

Residual current circuit-breaker, 100A, 4p, 03A, A-Char

Powering Business Worldwide*

Part no. FI-100/4/003-A/-Article no. 102936 Catalog No. FI-100-4-003-A--

Similar to illustration

110	INCE	nro	gram
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Basic function			Residual current circuit breakers
Number of poles			4 pole
Rated current	In	Α	100
Rated short-circuit strength	I _{cn}	kA	10
Rated fault current	$I_{\Delta N}$	Α	0.03
Туре			Type A
Tripping		Α	non-delayed
Product range			FI
Sensitivity			AC and pulsating DC current sensitive
Impulse withstand current			Partly surge-proof 250 A

Technical data

Electrical

Standards			IEC/EN 61008
Tripping		Α	non-delayed
Rated operating voltage	U _e	V AC	230/400
Limit values of the operating voltage		V AC	184 440
Rated frequency	f	Hz	50
Rated fault currents	$I_{\Delta n}$	mA	30, 100, 300, 500
Rated non-tripping current	IΔno		0.5 x I △n
Rated fault switching capacity			
Rated fault switching capacity	$I_{\Delta m}$	A	In = 40 A: 500 In = 63 A: 630 In = 80 A: 800 In = 100 A: 1000 I _n = 125 A: 1250
Sensitivity			Pulsed current and AC/DC
Rated switching capacity	I _{cn}	kA	10
Rated current	I _e	Α	100
Rated impulse withstand voltage	U _{imp}	kV	6
Maximum max. as short-circuit protective device		A gL	$I_n = 125 \text{ A: } 125$ for Type B: $I_n \stackrel{\textstyle \leq}{=} 80: 100$ $I_n = 125: 125$
Lifespan		S	
Electrical		Operations 2000	
Mechanical	Opera		ns 5000
Mechanical			

Mechanical

Standard front dimension	mm	45
Enclosure height	mm	85
Terminal protection		Protection against electric shock to IEC 536
Mounting width	mm	70 (4 space unit)
Mounting		Top-hat rail IEC/EN 60715
Degree of protection		
Integrated		IP40
Terminals top and bottom		Twin-purpose terminals
Terminal capacities	mm^2	

Solid	mm^2	1.5 50
flexible	mm ²	2 x (1.5 - 16)
Thickness of busbar material	mm	0.8 2
Admissible ambient temperature range	°C	-25 +40
Climatic proofing		IEC/EN 61008

Design verification as per IEC/EN 61439

Design vernication as per 120/218 01453			
Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	100
Heat dissipation per pole, current-dependent	P _{vid}	W	0
Equipment heat dissipation, current-dependent	P _{vid}	W	18.8
Static heat dissipation, non-current-dependent	P _{vs}	W	0
Heat dissipation capacity	P _{diss}	W	0
Operating ambient temperature min.	0.00	°C	-25
Operating ambient temperature max.		°C	55
, , , , , , , , , , , , , , , , , , ,			Starting at 40 °C, the max. permissible continuous current decreases by 3% for every 1 °C
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.
10.2.3.3Verification of resistanceofinsulatingmaterialstoabnormalheatandfireduetointernalelectriceffects			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 6.0

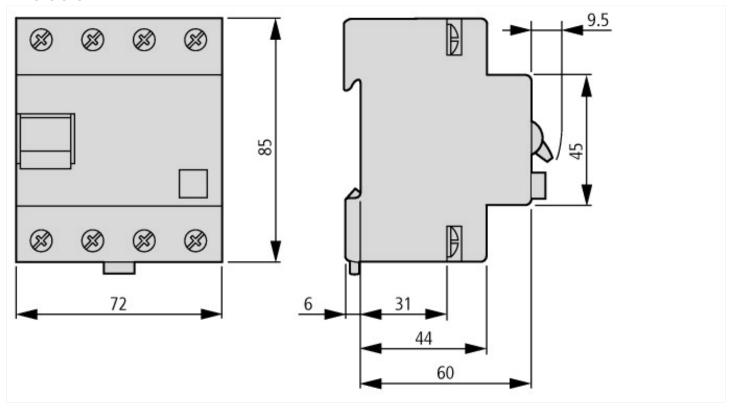
Circuit breakers and fuses (EG000020) / Residual current circuit breaker (RCCB) (EC000003)

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])

(ecl@ss8.1-27-14-22-01 [AAB906011])			
Number of poles			4
Nominal rated voltage	١	/	400
Nominal rated current	A	4	100
Rated fault current	A	A	0.03
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		4
Built-in depth	mm	69.5
Short-time delayed tripping		No

Dimensions



Additional product information (links)

AWA1290-1756 Residual-current-circuit-breaker

AWA1290-1756 Residual-current-circuitbreaker ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/17560403.pdf