

Residual current circuit breaker (RCCB), 100A, 4p, 300mA, type U

Powering Business Worldwide*

Part no. FRCMM-100/4/03-U
Article no. 170467
Catalog No. FRCMM-100/4/03-U

Similar to illustration

110	INCE	nro	gram
	IIVEIV	,	

Don'tory program			
Basic function			Residual current circuit breakers
Number of poles			4 pole
Application			Residual current circuit-breaker - frequency converter-proof
Rated current	In	Α	100
Rated short-circuit strength	I _{cn}	kA	10 with back-up fuse
Rated fault current	$I_{\Delta N}$	Α	0.3
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 H 2 4 6 N

Technical data

Electrical

		IEC/EN 61008
		As per inscription
	Α	40 ms delay - selective switch off
Un	V AC	240/415
f	Hz	50
	V AC	196 - 456
$I_{\Delta n}$	mA	300
		Pulse-current sensitive
		Suitable for variable frequency drives
Ui	V	440
U _{imp}	kV	4 (1.2/50µs)
I _{cn}	kA	10 with back-up fuse
		5 kA (8/20 µs) surge-proof
gG/gL	Α	100
gG/gL	Α	80
$I_m/I_{\Delta m}$	Α	1000
	Operation	10000
	f I∆n Ui Uimp Icn gG/gL gG/gL	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

Mechanical

Weenumen		
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 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

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

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

Electric engineering, automation, process control engineering / Electrical installation, device / Residual current protection system / Residual current circuit breaker (RCC
(ecl@ss8.1-27-14-22-01 [AAB906011])

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
Nominal rated voltage	V	415
Nominal rated current	А	100
Rated fault current	А	0.3
Mounting method		DIN rail
Leakage current type		A
Selective protection		Yes
Short-circuit breaking capacity (Icw)	kA	10
Surge current capacity	kA	5
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	m 70.5
Short-time delayed tripping		No

Dimensions 5,5