

Residual current circuit breaker (RCCB), 100A, 4p, 30mA, type G

Powering Business Worldwide*

 Part no.
 FRCMM-100/4/003-G

 Article no.
 170372

 Catalog No.
 FRCMM-100/4/003-G

Similar to illustration

Del	ivery	nro	aram

zonion, program			
Basic function			Residual current circuit breakers
Number of poles			4 pole
Application			Switchgear for industrial and advanced commercial applications
Rated current	In	Α	100
Rated short-circuit strength	I _{cn}	kA	10 with back-up fuse
Rated fault current	$I_{\Delta N}$	Α	0.03
Туре			Type G (ÖVE E 8601)
Tripping		Α	Short time-delayed
Product range			FRCmM
Sensitivity			AC current sensitive
Impulse withstand current			Surge-proof, 3 kA
Contact sequence			1 3 5 N T D D D D D D D D D D D D D D D D D D D

Technical data

Flectrical

Electrical			
Types conform to			ÖVE E 8601
Current test marks			As per inscription
Tripping		Α	10 ms 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	30
Sensitivity			AC current sensitive
Rated insulation voltage	Ui	V	440
Rated impulse withstand voltage	U _{imp}	kV	4 (1.2/50µs)
Rated short-circuit strength	I _{cn}	kA	10 with back-up fuse
Impulse withstand current			3 kA (8/20 µs) surge-proof
Max. admissible back-up fuse			
Short-circuit	gG/gL	Α	100
Overload	gG/gL	Α	80
Rated making and breaking capacity / Rated residual making and breaking capacity	$I_m / I_{\Delta m}$	Α	1000
lifespan			
Electrical			n <u>≦≃</u> ₂₀₀₀
Mechanical		Operation	n≦⊇ ₁₀₀₀₀
Mechanical			

Standard front dimension	ı	mm	45
Device height	ı	mm	80
Built-in width	ı	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 ²	1.5 - 35
Stranded	mm^2	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	In	Α	100
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	18.8
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.		°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

Technical data Ettivi 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		4	l e e e e e e e e e e e e e e e e e e e
Nominal rated voltage	V	/ 4	115
Nominal rated current	A	A 1	00
Rated fault current	A	A 0	0.03
Mounting method		D	DIN rail
Leakage current type		Δ	AC
Selective protection		N	No
Short-circuit breaking capacity (Icw)	k	κA 1	0
Surge current capacity	k	(A 3	3
Frequency		5	50 Hz
Additional equipment possible		Υ	/es
Degree of protection (IP)		II	P20
Construction size (in accordance with DIN 43880)		1	
Width in number of modular spacings		4	
Built-in depth	m	nm 7	0.5
Short-time delayed tripping		Υ	/es

Dimensions 5,5