



RCBO 1M 1P 10kA D-20A 30mA A

Technical properties

Arc	hite	cture

Neutral position	right
Number of protected poles	1
Number of poles	1 P
Type of pole	1 P
Curve	D
Configuration	
Number of modules	1
Connectivity	
Top connection alignement for modular devices	Shifted terminal
Bottom connection alignement for modular	Aliam and harmain al
devices	Aligned terminal
Main electrical features	
Rated short circuit breaking capacity Icn AC according IEC60898-1	10 kA
Rated operational voltage Ue	230 / 240 V
Type of supply voltage	AC
Frequency	50/60 Hz
Voltage	
Rated insulation voltage	250 V
Rated impulse withstand voltage	4000 V
Electric current	
Rated residual operating current	30 mA
Rated current	20 A
Withstand not tripping on 8-20 μs wave	0.25 kA
Breaking and opening capacity	6000 A
min/maxi threshold value of the AC thermal operation	1.13 / 1.45 In
Magnetic regulating currrent	10 / 20 In
Electric current / temperature	
Rating current -25°C	25.09 A
Rating current -20°C	24.63 A
Rating current -15°C	24.16 A
Rating current -10°C	23.7 A
Rating current -5°C	23.24 A

Rating current 0°C 22.78 A Rating current 1°C 22.31 A Rating current 1°C 21.85 A Rating current 2°C 20.93 A Rating current 2°C 20.46 A Rating current 3°C 20.04 A Rating current 3°C 19.53 A Rating current 4°C 19.05 A Rating current 4°C 19.05 A Rating current 5°C 18.18 A Rating current 5°C 17.63 A Rating current 6°C 17.15 A Rating current 6°C 17.15 A Rating current 6°C 17.15 A Rating current 7°C 16.2 A Depth of installed product 70 mm Height of installed product 70 mm Height of installed product 17.8 mm Frequency 50 to 60 Hz Power Total power loss under IN 6.5 W Power 50 to 60 Hz Power 50 to 60 Hz Power 50 to 60 Hz Electric endurance in number of cycles 2000		
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Frequency 50 to 60 Hz Power Total power loss under IN 6.5 W Power loss per pole at In 3.8 W Endurance Electric endurance in number of cycles 2000 Number of mechanical operations 10000 Installation, mounting Type of top connection for modular devices with screw Type of bottom rail clip for modular devices metallic isolated devices Blconnect Top removability for modular devices No Suitable for flush-mounting Yes Connection Connection cross-section at output with screw, for flexible conductor 1/25 mm² Connection cross-section at output with screw, for massive conductor 1/25 mm² Connection cross-section for rigid conductor, upstream terminals with screws 1/10 mm² Connection cross-section of the access with screws, with flexible conductor 1/10 mm² Connection cross-section of the access with screws, with flexible conductor 1/10 mm²	Height of installed product	115 mm
Frequency 50 to 60 Hz Power Total power loss under IN 6.5 W Power loss per pole at In 3.8 W Endurance Electric endurance in number of cycles 2000 Number of mechanical operations 10000 Installation, mounting Type of top connection for modular devices with screw 7ype of bottom rail clip for modular devices metallic isolated 7ype of Bottom Connection for modular devices Blconnect 7top removability for modular devices No 8tottom removability for modular devices No 5uitable for flush-mounting Yes Connection Connection Consection at output with screw, for flexible conductor 1/16 mm² Connection cross-section at output with screw, for massive conductor 1/25 mm² Connection cross-section for rigid conductor, upstream terminals with screws 1/16 mm² Connection cross-section of the access with screws, with flexible conductor 1/10 mm²	Width of installed product	17.8 mm
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Total power loss under IN 6.5 W Power loss per pole at In 3.8 W Endurance Electric endurance in number of cycles 2000 Number of mechanical operations 10000 Installation, mounting Type of top connection for modular devices with screw Type of bottom rail clip for modular devices metallic isolated Type of Bottom Connection for modular devices Blconnect Top removability for modular devices No Bottom removability for modular devices No Suitable for flush-mounting Yes Connection Connection cross-section at output with screw, for flexible conductor 1/16 mm² Connection cross-section at output with screw, for massive conductor 1/25 mm² Connection cross-section for rigid conductor, upstream terminals with screws Connection cross-section of the access with screws, with flexible conductor 1/10 mm²	Frequency	50 to 60 Hz
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Type of top connection for modular devices with screw Type of bottom rail clip for modular devices metallic isolated Type of Bottom Connection for modular devices Blconnect Top removability for modular devices No Bottom removability for modular devices No Suitable for flush-mounting Yes Connection Connection cross-section at output with screw, for flexible conductor 1/16 mm² Connection cross-section at output with screw, for massive conductor 1/25 mm² Connection cross-section for rigid conductor, upstream terminals with screws 1/16 mm² Connection cross-section of the access with screws, with flexible conductor 1/10 mm²	Number of mechanical operations	10000
Type of bottom rail clip for modular devices Type of Bottom Connection for modular devices Blconnect Top removability for modular devices No Bottom removability for modular devices No Suitable for flush-mounting Yes Connection Connection cross-section at output with screw, for flexible conductor Connection cross-section at output with screw, for massive conductor Connection cross-section for rigid conductor, upstream terminals with screws Connection cross-section of the access with screws, with flexible conductor 1 / 10 mm²	Installation, mounting	
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screw, for massive conductor 1 / 25 mm² Connection cross-section for rigid conductor, upstream terminals with screws 1 / 16 mm² Connection cross-section of the access with screws, with flexible conductor 1 / 10 mm²	•	1 / 16 mm²
Connection cross-section for rigid conductor, upstream terminals with screws 1 / 16 mm² Connection cross-section of the access with screws, with flexible conductor 1 / 10 mm²	·	1 / 25 mm²
Connection cross-section of the access with screws, with flexible conductor 1 / 10 mm²	Connection cross-section for rigid	<u> </u>
	Connection cross-section of the access with	<u> </u>
	Downstream cage clamp delivery status	opened

Upstream cage clamp delivery status	opened
Connection cross-section of input and output with screws, for massive conductors	1 / 25 mm²
Connection cross section of access and exit with screws, for flexible conductor	1 / 16 mm²
Cable	
Length of conductors used for the heating test (m) according to product standard	1 m
Conductor cross-section used for heating test(mm²) according to product standard	2.5 mm²
Equipment	
Quick connect	no
Type selective	No
Can be accessorized	No
With transparent product label holder	Yes
Standards	
Standard text	IEC 61009-1
Safety	
Residual current type	А
REACH conform	No
RoHS conform	Yes
Halogen free	No
Use conditions	
Operating temperature	-540 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Altitude	2000 m
Air humidity protection	95% / 55°C
Storage/transport temperature	-4070 °C
temperatur	
Temperature of calibration	30 °C
Ambient air temperature during heating test according to the product standard	22.9 °C
Max. admissible temperature on accessible parts (intended to be touched)	62.8 °C
Max. admissible temperature on accessible parts (manual operating means)	51.8 °C
Max. admissible temperature on access. parts (not touched for normal operation)	63.7 °C
Max. admissible temperature on terminals	65.3 °C
Temprise limits for access. parts (toggle) according to product standard	40 K
Temprise limits for access. parts (not touched) according to product standard	40 K
Temp.rise limits for access. parts (to be touched) according to product standard	60 K
Temperature-rise limits for terminals according to the product standard	65 K

Temperature-rise measured on accessible parts at In (manual operating means)	11.8 K
Temperature-rise measured on access. parts at In (not touched normal operation)	23.7 K
Temperature-rise measured on accessible parts at In (intended to be touched)	22.8 K
Temperature-rise measured on terminals at In	25.3 K