

Residual current circuit breaker (RCCB), 40A, 2p, 30mA, type A

Powering Business Worldwide*

Part no. FRCMM-40/2/003-A-NA Article no. 167114 Catalog No. PDC-TBD6153

Similar to illustration

Delivery program	

Delivery program			
Basic function			Residual current circuit breakers
Number of poles			2 pole
Application			Switchgear for export to North America (UL-listed)
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			Type A
Tripping		Α	non-delayed
Product range			FRCmM-NA
Sensitivity			Pulse-current sensitive
Impulse withstand current			Partly surge-proof 250 A
Contact sequence			T N H H Z N

Technical data

Electrical

Types conform to			IEC/EN 61008
Current test marks			As per inscription
Tripping		Α	non-delayed
Rated operating voltage	U_n	V AC	240/415
Rated frequency	f	Hz	50/60
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			≦= 2000
Mechanical		Operation	<u>≥</u> 5000
Flectrical			

Electrical

Types conform to	UL1053
Current test marks	As per inscription

Tripping			non-delayed
Rated operating voltage	Un		480Y/277 V, 60 Hz
Limit values of the operating voltage			
Test circuit		V AC	196 - 305
Pick-up current		mA	22
Sensitivity			Pulse-current sensitive
Overvoltage-tested		V	530
Rated impulse withstand voltage	U_{imp}	kV	4 (1.2/50µs)
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	$I_m/I_{\Delta m}$	Α	500
lifespan			
Electrical			2000
Mechanical		Operation	5000
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			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	In	Α	40
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	7.8
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

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 277 Nominal rated current A 4 Rated fault current A 0.03 Mounting method Din rail Leakage current type A 0.0 Selective protection No 0.0 Short-circuit breaking capacity (Icw) KA 0.2 Surge current capacity KA 0.25 Frequency Sol ½ 0.0 Additional equipment possible Yes 1.0 Degree of protection (IP) 1P20 1P20 Construction size (in accordance with DIN 43880) 1P20 2 Width in number of modular spacings 1P20 2 Built-in depth No No No Short-time delayed tripping No No No			
Nominal rated current Rated fault current Rated fault current Mounting method Leakage current type Leakage current type Selective protection Short-circuit breaking capacity (Icw) Surge current capacity Frequency Additional equipment possible Degree of protection (IP) Construction size (in accordance with DIN 43880) Built-in depth M 4 40 0.03 A A A A A DIN rail A Del Construction Size A 10 0.25 So Hz 42 43 44 49 44 40 40 40 40 40 40 40	Number of poles		2
Rated fault current Mounting method Leakage current type Leakage current type Selective protection Short-circuit breaking capacity (Icw) Surge current capacity Frequency Additional equipment possible Degree of protection (IP) Construction size (in accordance with DIN 43880) Bull-in depth A DO DIN rail A A A A A D A DIN rail A A D A D D D D D D D D D	Nominal rated voltage	V	277
Mounting method Leakage current type Selective protection No Short-circuit breaking capacity (Icw) KA 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 A A A D No Delive in accordance with DIN 43880) In accordance with DIN 43880 In accordance wi	Nominal rated current	А	40
Leakage current type Selective protection No Short-circuit breaking capacity (Icw) 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 A A A D P No No No No P P P P P P P P P P P P P	Rated fault current	А	0.03
Selective protection Short-circuit breaking capacity (Icw) 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 No No No No No No No 1 1 1 1 1 1 No No	Mounting method		DIN rail
Short-circuit breaking capacity (Icw) 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 KA 10 25 Hz 50 Hz 7es 11 1 1 1 1 1 1 1 1 1 1 1	Leakage current type		A
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 KA 0.25 Yes 1 Yes 1 1 1 1 1 1 1 1 1 1 1 1 1	Selective protection		No
Frequency Additional equipment possible Pegree of protection (IP) Construction size (in accordance with DIN 43880) Width in number of modular spacings Built-in depth To be the construction of the construct	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 2 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 1 2 Built-in depth mm 70.5	Frequency		50 Hz
Construction size (in accordance with DIN 43880) Width in number of modular spacings Built-in depth 1 70.5	Additional equipment possible		Yes
Width in number of modular spacings 2 Built-in depth mm 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		2
Short-time delayed tripping No	Built-in depth	mm	70.5
	Short-time delayed tripping		No

Dimensions

