

## Residual current circuit breaker (RCCB), 40A, 2p, 100mA, type G

Powering Business Worldwide

Part no. FRCMM-40/2/01-G Article no. 170360 Catalog No. FRCMM-40/2/01-G

Similar to illustration

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Delivery program			
Basic function			Residual current circuit breakers
Number of poles			2 pole
Application			Switchgear for industrial and advanced commercial applications
Rated current	In	Α	40
Rated short-circuit strength	I <sub>cn</sub>	kA	10 with back-up fuse
Rated fault current	$I_{\Delta N}$	Α	0.1
Туре			Type G (ÖVE E 8601)
Tripping		Α	Short time-delayed
Product range			FRCmM
Sensitivity			AC current sensitive
Impulse withstand current			Surge-proof, 3 kA
Contact sequence			T N H H Z N

## **Technical data**

#### Flectrica

Electrical			
Types conform to			ÖVE E 8601
Current test marks			As per inscription
Tripping		Α	10 ms delayed
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 - 264
Rated fault current	$I_{\Delta n}$	mA	100
Sensitivity			AC current sensitive
Rated insulation voltage	Ui	V	440
Rated impulse withstand voltage	$U_{imp}$	kV	4 (1.2/50µs)
Rated short-circuit strength	I <sub>cn</sub>	kA	10 with back-up fuse
Impulse withstand current			3 kA (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			n≦⊇ <sub>2000</sub>
Mechanical		Operation	n <u>≦≃</u> 10000
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		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	$\text{mm}^2$	1.5 - 35
Stranded	$\text{mm}^2$	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 <sub>vid</sub>	W	0
Equipment heat dissipation, current-dependent	P <sub>vid</sub>	W	7.8
Static heat dissipation, non-current-dependent	$P_{vs}$	W	0
Heat dissipation capacity	P <sub>diss</sub>	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**

	nt circuit breaker (BCCB) (EC000003)

Electric engineering, automation, process control engineering / Electrical installation, device / Residual current protection system / Residual current circuit breaker (RCCB) (pc)(@ss8.1-27-14-22-01 [AAR906011])

Nominal rated voltage  Nominal rated current  A 40  Rated fault current  A 50  Mounting method  Leakage current type  Selective protection  Short-circuit breaking capacity (Icw)  Surge current capacity  AC  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  V 240  A0  A0  A0  A1  AC  No  Short-circuit breaking capacity (Icw)  No  Short-circuit breaking capacity (Icw)  No  Short-circuit breaking capacity (Icw)  No  No  Short-circuit breaking capacity (Icw)  No  10  11  21  22  Midth in number of modular spacings	(ecl@ss8.1-27-14-22-01 [AAB906011])	on, acvice / nesidual et	anone proceedor system, nesidada editent en edit breaker (11665)
Nominal rated current A 4 0 Rated fault current A 0.1 Mounting method 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) Built-in depth  A 4 0 BUIN rail AC  No SURGE AC  No SDIN rail AC  AC  NO SDIN rail AC  NO	Number of poles		2
Rated fault current Mounting method Leakage current type AC 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  A  0.1  Construction size (in accordance with DIN 43880) AC  NO  NO  SA  1  Yes  1  1  1  1  1  1  1  1  1  1  1  1  1	Nominal rated voltage	V	240
Mounting method Leakage current type AC 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 AC  AC  No  No  No  No  NA  10  Yes  Yes  Prequency Yes  IP20  The protection (IP)  2  Built-in depth  Mm  70.5	Nominal rated current	Α	40
Leakage current type  Selective protection  Short-circuit breaking capacity (Icw)  Surge current capacity  KA  10  Surge current capacity  KA  3  Frequency  Additional equipment possible  Degree of protection (IP)  Construction size (in accordance with DIN 43880)  Width in number of modular spacings  Built-in depth  AC  AC  AC  No  Po  Po  Po  Po  Po  Po  Po  Po  Po	Rated fault current	Α	0.1
Selective protection  Short-circuit breaking capacity (Icw)  Surge current capacity  KA  3  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  1  1  1  1  1  1  No  No	Mounting method		DIN rail
Short-circuit breaking capacity (Icw)  Surge current capacity  kA  3  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  10  10  10  10  10  10  10  10  1	Leakage current type		AC
Surge current capacity  kA 3  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 3  Frequency  Fo Hz  Yes  IP20  1  2  Built-in depth  mm 70.5	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 2 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  2  Built-in depth  mm 70.5	Surge current capacity	kA	3
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  Yes	Built-in depth	mm	70.5
	Short-time delayed tripping		Yes

### **Dimensions** 5,5