNVGL)	TAA000011A
Certificate no. (cURus) relay	E224238	Certificate no. (cURus) base	E223759

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, min.	1 mm ²
Clamping range, 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	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	1 mm ²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, 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 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	ECLASS 11.0	27-37-16-01

Important note

Product information	1) For full continuous current (16 A), relay connections 11–21, 12–22 and 14–24 must be bridged. IP20 without connected conductor at complete opened clamping yoke connection.
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Approvals

Approvals



ROHS

Conform

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Technical data

Downloads

Approval/Certificate/Document of
Conformity

[EU Konformitätserklärung / EU Declaration of Conformity](#)

Engineering Data

[STEP](#)

Engineering Data

[EPLAN, WSCAD, Zuken E3.S](#)

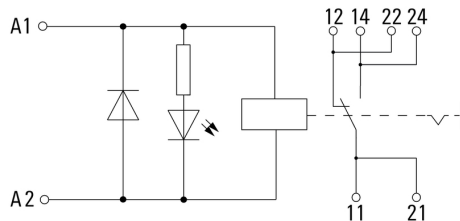
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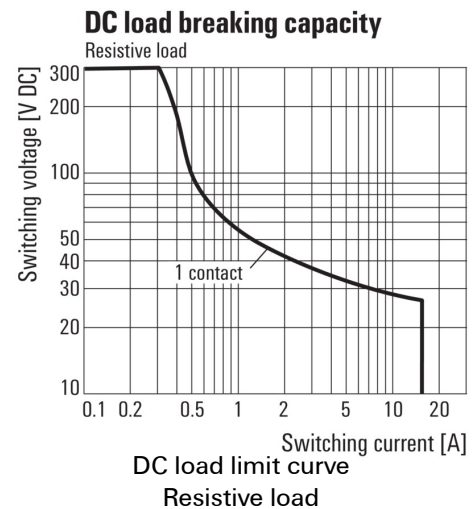
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Drawings

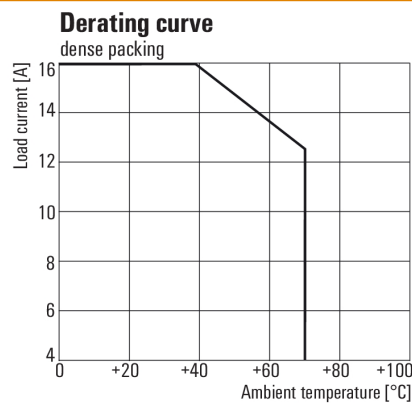
Wiring diagram



Graph



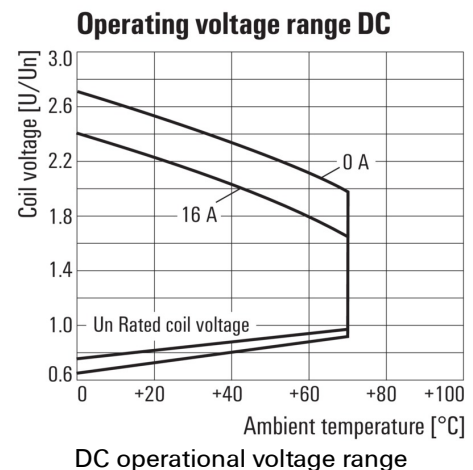
Graph



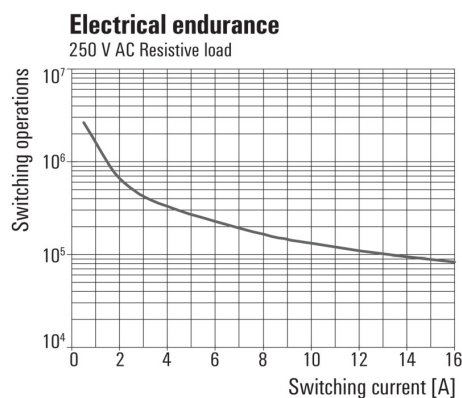
For full continuous current (16 A), socket connections 11-21, 12-22 and 14-24 must be bridged.

Derating curve
Relay in combination with base

Graph

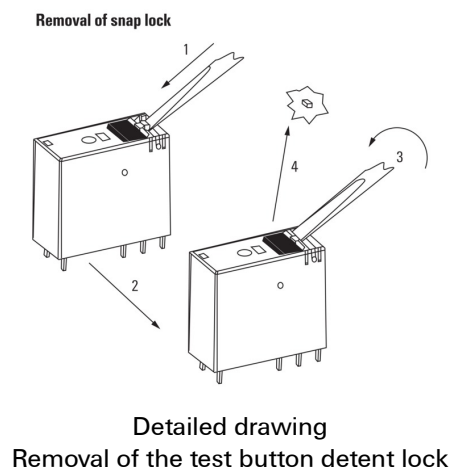


Graph



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

Dimensional drawing



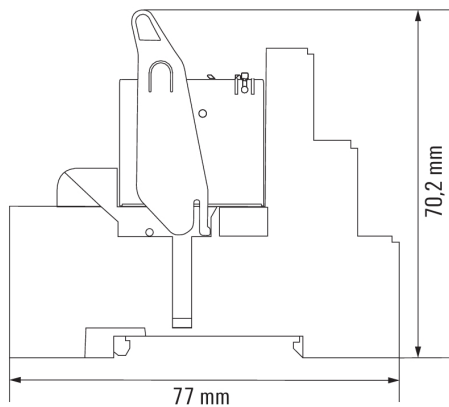
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Drawings

Dimensional drawing



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