



ARR970U

RCBO with dangerous arc detection 1M 20A C curve 6kA Type A 30mA

Technical Features

Electric current

| | |
|---|--------|
| Rated current | 20 A |
| Rated current -25°C | 25.5 A |
| Rated current at -20°C | 25 A |
| Rated current -15°C | 24.5 A |
| Rated current -10°C | 24 A |
| Rated current -5°C | 23.5 A |
| Rated current at 0°C | 23 A |
| Rated current 5°C | 22.5 A |
| Rated current 10°C | 22 A |
| Rated current 15°C | 21.5 A |
| Rated current at 20°C | 21 A |
| Rated current 25°C | 20.5 A |
| Rated current 30°C | 20 A |
| Rated current 35°C | 19.6 A |
| Rated current at 40°C | 19.2 A |
| Rated current at 45°C | 18.8 A |
| Rated current at 50°C | 18.4 A |
| Rated current 55°C | 18 A |
| Rated current 60°C | 17.6 A |
| Rated current 65°C | 17.2 A |
| Rated current 70°C | 16.8 A |
| Rated short-circuit breaking capacity I _{cn} under 230 V AC according to IEC 61009-1 | 6 kA |

Architecture

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

Main electrical attributes

| | |
|---|------|
| Rated short-circuit breaking capacity I _{cn} AC according to IEC 60898-1 | 6 kA |
|---|------|

Installation, mounting

| | |
|---|----------------|
| Nominal tightening torque top terminal | 2.40 - 2.40 Nm |
| Nominal tightening torque down terminal | 3.50 - 3.50 Nm |

Electric current

| | |
|--|-------|
| Breaking and opening capacity I _{dm} | 3 kA |
| Rated residual operating current I _{dn} | 30 mA |

Voltage

| | |
|---|-------|
| Rated insulation voltage U _i | 400 V |
|---|-------|

Safety

| | |
|-----------------------|---|
| Residual current type | A |
|-----------------------|---|

Voltage

| | |
|--|-------------|
| Rated impulse withstand voltage U _{imp} | 4000 V |
| Rated operational voltage U _e | 230 - 230 V |

Power

| | |
|---------------------------------------|-------|
| Total power loss under I _N | 4.9 W |
|---------------------------------------|-------|

Use conditions

| | |
|---|-------------|
| Class of energy limitation I ² t | 3 |
| Operating temperature | -25 - 70 °C |
| Storage/transport temperature | -25 - 80 °C |

Endurance

| | |
|--|------|
| Number of mechanical operations | 8000 |
| Electric endurance in number of cycles | 2000 |

Capacity

| | |
|-------------------|---|
| Number of modules | 1 |
|-------------------|---|

Installation, mounting

| | |
|---|----------------|
| Type of bottom connection for modular devices | biconnect |
| Type of top connection for modular devices | Screw terminal |

Dimensions

| | |
|--------|----------|
| Height | 125 mm |
| Width | 17.50 mm |
| Depth | 70 mm |

Frequency

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

Sustainability

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