



Residual current circuit breaker (RCCB), 25A, 4p, 30mA, type A

Part no. FRCMM-25/4/003-A-NA-110
Article no. 167699
Catalog No. PDC-TBD6257

Similar to illustration

Delivery program

Basic function			Residual current circuit breakers
Number of poles			4 pole
Application			Switchgear for 110-V systems
Rated current	I_n	A	25
Rated short-circuit strength	I_{cn}	kA	10 with back-up fuse
Rated fault current	$I_{\Delta N}$	A	0.03
Type			Type A
Tripping		A	non-delayed
Product range			FRCmM-NA-110
Sensitivity			Pulse-current sensitive
Impulse withstand current			Partly surge-proof 250 A
Contact sequence			


Technical data

Electrical

Types conform to			IEC/EN 61008 ÖVE E 8601
Current test marks			As per inscription
Tripping		A	non-delayed
Rated operating voltage	U_n	V AC	110/190
Rated frequency	f	Hz	50/60
Limit values of the operating voltage			
Test circuit		V AC	94 - 121
Rated fault current	$I_{\Delta n}$	mA	30
Sensitivity			Pulse-current sensitive
Rated insulation voltage	U_i	V	440
Rated impulse withstand voltage	U_{imp}	kV	4 (1.2/50 μ s)
Rated short-circuit strength	I_{cn}	kA	10 with back-up fuse
Impulse withstand current			250 A (8/20 μ s) surge-proof
Max. admissible back-up fuse			
Short-circuit	gG/gL	A	63
Overload	gG/gL	A	25
Rated making and breaking capacity / Rated residual making and breaking capacity	$I_m / I_{\Delta m}$	A	500
lifespan			
Electrical		Operations	2000
Mechanical		Operations	5000

Electrical

Types conform to			UL1053
Current test marks			As per inscription
Tripping			non-delayed
Rated operating voltage	U_n		208/120 V, 60 Hz
Limit values of the operating voltage			

Test circuit		V AC	94 - 132
Pick-up current		mA	22
Sensitivity			Pulse-current sensitive
Overvoltage-tested		V	530
Rated impulse withstand voltage	U_{imp}	kV	4 (1.2/50 μ s)
Rated short-circuit strength	I_{cn}	kA	5 as per CSA
Max. admissible back-up fuse			
Short-circuit			70 A class J fuse
Overload			The maximum operating current must not exceed the residual current circuit-breaker's rated operational current
Rated making and breaking capacity / Rated residual making and breaking capacity	$I_m / I_{\Delta m}$	A	500
lifespan			
Electrical		Operations	 2000
Mechanical		Operations	 5000

Mechanical

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			Lift 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)
Admissible ambient temperature range		°C	-25 - +40
Permissible storage and transport temperatures		°C	-35 - +60
Climatic proofing			according to IEC/EN 61008
Humidity		%	5 - 95
Pollution degree			2
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_n	A	25
Heat dissipation per pole, current-dependent	P_{vid}	W	0
Equipment heat dissipation, current-dependent	P_{vid}	W	3.1
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

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
Nominal rated voltage		V	190
Nominal rated current		A	25

Rated fault current	A	0.03
Mounting method		DIN rail
Leakage current type		A
Selective protection		No
Short-circuit breaking capacity (I _{cn})	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		4
Built-in depth	mm	70.5
Short-time delayed tripping		No

Dimensions

