

RCM270AB2**Weidmüller Interfaces GmbH & Co. KG**

Postfach 3030

32760 Detmold

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Product image

Similar to illustration

Individual relays within the RIDERSERIES RCM

- 2 CO contacts
- DC coils
- With integrated status LED, free-wheeling diode and test button

General ordering data

Version	RIDERSERIES RCM, Relay, Number of contacts: 2, CO contact AgNi, Rated control voltage: 12 V DC, Continuous current: 12 A, Plug-in connection, Test button available: Yes
Order No.	8957020000
Type	RCM270AB2
GTIN (EAN)	4032248755295
Qty.	10 pc(s).

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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 DC	Rated current DC	63.3 mA
Power rating	760 mW	Pull-in/drop-out voltage, typ.	9 V / 1.2 V DC
Coil resistance	192 $\Omega \pm 10\%$	Coil tolerance	10 %
Status indicator	Green LED	Protective circuit	Free-wheeling diode

Load side

Rated switching voltage	240 V AC	Continuous current	12 A
Max. switching frequency at rated load	0.1 Hz	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	< 20 ms
Contact type	2 CO contact (AgNi)	Mechanical service life	AC coil 20×10^6 switching cycles, DC coil 30×10^6 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
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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Connection data

Wire connection method Plug-in connection

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	ECLASS 12.0	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
Brochures	

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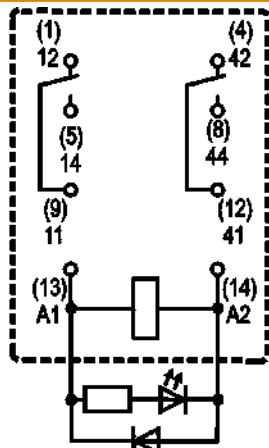
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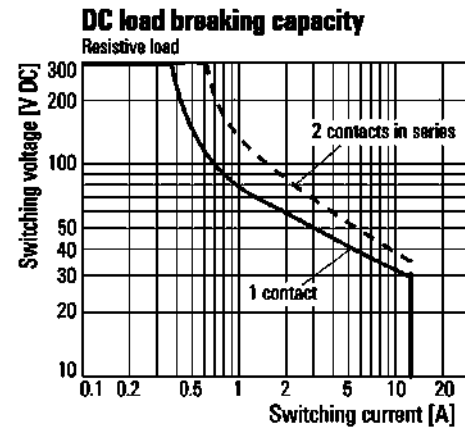
Drawings

Wiring diagram



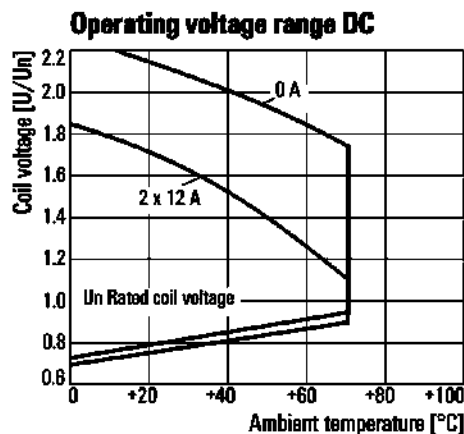
View of Pins from below

Graph



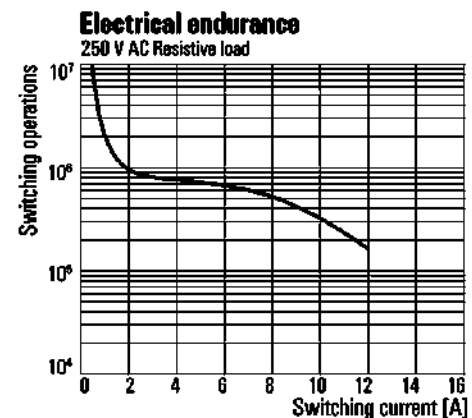
DC load limit curve
Resistive load

Graph



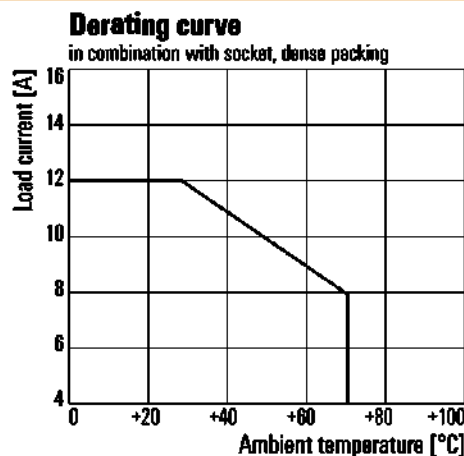
DC operational voltage range

Graph



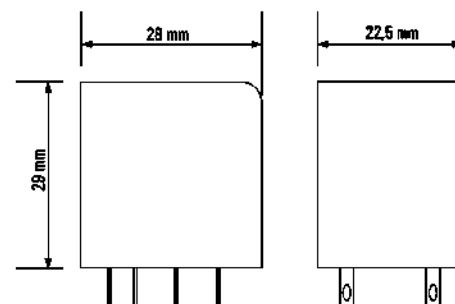
Electrical service life
250 V AC resistive load

Graph



Derating curve
Relay in combination with base

Dimensional drawing



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Drawings

Miscellaneous

		RCM						
Type	RIDER Control Multiple						Coil voltage	with LED + diode
Type of contact							006 6 V DC	L06
2 2C0							012 12 V DC	L12 AB2
3 3C0							024 24 V DC	L24 AC4
5 4C0							048 48 V DC	L48 AE8
Contact material							060 60 V DC	L60
7 AgNi 90/10 with test button							110 110 V DC	M10 BBO
8 AgNi 90/10 hgp, with test button							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