

RCI314S15**Weidmüller Interfaces GmbH & Co. KG**

Postfach 3030

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Product image

Similar to illustration

Individual relays within the RIDERSERIES RCI

- 1 CO contact
- AC coils
- With integrated status LED

General ordering data

Version	RIDERSERIES RCI, Relay, Number of contacts: 1, CO contact AgNi, Rated control voltage: 115 V AC, Continuous current: 16 A, Plug-in connection, Test button available: No
Order No.	8870140000
Type	RCI314S15
GTIN (EAN)	4032248613519
Qty.	10 pc(s).

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Technical data

Dimensions and weights

Depth	25.6 mm	Depth (inches)	1.008 inch
Height	29 mm	Height (inches)	1.142 inch
Width	13 mm	Width (inches)	0.512 inch
Net weight	16 g		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-40 °C...70 °C
Humidity	40 °C / 93 % rel. humidity, no condensation		

Rated data UL

Certificate No. (cURus)	E224238
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Control side

Rated control voltage	115 V AC	Rated current AC	7.1 mA
Power rating	814 mVA	Pull-in/drop-out voltage, typ.	86.3 V / 17.3 V AC
Coil resistance	8100 $\Omega \pm 15\%$	Coil tolerance	15 %
Status indicator	red LED		

Load side

Rated switching voltage	240 V AC	Continuous current	16 A
Max. switching frequency at rated load	0.1 Hz	Inrush current	30 A / 4 s
AC switching capacity (resistive), max.	4000 VA	DC switching capacity (resistive), max.	384 W @ 24 V
Switch-on delay	≤ 8 ms	Switch-off delay	≤ 6 ms
Contact type	1 CO contact (AgNi)	Mechanical service life	AC coil 5×10^6 switching cycles, DC coil 10×10^6 switching cycles
Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V		

General data

Test button available	No	Mechanical switch position indicator	No
Colour	Transparent	UL 94 flammability rating	V-2

Insulation coordination

Rated voltage	250 V	Pollution severity	2
Surge voltage category	III	Insulating material group	IIIa
Clearance and creepage distances for control side - load side	≥ 8 mm	Dielectric strength for control side - load side	5 kV _{eff} / 1 min
Dielectric strength of open contact	1 kV _{eff} / 1 min	Impulse withstand voltage	5 kV (1.2/50 μ s)

Further details of approvals / standards

Standards	IEC 61810-1, UL508	Certificate No. (CSA)	249409-2426937
Certificate No. (VDE)	40018043	Certificate No. (cURus)	E224238

Connection data

Wire connection method	Plug-in connection	Pitch in mm (P)	5 mm
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Creation date September 1, 2022 12:42:46 PM CEST

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Classifications

ETIM 6.0	EC001437	ETIM 7.0	www.weidmueller.com EC001437
ETIM 8.0	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	ECLASS 12.0	27-37-16-01

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E224238

Downloads

Approval/Certificate/Document of Conformity	EU Konformitätserklärung / EU Declaration of Conformity
Engineering Data	CAD data – STEP
Engineering Data	EPLAN, WSCAD
Product Change Notification	20220511 Product consolidation RIDERSERIES RCI relays 20220511 Produktkonsolidierung RIDERSERIES RCI Relais
Catalogues	Catalogues in PDF-format
Brochures	

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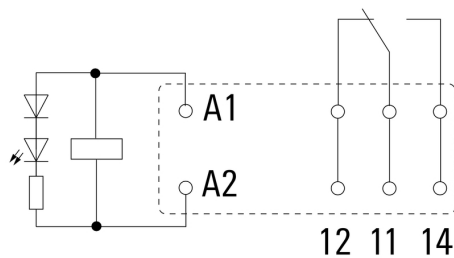
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Drawings

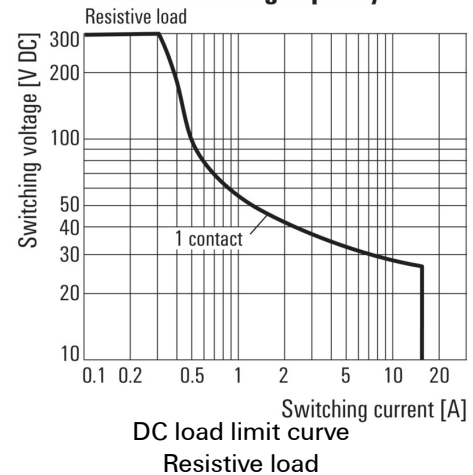
Wiring diagram



View of Pins from below

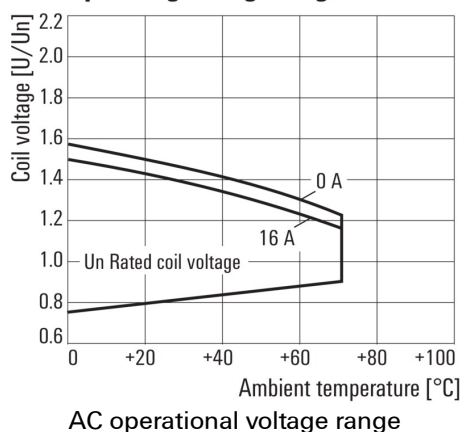
Graph

DC load breaking capacity



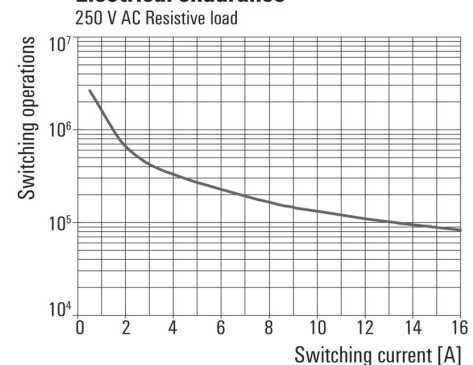
Graph

Operating voltage range AC



Graph

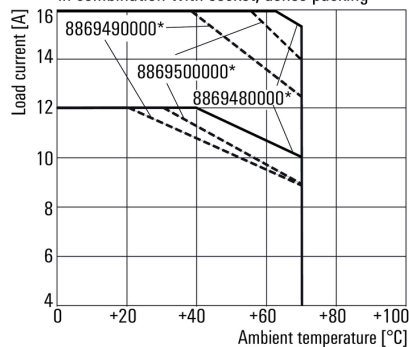
Electrical endurance



Graph

Derating curve

in combination with socket, dense packing

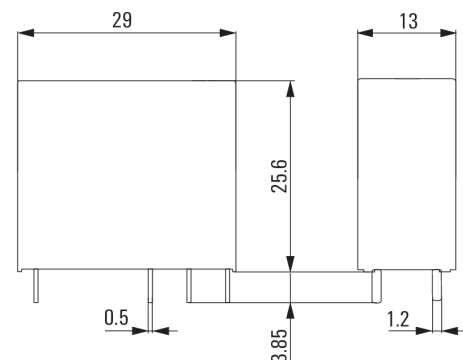


* For full continuous current (16 A), the wire terminals 11 with 21, 12 with 22 and 14 with 24 must be bridged with a wire $\geq 1,5 \text{ mm}^2$ at the socket.

Derating curve

Relay in combination with base

Dimensional drawing



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Drawings
Miscellaneous

		RCI						
Type							Coil voltage	
RIDER Control Industrial							012	12 V DC
Type of construction							024	24 V DC
3	16 A pinning 5 mm						048	48 V DC
4	8 A, pinning 5mm						110	110 V DC
Type of contact							AB2	12 V DC + LED + diode
1	1 CO without push button						AC4	24 V DC + LED + diode
2	2 CO without push button						AE8	48 V DC + LED + diode
7	1 CO with push button						BB0	110 V DC + LED + diode
8	2 CO with push button						524	24 V AC
Contact material							615	115 V AC
4	AgNi 90/10						730	230 V AC
							R24	24 V AC + LED
							S15	115 V AC + LED
							T30	230 V AC + LED

Type codes