



AEX416T

## RCBO 4P 10kA C-16A 100mA A

### Technical properties

#### Architecture

Neutral position	right
Number of protected poles	4
Type of pole	4 P
Curve	C

#### Configuration

Number of modules	4
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#### Controls and indicators

Ground fault signalisation	yes
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#### Connectivity

Top connection alignment for modular devices	Aligned terminal
Bottom connection alignment for modular devices	Aligned terminal

#### Main electrical features

Rated short circuit breaking capacity $I_{cn}$ AC according IEC60898-1	10 kA
Rated operational voltage $U_e$	230/400 V - 240/415 V
Type of supply voltage	AC
Frequency	50 Hz

#### Voltage

Dielectric strength value of power frequency	2 kV
Rated insulation voltage	500 V
Rated impulse withstand voltage	4 kV

#### Electric current

Rated residual operating current	100 mA
Rated current	16 A
Withstand not tripping on 8-20 $\mu$ s wave	3 kA
Rated service breaking capacity $I_{cs}$ AC according IEC 60898-1	7.5 kA
Breaking and opening capacity	4500 A
min/maxi threshold value of the AC thermal operation	1.13 / 1.45 $I_n$
Magnetic regulating current	5 / 10 $I_n$

#### Electric current / temperature

Rating current -25°C	19.4 A
Rating current -20°C	19.1 A
Rating current -15°C	18.9 A
Rating current -10°C	18.6 A
Rating current -5°C	18.3 A
Rating current 0°C	18 A
Rating current 5°C	17.6 A
Rating current 10°C	17.3 A
Rating current 15°C	17 A
Rating current 20°C	16.7 A
Rating current 25°C	16.3 A
Rating current 30°C	16 A
Rating current 35°C	15.6 A
Rating current 40°C	15.2 A
Rating current 45°C	14.9 A
Rating current 50°C	14.4 A
Rating current 55°C	14 A
Rating current 60°C	13.6 A

#### Current correction factors

Correction factor of rating current for 2 devices placed side-by-side	0.8
Correction factor of rating current for 3 devices placed side-by-side	0.8
Correction factor of rating current for 4 and 5 devices placed side-by-side	0.7
Correction factor of rating current for 6 devices placed side-by-side	0.6

#### Dimensions

Depth of installed product	70 mm
Height of installed product	84 mm
Width of installed product	71 mm

#### Frequency

Frequency	50 Hz
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#### Power

Total power loss under IN	10.9 W
Power loss per pole at In	2.8 W

#### Endurance

Electric endurance in number of cycles	2000
Number of mechanical operations	4000

#### Installation, mounting

Type of top connection for modular devices	with screw
Tightening torque	2Nm
Type of top rail clip for modular devices	Plastic
Type of bottom rail clip for modular devices	plastic

Type of Bottom Connection for modular devices	BIconnect + bypass
Top removability for modular devices	Yes
Bottom removability for modular devices	Yes
Suitable for flush-mounting	Yes
<b>Connection</b>	
Connection cross-section at output with screw, for flexible conductor	1 / 16 mm <sup>2</sup>
Connection cross-section at output with screw, for massive conductor	1 / 25 mm <sup>2</sup>
Connection cross-section for rigid conductor, upstream terminals with screws	1 / 25 mm <sup>2</sup>
Connection cross-section of the access with screws, with flexible conductor	1 / 16 mm <sup>2</sup>
Cage clamp position	in line
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 mm <sup>2</sup>
Connection cross section of access and exit with screws, for flexible conductor	1 / 16 mm <sup>2</sup>
<b>Cable</b>	
Length of conductors used for the heating test (m) according to product standard	1 m
Conductor cross-section used for heating test(mm <sup>2</sup> ) according to product standard	2.5 mm <sup>2</sup>
<b>Equipment</b>	
Type selective	No
Can be accessorized	Yes
With transparent product label holder	Yes
<b>Standards</b>	
Standard text	IEC 61009-1 ; AS/NZS 61009-1
European directive WEEE	not concerned
<b>Safety</b>	
Protection index IP	IP20
Residual current type	A
REACH conform	No
RoHS conform	Yes
Halogen free	No
<b>Use conditions</b>	
Operating temperature	-25...40 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Class of energy limitation I <sup>2</sup> t	3
Altitude	2000 m
Storage/transport temperature	-55...70 °C

**temperatur**

Temperature of calibration	30 °C
Ambient air temperature during heating test according to the product standard	24.6 °C
Max. admissible temperature on accessible parts (intended to be touched)	74.8 °C
Max. admissible temperature on accessible parts (manual operating means)	52 °C
Max. admissible temperature on access. parts (not touched for normal operation)	95.1 °C
Max. admissible temperature on terminals	72.1 °C
Temp.-rise limits for access. parts (toggle) according to product standard	25 K
Temp.-rise limits for access. parts (not touched) according to product standard	60 K
Temp.rise limits for access. parts (to be touched) according to product standard	40 K
Temperature-rise limits for terminals according to the product standard	65 K
Temperature-rise measured on accessible parts at In (manual operating means)	12 K
Temperature-rise measured on access. parts at In (not touched normal operation)	55.1 K
Temperature-rise measured on accessible parts at In (intended to be touched)	34.8 K
Temperature-rise measured on terminals at In	32.1 K