

Product datasheet

Specifications



iC60N - miniature circuit breaker - 4P - 20A - C curve

A9F74420

Main

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|----------------------------------|---|
| Device application | Distribution |
| Range | Acti9 |
| Product name | Acti9 iC60 |
| Product or component type | Miniature circuit-breaker |
| Device short name | IC60N |
| Poles description | 4P |
| Number of protected poles | 4 |
| [In] rated current | 20 A |
| Network type | DC AC |
| Trip unit technology | Thermal-magnetic |
| Curve code | C |
| Breaking capacity | 6000 A Icn at 400 V AC 50/60 Hz conforming to EN/IEC 60898-1 36 kA Icu at 12...60 V AC 50/60 Hz conforming to EN/IEC 60947-2 10 kA Icu at 380...415 V AC 50/60 Hz conforming to EN/IEC 60947-2 20 kA Icu at 220...240 V AC 50/60 Hz conforming to EN/IEC 60947-2 6 kA Icu at 440 V AC 50/60 Hz conforming to EN/IEC 60947-2 36 kA Icu at 100...133 V AC 50/60 Hz conforming to EN/IEC 60947-2 10 kA Icu at <= 250 V DC conforming to EN/IEC 60947-2 |
| Utilisation category | Category A conforming to EN 60947-2 Category A conforming to IEC 60947-2 |
| Suitability for isolation | Yes conforming to EN 60898-1 Yes conforming to EN 60947-2 Yes conforming to IEC 60898-1 Yes conforming to IEC 60947-2 |
| Standards | IEC 60898-1 EN 60947-2 EN 60898-1 IEC 60947-2 |

Complementary

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| Network frequency | 50/60 Hz |
| Magnetic tripping limit | 8 x In +/- 20 % |
| [Ics] rated service breaking capacity | 15 kA 75 % conforming to EN 60947-2 - 220...240 V AC 50/60 Hz 7.5 kA 75 % conforming to EN 60947-2 - 380...415 V AC 50/60 Hz 4.5 kA 75 % conforming to EN 60947-2 - 440 V AC 50/60 Hz 15 kA 75 % conforming to IEC 60947-2 - 220...240 V AC 50/60 Hz 7.5 kA 75 % conforming to IEC 60947-2 - 380...415 V AC 50/60 Hz 4.5 kA 75 % conforming to IEC 60947-2 - 440 V AC 50/60 Hz 27 kA 75 % conforming to IEC 60947-2 - 12...133 V AC 50/60 Hz 27 kA 75 % conforming to EN 60947-2 - 12...133 V AC 50/60 Hz |

6000 A 100 % conforming to EN 60898-1 - 400 V AC 50/60 Hz
 6000 A 100 % conforming to IEC 60898-1 - 400 V AC 50/60 Hz
 10 kA 100 % conforming to IEC 60947-2 - 180...250 V DC
 10 kA 100 % conforming to EN 60947-2 - 180...250 V DC

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|---|---|
| Limitation class | 3 conforming to EN 60898-1 3 conforming to IEC 60898-1 |
| [Ui] rated insulation voltage | 500 V AC 50/60 Hz conforming to EN 60947-2 500 V AC 50/60 Hz conforming to IEC 60947-2 |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to EN 60947-2 6 kV conforming to IEC 60947-2 |
| Contact position indicator | Yes |
| Control type | Toggle |
| Local signalling | Trip indicator |
| Mounting mode | Fixed |
| Mounting support | DIN rail |
| Comb busbar and distribution block compatibility | Top or bottom: YES |
| 9 mm pitches | 8 |
| Height | 85 mm |
| Width | 72 mm |
| Depth | 78.5 mm |
| Product weight | 0.5 kg |
| Colour | White |
| Mechanical durability | 20000 cycles |
| Electrical durability | 10000 cycles |
| Connections - terminals | Single terminal (top or bottom) 1...25 mm ² rigid Single terminal (top or bottom) 1...16 mm ² flexible |
| Wire stripping length | 14 mm for top or bottom connection |
| Tightening torque | 2 N.m top or bottom |
| Earth-leakage protection | Separate block |

Environment

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|--|---|
| IP degree of protection | IP20 conforming to IEC 60529 IP20 conforming to EN 60529 |
| Pollution degree | 3 conforming to EN 60947-2 3 conforming to IEC 60947-2 |
| Overvoltage category | IV |
| Tropicalisation | 2 conforming to IEC 60068-1 |
| Relative humidity | 95 % at 55 °C |
| Operating altitude | 0...2000 m |
| Ambient air temperature for operation | -35...70 °C |
| Ambient air temperature for storage | -40...85 °C |

Packing Units

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| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 7.100 cm |
| Package 1 Width | 7.300 cm |

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| Package 1 Length | 9.300 cm |
| Package 1 Weight | 450.000 g |
| Unit Type of Package 2 | BB1 |
| Number of Units in Package 2 | 3 |
| Package 2 Height | 8.200 cm |
| Package 2 Width | 9.900 cm |
| Package 2 Length | 22.400 cm |
| Package 2 Weight | 1.416 kg |

Offer Sustainability

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|------------------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |
| China RoHS Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| Halogen content performance | Halogen free product |

Contractual warranty

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| Warranty | 12 months |
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Recommended replacement(s)