# Product Datasheet
AF982J



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**RCBO 1P+N 6kA C-32A 300mA A Class**

## Technical Features

| | |
|---|---|
| **Architecture** | |
| Type of pole | 1P+N |
| Number of protected poles | 1 |
| Curve | C |
| **Electric current** | |
| Rated current | 32 A |
| Rated residual operating current Idn | 300 mA |
| Rated current -25°C | 38.30 A |
| Rated current at -20°C | 37.80 A |
| Rated current -15°C | 37.20 A |
| Rated current -10°C | 36.70 A |
| Rated current -5°C | 36.10 A |
| Rated current at 0°C | 35.60 A |
| Rated current 5°C | 35 A |
| Rated current 10°C | 34.40 A |
| Rated current 15°C | 33.80 A |
| Rated current at 20°C | 33.20 A |
| Rated current 25°C | 32.60 A |
| Rated current 30°C | 32 A |
| Rated current 35°C | 31.50 A |
| Rated current at 40°C | 31 A |
| Rated current at 45°C | 30.50 A |
| Rated current at 50°C | 30 A |
| Rated current 55°C | 29.50 A |
| Rated current 60°C | 29 A |
| Correction factor of rating current for 2 devices placed side by side | 1 |
| 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 Icn AC according to IEC 60898-1 | 6 kA |
| **Voltage** | |
| Rated insulation voltage Ui | 500 V |
| **Electric current** | |
| Rated service breaking capacity Ics AC according to IEC 60898-1 | 6 kA |
| **Voltage** | |
| Rated impulse withstand voltage Uimp | 4000 V |
| Max. operating voltage | 240 V |
| Rated operational voltage Ue | 240 - 240 V |
| Overvoltage category according to IEC 60947-1 | 3 |
| Type voltage supply | AC |
| **Power** | |
| Total power loss under IN | 8 W |
| **Frequency** | |
| Frequency | 50 - 50 Hz |
| **Use conditions** | |
| Max. altitude | 2000 m |

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|---|---|
| **Installation, mounting** | |
| Nominal tightening torque down terminal | 2.10 - 2.10 Nm |
| Nominal tightening torque top terminal | 2.10 - 2.10 Nm |
| **Use conditions** | |
| Class of energy limitation $I^2t$ | 3 |
| **Endurance** | |
| Electric endurance in number of cycles | 2000 |
| Number of mechanical operations | 2000 |
| **Connection** | |
| Cross-section flexible conductor | 1 - 16 $mm^2$ |
| Cross-section rigid conductor | 1 - 25 $mm^2$ |
| Cross-section of input with screws, for flexible conductors | 1 - 16 $mm^2$ |
| Cross-section of input with screws, for massive conductors | 1 - 25 $mm^2$ |
| **Capacity** | |
| Number of modules | 2 |
| **Installation, mounting** | |
| Type of bottom connection for modular devices | biconnect |
| **Dimensions** | |
| Height | 83 mm |
| Width | 35 mm |
| Depth | 68 mm |
| **Use conditions** | |
| Operating temperature | -25 - 40 °C |
| Storage/transport temperature | -25 - 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 $mm^2$ |
| **Use conditions** | |
| Degree of pollution according to IEC 60664 / IEC 60947-2 | 2 |
| Air humidity protection | For all climates |
| **Sustainability** | |
| RoHS conform | Yes |