



AF966B

### RCBO 1P+N 6kA C-16A 300mA AC Class

#### Technical Features

##### Architecture

Type of pole	1P+N
Curve	C

##### Electric current

Rated current	16 A
Rated residual operating current I <sub>dn</sub>	300 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 <sub>cn</sub> AC according to IEC 60898-1	6 kA
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##### Connectivity

Type of connection	Screw terminal
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##### Voltage

Rated insulation voltage U <sub>i</sub>	500 V
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##### Electric current

Rated service breaking capacity I <sub>cs</sub> AC according to IEC 60898-1	6 kA
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##### Voltage

Rated impulse withstand voltage U <sub>imp</sub>	4000 V
Max. operating voltage	240 V
Rated operational voltage U <sub>e</sub>	240 - 240 V
Overvoltage category according to IEC 60947-1	3
Type voltage supply	AC

##### Power

Total power loss under I <sub>N</sub>	5.20 W
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##### Frequency

Frequency	50 - 50 Hz
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**Use conditions**

Max. Altitude	2000 m
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**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 <sup>2</sup> t	3
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**Endurance**

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

**Connection**

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

**Installation, mounting**

Nominal tightening torque	2.10 - 2.10 Nm
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**Capacity**

Number of modules	2
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**Installation, mounting**

Type of top connection for modular devices	Screw terminal
Type of bottom connection for modular devices	biconnect

**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 <sup>2</sup>
Cross-section of input and output with screws, for massive conductors	1 - 25 mm <sup>2</sup>

**Use conditions**

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