



ADC445U

RCBO 1M 1P 10kA C-45A 30mA Type A

Technical Features

Architecture

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

Electric current

| | |
|---|---------------|
| Rated current | 45 A |
| Rated residual operating current I _{dn} | 30 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 |
|---|-------|

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 |
|---------------------------------------|---------|

Frequency

| | |
|-----------|------------|
| Frequency | 50 - 60 Hz |
|-----------|------------|

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 |
|-------------------|---|

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 |
|-----------------------|-----|

Sustainability

| | |
|--------------|-----|
| RoHS conform | Yes |
|--------------|-----|