

## Residual current circuit breaker (RCCB), 25A, 4p, 300mA, type U

Powering Business Worldwide\*

Part no. FRCMM-25/4/03-U
Article no. 170463
Catalog No. FRCMM-25/4/03-U

Similar to illustration

Del	liverv	, pro	gram
		Piv	giani

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Basic function			Residual current circuit breakers
Number of poles			4 pole
Application			Residual current circuit-breaker - frequency converter-proof
Rated current	In	Α	25
Rated short-circuit strength	I <sub>cn</sub>	kA	10 with back-up fuse
Rated fault current	$I_{\Delta N}$	Α	0.3
Туре			Type U
Tripping		Α	selective switch off
Product range			FRCmM
Sensitivity			Pulse-current sensitive
Impulse withstand current			surge-proof 5 kA
Contact sequence			1 3 5 N

## **Technical data**

#### **Electrical**

Types conform to			IEC/EN 61008
Current test marks			As per inscription
Tripping		Α	40 ms delay - selective switch off
Rated operating voltage	Un	V AC	240/415
Rated frequency	f	Hz	50
Limit values of the operating voltage			
Test circuit		V AC	196 - 456
Rated fault current	$I_{\Delta n}$	mA	300
Sensitivity			Pulse-current sensitive
Enhanced sensitivity			Suitable for variable frequency drives
Rated insulation voltage	Ui	V	440
Rated impulse withstand voltage	U <sub>imp</sub>	kV	4 (1.2/50μs)
Rated short-circuit strength	I <sub>cn</sub>	kA	10 with back-up fuse
Impulse withstand current			5 kA (8/20 µs) surge-proof
Max. admissible back-up fuse			
Short-circuit	gG/gL	Α	63
Overload	gG/gL	Α	25
Rated making and breaking capacity / Rated residual making and breaking capacity	$I_m/I_{\Delta m}$	Α	500
lifespan			
Electrical			s <u>≃</u> <sub>2000</sub>
Mechanical		Operation	≦= 10000

#### Mechanical

McChairea		
Standard front dimension	mm	45
Device height	mm	80
Built-in width	mm	70 (4TE)
Mounting		Quick attachment with 2 latch positions for DIN-rail IEC/EN 60715
Degree of Protection		IP20 switches

		IP 40 enclosed
Terminals top and bottom		Twin-purpose terminals
Terminal protection		Busbar tag shroud to BGV A3, ÖVE-EN 6
Terminal cross-section		
Solid	mm <sup>2</sup>	1.5 - 35
Stranded	mm <sup>2</sup>	2 x 16
Terminal cross-section		M5 (with cross-recessed screw as defined in EN ISO 4757-Z2, Pozidriv PZ2)
Tightening torque of fixing screws	N/m	2 - 2.4
Thickness of busbar material	mm	0.8 - 2
Admissible ambient temperature range	°C	-25 - +40
Permissible storage and transport temperatures	°C	-35 - +60
Climatic proofing		according to IEC/EN 61008
Mounting position		As required
Contact position indicator		red / green
Trip indication		white / blue

# Design verification as per IEC/EN 61439

Technical data for design verification		
Operating ambient temperature min.	°C	-25
Operating ambient temperature max.	°C	40

## **Technical data ETIM 6.0**

Electric engineering, automation, process control engineering / Electrical installation, device / Residual current circuit breaker (RCCB) (ecl@ss8.1-27-14-22-01 [AAB906011])  Number of poles  Nominal rated voltage  V	Technical data Etim 6.0			
CECI©SS8.1-27-14-22-01 [AAB906011])   Number of poles	Circuit breakers and fuses (EG000020) / Residual current circuit breaker (RCCB) (EC000003)			
Nominal rated voltage  Nominal rated current  A 25  Rated fault current  A 0.3  Mounting method  Leakage current type  Selective protection  Short-circuit breaking capacity (Icw)  Short-circuit breaking capacity (Icw)  KA 10  Surge current capacity  KA 5  Frequency  Additional equipment possible  Degree of protection (IP)  Construction size (in accordance with DIN 43880)  Width in number of modular spacings  Built-in depth  M 25  A 4  10  Yes  50 Hz  Yes  IP20  Late (in accordance with DIN 43880)  Midth in number of modular spacings  M 30.5	Electric engineering, automation, process control engineering / Electrical installation, device / Residual current protection system / Residual current circuit breaker (RCCB) (ecl@ss8.1-27-14-22-01 [AAB906011])			
Nominal rated current A 25 Rated fault current A 0.3 Mounting method Leakage current type Selective protection Short-circuit breaking capacity (Icw) Surge current capacity KA 10 Surge current capacity KA 5 Frequency Additional equipment possible Degree of protection (IP) Construction size (in accordance with DIN 43880) Width in number of modular spacings Built-in depth  A 25 A 3 Bailt-in depth A 10  Ves Ves Ves IP20  1 1 4 Built-in depth  mm 70.5	Number of poles		4	
Rated fault current  Mounting method  Leakage current type  Selective protection  Short-circuit breaking capacity (lcw)  Surge current capacity  Frequency  Additional equipment possible  Degree of protection (IP)  Construction size (in accordance with DIN 43880)  Width in number of modular spacings  Built-in depth  A  0.3  A  0.3  A  A  10  Soll T  Yes  50 Hz  Yes  120  140  1720	Nominal rated voltage	V	415	
Mounting method Leakage current type Selective protection Yes Short-circuit breaking capacity (Icw) KA Surge current capacity Frequency Additional equipment possible Degree of protection (IP) Construction size (in accordance with DIN 43880) Width in number of modular spacings Built-in depth  DIN rail A  A  Yes  Yes  50 Hz  Yes  11  4  Mmm 70.5	Nominal rated current	А	25	
Leakage current type Selective protection Yes Short-circuit breaking capacity (Icw) KA 10 Surge current capacity KA 5 Frequency Additional equipment possible Degree of protection (IP) Construction size (in accordance with DIN 43880) Width in number of modular spacings Built-in depth  A  Yes  10  Yes  11  4  Mm 70.5	Rated fault current	А	0.3	
Selective protection  Selective protection  Yes  Short-circuit breaking capacity (Icw)  KA  10  Surge current capacity  KA  5  Frequency  Additional equipment possible  Degree of protection (IP)  Construction size (in accordance with DIN 43880)  Width in number of modular spacings  Built-in depth  Yes  1  Yes  10  Yes  10  Yes  11  11  12  13  14  15  15  16  17  17  18  18  18  18  18  18  18  18	Mounting method		DIN rail	
Short-circuit breaking capacity (Icw)  Surge current capacity  kA  5  Frequency  Additional equipment possible  Degree of protection (IP)  Construction size (in accordance with DIN 43880)  Width in number of modular spacings  Multi-in depth  May 10  10  10  10  10  10  10  10  10  10	Leakage current type		A	
Surge current capacity  kA 5  Frequency  Additional equipment possible  Degree of protection (IP)  Construction size (in accordance with DIN 43880)  Width in number of modular spacings  Built-in depth  kA 5  Frequency  Yes  IP20  1  1  70.5	Selective protection		Yes	
Frequency 50 Hz Additional equipment possible Yes Degree of protection (IP) IP20 Construction size (in accordance with DIN 43880) 1 Width in number of modular spacings 4 Built-in depth mm 70.5	Short-circuit breaking capacity (Icw)	kA	10	
Additional equipment possible  Degree of protection (IP)  Construction size (in accordance with DIN 43880)  Width in number of modular spacings  Built-in depth  Yes  IP20  1  1  1  1  1  1  1  1  1  1  1  1  1	Surge current capacity	kA	5	
Degree of protection (IP)  Construction size (in accordance with DIN 43880)  Width in number of modular spacings  Built-in depth  IP20  4  70.5	Frequency		50 Hz	
Construction size (in accordance with DIN 43880)  Width in number of modular spacings  4  Built-in depth  mm  70.5	Additional equipment possible		Yes	
Width in number of modular spacings 4  Built-in depth mm 70.5	Degree of protection (IP)		IP20	
Built-in depth mm 70.5	Construction size (in accordance with DIN 43880)		1	
	Width in number of modular spacings		4	
Short-time delayed tripping No	Built-in depth	mm	70.5	
	Short-time delayed tripping		No	

#### **Dimensions** 5,5