



ARL966U

RCBO with dangerous arc detection 1M 16A C curve 6kA Type A 30mA LFL 1m

Technical characteristics

Electric current

| | |
|---|--------|
| Rated current | 16 A |
| Rated current -25°C | 20.5 A |
| Rated current at -20°C | 20.1 A |
| Rated current -15°C | 19.7 A |
| Rated current -10°C | 19.3 A |
| Rated current -5°C | 18.9 A |
| Rated current at 0°C | 18.5 A |
| Rated current 5°C | 18.1 A |
| Rated current 10°C | 17.6 A |
| Rated current 15°C | 17.2 A |
| Rated current at 20°C | 16.8 A |
| Rated current 25°C | 16.4 A |
| Rated current 30°C | 16 A |
| Rated current 35°C | 15.7 A |
| Rated current at 40°C | 15.5 A |
| Rated current at 45°C | 15.2 A |
| Rated current at 50°C | 15 A |
| Rated current 55°C | 14.7 A |
| Rated current 60°C | 14.5 A |
| Rated current 65°C | 14.2 A |
| Rated current 70°C | 14 A |
| Rated short-circuit breaking capacity I_{cn} under 230 V AC according to IEC 61009-1 | 6 kA |
| Breaking and opening capacity I_{dm} | 3 kA |
| Rated residual operating current I_{dn} | 30 mA |

Architecture

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

Installation, mounting

| | |
|--|----------------|
| Nominal tightening torque top terminal | 2.40 - 2.40 Nm |
| Nominal tightening torque down terminal | 3.50 - 3.50 Nm |
| Type of bottom connection for modular devices | biconnect |
| Type of top connection for modular devices | Screw terminal |

Main electrical attributes

| | |
|---|-------------|
| Rated short-circuit breaking capacity I _{cn} AC according to IEC 60898-1 | 6 kA |
| Safety | |
| Residual current type | A |
| Voltage | |
| Rated insulation voltage U _i | 400 V |
| Rated impulse withstand voltage U _{imp} | 4,000 V |
| Rated operational voltage U _e | 230 - 230 V |
| Power | |
| Total power loss under I _N | 4.6 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 | 8,000 |
| Electric endurance in number of cycles | 2,000 |
| Capacity | |
| Number of modules | 1 |
| Dimensions | |
| Height | 125 mm |
| Width | 17.50 mm |
| Depth | 70 mm |
| Frequency | |
| Frequency | 50 - 50 Hz |