



## Residual current circuit breaker (RCCB), 80A, 2p, 100mA, type A

**Part no.** FRCMM-80/2/01-A  
**Article no.** 170276  
**Catalog No.** FRCMM-80/2/01-A

Similar to illustration

## Delivery program

Basic function			Residual current circuit breakers
Number of poles			2 pole
Application			Switchgear for industrial and advanced commercial applications
Rated current	$I_n$	A	80
Rated short-circuit strength	$I_{cn}$	kA	10 with back-up fuse
Rated fault current	$I_{\Delta N}$	A	0.1
Type			Type A
Tripping		A	non-delayed
Product range			FRCmM
Sensitivity			Pulse-current sensitive
Impulse withstand current			Partly surge-proof 250 A
Contact sequence			

## Technical data

### Electrical

Types conform to			IEC/EN 61008
Current test marks			As per inscription
Tripping		A	non-delayed
Rated operating voltage	$U_n$	V AC	240/415
Rated frequency	$f$	Hz	50
Limit values of the operating voltage			
Test circuit		V AC	196 - 264
Rated fault current	$I_{\Delta n}$	mA	100
Sensitivity			Pulse-current sensitive
Rated insulation voltage	$U_i$	V	440
Rated impulse withstand voltage	$U_{imp}$	kV	4 (1.2/50 $\mu$ s)
Rated short-circuit strength	$I_{cn}$	kA	10 with back-up fuse
Impulse withstand current			250 A (8/20 $\mu$ s) surge-proof
Max. admissible back-up fuse			
Short-circuit	gG/gL	A	80
Overload	gG/gL	A	80
Rated making and breaking capacity / Rated residual making and breaking capacity	$I_m / I_{\Delta m}$	A	800
lifespan			
Electrical		Operations	2000
Mechanical		Operations	10000

### Mechanical

Standard front dimension		mm	45
Device height		mm	80

Built-in width	mm	35 (2TE)
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

Circuit breakers and fuses (EG000020) / Residual current circuit breaker (RCCB) (EC000003)

Electric engineering, automation, process control engineering / Electrical installation, device / Residual current protection system / Residual current circuit breaker (RCCB)  
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Number of poles		2
Nominal rated voltage	V	240
Nominal rated current	A	80
Rated fault current	A	0.1
Mounting method		DIN rail
Leakage current type		A
Selective protection		No
Short-circuit breaking capacity (I <sub>cn</sub> )	kA	10
Surge current capacity	kA	0.25
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		2
Built-in depth	mm	70.5
Short-time delayed tripping		No

## Dimensions

