



## Residual current circuit breaker (RCCB), 40A, 2p, 300mA, type AC

**Part no.** FRCMM-40/2/03  
**Catalog No.** 170404  
**Eaton Catalog No.** FRCMM-40/2/03

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	40
Rated short-circuit strength	$I_{cn}$	kA	10 with back-up fuse
Rated fault current	$I_{\Delta N}$	A	0.3
Type			Type AC
Tripping		A	non-delayed
Product range			FRCmM
Sensitivity			AC 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	300
Sensitivity			AC 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	63
Overload	gG/gL	A	40
Rated making and breaking capacity / Rated residual making and breaking capacity	$I_m / I_{\Delta m}$	A	500
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			
Rated operational current for specified heat dissipation	I <sub>n</sub>	A	40
Heat dissipation per pole, current-dependent	P <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	5.5
Static heat dissipation, non-current-dependent	P <sub>vs</sub>	W	0
Heat dissipation capacity	P <sub>diss</sub>	W	0
Operating ambient temperature max.		°C	-25
Operating ambient temperature max.		°C	55
			Starting at 40 °C, the max. permissible continuous current decreases by 3% for every 1 °C

## 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) (ecl@ss8.1-27-14-22-01 [AAB906011])			
Number of poles			2
Nominal rated voltage		V	240
Nominal rated current		A	40
Rated fault current		A	0.3
Mounting method			DIN rail
Leakage current type			AC
Selective protection			No
Short-circuit breaking capacity (I <sub>cw</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

