CRM40524

Similar to illustration

Individual relays within the CUBESERIES CRM

- Control voltages from 12 - 110 V DC and 24 - 230V AC
- 4 CO contact (7 A)
- Without test button with coloured blind plugs (AC coil: orange, DC coil: blue)

General ordering data

Version	CUBESERIES, Relay, Number of contacts: 4, CO contact AgNi, Rated control voltage: 24 V AC, Continuous current: 7 A, Plug-in connection, Test button available: No
Order No.	3052970000
Type	CRM40524
GTIN (EAN)	4099987022798
Qty.	10 items

Creation date 16.03.2026 08:23:37 MEZ

CRM40524

Technical data

Approvals

Approvals	
ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E223474

Dimensions and weights

Depth	35.5 mm	Depth (inches)	1.3976 inch
Height	27.4 mm	Height (inches)	1.0787 inch
Width	21 mm	Width (inches)	0.8268 inch
Net weight	35 g		

Temperatures

Storage temperature	-40 °C...85 °C	Ambient temperature	-40 °C...55 °C
Operating temperature		Humidity	25 °C / 95 % rel. humidity, no condensation

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

Rated data UL

Certificate No. (cURus)	E223474

Control side

Rated control voltage	24 V AC	Rated current AC	69 mA
Power rating	1.63 VA	Coil resistance	158 Ω ± 10 %
Status indicator	No		

Load side

Rated switching voltage	250 V AC	Continuous current	7 A
Max. switching frequency at rated load	0.1 Hz	Max. switching voltage, AC	250 V
Inrush current	16 A / 20 ms	AC switching capacity (resistive), max.	1500 VA
DC switching capacity (resistive), max.	168 W @ 24 V	Switch-on delay	≤ 20 ms
Switch-off delay	≤ 12 ms	Contact type	4 CO contact (AgNi)
Mechanical service life	2 x 107 switching cycles	Min. switching power	10 mA @ 12 V, 100 mA @ 5 V

General data

Operating altitude	≤ 2000 m, above sea level	Test button available	No
Mechanical switch position indicator	Yes	Colour	Transparent
UL 94 flammability rating	V-2		

Creation date 16.03.2026 08:23:37 MEZ

Technical data

Insulation coordination

Rated voltage	250 V	Pollution severity	2
Surge voltage category	II	Dielectric strength for control side - load side	2.5 kVeff / 1 Min.
Dielectric strength of neighbouring contacts	2 kVeff / 1 min	Dielectric strength of open contact	1.5 kVeff /1 min.
Impulse withstand voltage	4 kV (1.2/50 μs)	Protection degree	IP40

Further details of approvals / standards

Certificate No. (CSA)	607178-80219312	Certificate No. (VDE)	40059812
Certificate No. (cURus)	E223474		

Connection data

Wire connection method	Plug-in connection	Pitch in mm (P)	5.00 mm

Classifications

ETIM 8.0	EC001437	ETIM 9.0	EC001437
ETIM 10.0	EC001437	ECLASS 14.0	27-37-16-01
ECLASS 15.0	27-37-16-01		

Drawings

Connection diagram

Graph

DC load breaking capacity
Resistive load

Graph

Electrical Endurance at AC
Resistive load 250 V AC

Graph

Coil Operating Range AC
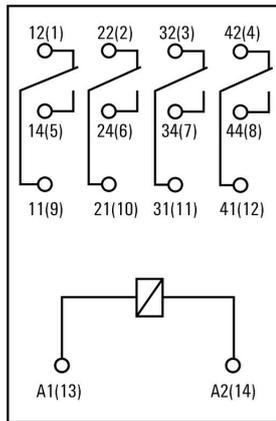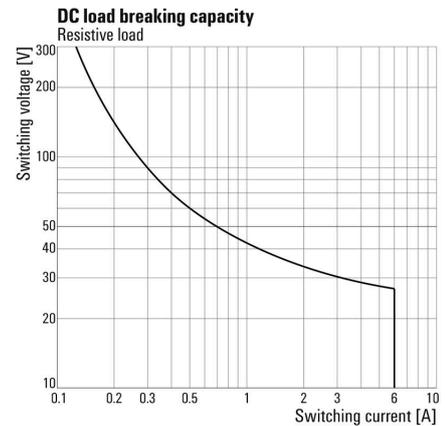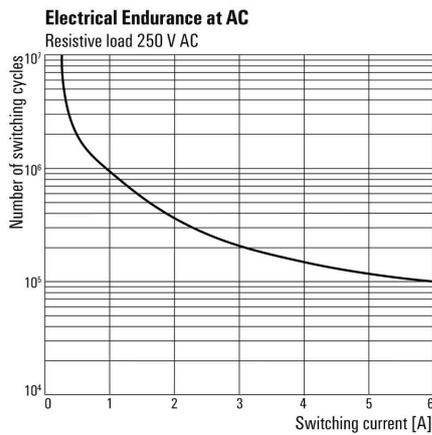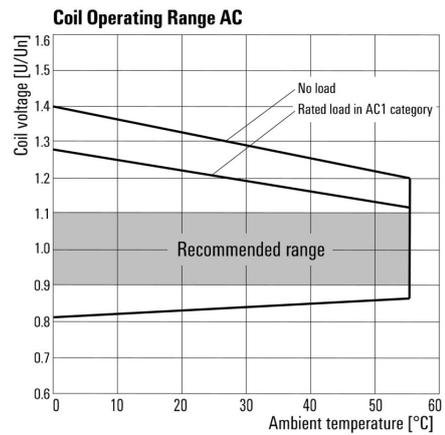
Dimensional drawing

5
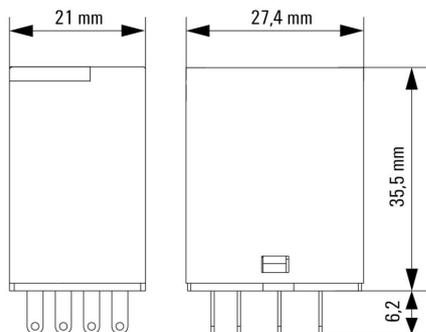
Miscellaneous

Type code CUBESERIES relay versions
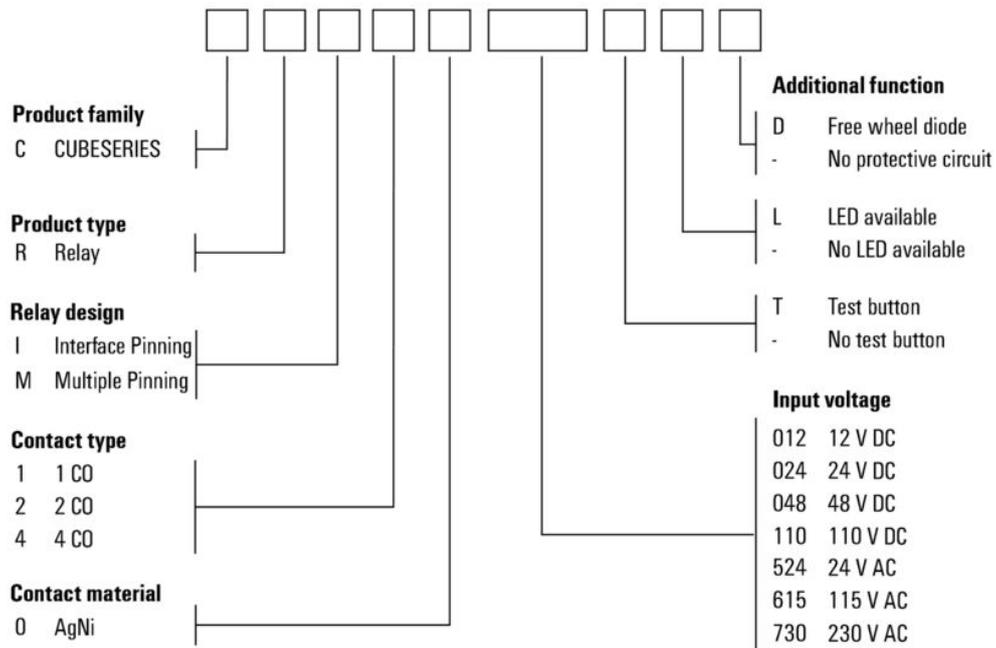
Product family
C   CUBESERIES

Product type
R   Relay

Relay design
I   Interface Pinning
M   Multiple Pinning

Contact type
1   1 CO
2   2 CO
4   4 CO

Contact material
0   AgNi

Additional function
D   Free wheel diode
-    No protective circuit

L   LED available
-    No LED available

T   Test button
-    No test button

Input voltage
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

Accessories

Protection modules

General ordering data

Type	CXX RC 51	Version	
Order No.	3053370000	CUBESERIES, RC element, Rated control voltage: 6...24 V UC, Plug-in	
GTIN (EAN)	4099987023160	connection	
Qty.	20 ST		
Type	CXX RC 52	Version	
Order No.	3053390000	CUBESERIES, RC element, Rated control voltage: 24...60 V UC, Plug-	
GTIN (EAN)	4099987023177	in connection	
Qty.	20 ST		

LED

General ordering data

Type	CXX L 62G	Version	
Order No.	3053440000	CUBESERIES, LED module, Rated control voltage: 24...60 V UC, Plug-	
GTIN (EAN)	4099987023221	in connection	
Qty.	20 ST		
Type	CXX L 62R	Version	
Order No.	3053430000	CUBESERIES, LED module, Rated control voltage: 24...60 V UC, Plug-	
GTIN (EAN)	4099987023214	in connection	
Qty.	20 ST		

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Accessories

Protection modules

General ordering data

Type	CXX V 71	Version	
Order No.	3053470000	CUBESERIES, Protective varistor, Rated control voltage: 6...24 V AC,	
GTIN (EAN)	4099987023252	Plug-in connection	
Qty.	20 ST		
Type	CXX V 72	Version	
Order No.	3053480000	CUBESERIES, Protective varistor, Rated control voltage: 110...130 V	
GTIN (EAN)	4099987023269	AC, Plug-in connection	
Qty.	20 ST		

Relay sockets

Relay sockets for the CUBESERIES CRM relays
- 4 CO output version for 2 CO and 4 CO relays
- Screw and PUSH IN connection
- PUSH IN sockets with wide pushers for screwdrivers up to 1.0 x 5.5 mm blade size
- Various cross connection possibilities
- Matching accessories such as cross-connections, retaining clips and LED modules

General ordering data

Type	CSM P 4CO	Version	
Order No.	3053140000	CUBESERIES, Relay socket, Number of contacts: 4, CO contact,	
GTIN (EAN)	4099987022965	Continuous current: 8 A, PUSH IN	
Qty.	10 ST		
Type	CSM S 4CO	Version	
Order No.	3053160000	CUBESERIES, Relay socket, Number of contacts: 4, CO contact,	
GTIN (EAN)	4099987022989	Continuous current: 6 A, Screw connection	
Qty.	10 ST		

Accessories

Cross-connections

General ordering data

Type	CXM CCP 2P BL	Version	
Order No.	3053230000	CUBESERIES, Cross-connector	
GTIN (EAN)	4099987023054		
Qty.	20 ST		
Type	CXM CCP 2P RD	Version	
Order No.	3053220000	CUBESERIES, Cross-connector	
GTIN (EAN)	4099987023047		
Qty.	20 ST		
Type	CXM CCP 8P BL	Version	
Order No.	3053210000	CUBESERIES, Cross-connector	
GTIN (EAN)	4099987023030		
Qty.	10 ST		
Type	CXM CCP 8P RD	Version	
Order No.	3053200000	CUBESERIES, Cross-connector	
GTIN (EAN)	4099987023023		
Qty.	10 ST		
Type	CXM CCS 6P GY	Version	
Order No.	3053180000	CUBESERIES, Cross-connector	
GTIN (EAN)	4099987023009		
Qty.	2 ST		

Retaining clips

Retaining clips for CUBESERIES CRI relays.
Plastic retaining clip:
• With relay ejector function
• Marking slots for MultiFit markers
• Fits on relays with and without test button
Metal retaining clip:
• For a strong hold of the relay in the socket

General ordering data

Type	CXM CLIP P	Version	
Order No.	3053240000	CUBESERIES, Retaining clip	
GTIN (EAN)	4099987023061		
Qty.	10 ST		

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Accessories

Type	CXM CLIP M	Version	
Order No.	3053190000	CUBESERIES, Retaining clip	
GTIN (EAN)	4099987023016		
Qty.	25 ST		

Cross-connections

General ordering data

Type	CXX JMP 2P BL	Version	
Order No.	3053260000	CUBESERIES, Cross-connector	
GTIN (EAN)	4099987023085		
Qty.	30 ST		
Type	CXX JMP 2P RD	Version	
Order No.	3053250000	CUBESERIES, Cross-connector	
GTIN (EAN)	4099987023078		
Qty.	30 ST		

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Counterpart

Relay sockets

Relay sockets for the CUBESERIES CRM relays
- 4 CO output version for 2 CO and 4 CO relays
- Screw and PUSH IN connection
- PUSH IN sockets with wide pushers for screwdrivers up to 1.0 x 5.5 mm blade size
- Various cross connection possibilities
- Matching accessories such as cross-connections, retaining clips and LED modules

General ordering data

Type	CSM P 4CO	Version	
Order No.	3053140000	CUBESERIES, Relay socket, Number of contacts: 4, CO contact,	
GTIN (EAN)	4099987022965	Continuous current: 8 A, PUSH IN	
Qty.	10 ST		

Type	CSM S 4CO	Version	
Order No.	3053160000	CUBESERIES, Relay socket, Number of contacts: 4, CO contact,	
GTIN (EAN)	4099987022989	Continuous current: 6 A, Screw connection	
Qty.	10 ST		

Creation date 16.03.2026 08:23:37 MEZ