



ADC420U

RCBO 1M 1P 10kA C-20A 30mA Type A

Technical characteristics

Architecture

| | |
|--------------|----|
| Type of pole | 1P |
| Curve | C |

Electric current

| | |
|---|---------------|
| Rated current | 20 A |
| Rated residual operating current I_{dn} | 30 mA |
| Rated current -25°C | 25.09 A |
| Rated current at -20°C | 24.63 A |
| Rated current -15°C | 24.16 A |
| Rated current -10°C | 23.70 A |
| Rated current -5°C | 23.24 A |
| Rated current at 0°C | 22.78 A |
| Rated current 5°C | 22.31 A |
| Rated current 10°C | 21.85 A |
| Rated current 15°C | 21.39 A |
| Rated current at 20°C | 20.93 A |
| Rated current 25°C | 20.46 A |
| Rated current 30°C | 20 A |
| Rated current 35°C | 19.53 A |
| Rated current at 40°C | 19.05 A |
| Rated current at 50°C | 18.10 A |
| Rated current 55°C | 17.63 A |
| Rated current 60°C | 17.15 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 |
|--|-------|

Voltage

| | |
|---|-------------|
| Rated insulation voltage U_i | 250 V |
| Rated impulse withstand voltage U_{imp} | 4,000 V |
| Rated operational voltage U_e | 230 - 240 V |

| | |
|--|------------------------|
| Overvoltage category according to IEC 60947-1 | 3 |
| Power | |
| Total power loss under IN | 6.50 W |
| Frequency | |
| Frequency | 50 - 60 Hz |
| Use conditions | |
| Max. Altitude | 2,000 m |
| Class of energy limitation I ² t | 3 |
| Operating temperature | -25 - 40 °C |
| Storage/transport temperature | -40 - 70 °C |
| Endurance | |
| Electric endurance in number of cycles | 2,000 |
| Number of mechanical operations | 10,000 |
| 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 |
| 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 |
| Installation, mounting | |
| Type of top connection for modular devices | Screw terminal |
| Type of bottom connection for modular devices | biconnect |
| Capacity | |
| Number of modules | 1 |
| Dimensions | |
| Height | 115 mm |
| Width | 17.80 mm |
| Depth | 70 mm |
| Compatibility | |
| Suitable for DIN Rail | Yes |