



AE970B

RCBO 1P+N 6kA C-20A 100mA AC Class

Technical Features

Architecture

Type of pole	1P+N
Number of protected poles	1
Curve	C

Electric current

Rated current	20 A
Rated residual operating current I _{dn}	100 mA
Rated current -25°C	22.70 A
Rated current at -20°C	22.50 A
Rated current -15°C	22.20 A
Rated current -10°C	22 A
Rated current -5°C	21.80 A
Rated current at 0°C	21.50 A
Rated current 5°C	21.30 A
Rated current 10°C	21 A
Rated current 15°C	20.80 A
Rated current at 20°C	20.50 A
Rated current 25°C	20.30 A
Rated current 30°C	20 A
Rated current 35°C	19.80 A
Rated current at 40°C	19.60 A
Rated current at 45°C	19.40 A
Rated current at 50°C	19.20 A
Rated current 55°C	19 A
Rated current 60°C	18.80 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

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
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Voltage

Rated insulation voltage U _i	500 V
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Electric current

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

Power

Total power loss under I _N	5.60 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 ² t	3
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Endurance

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

Connection

Cross-section flexible conductor	1 - 16 mm ²
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

Capacity

Number of modules	2
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Installation, mounting

Type of bottom connection for modular devices	biconnect
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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

Sustainability

RoHS conform	Yes
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