

RCM270R12**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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 and integrated status LED

General ordering data

Version	RIDERSERIES RCM, Relay, Number of contacts: 2, CO contact AgNi, Rated control voltage: 12 V AC, Continuous current: 12 A, Plug-in connection, Test button available: Yes
Order No.	8689750000
Type	RCM270R12
GTIN (EAN)	4032248360420
Qty.	10 pc(s).

Creation date January 8, 2022 6:50:03 PM CET

Catalogue status 17.12.2021 / We reserve the right to make technical changes.

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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	29.7 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	12 V AC	Rated current AC	90 mA
Power rating	1080 mVA	Pull-in/drop-out voltage, typ.	9.6 V / 3.6 V AC
Coil resistance	192 $\Omega \pm 10\%$	Status indicator	red LED

Load side

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

General data

Test button available	Yes	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	≥ 4 mm	Dielectric strength for control side - load side	2.5 kV _{eff} / 1 Min.
Dielectric strength of neighbouring contacts	2.5 kV _{eff} / 1 Min.	Dielectric strength of open contact	1.2 kV _{eff} / 1 min.
Impulse withstand voltage	5 kV (1.2/50 μ s)	Protection degree	IP20

Further details of approvals / standards

Standards	IEC 61810-1, UL508	Certificate No. (CSA)	249409-2426937
Certificate No. (VDE)	40011762	Certificate No. (cURus)	E224238

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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	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	CAD data – STEP
Engineering Data	EPLAN, WSCAD
Catalogues	Catalogues in PDF-format

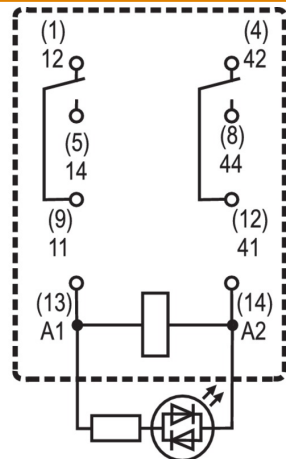
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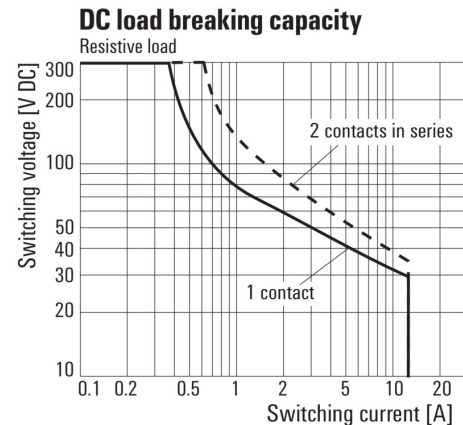
Drawings

Wiring diagram



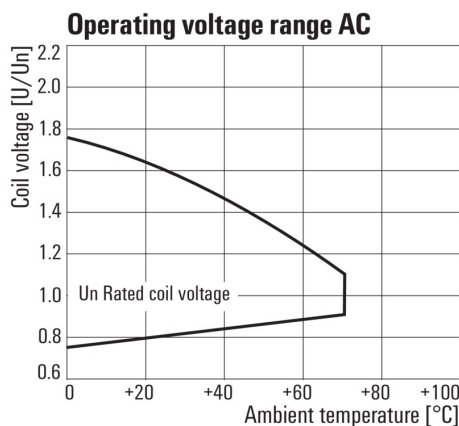
View of Pins from below

Graph



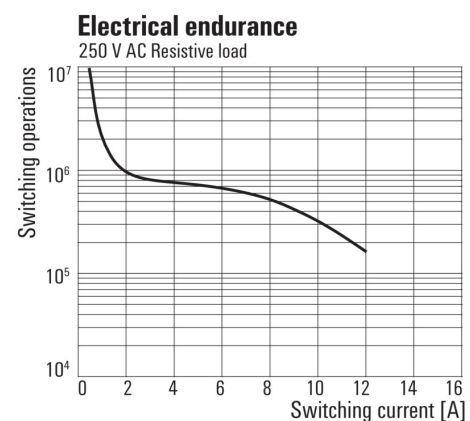
DC load limit curve
Resistive load

Graph



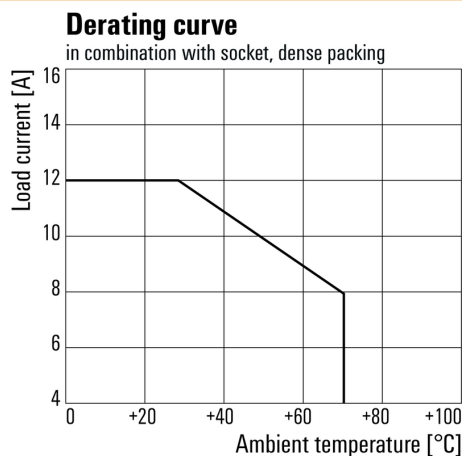
AC operational voltage range

Graph



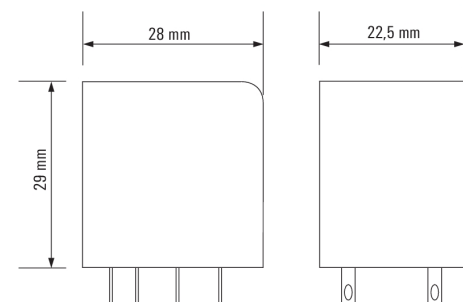
Electrical service life
250 V AC resistive load

Graph



Derating curve
Relay in combination with base

Dimensional drawing



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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