Interface options for measuring and monitoring relays of the XM420 series

Power in electrical safety

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Measuring and monitoring relays of the XM420 series

XM420 series

Device features

- Flexible interface options for devices of the XM420 series
- Easy transfer or transmission of measured values to instrumentation and control engineering
- Due to a galvanically isolated interface measured values are not adversely affected.

Description

The standard measuring and monitoring relays of the XM420 series include two alarm relays with one changeover contact each. In addition the following options are available:

- **Option M**
  Analogue output, galvanically isolated, output signal selectable via the menu:
  DC 0…400 µA current output for Bender measuring instruments of the 96… series.
  DC 0…10 V standardized voltage signal
  DC 0/4…20 mA standardized current output

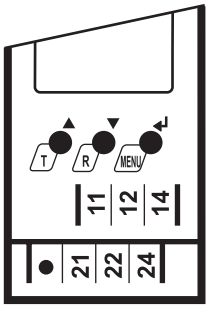
- **Option M1C**
  Analogue output 0/4…20 mA (not galvanically isolated), one changeover contact to be used as a freely configurable alarm message.

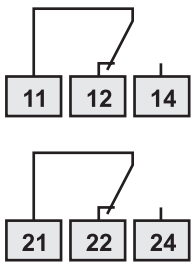
- **Option M2C**
  Analogue output 0…400 µA (not galvanically isolated), one changeover contact to be used as a freely configurable alarm message.

- **Option M3C**
  Analogue output 0…10 V (not galvanically isolated), one changeover contact to be used as a freely configurable alarm message.

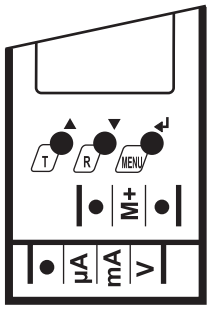
Interface options

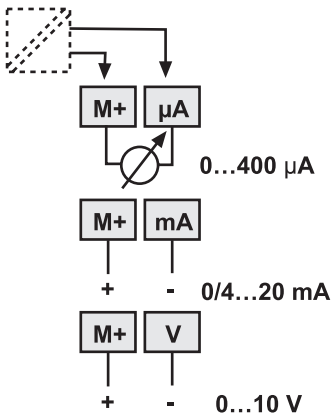
Standard



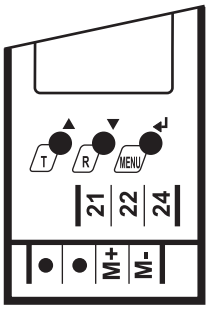


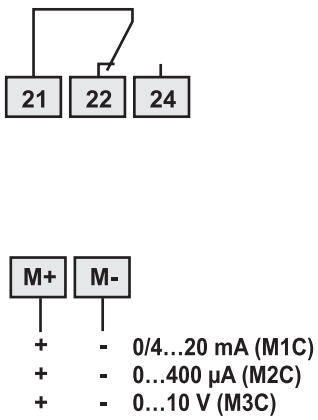
Option M





Option M1C / M2C / M3C





Overview

Series	Option M	Option M1C	Option M2C	Option M3C
RCM42…	×	×	×	×
RCMA42…	×	×	×	×
VME42…	×	--	--	--
VMD42…	×	--	--	--
CME42…	×	--	--	--

Ordering information

Type	Designation	Standard	Art. No.
CME420-D-1	Current relay	X	B 9306 0001
CME420-D-2	Current relay	X	B 9306 0002
RCM420-D-1	Residual current monitor	X	B 9401 4001
RCM420-D-2	Residual current monitor	X	B 9401 4002
RCMA420-D-1	Residual current monitor	X	B 9404 3001
RCMA420-D-2	Residual current monitor	X	B 9404 3002
VMD420-D-1	Voltage relay 3ph 3NAC	X	B 9301 0005
VMD420-D-2	Voltage relay 3ph 3NAC	X	B 9301 0006
VMD421-H-D-3	Voltage relay 3ph 3NAC	X	B 9301 0007
VME420-D-1	Voltage relay 1ph AC/DC	X	B 9301 0001
VME420-D-2	Voltage relay 1ph AC/DC	X	B 9301 0002
VME421-H-D-1	Voltage relay 1ph AC/DC	X	B 9301 0003
VME421-H-D-2	Voltage relay 1ph AC/DC	X	B 9301 0004

Options M, M1C, M2C and M3C on request

Technical data

Switching elements

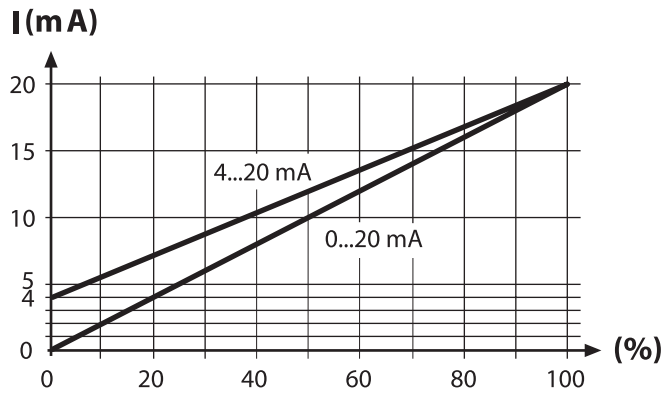
Number of changeover contacts, standard:	2 x 1 changeover contacts				
Number of changeover contacts: option M1C, M2C, M3C	1 changeover contact				
Electrical service life under rated operating conditions	10.000 switching operations				
Contact data acc. to IEC 60947-5-1					
Utilization category	AC-13	AC-14	DC-12	DC-12	DC-12
Rated operational voltage	230 V	230 V	24 V	110 V	220 V
Rated operational current	5 A	3 A	1 A	0,2 A	0.1 A
Minimum contact load	1 mA at AC / DC > 10 V				

General data

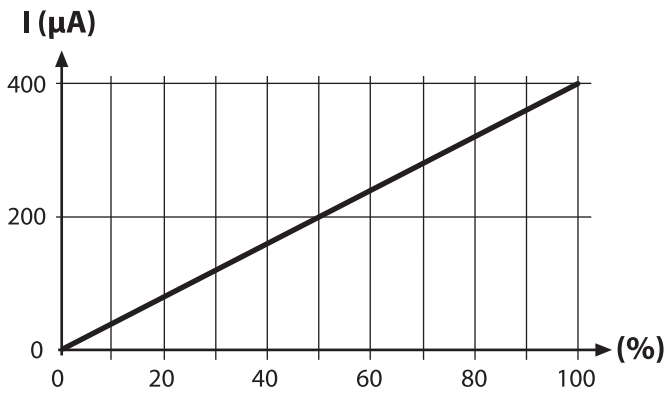
Max. no load voltage (terminals open)	DC 20 V
Max. short-circuit current	30 mA short-circuit proof
Voltage output	DC 0…10 V
Load min.	1 kΩ
Current output	DC 0/4…20 mA
Load max.	500 Ω
Current output	DC 0…400 µA
Load max.	12.5 kΩ

( )* factory setting

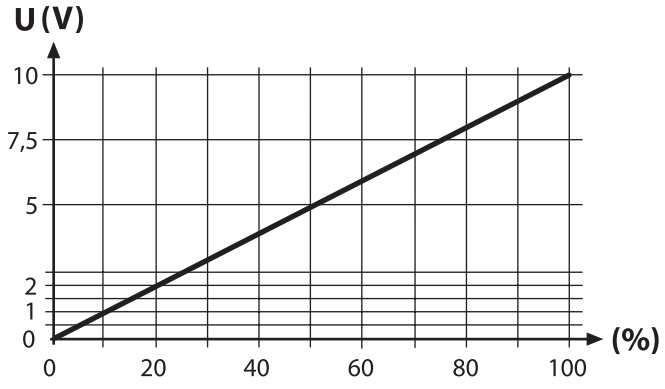
Current output 0/4…20 mA



Current output 0…400 µA



Current output 0…10 V



Note:

A free configurable value (I, U, $I_{\Delta n}$, Asy) or the response value of the respective device can be set as 100% value via the menu.

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