# Product data sheet
## Characteristics

# A9F90273
## Miniature circuit breaker (MCB), Acti9 iC60L, 2P, 2.5A, MA curve, 20kA (IEC/EN 60947-2)



## Main

| | |
|---|---|
| Range | Acti9 |
| Product name | Acti9 iC60 |
| Product or component type | Miniature circuit-breaker |
| Device short name | iC60L |
| Device application | Motor |
| Poles description | 2P |
| Number of protected poles | 2 |
| [In] rated current | 2.5 A |
| Network type | AC |
| Trip unit technology | Magnetic |
| Curve code | MA |
| Utilisation category | Category A conforming to EN/IEC 60947-2 |
| Suitability for isolation | Yes conforming to EN/IEC 60947-2 |
| Standards | EN/IEC 60947-2 |

## Complementary

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|---|---|
| Network frequency | 50/60 Hz |
| [Ue] rated operational voltage | 220...240 V AC 50/60 Hz<br>380...415 V AC 50/60 Hz<br>440 V AC 50/60 Hz |
| Magnetic tripping limit | 12 x In +/- 20 % |
| Breaking capacity | 40 KA Icu at 220...240 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>20 KA Icu at 380...415 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>15 KA Icu at 440 V AC 50/60 Hz conforming to EN/IEC 60947-2 |
| [Ics] rated service breaking capacity | 20 KA 50 % x Icu at 220...240 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>10 KA 50 % x Icu at 380...415 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>7.5 KA 50 % x Icu at 440 V AC 50/60 Hz conforming to EN/IEC 60947-2 |
| [Ui] rated insulation voltage | 500 V AC 50/60 Hz conforming to EN/IEC 60947-2 |
| [Uimp] rated impulse withstand voltage | 6 KV conforming to EN/IEC 60947-2 |
| Contact position indicator | Yes |
| Control type | Toggle |
| Local signalling | Trip indicator |
| Mounting mode | Clip-on<br>Removable comb busbar installed |
| Mounting support | 35 mm DIN rail |
| Comb busbar and distribution block compatibility | Top or bottom: YES |
| Connection pitch | 18 Mm between phases |
| 9 mm pitches | 4 |
| Height | 85 Mm |

| | |
|---|---|
| Width | 36 Mm |
| Depth | 78.5 Mm |
| Net weight | 0.25 Kg |
| Colour | White |
| Mechanical durability | 20000 Cycles |
| Electrical durability | 10000 Cycles |
| Connections - terminals | Single terminal (top or bottom) , for 1 cable(s) , 1…25 mm², rigid, copper<br>Single terminal (top or bottom) , for 1 cable(s) , 1…16 mm², flexible, copper<br>Single terminal (top or bottom) , for 1 cable(s) , 1…16 mm², flexible with ferrule, copper<br>Single terminal (top or bottom) , for 1.0 cable(s) , flexible, copper or aluminium, with ring terminal a |
| 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<br>IP40 in modular enclosure (Insulation class II) conforming to IEC 60529 |
| Pollution degree | 3 conforming to EN/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 | 7.000 Cm |
| Package 1 Width | 3.500 Cm |
| Package 1 Length | 9.500 Cm |
| Package 1 Weight | 220.000 G |
| Unit Type of Package 2 | BB1 |
| Number of Units in Package 2 | 6 |
| Package 2 Height | 7.700 Cm |
| Package 2 Width | 9.800 Cm |
| Package 2 Length | 22.000 Cm |
| Package 2 Weight | 1.373 Kg |
| Unit Type of Package 3 | S03 |
| Number of Units in Package 3 | 66 |
| Package 3 Height | 30.000 Cm |
| Package 3 Width | 30.000 Cm |
| Package 3 Length | 40.000 Cm |
| Package 3 Weight | 15.612 Kg |

## Offer Sustainability

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|---|---|
| Recyclability potential, in % | 54 |
| Total lifecycle Carbon footprint | 4 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 1.5239581903091552 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 2 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 0.03069889915255415 |
| Carbon footprint of the distribution phase [A4] | 0 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 0.020356667718103523 |
| Carbon footprint of the installation phase [A5] | 0 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 2.154333333333333 |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 2 kg CO2 eq. |

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| Toxic heavy metal free | Yes |
| Mercury free | Yes |
| Sustainable packaging | Yes |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.6435776888835969 |
| Carbon footprint of the end-of-life phase [C1 to C4] | 0.6 kg CO2 eq. |
| Environmental Disclosure | Product Environmental Profile |
| Total lifecycle Carbon footprint | 4 |
| Packaging made with recycled cardboard | Yes |
| Packaging without single use plastic | Yes |
| SCIP Number | 26ff71d1-98cf-4280-8725-455b9a6b2fb9 |
| REACh Regulation | Reference contains Substances of Very High Concern above the threshold |
| EU RoHS Directive | Compliant |
| Halogen-free status | Halogen free plastic parts product |
| PVC free | Yes |
| End of life manual availability | No need of specific recycling operations |
| Take-back | No |
| WEEE Label | The product must be disposed on European Union markets following specific waste collection a |

## Contractual warranty

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|---|---|
| Warranty (in months) | 18 |

Product Life Status : Commercialised