

RIDERSERIES RCL
RCL424524

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
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Germany
Fon: +49 5231 14-0
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Standard relay within the RIDERSERIES RCL

- 2 CO contacts
- optionally: AC or DC coils

General ordering data

Type	RCL424524
Order No.	405860000
Version	RIDERSERIES RCL, Relay, No. of contacts: 2 CO contact AgNi 90/10, Rated control voltage: 24 V AC, Continuous current: 8 A, Plug-in connection
GTIN (EAN)	4032248189335
Qty.	20 pc(s).

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Technical data**Dimensions and weights**

Width	12.7 mm	Width (inches)	0.5 inch
Height	29 mm	Height (inches)	1.142 inch
Depth	15.7 mm	Depth (inches)	0.618 inch
Net weight	12.576 g		

Temperatures

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

Input

Rated control voltage	24 V AC	Rated current AC	31.6 mA
Power rating	0.75 VA	Pull-in/drop-out voltage, typ.	18 V / 3.6 V AC
Coil resistance	350 Ω ± 10 %		

Output

Rated switching voltage	250 V AC	Continuous current	8 A
Inrush current	15 A / 4 s	AC switching capacity (resistive), max.	2000 VA
DC switching capacity (resistive), max.	192 W @ 24 V	Switch-on delay	≤ 8 ms
Switch-off delay	≤ 6 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 (AgNi 90/10)	Mechanical service life	5 x 10 ⁶ switching cycles
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General data

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

Insulation coordination

Rated voltage	250 V	Surge voltage category	III
Pollution severity	2	Insulating material group	IIIa
Protection degree	IP20	Dielectric strength input - output	5 kV _{eff} / 1 min
Creepage and clearance distance input - output	≥ 10 mm	Dielectric strength of neighbouring contacts	2.5 kV _{eff} / 1 min.
Dielectric strength of open contact	1 kV _{eff} / 1 min		

Further details of approvals / standards

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

Connection data

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

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Technical data

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		

Approvals

Approvals



ROHS Conform

Downloads

Engineering Data [EPLAN, WSCAD](#)

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Drawings

Wiring diagram



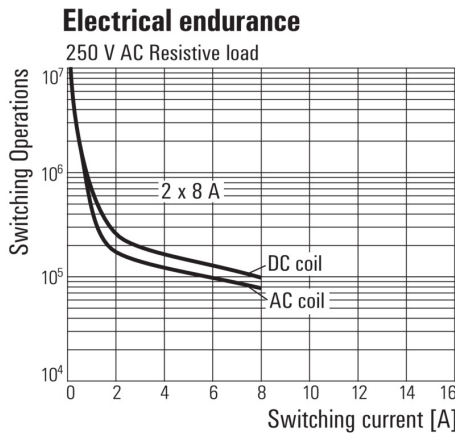
View of Pins from below

Graph

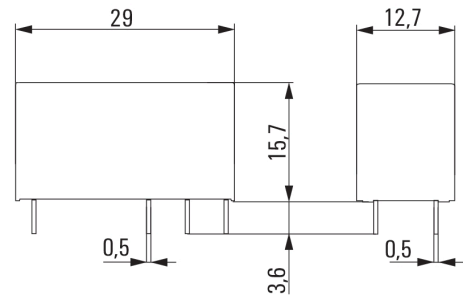


DC load limit curve
Resistive load

Graph



Electrical service life
250 V AC resistive load



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Drawings

Miscellaneous

Type code	RCL						
Type	RIDER Control Low						
Type of construction	3 16 A, pinning 5 mm 4 8 A, pinning 5 mm S 16 A, pinning 5 mm, inrush version						
Type of contact	1 1 CO contact 2 2 CO contacts 3 1 NO contact						
Contact material	4 AgNi 90/10 5 AgNi 90/10 hard gold plated L AgSnO ₂ T AgSnO ₂ + Tungsten (W) pre-make contact						
						Cover version	
						W white n.v. transparent	
						Coil	
						012 12 V DC 024 24 V DC 048 48 V DC 110 110 V DC 524 24 V AC 615 115 V AC 730 230 V AC	

Type codes