



AE966B

RCBO 1P+N 6kA C-16A 100mA AC Class

Technical Features

Architecture

Type of pole	1P+N
Curve	C

Electric current

Rated current	16 A
Rated residual operating current I _{dn}	100 mA
Rated current -25°C	18.50 A
Rated current at -20°C	18.30 A
Rated current -15°C	18.10 A
Rated current -10°C	17.90 A
Rated current -5°C	17.70 A
Rated current at 0°C	17.40 A
Rated current 5°C	17.20 A
Rated current 10°C	17 A
Rated current 15°C	16.70 A
Rated current at 20°C	16.50 A
Rated current 25°C	16.20 A
Rated current 30°C	16 A
Rated current 35°C	15.80 A
Rated current at 40°C	15.60 A
Rated current at 45°C	15.40 A
Rated current at 50°C	15.20 A
Rated current 55°C	15 A
Rated current 60°C	14.80 A
Correction factor of rating current for 2 devices placed side by side	1
Min./max. threshold value of the AC thermal operation	1.13 - 1.45 A
Correction factor of rating current for 3 devices placed side by side	0.95
Correction factor of rating current for 4 and 5 devices placed side by side	0.90
Correction factor of rating current for 6 devices placed side by side	0.85

Safety

Residual current type	AC
Ingress Protection (IP) class	IP20

Main electrical attributes

Rated short-circuit breaking capacity I _{cn} AC according to IEC 60898-1	6 kA
---	------

Connectivity

Type of connection	Screw terminal
--------------------	----------------

Voltage

Rated insulation voltage U _i	500 V
---	-------

Electric current

Rated service breaking capacity I _{cs} AC according to IEC 60898-1	6 kA
---	------

Voltage

Rated impulse withstand voltage U _{imp}	4000 V
Max. operating voltage	240 V
Rated operational voltage U _e	240 - 240 V
Overvoltage category according to IEC 60947-1	3

Power

Total power loss under I _N	5.10 W
---------------------------------------	--------

Frequency

Frequency	50 - 50 Hz
-----------	------------

Use conditions

Max. Altitude	2000 m
---------------	--------

Installation, mounting

Nominal tightening torque down terminal	2.10 - 2.10 Nm
Nominal tightening torque top terminal	2.10 - 2.10 Nm

Use conditions

Class of energy limitation I ² t	3
---	---

Endurance

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

Connection

Cross-section rigid conductor	1 - 25 mm ²
Cross-section of input with screws, for flexible conductors	1 - 16 mm ²
Cross-section of input with screws, for massive conductors	1 - 25 mm ²

Installation, mounting

Nominal tightening torque	2.10 - 2.10 Nm
---------------------------	----------------

Capacity

Number of modules	2
-------------------	---

Dimensions

Height	83 mm
Width	35 mm
Depth	68 mm

Use conditions

Operating temperature	-25 - 40 °C
Storage/transport temperature	-25 - 70 °C

Connection

Cross-section of input and output with screws, for flexible conductors	1 - 16 mm ²
Cross-section of input and output with screws, for massive conductors	1 - 25 mm ²

Use conditions

Degree of pollution according to IEC 60664 / IEC 60947-2	2
Air humidity protection	For all climates
