Product datasheet

Specifications



Miniature circuit breaker (MCB), Acti9 iC60N, 1P, 0.5A, C curve, 6000A (IEC/EN 60898-1), 50kA (IEC/EN 60947-2)

A9F74170

Main

Range	Acti9
Product name	Acti9 iC60
Product or component type	Miniature circuit-breaker
Device short name	IC60N
Device application	Distribution
Poles description	1P
Number of protected poles	1
[In] rated current	0.5 A
Network type	AC DC
Trip unit technology	Thermal-magnetic
Curve code	C
Utilisation category	Category A conforming to EN/IEC 60947-2
Suitability for isolation	Yes conforming to EN/IEC 60898-1 Yes conforming to EN/IEC 60947-2
Standards	EN/IEC 60947-2 EN/IEC 60898-1
Quality labels	NF

Complementary

Network frequency	50/60 Hz
[Ue] rated operational voltage	12...60 V AC 50/60 Hz 100...133 V AC 50/60 Hz 220...240 V AC 50/60 Hz 12...60 V DC 60...72 V DC
Magnetic tripping limit	8 x In +/- 20 %
Breaking capacity	50 kA Icu at 12...60 V AC 50/60 Hz conforming to EN/IEC 60947-2 50 kA Icu at 100...133 V AC 50/60 Hz conforming to EN/IEC 60947-2 50 kA Icu at 220...240 V AC 50/60 Hz conforming to EN/IEC 60947-2 15 kA Icu at 12...60 V DC conforming to EN/IEC 60947-2 10 kA Icu at 60...72 V DC conforming to EN/IEC 60947-2 6000 A Icn at 230 V AC 50/60 Hz conforming to EN/IEC 60898-1
[Ics] rated service breaking capacity	50 kA 100 % x Icu at 12...60 V AC 50/60 Hz conforming to EN/IEC 60947-2 50 kA 100 % x Icu at 100...133 V AC 50/60 Hz conforming to EN/IEC 60947-2 50 kA 100 % x Icu at 220...240 V AC 50/60 Hz conforming to EN/IEC 60947-2 15 kA 100 % x Icu at 12...60 V DC conforming to EN/IEC 60947-2 10 kA 100 % x Icu at 60...72 V DC conforming to EN/IEC 60947-2
Limitation class	3 conforming to EN/IEC 60898-1

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

[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 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 devices
9 mm pitches	2
Height	85 mm
Width	18 mm
Depth	78.5 mm
Product weight	0.215 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 Single terminal (top or bottom) , for 1 cable(s) , 1…16 mm², flexible, copper Single terminal (top or bottom) , for 1 cable(s) , 1…16 mm², flexible with ferrule, copper Single terminal (top or bottom) , for 1.0 cable(s) , flexible, copper or aluminium, with ring terminal and accessory
Wire stripping length	14 mm for top or bottom connection
Tightening torque	2 N.m top or bottom
Earth-leakage protection	Without

Environment

IP degree of protection	IP20 conforming to IEC 60529 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

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.000 cm
Package 1 Width	7.500 cm

Package 1 Length	9.500 cm
Package 1 Weight	112.000 g
Unit Type of Package 2	BB1
Number of Units in Package 2	12
Package 2 Height	8.000 cm
Package 2 Width	10.000 cm
Package 2 Length	22.500 cm
Package 2 Weight	1.421 kg
Unit Type of Package 3	S03
Number of Units in Package 3	132
Package 3 Height	30.000 cm
Package 3 Width	30.000 cm
Package 3 Length	40.000 cm
Package 3 Weight	16.011 kg

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Total lifecycle Carbon footprint	**14 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**0.8 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**12 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**0.3 kg CO2 eq.**
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Packaging

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**Yes**
SCIP Number	**26ff71d1-98cf-4280-8725-455b9a6b2fb9**
EU RoHS Directive	Compliant
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
PVC free	**Yes**
Silicone-free	**No**

Use Longer

Lifetime extension

Repair	**No**

Use Again

Repack and remanufacture

Recyclability potential, in %	**54**
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 and never end up in rubbish bins**