

Product datasheet

Specifications



Miniature circuit breaker (MCB),
Acti9 iC60N, 1P+N, 50A, D curve,
6000A (IEC/EN 60898-1), 10kA
(IEC/EN 60947-2)

A9F75650

⚠ Discontinued on: Apr 13, 2023

⚠ Discontinued

Main

Range	Acti9
Product name	Acti9 iC60
Product or component type	Miniature circuit-breaker
Device short name	IC60N
Device application	Distribution
Poles description	1P + N
Number of protected poles	1
Neutral position	Left
[In] rated current	50 A
Network type	AC
Trip unit technology	Thermal-magnetic
Curve code	D
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

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
Magnetic tripping limit	12 x In +/- 20 %
Breaking capacity	36 kA Icu at 12...60 V AC 50/60 Hz conforming to EN/IEC 60947-2 20 kA Icu at 100...133 V AC 50/60 Hz conforming to EN/IEC 60947-2 10 kA Icu at 220...240 V AC 50/60 Hz 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	27 kA 75 % x Icu at 12...60 V AC 50/60 Hz conforming to EN/IEC 60947-2 15 kA 75 % x Icu at 100...133 V AC 50/60 Hz conforming to EN/IEC 60947-2 7.5 kA 75 % x Icu at 220...240 V AC 50/60 Hz conforming to EN/IEC 60947-2
Limitation class	3 conforming to EN/IEC 60898-1
[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

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

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 phase and neutral
9 mm pitches	4
Height	85 mm
Width	36 mm
Depth	78.5 mm
Product 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...35 mm², rigid, copper Single terminal (top or bottom) , for 3.0 cable(s) , 16 mm², rigid, copper, with accessory Single terminal (top or bottom) , for 1.0 cable(s) , 50 mm², rigid, aluminium, with accessory Single terminal (top or bottom) , for 1.0 cable(s) , 1...25 mm², flexible, copper Single terminal (top or bottom) , for 1.0 cable(s) , 1...25 mm², flexible with ferrule, copper Single terminal (top or bottom) , for 1.0 cable(s) , flexible, copper or aluminium, with ring terminal and accessory Single terminal (top or bottom) , for 3 cable(s) , 10 mm², flexible, copper, with accessory
Wire stripping length	14 mm for top or bottom connection
Tightening torque	3.5 N.m top or bottom
Earth-leakage protection	Separate block

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	7.5 cm

Package 1 Width	3.6 cm
Package 1 Length	9.4 cm
Package 1 Weight	277.757 g
Unit Type of Package 2	BB1
Number of Units in Package 2	6
Package 2 Height	8 cm
Package 2 Width	9.8 cm
Package 2 Length	22.5 cm
Package 2 Weight	1.714 kg
Unit Type of Package 3	S02
Number of Units in Package 3	24
Package 3 Height	15 cm
Package 3 Width	30 cm
Package 3 Length	40 cm
Package 3 Weight	6.687 kg

Contractual warranty

Warranty (in months)	18
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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	45 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	2 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]	43 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.7 kg CO2 eq.

Use Longer



Lifetime extension

Repair	No
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Use Again



Repack and remanufacture

Recyclability potential, in %	54
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Offer Marketing Illustration

Product benefits / Features

Technical Benefits
Acti9 iC60



Faster, better and more flexible installation of device thanks to combi busbar



VISI-TRIP system for a fast detection of faulty outgoers and for shorter repair times



Green strip ensuring physical contact opening, allowing safe downstream operations



Fast closing independent of the speed of actuation of the toggle



IP20 insulated single terminals



High breaking capacity up to 25kA

