



AEC410U

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

**Technical characteristics**

**Architecture**

Type of pole	1P
Curve	C

**Electric current**

Rated current	10 A
Rated residual operating current I <sub>dn</sub>	100 mA
Rated current -25°C	13.30 A
Rated current at -20°C	13 A
Rated current -15°C	12.70 A
Rated current -10°C	12.40 A
Rated current -5°C	12.10 A
Rated current at 0°C	11.80 A
Rated current 5°C	11.50 A
Rated current 10°C	11.20 A
Rated current 15°C	10.90 A
Rated current at 20°C	10.60 A
Rated current 25°C	10.30 A
Rated current 30°C	10 A
Rated current 35°C	9.75 A
Rated current at 40°C	9.50 A
Rated current at 50°C	9 A
Rated current 55°C	8.75 A
Rated current 60°C	8.50 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 <sub>cn</sub> AC according to IEC 60898-1	10 kA
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**Voltage**

Rated insulation voltage U <sub>i</sub>	250 V
Rated impulse withstand voltage U <sub>imp</sub>	4,000 V
Rated operational voltage U <sub>e</sub>	230 - 240 V

Overvoltage category according to IEC 60947-1	3
<b>Power</b>	
Total power loss under IN	2.80 W
<b>Frequency</b>	
Frequency	50 - 60 Hz
<b>Use conditions</b>	
Max. Altitude	2,000 m
Class of energy limitation I <sup>2</sup> t	3
Operating temperature	-25 - 40 °C
Storage/transport temperature	-40 - 70 °C
<b>Endurance</b>	
Electric endurance in number of cycles	2,000
Number of mechanical operations	10,000
<b>Connection</b>	
Cross-section of input with screws, for flexible conductors	1 - 10 mm <sup>2</sup>
Cross-section of input with screws, for massive conductors	1 - 16 mm <sup>2</sup>
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>
<b>Installation, mounting</b>	
Type of top connection for modular devices	Screw terminal
Type of bottom connection for modular devices	biconnect
<b>Capacity</b>	
Number of modules	1
<b>Dimensions</b>	
Height	115 mm
Width	17.80 mm
Depth	70 mm
<b>Compatibility</b>	
Suitable for DIN Rail	Yes