

RCD/MCB combination, 40 A, 30 mA, MCB trip characteristic: B, 2p, RCD trip characteristic: F

Part no. FRBm6-B40/2/003-F
Catalog No. 196982

Delivery program

Basic function			Combined RCD/MCB devices
Number of poles			2 pole
Tripping characteristic			B
Application			Switchgear for industrial and advanced commercial applications
Rated current	I_n	A	40
Rated switching capacity according to IEC/EN 61009		kA	6
Rated fault current	$I_{\Delta N}$	A	0.03
Type			Type F
Tripping		s...	10 ms delayed
Product range			FRBm6
Sensitivity			Pulse-current sensitive
Impulse withstand current			Surge-proof, 3 kA

Technical data

Electrical

Types conform to			IEC/EN 61009
Protected pole			2
Rated voltage according to IEC/EN 60947-2	U_n	V AC	240
Rated frequency	f	Hz	50
Rated fault current	$I_{\Delta n}$	mA	30
Rated non-tripping current	$I_{\Delta no}$		$0.5 \times I_{\Delta n}$
Sensitivity			Pulse-current sensitive
Selectivity Class			3
Rated current	I_n	A	40
Rated impulse withstand voltage	U_{imp}	kV	4 (1.2/50μs)
Tripping characteristic			B
Max. admissible back-up fuse			
Short-circuit	gG/gL	A	100
lifespan			
Electrical	Operations		≥ 4000
Mechanical	Operations		≥ 10000

Mechanical

Mounting			Tristable slide catch enables removal from existing combination.
Terminal protection			finger and hand touch safe, DGUV VS3, EN 50274
Degree of Protection			IP20, IP40 with suitable enclosure
Terminals top and bottom			Twin-purpose terminals
Tightening torque of fixing screws		N/m	2 - 2.4
Admissible ambient temperature range		°C	-25 ... +40
Climatic proofing			25-55°C/90-95% relative humidity according to IEC 60068-2
Standards			EN 45545-2; IEC 61373

Design verification as per IEC/EN 61439

Technical data for design verification			
Rated operational current for specified heat dissipation	I_n	A	40
Operating ambient temperature min.		°C	-25
Operating ambient temperature max.		°C	40

Technical data ETIM 7.0

Circuit breakers and fuses (EG000020) / Earth leakage circuit breaker (EC000905)			
Electric engineering, automation, process control engineering / Electrical installation, device / Residual current protection system / MCB/RCCB combination (ecl@ss10.0.1-27-14-22-07 [AFZ810015])			
Number of poles (total)			2
Number of protected poles			2
Rated voltage		V	230
Rated insulation voltage Ui		V	250
Rated impulse withstand voltage Uimp		kV	4
Rated current		A	40
Rated fault current		A	0.03
Leakage current type			F
Current limiting class			3
Rated short-circuit breaking capacity acc. EN 61009		kA	6
Rated short-circuit breaking capacity IEC 60947-2		kA	0
Rated short-circuit breaking capacity Icn acc. EN 61009-1		kA	6
Disconnection characteristic			Short-time delayed
Surge current capacity		kA	3
Voltage type			AC
Frequency			50 Hz
Release characteristic			B
Concurrently switching N-neutral			No
With interlocking device			No
Over voltage category			3
Pollution degree			2
Ambient temperature during operating		°C	-25 - 40
Width in number of modular spacings			2
Built-in depth		mm	70
Suitable for flush-mounted installation			No
Anti-nuisance tripping version			No
Degree of protection (IP)			IP20
Connectable conductor cross section solid-core		mm ²	1 - 25
Connectable conductor cross section multi-wired		mm ²	1 - 25