

Residual current circuit breaker (RCCB), 40A, 4p, 30mA, type A

Powering Business Worldwide*

Part no. FRCMM-40/4/003-A Article no. 170333 Catalog No. FRCMM-40/4/003-A

Similar to illustration

Delivery program

Delivery program			
Basic function			Residual current circuit breakers
Number of poles			4 pole
Application			Switchgear for industrial and advanced commercial applications
Rated current	In	Α	40
Rated short-circuit strength	I _{cn}	kA	10 with back-up fuse
Rated fault current	$I_{\Delta N}$	Α	0.03
Туре			Туре А
Tripping		Α	non-delayed
Product range			FRCmM
Sensitivity			Pulse-current sensitive
Impulse withstand current			Partly surge-proof 250 A
Contact sequence			1 3 5 N 1 3 5 N 1 4 6 N

Technical data

Electrical

Electrical			
Types conform to			IEC/EN 61008
Current test marks			As per inscription
Tripping		Α	non-delayed
Rated operating voltage	Un	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			Pulse-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			250 A (8/20 μs) surge-proof
Max. admissible back-up fuse			
Short-circuit	gG/gL	Α	63
Overload	gG/gL	Α	40
Rated making and breaking capacity / Rated residual making and breaking capacity	$I_m / I_{\Delta m}$	Α	500
lifespan			
Electrical			ns== 2000
Mechanical		Operation	n≧ 10000
Mechanical			
Standard front dimension		mm	45

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		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	40
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	13.1
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

Electric engineering, automation, process control engineering / Electrical installation, device / Residual current circuit breaker (RCCB) (leci@ss8.1-27-14-22-01 [AAB906011]) Number of poles Nominal rated voltage V	16Chillear uata Errivi 0.0			
Cecl@ss8.1-27-14-22-01 [AAB906011]) Number of poles	Circuit breakers and fuses (EG000020) / Residual current circuit breaker (RCCB) (EC	Circuit breakers and fuses (EG000020) / Residual current circuit breaker (RCCB) (EC000003)		
Nominal rated voltage Nominal rated current A 40 Rated fault current A 0.03 Mounting method Leakage current type Selective protection Short-circuit breaking capacity (Icw) Short-circuit breaking capacity (Icw) KA 10 Surge current capacity Frequency Additional equipment possible Degree of protection (IP) Construction size (in accordance with DIN 43880) Width in number of modular spacings Built-in depth Wind 15 A 0.03 DIN rail A 10 KA 10 KB 10 Frequency Frequency Frequency 10 Frequency 10 Frequency 11 4 Mmm 70.5	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])			
Nominal rated current A 40 Rated fault current A 0.03 Mounting method Leakage current type A No Selective protection No Short-circuit breaking capacity (Icw) KA 10 Surge current capacity KA 0.25 Frequency Additional equipment possible Degree of protection (IP) Construction size (in accordance with DIN 43880) Width in number of modular spacings Built-in depth A 40 40 40 40 40 40 40 40 40 40	Number of poles		4	
Rated fault current Mounting method Leakage current type Selective protection No Short-circuit breaking capacity (lcw) Surge current capacity Frequency Additional equipment possible Degree of protection (IP) Construction size (in accordance with DIN 43880) Width in number of modular spacings Ma 0.03 A A DIN rail A 0.03 No No Short-circuit breaking capacity (lcw) No KA 10 Surge current capacity FA VES IP20 1 Width in number of modular spacings mm 70.5	Nominal rated voltage	V	415	
Mounting method Leakage current type A Selective protection No Short-circuit breaking capacity (Icw) KA 10 Surge current capacity Frequency Additional equipment possible Degree of protection (IP) Construction size (in accordance with DIN 43880) Width in number of modular spacings Built-in depth DIN rail A A DIN rail A Frequency No No No Short-circuit breaking capacity (Icw) KA 10 C25 Frequency Yes 1720 Test 4 Built-in depth DIN rail A A A DIN rail A A DIN rail A A DIN rail A No	Nominal rated current	А	40	
Leakage current type Selective protection No Short-circuit breaking capacity (Icw) KA 10 Surge current capacity KA 0.25 Frequency Additional equipment possible Degree of protection (IP) Construction size (in accordance with DIN 43880) Width in number of modular spacings Built-in depth A A Built-in depth A 10 No 11 4 Built-in depth A 10 No 11 4 P20 A A 10 A 1	Rated fault current	Α	0.03	
Selective protection Short-circuit breaking capacity (Icw) Surge current capacity KA 0.25 Frequency Additional equipment possible Degree of protection (IP) Construction size (in accordance with DIN 43880) Width in number of modular spacings Built-in depth No No No No 1 4 D.25 Frequency Foo Hz Yes IP20 1 4 Built-in depth mm 70.5	Mounting method		DIN rail	
Short-circuit breaking capacity (Icw) Surge current capacity kA 0.25 Frequency Additional equipment possible Degree of protection (IP) Construction size (in accordance with DIN 43880) Width in number of modular spacings Built-in depth kA 10 125 120 120 120 120 130 140 150 150 150 160 170 170 170 170 170 170 17	Leakage current type		A	
Surge current capacity kA 0.25 Frequency Additional equipment possible Degree of protection (IP) Construction size (in accordance with DIN 43880) Width in number of modular spacings Built-in depth kA 0.25 Yes 1P20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Selective protection		No	
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-circuit breaking capacity (Icw)	kA	10	
Additional equipment possible Degree of protection (IP) Construction size (in accordance with DIN 43880) Width in number of modular spacings Built-in depth Yes IP20 1 4 Built-in depth mm 70.5	Surge current capacity	kA	0.25	
Degree of protection (IP) Construction size (in accordance with DIN 43880) Width in number of modular spacings Built-in depth IP20 4 70.5	Frequency		50 Hz	
Construction size (in accordance with DIN 43880) Width in number of modular spacings Built-in depth mm 70.5	Additional equipment possible		Yes	
Width in number of modular spacings 4 Built-in depth 70.5	Degree of protection (IP)		IP20	
Built-in depth mm 70.5	Construction size (in accordance with DIN 43880)		1	
·	Width in number of modular spacings		4	
Short-time delayed tripping No	Built-in depth	mm	70.5	
	Short-time delayed tripping		No	

Dimensions 5,5