

RCI314AE8**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image**

Similar to illustration

Individual relays within the RIDERSERIES RCI

- 1 CO contact
- DC coils
- With integrated status LED and free-wheeling diode

General ordering data

Version	RIDERSERIES RCI, Relay, Number of contacts: 1, CO contact AgNi 90/10, Rated control voltage: 48 V DC, Continuous current: 16 A, Plug-in connection
Order No.	8870110000
Type	RCI314AE8
GTIN (EAN)	4032248613489
Qty.	10 pc(s).

Creation date March 29, 2021 11:28:56 PM CEST

Catalogue status 12.03.2021 / We reserve the right to make technical changes.

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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
Net weight	16.4 g	Width	13 mm
Width (inches)	0.512 inch		

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

Coil resistance	5520 $\Omega \pm 10\%$	Power rating	787 mW
Protective circuit	Free-wheeling diode	Pull-in/drop-out voltage, typ.	33.6 V / 4.8 V DC
Rated control voltage	48 V DC	Rated current DC	16.2 mA
Status indicator	Green LED		

Load side

AC switching capacity (resistive), max.	4000 VA	Continuous current	16 A
DC switching capacity (resistive), max.	384 W @ 24 V	Inrush current	30 A / 4 s
Max. switching frequency at rated load	0.1 Hz	Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V
Rated switching voltage	250 V AC	Switch-off delay	≤ 6 ms
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

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

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 μ s)
Insulating material group	IIIa	Pollution severity	2
Rated voltage	250 V	Surge voltage category	III

Further details of approvals / standards

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

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Connection data

Wire connection method	Plug-in connection	Pitch in mm (P)	5 mm
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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

Approvals

Approvals



ROHS	Conform
UL File Number Search	E224238

Downloads

Approval/Certificate/Document of Conformity	EU Konformitätserklärung / EU Declaration of Conformity
Engineering Data	STEP
Engineering Data	EPLAN, WSCAD

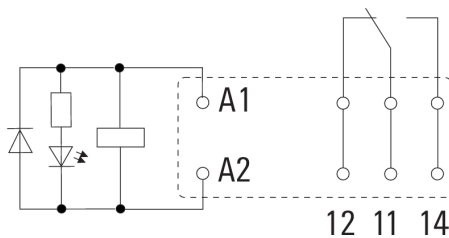
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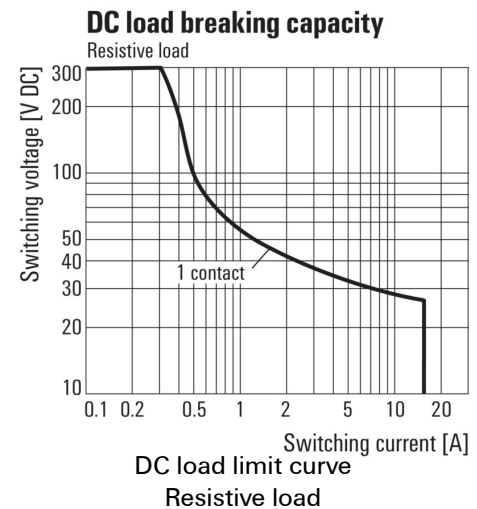
Drawings

Wiring diagram

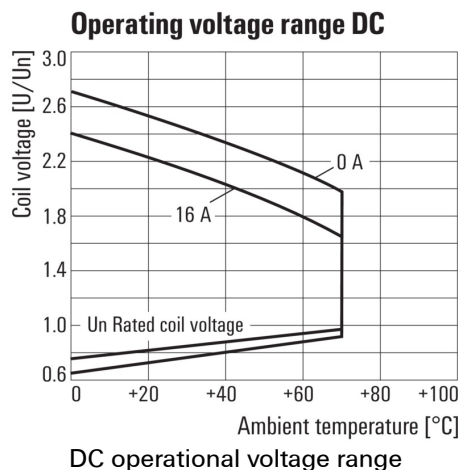


View of Pins from below

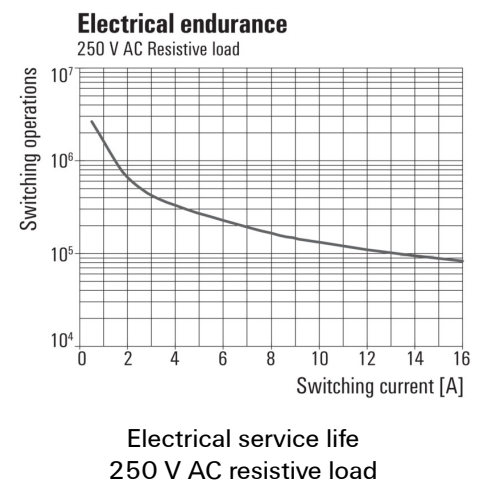
Graph



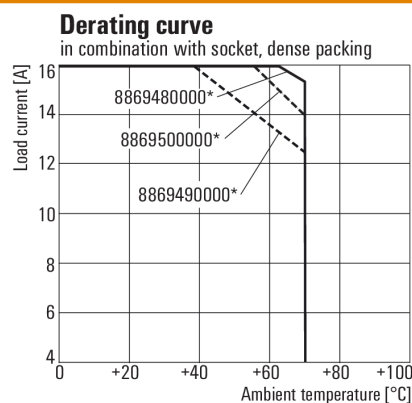
Graph



Graph



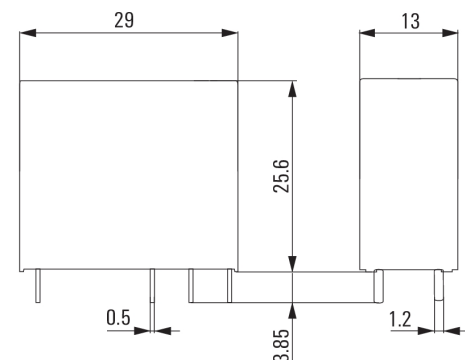
Graph



* 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

Dimensional drawing



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Drawings
Miscellaneous

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

Type codes