DATASHEET - FRCDM-63/4/003-G/B



Digital residual current circuit-breaker, all-current sensitive, 63 A, 4p, 30 mA, type G/B



Part no. FRCDM-63/4/003-G/B

Catalog No. 167894

Alternate Catalog

FRCDM-63/4/003-G/B

No.

EL-Nummer (Norway) 0001664179

Similar to illustration

Delivery program

Delivery program			
Basic function			Residual current circuit-breakers , digital
Number of poles			4 pole
Application			Switchgear for industrial and advanced commercial applications
Rated current	In	Α	63
Rated short-circuit strength	I _{cn}	kA	10
Rated fault current	$I_{\Delta N}$	Α	0.03
Туре			Type G/B (ÖVE E 8601)
Tripping		s	Short time-delayed
Product range			FRCdM
Sensitivity			All current sensitive
Impulse withstand current			Surge-proof, 3 kA
Contact sequence			1 3 5 N

Technical data

Flectrica

Electrical			
Types conform to			IEC/EN 61008 IEC/EN 62423 ÖVE E 8601
Standards			IEC/EN 61008 EN 45545-2; IEC 61373
Current test marks			As per inscription
Tripping		s	10 ms delayed
Rated voltage according to IEC/EN 60947-2	U_n	V AC	240/415
Rated frequency	f	Hz	50
Limit values of the operating voltage			
electronic		V AC	50 - 456
Test circuit		V AC	196 - 264
Rated fault current	$I_{\Delta n}$	mA	30
Sensitivity			All current sensitive
Rated insulation voltage	U_{i}	V	440
Rated impulse withstand voltage	U _{imp}	kV	4
Rated short-circuit strength	I _{cn}	kA	10
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	63
Rated making and breaking capacity / Rated residual making and breaking capacity	$I_m/I_{\Delta m}$	Α	630
lifespan			
Electrical	Operations		≧ 4000

Reted switching capacity 30 VCC (resistive load) A					
Reted switching capacity 30 VCC (resistive load) A		Operations		≧ 20000	
3	Dry auxiliary contact				
A 0.25 Max. switching duly (resistive load)	Rated switching capacity				
Max. switching duty (resistive load) Max. switching voltage AC V 20 21 21 21 21 21 21 21 21 21	30 VDC (resistive load)		Α	2	
Max. switching voltage AC Max. switching voltage DC Max. switching current Min. switching current Min. switching capacity (reference value) Min. switching capacity	240 VAC (resistive load)		Α	0.25	
Max. switching voltage DC Maximum switching current Min. switching capacity (reference value) Min. switching capacity (reference value) Min. switching capacity (reference value) Min. switching operations per minute) 2 A 30 VDC resistive load Electrical (at 20 switching operations per minute) 1 A 30 VDC resistive load Terminal capacity Machanical Electrical (at 20 switching operations per minute) 1 A 30 VDC resistive load Max. switching operations per minute) 2 A 30 VDC resistive load Max. switching operations per minute) 1 A 30 VDC resistive load Max. switching operations per minute) 2 A 30 VDC resistive load Max. switching operations per minute) 2 A 30 VDC resistive load Max. switching operations per minute) 2 A 30 VDC resistive load Max. switching oper	Max. switching duty (resistive load)		W	60	
Maximum switching current Min. switching capacity (reference value) Min. switching capacity (reference value) Electrical (at 20 switching operations per minute) 1 A 30 VDC resistive load Electrical (at 20 switching operations per minute) 1 A 30 VDC resistive load Electrical (at 20 switching operations per minute) 1 A 30 VDC resistive load Electrical (at 20 switching operations per minute) 1 A 30 VDC resistive load Ferminal capacity Mechanical Electrical (at 20 switching operations per minute) 1 A 30 VDC resistive load Terminal capacity Mechanical Electrical (at 20 switching operations per minute) 1 A 30 VDC resistive load Terminal capacity Mechanical Power of Protection	Max. switching voltage AC		V	240	
Min. switching apacity (reference value) Electrical (at 20 switching operations per minute) 1 A 30 VDC resistive load Electrical (at 20 switching operations per minute) 1 A 30 VDC resistive load Electrical (at 20 switching operations per minute) 1 A 30 VDC resistive load Operations \$ \sim \text{min}^2 025 \cdot 1.5 Terminal capacity Mechanical Standard front dimension mm	Max. switching voltage DC		V	220	
Electrical (at 20 switching operations per minute) 1 A 30 VDC resistive load Electrical (at 20 switching operations per minute) 1 A 30 VDC resistive load Operation \$1.05\$ Terminal capacity Mechanical Standard front dimension Device height Mounting Device height Mounting Degree of Protection Terminal stop and bottom Terminal protection Terminal cross-section Solid	Maximum switching current		Α	2	
Electrical (at 20 switching operations per minute) 2 A 30 VDC resistive load Electrical (at 20 switching operations per minute) 1 A 30 VDC resistive load Operations 5 x 10 5 Terminal capacity Mechanical Standard front dimension Device height Suit-in width Mounting Degree of Protection Terminals top and bottom Terminal protection Eleminal protection Solid So	Min. switching capacity (reference value)			10 μA, 10 mV DC	
Electrical (at 20 switching operations per minute) 1 A 30 VDC resistive load mm² 0 25 - 1.5 Standard front dimension Electrical (at 20 switching operations per minute) 1 A 30 VDC resistive load mm² 0 25 - 1.5 Standard front dimension mm 45 Device height mm 70 (4TE) Guick attachment with 2 latch positions for DIN-rail IEC/EN 60715 Degree of Protection Terminals top and bottom Terminals protection Terminal protection Solid mm 20 15 - 35 Stranded mm² 2 1.5 - 35 Stranded mm² 2 2 x 16 Terminal cross-section Tightening torque of fixing screws Thickness of bushar material Admissible ambient temperature range Permissible storage and transport temperatures Climatic proofing Meunting position Contact position indicator mm 20 8 - 2 25 - 60 25 - 60 Generation S, x 10 ⁵ s. 1	lifespan				
Terminal capacity Mechanical Standard front dimension Device height Built-in width Mounting Deerge of Protection Terminals top and bottom Terminal protection Ferminal cross-section Solid Stranded Terminal cross-section Tightening torque of fixing screws Thickness of busbar material Admissible ambient temperature range Permissible storage and transport temperatures Contact position Contact position indicator Men Ma 45 Mm 45 Mm 40 Mm 70 (4TE) Muick attachment with 2 latch positions for DIN-rail IEC/EN 60715 Duick attachment with 2 latch positions for DIN-rail IEC/EN 60715 Duick attachment with 2 latch positions for DIN-rail IEC/EN 60715 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin	Electrical (at 20 switching operations per minute) 2 A 30 VDC resistive load		Operation	n§ ₁₀ ⁵	
Mechanical Standard front dimension Device height Mounting Mounting Degree of Protection Terminals top and bottom Terminal cross-section Solid Mounting Moun	Electrical (at 20 switching operations per minute) 1 A 30 VDC resistive load		Operation	ⁿ § _{5 x} 10 ⁵	
Standard front dimension Device height Built-in width Built-in with 2 latch positions for DIN-rail IEC/EN 60715 Built-in with 2	Terminal capacity		mm²	0.25 - 1.5	
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, IP40 with suitable enclosure Terminals top and bottom Twin-purpose terminals Terminal protection IP30, IP40 with suitable enclosure Terminal cross-section IP30, IP40 with safe, DGUV VS3, EN 50274 Solid mm² 1.5 - 35 Stranded mm² 2 x 16 Terminal cross-section M5 (with cross-recessed screw as defined in EN ISO 4757-22, Pozidriv PZ2) Tightening torque of fixing screws N/m 2 - 2.4 Thickness of busbar material mm 0.8 - 2 Admissible ambient temperature range CP20, 25 - 60 Permissible storage and transport temperatures CP20, 25 - 56°C/90-95% relative humidity according to IEC 60068-2 Mounting position CC10, and the protein of the position indicator red / green	Mechanical				
Built-in width mm 70 (4TE) Mounting Quick attachment with 2 latch positions for DIN-rail IEC/EN 60715 Degree of Protection IP20, IP40 with suitable enclosure Towin-purpose terminals Terminal cross-section finger and hand touch safe, DGUV VS3, EN 50274 Terminal cross-section mm² 1.5 - 35 Stranded mm² 2 × 16 Terminal cross-section MS (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 - 60 Climatic proofing Climatic proofing Screws Mounting position As required Contact position indicator red / green Toward (1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	Standard front dimension		mm	45	
Mounting Quick attachment with 2 latch positions for DIN-rail IEC/EN 60715 Degree of Protection IP20, IP40 with suitable enclosure Terminals top and bottom Twin-purpose terminals ferminal protection ferminal cross-section Terminal cross-section Terminal cross-section Terminal cross-section Triphening torque of fixing screws M5 (with cross-recessed screw as defined in EN ISO 4757-Z2, Pozidriv PZ2) Tightening torque of fixing screws M5 (with cross-recessed screw as defined in EN ISO 4757-Z2, Pozidriv PZ2) Tightening torque of fixing screws N/m 2 - 2.4 Admissible ambient temperature range C - 25 - 60 Permissible storage and transport temperatures C C - 35 - 60 Climatic proofing Total Contact position indicator Total Contact position indicator Terminal Contact position indicator Terminal Contact position indicator Terminal Division Indicator Terminal IEC/EN 60715 IP20, IP40 with suitable enclosure Twin-purpose terminals T	Device height		mm	80	
Degree of Protection Terminals top and bottom Terminal protection Terminal protection Solid mm² Stranded mm² Terminal cross-section Stranded Terminal cross-section Terminal cross-section Terminal cross-section Terminal cross-section Stranded mm² Terminal cross-section Terminal cross-section Terminal cross-section Terminal cross-section 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 Admissible ambient temperature range °C -25 - +60 Permissible storage and transport temperatures °C -35 - +60 Mounting position Mounting position As required Contact position indicator Terminal cross-section Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 Twin-purpose terminals	Built-in width		mm	70 (4TE)	
Terminals top and bottom Terminal protection Terminal cross-section Solid mm² 1.5 - 35 Stranded mm² 2 x 16 Terminal cross-section Tightening torque of fixing screws Thickness of busbar material Admissible ambient temperature range Permissible storage and transport temperatures Contact position indicator Town-purpose terminals finger and hand touch safe, DGUV VS3, EN 50274 finger and hand touch safe, DGUV VS3, EN 50274 finger and hand touch safe, DGUV VS3, EN 50274 finger and hand touch safe, DGUV VS3, EN 50274 finger and hand touch safe, DGUV VS3, EN 50274 finger and hand touch safe, DGUV VS3, EN 50274 finger and hand touch safe, DGUV VS3, EN 50274 finger and hand touch safe, DGUV VS3, EN 50274 finger and hand touch safe, DGUV VS3, EN 50274 finger and hand touch safe, DGUV VS3, EN 50274 finger and hand touch safe, DGUV VS3, EN 50274 ### Contact position ### Associated to the safe, DGUV VS3, EN 50274	Mounting			Quick attachment with 2 latch positions for DIN-rail IEC/EN 60715	
Terminal protection Terminal cross-section Solid mm² 1.5 - 35 Stranded mm² 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 Admissible ambient temperature range Correction M5 (Correction) Climatic proofing Mounting position Contact position indicator finger and hand touch safe, DGUV VS3, EN 50274 finger and hand touch safe, DGUV VS3, EN 5027 finger and hand touch safe, DGUV VS3, EN 5027 finger and hand touch safe, DGUV VS3, EN 5027 finger and hand touch safe, DGUV VS3, EN 5027 finger and hand touch safe, DGUV VS3, EN 5027 finger and hand touch safe, DGUV VS3, EN 5027 finger and hand touch safe, DGUV VS3, EN 5027 finger and hand touch safe, DGUV VS3, EN 5027 finger and hand touch safe, DGUV VS3, EN 5027 finger and hand touch safe, DGUV VS3, EN 5027 finger and hand touch safe, DGUV VS3, EN 5027 finger and hand touch safe, DGUV VS3, EN 5027 finger and hand touch safe, DGUV VS3, EN 5027 finger and hand touch saf	Degree of Protection			IP20, IP40 with suitable enclosure	
Terminal cross-section Solid mm² 1.5 - 35 Stranded mm² 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 - +60 Permissible storage and transport temperatures Climatic proofing Mounting position Contact position indicator Tightening torque of fixing screws as defined in EN ISO 4757-Z2, Pozidriv PZ2) M5 (with cross-recessed screw as defined in EN ISO 4757-Z2, Pozidriv PZ2) Thickness of busbar material mm 0.8 - 2 -25 - +60 -25 - +60 -25 - 55° °C/90-95% relative humidity according to IEC 60068-2 As required Contact position indicator Terminal cross-section mm² 1.5 - 35 Thickness of busbar material mm 0.8 - 2 -24 -25 - +60 -25 - +60 -25 - 55° °C/90-95% relative humidity according to IEC 60068-2 As required Terminal cross-section	Terminals top and bottom			Twin-purpose terminals	
Solid mm² 1.5 - 35 Stranded mm² 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 - +60 Permissible storage and transport temperatures °C -35 - +60 Climatic proofing Mounting position Contact position indicator 1.5 - 35 M5 (with cross-recessed screw as defined in EN ISO 4757-Z2, Pozidriv PZ2) M5 (with cross-recessed screw as defined in EN ISO 4757-Z2, Pozidriv PZ2) M5 (with cross-recessed screw as defined in EN ISO 4757-Z2, Pozidriv PZ2) M5 (with cross-recessed screw as defined in EN ISO 4757-Z2, Pozidriv PZ2) M5 (with cross-recessed screw as defined in EN ISO 4757-Z2, Pozidriv PZ2) M5 (with cross-recessed screw as defined in EN ISO 4757-Z2, Pozidriv PZ2) M5 (with cross-recessed screw as defined in EN ISO 4757-Z2, Pozidriv PZ2) M5 (with cross-recessed screw as defined in EN ISO 4757-Z2, Pozidriv PZ2) M5 (with cross-recessed screw as defined in EN ISO 4757-Z2, Pozidriv PZ2) M5 (with cross-recessed screw as defined in EN ISO 4757-Z2, Pozidriv PZ2) M5 (with cross-recessed screw as defined in EN ISO 4757-Z2, Pozidriv PZ2) M5 (with cross-recessed screw as defined in EN ISO 4757-Z2, Pozidriv PZ2) M5 (with cross-recessed screw as defined in EN ISO 4757-Z2, Pozidriv PZ2) M5 (with cross-recessed screw as defined in EN ISO 4757-Z2, Pozidriv PZ2) M5 (with cross-recessed screw as defined in EN ISO 4757-Z2, Pozidriv PZ2) M5 (with cross-recessed screw as defined in EN ISO 4757-Z2, Pozidriv PZ2) M5 (with cross-recessed screw as defined in EN ISO 4757-Z2, Pozidriv PZ2) M5 (with cross-recessed screw as defined in EN ISO 4757-Z2, Pozidriv PZ2) M6 (with cross-recessed screw as defined in EN ISO 4757-Z2, Pozidriv PZ2) M6 (with cross-recessed screw as defined in EN ISO 4757-Z2, Pozidriv PZ2) M6 (with cross-recessed screw as defined in EN ISO 4757-Z2, Pozidriv PZ2) M7 (with cross-recessed screw as defined in EN I	Terminal protection			finger and hand touch safe, DGUV VS3, EN 50274	
Stranded mm² 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 - +60 Permissible storage and transport temperatures °C -35 - +60 Climatic proofing 25-55°C/90-95% relative humidity according to IEC 60068-2 Mounting position Contact position indicator red / green	Terminal cross-section				
Terminal cross-section M5 (with cross-recessed screw as defined in EN ISO 4757-Z2, Pozidriv PZ2) N/m 2 - 2.4 Thickness of busbar material mm 0.8 - 2 Admissible ambient temperature range °C -25 - +60 Permissible storage and transport temperatures Climatic proofing M5 (with cross-recessed screw as defined in EN ISO 4757-Z2, Pozidriv PZ2) MB 0.8 - 2 -25 - +60 -25 - +60 -25 - 5° C/90-95% relative humidity according to IEC 60068-2 As required Contact position indicator red / green	Solid		mm ²	1.5 - 35	
Tightening torque of fixing screws N/m 2 - 2.4 Thickness of busbar material mm 0.8 - 2 Admissible ambient temperature range °C -25 - +60 Permissible storage and transport temperatures °C -35 - +60 Climatic proofing 25-55°C/90-95% relative humidity according to IEC 60068-2 Mounting position As required Contact position indicator red / green	Stranded		mm^2	2 x 16	
Thickness of busbar material mm 0.8 - 2 Admissible ambient temperature range °C -25 - +60 Permissible storage and transport temperatures °C -35 - +60 Climatic proofing 25-55°C/90-95% relative humidity according to IEC 60068-2 Mounting position Contact position indicator red / green	Terminal cross-section			M5 (with cross-recessed screw as defined in EN ISO 4757-Z2, Pozidriv PZ2)	
Admissible ambient temperature range °C -25 - +60 Permissible storage and transport temperatures °C -35 - +60 Climatic proofing Contact position Contact position indicator °C -25 - +60 25-55°C/90-95% relative humidity according to IEC 60068-2 As required red / green	Tightening torque of fixing screws		N/m	2 - 2.4	
Permissible storage and transport temperatures °C -35 - +60 25-55°C/90-95% relative humidity according to IEC 60068-2 Mounting position Contact position indicator red / green	Thickness of busbar material		mm	0.8 - 2	
Climatic proofing 25-55°C/90-95% relative humidity according to IEC 60068-2 Mounting position As required Contact position indicator red / green	Admissible ambient temperature range		°C	-25 - +60	
Mounting position As required Contact position indicator red / green	Permissible storage and transport temperatures		°C	-35 - +60	
Contact position indicator red / green	Climatic proofing			25-55°C/90-95% relative humidity according to IEC 60068-2	
	Mounting position			As required	
Trip indication white / blue	Contact position indicator			red / green	
	Trip indication			white / blue	

Design verification as per IEC/EN 61439

2001gii 1011110aa1011 a0 poi 120, 211 01 100			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	63
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	10
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	60
			Maximum operating temperature is 60 $^{\circ}\text{C}$ in accordance with the de-rating table
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			
10.2.2 Corrosion resistance			Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures			Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat			Meets the product standard's requirements.
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects			Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation			Meets the product standard's requirements.
10.2.5 Lifting			Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact			Does not apply, since the entire switchgear needs to be evaluated.

10.2.7 Inscriptions	Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES	Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances	Meets the product standard's requirements.
10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9 Insulation properties	
10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

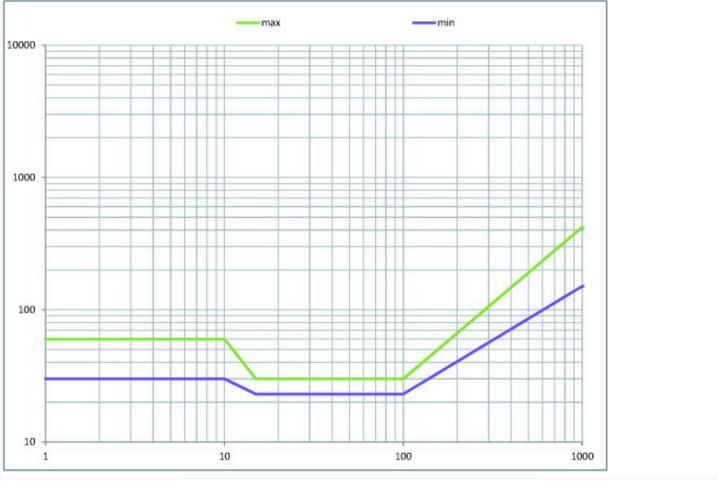
Technical data ETIM 7.0

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@ss10.0.1-27-14-22-01 [AAB906014])	iii, device / Nesiduai cui i	ent protection system / nesidual current circuit preaker (nocu)
Number of poles		4
Rated voltage	V	415
Rated current	Α	63
Rated fault current	mA	30
Rated insulation voltage Ui	V	440
Rated impulse withstand voltage Uimp	kV	4
Mounting method		DIN rail
Leakage current type		В
Selective protection		No
Short-time delayed tripping		Yes
Short-circuit breaking capacity (Icw)	kA	10
Surge current capacity	kA	3
Frequency		50 Hz
Additional equipment possible		Yes
With interlocking device		Yes
Degree of protection (IP)		IP20
Width in number of modular spacings		4
Built-in depth	mm	70.5
Ambient temperature during operating	°C	-25 - 60
Pollution degree		2
Connectable conductor cross section multi-wired	mm²	1.5 - 16
Connectable conductor cross section solid-core	mm²	1.5 - 35

Characteristics



Influence of the ambient temperature to the maximum continuous current (A)

Range	FRCdM type B, Bfq, B+			
	Amperage			
	RCCB	RCCB	RCCB	
Ambient	rating	rating	rating	
temperature	25A	40A	63A	
40°	25	40	63	
45°	25	40	56	
50°	25	40	50	
55°	25	35	45	
60°	25	30	40	

Derating - table FRCdM_B

Dimensions

