

Residual current circuit breaker (RCCB), 63A, 2p, 300mA, type A

Powering Business Worldwide*

Part no. FRCMM-63/2/03-A-NA Article no. 167118 Catalog No. PDC-TBD6157

Similar to illustration

Delivery progra	

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	63
Rated short-circuit strength	I _{cn}	kA	10 with back-up fuse
Rated fault current	$I_{\Delta N}$	Α	0.3
Туре			Туре А
Tripping		Α	non-delayed
Product range			FRCmM-NA
Sensitivity			Pulse-current sensitive
Impulse withstand current			Partly surge-proof 250 A
Contact sequence			

Technical data

Electrical

Current test marks As per inscription Tripping A non-delayed Rated operating voltage Un VAC 240/415 Rated frequency F Hz 50/60 Limit values of the operating voltage VAC 196 - 264 Test circuit VAC 196 - 264 Rated fault current Jan MA 300 Sensitivity Pulse-current sensitive Rated insulation voltage Ui V 440 Rated impulse withstand voltage Uimp KV 4 (1.2/50µs) Rated short-circuit strength In Uimp KV 4 (1.2/50µs) Impulse withstand current Son A (8/20 µs) surge-proof Max. admissible back-up fuse 250 A (8/20 µs) surge-proof Short-circuit Son G/gL A A 63 Overload GG/gL A A 63 Rated making and breaking capacity / Rated residual making and breaking Im/I Am A 630	Types conform to			IEC/EN 61008
Rated operating voltage Rated frequency Imit values of the operating voltage Test circuit Rated fault current Sensitivity Rated insulation voltage Uiny V AC V AC 196 - 264 Pulse-current sensitive Pulse-current sensitive Rated insulation voltage Rated short-circuit strength Inpulse withstand current Max. admissible back-up fuse Short-circuit Overload Rated residual making and breaking capacity / Rated residual making and breaking Impulse withing and breaking capacity / Rated residual making and breaking Impulse withing and breaking capacity / Rated residual making and breaking Impulse withing and breaking capacity / Rated residual making and breaking Impulse withing and breaking capacity / Rated residual making and breaking Impulse withing and breaking capacity / Rated residual making and breaking and breaking and breaking capacity / Rated residual making and breaking and breaking capacity / Rated residual making and breaking capacity / Rated residual	Current test marks			As per inscription
Rated frequency Limit values of the operating voltage Test circuit Rated fault current Rated fault current Sensitivity Rated insulation voltage Rated insulation voltage Rated short-circuit strength Impulse withstand current Max. admissible back-up fuse Short-circuit Short-circuit Overload Rated making and breaking capacity / Rated residual making and breaking Impulse withing and breaking capacity / Rated residual making and breaking Impulse withing and breaking capacity / Rated residual making and breaking Impulse withing and breaking capacity / Rated residual making and breaking Impulse withing and breaking capacity / Rated residual making and breaking Impulse withing and breaking capacity / Rated residual making and breaking Impulse withing and breaking capacity / Rated residual making and breaking Impulse withing and breaking capacity / Rated residual making and breaking Impulse withing and breaking capacity / Rated residual making and breaking and breaki	Tripping		Α	non-delayed
Limit values of the operating voltage Test circuit V AC 196 - 264 Rated fault current I_\Dan MA 300 Sensitivity Rated insulation voltage Ui V 440 Rated impulse withstand voltage Uimp KV 4 (1.2/50\mus) Rated short-circuit strength I_\text{circ} Impulse withstand current Max. admissible back-up fuse Short-circuit Short-circuit GG/gL A 63 Overload Rated making and breaking capacity / Rated residual making and breaking Im/ I_\Dam A 630	Rated operating voltage	U_n	V AC	240/415
Test circuit $V AC$ 196 - 264 Rated fault current $I_{\Delta n}$ mA 300 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 gG/gL A 63 Overload gG/gL A 63 Rated making and breaking capacity / Rated residual making and breaking $I_{m}/I_{\Delta m}$ A 630	Rated frequency	f	Hz	50/60
Rated fault current Sensitivity Rated insulation voltage Rated impulse withstand voltage Rated short-circuit strength Impulse withstand current Max. admissible back-up fuse Short-circuit Short-c	Limit values of the operating voltage			
Sensitivity Rated insulation voltage Rated impulse withstand voltage Ui V 440 Rated impulse withstand voltage Uimp kV 4 (1.2/50µs) Rated short-circuit strength Impulse withstand current Max. admissible back-up fuse Short-circuit Short-circuit GG/gL A 63 Overload Rated making and breaking capacity / Rated residual making and breaking Impulse withstand current A 630	Test circuit		V AC	196 - 264
Rated insulation voltage Rated insulation voltage Uimp kV 4 (1.2/50µs) Rated short-circuit strength Inpulse withstand current Max. admissible back-up fuse Short-circuit Short-circuit Q6/gL A 63 Overload Rated making and breaking capacity / Rated residual making and breaking Impulse with back-up fuse 250 A (8/20 µs) surge-proof A 63 A 630	Rated fault current	$I_{\Delta n}$	mA	300
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 Max. admissible back-up fuse Short-circuit gg/gL A 63 Overload Qg/gL A 40 Rated making and breaking capacity / Rated residual making and breaking I _m / I _{Δm} A 630	Sensitivity			Pulse-current sensitive
Rated short-circuit strength Impulse withstand current Max. admissible back-up fuse Short-circuit Overload Rated making and breaking capacity / Rated residual making and breaking I cn kA 10 with back-up fuse 250 A (8/20 µs) surge-proof 463 40 63 630	Rated insulation voltage	U_{i}	V	440
Impulse withstand current Max. admissible back-up fuse Short-circuit Overload Ge/gL A G3 Overload Rated making and breaking capacity / Rated residual making and breaking Impulse withstand current 250 A (8/20 µs) surge-proof 63 40 63 63 63	Rated impulse withstand voltage	U _{imp}	kV	4 (1.2/50µs)
Max. admissible back-up fuse Short-circuit Ge/gL A 63 Overload Qe/gL A 40 Rated making and breaking capacity / Rated residual making and breaking Im/I _{Dm} A 630	Rated short-circuit strength	I _{cn}	kA	10 with back-up fuse
Short-circuit gG/gL A 63 Overload gG/gL A 40 Rated making and breaking capacity / Rated residual making and breaking I _m / I _{Dm} A 630	Impulse withstand current			250 A (8/20 μs) surge-proof
Overload gG/gL A 40 Rated making and breaking capacity / Rated residual making and breaking $I_m/I_{\Delta m}$ A 630	Max. admissible back-up fuse			
Rated making and breaking capacity / Rated residual making and breaking $I_{m}/I_{\Delta m}$ A 630	Short-circuit	gG/gL	Α	63
	Overload	gG/gL	Α	40
Lapacity	Rated making and breaking capacity / Rated residual making and breaking capacity	$I_m/I_{\Delta m}$	Α	630
lifespan	ifespan			
Electrical Operation = 2000	Electrical			
Mechanical Operation ≥ 5000			Operation	5000

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	200
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	630
lifespan			
Electrical			n≦≕ ₂₀₀₀
Mechanical		Operatio	n≘ 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		
Operating ambient temperature min.	°C	-25
Operating ambient temperature max.	°C	40

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	Α	63
Rated fault current	Α	0.3
Mounting method		DIN rail
Leakage current type		A
Selective protection		No

Short-circuit breaking capacity (Icw)	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		2
Built-in depth	mm	70.5
Short-time delayed tripping		No

Dimensions

