

Residual current circuit breaker (RCCB), 80A, 4p, 300mA, type S/A

Powering Business Worldwide[™]

FRCMM-80/4/03-S/A Part no. Article no. 170450 Catalog No. FRCMM-80/4/03-S/A

Similar to illustration

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Basic function			Residual current circuit breakers
Number of poles			4 pole
Application			Switchgear for industrial and advanced commercial applications
Rated current	In	Α	80
Rated short-circuit strength	I _{cn}	kA	10 with back-up fuse
Rated fault current	$I_{\Delta N}$	Α	0.3
Туре			Type S/A
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 1 3 5 N 1 3 5 N 1 2 4 6 N

Technical data

Electrical			
Types conform to			IEC/EN 61008
Current test marks			As per inscription
Tripping		Α	40 ms delay - selective switch off
Rated operating voltage	U_n	V AC	240/415
Rated frequency	f	Hz	50
Limit values of the operating voltage			
Test circuit		V AC	196 - 456
Rated fault current	$I_{\Delta n}$	mA	300
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			5 kA (8/20 μs) surge-proof
Max. admissible back-up fuse			
Short-circuit	gG/gL	Α	80
Overload	gG/gL	Α	80
Rated making and breaking capacity / Rated residual making and breaking capacity	$I_m / I_{\Delta m}$	Α	800
lifespan			
Electrical			n≧= ₂₀₀₀
Mechanical		Operatio	n≦⊇ ₁₀₀₀₀
Mechanical			
Standard front dimension		mm	45

Wechanical		
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

Technical data for design verification			
Rated operational current for specified heat dissipation		Α	80
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	11.4
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

Technical data Ettivi 6.0			
Circuit breakers and fuses (EG000020) / Residual current circuit breaker (RCCB) (E	C000003)		
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	Α	80	
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	70.5	
Short-time delayed tripping		No	

Dimensions 5,5