



AEC445U

RCBO 1M 1P 10kA C-45A 100mA A

Technical Features

Architecture

Type of pole	1P
Curve	C

Electric current

Rated current	45 A
Rated residual operating current I _{dn}	100 mA
Rated current -25°C	55.45 A
Rated current at -20°C	54.50 A
Rated current -15°C	53.55 A
Rated current -10°C	52.60 A
Rated current -5°C	51.65 A
Rated current at 0°C	50.70 A
Rated current 5°C	49.75 A
Rated current 10°C	48.80 A
Rated current 15°C	47.85 A
Rated current at 20°C	46.90 A
Rated current 25°C	45.95 A
Rated current 30°C	45 A
Rated current 35°C	44.50 A
Rated current at 40°C	44 A
Rated current at 50°C	43 A
Rated current 55°C	42.50 A
Rated current 60°C	42 A
Min./max. threshold value of the AC thermal operation	1.13 - 1.45 A

Safety

Residual current type	A
Ingress Protection (IP) class	IP20

Main electrical attributes

Rated short-circuit breaking capacity I _{cn} AC according to IEC 60898-1	10 kA
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Voltage

Rated insulation voltage U _i	250 V
Rated impulse withstand voltage U _{imp}	4000 V
Rated operational voltage U _e	230 - 240 V
Overvoltage category according to IEC 60947-1	3

Power

Total power loss under I _N	12.90 W
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Frequency

Frequency	50 - 60 Hz
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Use conditions

Max. Altitude	2000 m
Class of energy limitation I ² t	3

Endurance

Electric endurance in number of cycles	2000
Number of mechanical operations	10000

Connection

Cross-section of input with screws, for flexible conductors	1 - 10 mm ²
Cross-section of input with screws, for massive conductors	1 - 16 mm ²

Capacity

Number of modules	1
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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	115 mm
Width	17.80 mm
Depth	70 mm

Use conditions

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

Compatibility

Suitable for DIN Rail	Yes
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Sustainability

RoHS conform	Yes
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