

**RCM270730****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image**

Similar to illustration

Individual relays within the RIDERSERIES RCM

- 2 CO contacts
- Optional AC or DC coils
- With test button

**General ordering data**

Version	RIDERSERIES RCM, Relay, Number of contacts: 2, CO contact AgNi, Rated control voltage: 230 V AC, Continuous current: 12 A, Plug-in connection, Test button available: Yes
Order No.	<a href="#">8689820000</a>
Type	RCM270730
GTIN (EAN)	4032248360499
Qty.	10 pc(s).

RCM270730

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## Technical data

### Dimensions and weights

Depth	29 mm	Depth (inches)	1.142 inch
Height	28 mm	Height (inches)	1.102 inch
Width	22.5 mm	Width (inches)	0.886 inch
Net weight	28.1 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)	E522350
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### Control side

Rated control voltage	230 V AC	Rated current AC	4.3 mA
Power rating	1000 mVA	Coil resistance	19465 $\Omega \pm 15\%$
Coil tolerance	15 %	Status indicator	No

### Load side

Rated switching voltage	240 V AC	Continuous current	12 A
Max. switching frequency at rated load	0.1 Hz	Max. switching voltage, AC	250 V
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	$\leq 15$ ms
Switch-off delay	$\leq 10$ ms	Contact type	2 CO contact (AgNi)
Mechanical service life	AC coil $20 \times 10^6$ switching cycles, DC coil $30 \times 10^6$ switching cycles	Min. switching power	1 mA @ 24 V, 10 mA @ 12 V, 100 mA @ 5 V

### General data

Test button available	Yes	Version of test button	Lockable test button, Mo- mentary test button
Mechanical switch position indicator	Yes	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	$\geq 4$ mm	Dielectric strength for control side - load side	2.5 kV <sub>eff</sub> / 1 Min.
Dielectric strength of neighbouring con- tacts	2.5 kV <sub>eff</sub> / 1 Min.	Dielectric strength of open contact	1.2 kV <sub>eff</sub> / 1 min.
Impulse withstand voltage	5 kV (1.2/50 $\mu$ s)	Protection degree	IP20

### Further details of approvals / standards

Certificate No. (CSA)	249409-2426937	Certificate No. (VDE)	40011762
Certificate No. (cURus)	E522350		

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## Technical data

## Connection data

Wire connection method	Plug-in connection
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## Classifications

ETIM 6.0	EC001437	ETIM 7.0	EC001437
ETIM 8.0	EC001437	ETIM 9.0	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	ECLASS 13.0	27-37-16-01

## Environmental Product Compliance

REACH SVHC

/

## Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E522350

## Downloads

Approval/Certificate/Document of Conformity	<a href="#">EU Konformitätserklärung / EU Declaration of Conformity</a>
Engineering Data	<a href="#">CAD data – STEP</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>
Brochures	

## RCM270730

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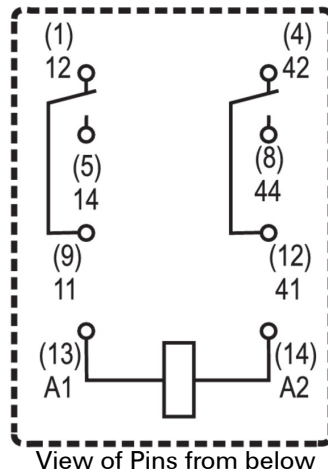
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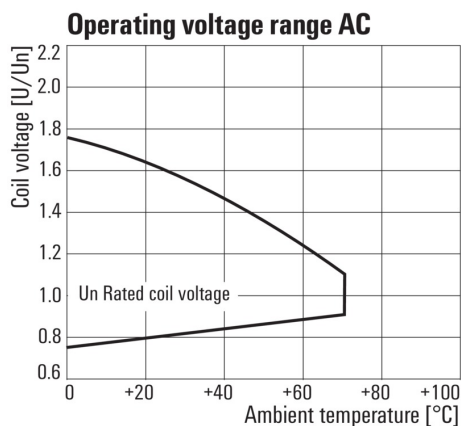
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## Drawings

## Wiring diagram

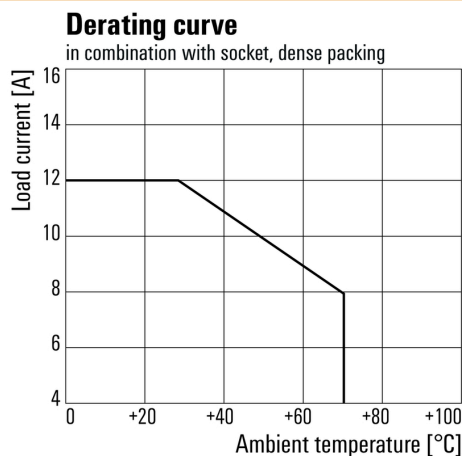


## Graph

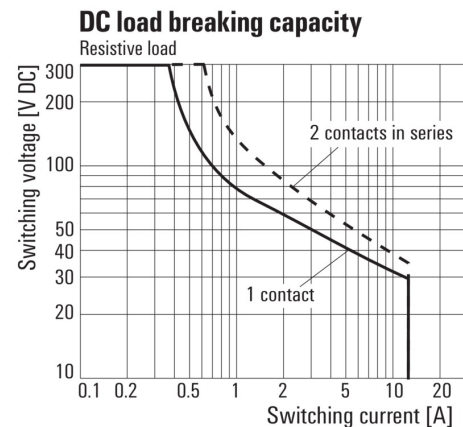


AC operational voltage range

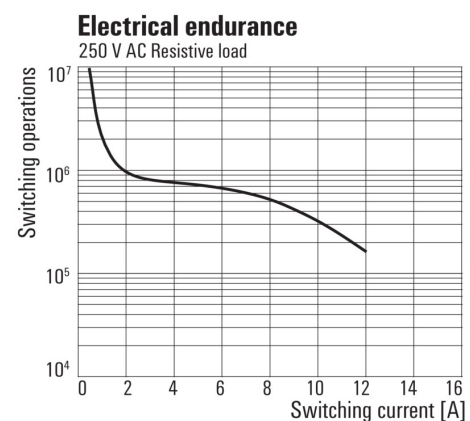
## Graph

Derating curve  
Relay in combination with base

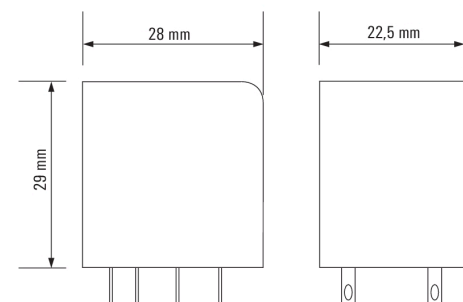
## Graph

DC load limit curve  
Resistive load

## Graph

Electrical service life  
250 V AC resistive load

## Dimensional drawing



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## Accessories

## Protection module



Pluggable protective modules for the RIDERSERIES RCI / RCM relay sockets, with optional protective functions.

- Optional with free-wheeling diode, protective varistor, load resistor or RC filter

## General ordering data

Type	RIM-I 3 110/230VAC RC	Version
Order No.	<a href="#">8869790000</a>	RIDERSERIES, RC filter, Rated control voltage: 110...230 V UC, Plug-in connection
GTIN (EAN)	4032248606337	
Qty.	10 pc(s).	
Type	RIM-I 3 230VAC RC	Version
Order No.	<a href="#">1172210000</a>	RIDERSERIES, RC filter, Rated control voltage: 230 V UC, Plug-in connection
GTIN (EAN)	4032248964420	
Qty.	10 pc(s).	
Type	RIM-I 1 6/230V	Version
Order No.	<a href="#">8869580000</a>	RIDERSERIES, Free-wheeling diode, Rated control voltage: 6...230 V DC, Plug-in connection
GTIN (EAN)	4032248614523	
Qty.	10 pc(s).	
Type	RIM-I 1 R 110/230V	Version
Order No.	<a href="#">8870830000</a>	RIDERSERIES, Load, Rated control voltage: 110...230 V UC, Plug-in connection
GTIN (EAN)	4032248631674	
Qty.	10 pc(s).	

## LED



Pluggable protective modules for the RIDERSERIES RCI / RCM relay sockets, with optional protective functions.

- Optional with green or red LED
- For UC supply voltage

## General ordering data

Type	RIM-I 3 110/230VUC	Version
Order No.	<a href="#">8869650000</a>	RIDERSERIES, LED module, Rated control voltage: 110...230 V UC, Plug-in connection
GTIN (EAN)	4032248614592	
Qty.	10 pc(s).	
Type	RIM-I 3 110/230VUC GN	Version
Order No.	<a href="#">8869660000</a>	RIDERSERIES, LED module, Rated control voltage: 110...230 V UC, Plug-in connection
GTIN (EAN)	4032248614721	
Qty.	10 pc(s).	

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## Accessories

## Blank



ESG is the tried-and-tested marker in MultiCard format for use on many well-known electrical devices. The result is high-quality device marking with a high-contrast appearance.

Various types are available for devices from manufacturers like Siemens, ABB, Beckhoff etc.

Advantages at a glance:

- Tags for universal usage, self-adhesive or clip-on tags, depending on type
- For aligned equipment, e.g. circuit breakers, we supply ESG markers for clipping onto tag rails
- Individual laser-quality printing according to specifications

**For custom printing:** Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

## General ordering data

Type	ESG 9/26 SCM-I MC NE WS	Version
Order No.	<a href="#">2558330000</a>	ESG, Device markers x 26 mm, PA 66, Colour: white
GTIN (EAN)	4050118569049	
Qty.	80 pc(s).	

## ESG 6/15

**Guaranteed long service life: ESG**

The multi-colour and multi-format labels have a strong adhesive layer to ensure the best possible adhesion to the underlying surface. Double laminated polyester makes the basic material very thin and yet extremely tear-resistant.

**Your benefits with MultiMark**

- "Different materials for various requirements"
- Can be used with equipment from many manufacturers
- Device markers with a familiar design

## General ordering data

Type	ESG 6/15 MM WS	Version
Order No.	<a href="#">2619940000</a>	ESG, Device markers, 6 x 15 mm, white
GTIN (EAN)	4050118626148	
Qty.	3,000 pc(s).	

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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****Cross-connection for socket with screw connection**

Cross-connection for the sockets in the D-SERIES DRM.

**General ordering data**

Type	SCM-I QV S	Version
Order No.	<a href="#">1132080000</a>	RIDERSERIES RCM, Cross-connector
GTIN (EAN)	4032248912193	
Qty.	10 pc(s).	

**Retaining clips**

Retaining clip for RIDERSERIES RCM relays

- Metal and plastic retaining clip

**General ordering data**

Type	SCM-I CLIP P	Version
Order No.	<a href="#">8869440000</a>	RIDERSERIES RCM, Retaining clip
GTIN (EAN)	4032248614295	
Qty.	10 pc(s).	
Type	SCM-I CLIP M	Version
Order No.	<a href="#">8869450000</a>	RIDERSERIES RCM, Retaining clip
GTIN (EAN)	4032248614301	
Qty.	10 pc(s).	
Type	SCM-I CLIP N	Version
Order No.	<a href="#">8875620000</a>	RIDERSERIES RCM, Retaining clip
GTIN (EAN)	4032248608577	
Qty.	10 pc(s).	

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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****ESG 6/17****Guaranteed long service life: ESG**

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**Your benefits with MultiMark**

- "Different materials for various requirements"
- Can be used with equipment from many manufacturers
- Device markers with a familiar design

**General ordering data**

Type	ESG 6/17 MM WS	Version
Order No.	<a href="#">2005100000</a>	ESG, Device markers, 6 x 17 mm, white
GTIN (EAN)	4050118390728	
Qty.	3,000 pc(s).	

**Protective varistor**

Pluggable protective modules for the RIDERSERIES RCI / RCM relay sockets, with optional protective functions.

- With protective varistor
- For UC supply voltage

**General ordering data**

Type	RIM-I 4 230VUC VAR	Version
Order No.	<a href="#">8869750000</a>	RIDERSERIES, Protective varistor, Rated control voltage: 230 V UC,
GTIN (EAN)	4032248606368	Plug-in connection
Qty.	10 pc(s).	



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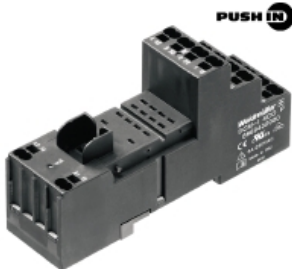
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## Accessories

## Sockets



relays sockets for RIDERSERIES RCM relays

- 2, 3 and 4 CO contacts
- Screw and PUSH IN connection
- Standard and low heights

## General ordering data

Type	SCM-I 2CO	Version
Order No.	<a href="#">8869400000</a>	RIDERSERIES RCM, Relay socket, Number of contacts: 2, CO contact,
GTIN (EAN)	4032248614264	Continuous current: 12 A, Screw connection
Qty.	10 pc(s).	
Type	SCM-I 4CO P	Version
Order No.	<a href="#">8869430000</a>	RIDERSERIES RCM, Relay socket, Number of contacts: 4, CO contact,
GTIN (EAN)	4032248614288	Continuous current: 6 A, PUSH IN
Qty.	10 pc(s).	
Type	SCM-I 4CO	Version
Order No.	<a href="#">8869420000</a>	RIDERSERIES RCM, Relay socket, Number of contacts: 4, CO contact,
GTIN (EAN)	4032248614271	Continuous current: 6 A, Screw connection
Qty.	10 pc(s).	
Type	SCM-I 4CO N	Version
Order No.	<a href="#">8869390000</a>	RIDERSERIES RCM, Relay socket, Number of contacts: 4, CO contact,
GTIN (EAN)	4032248614257	Continuous current: 6 A, Screw connection
Qty.	10 pc(s).	

## Cross-connection for socket with PUSH IN connection

Cross-connection for the sockets in the RIDERSERIES RCM



## General ordering data

Type	SCM-I QV P	Version
Order No.	<a href="#">8870850000</a>	RIDERSERIES RCM, Cross-connector
GTIN (EAN)	4032248631698	
Qty.	10 pc(s).	

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## Drawings

## Miscellaneous

		RCM						
Type	RIDER Control Multiple							
Type of contact	2 2CO 3 3CO 5 4CO							
Contact material	7 AgNi 90/10 with test button 8 AgNi 90/10 hgp, with test button							
							with LED	with LED
							LED + diode	
							Coil voltage	
							006 6 V DC	L06
							012 12 V DC	L12 AB2
							024 24 V DC	L24 AC4
							048 48 V DC	L48 AE8
							060 60 V DC	L60
							110 110 V DC	M10 BB0
							220 220 V DC	N20
							506 6 V AC	R06
							512 12 V AC	R12
							524 24 V AC	R24
							548 48 V AC	R48
							615 115 V AC	S15
							730 230 V AC	T30
							Type of construction	
							0 Standard, 2,8mm Faston	

Type codes