Product datasheet

Specifications

Discontinued

Miniature circuit breaker (MCB), Acti9 iC60H, 1P+N, 50A, C curve, 10000A (IEC/EN 60898-1), 15kA (IEC/EN 60947-2)

A9F89650

Discontinued on: Jun 30, 2023

Main

Range	Acti9
Product name	Acti9 iC60
Product or component type	Miniature circuit-breaker
Device short name	iC60H
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	C
Utilisation category	Category A conforming to EN/IEC 60947-2
Suitability for isolation	Yes conforming to EN/IEC 60947-2 Yes conforming to EN/IEC 60898-1
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	8 x In +/- 20 %
Breaking capacity	42 kA Icu at 12...60 V AC 50/60 Hz conforming to EN/IEC 60947-2 30 kA Icu at 100...133 V AC 50/60 Hz conforming to EN/IEC 60947-2 15 kA Icu at 220...240 V AC 50/60 Hz conforming to EN/IEC 60947-2 10000 A Icn at 230 V AC 50/60 Hz conforming to EN/IEC 60898-1
[Ics] rated service breaking capacity	21 kA 50 % x Icu at 12...60 V AC 50/60 Hz conforming to EN/IEC 60947-2 15 kA 50 % x Icu at 100...133 V AC 50/60 Hz conforming to EN/IEC 60947-2 7.5 kA 50 % 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	8.0 cm
Package 2 Width	9.8 cm
Package 2 Length	22.5 cm
Package 2 Weight	1.714 kg
Unit Type of Package 3	S03
Number of Units in Package 3	66
Package 3 Height	30.0 cm
Package 3 Width	30.0 cm
Package 3 Length	40.0 cm
Package 3 Weight	19.287 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	**46 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]	**0.8 kg CO2 eq.**
Environmental Disclosure	**Product Environmental Profile**

Use Better

Materials and Substances

EU RoHS Directive	**Compliant By Exemption**

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**
WEEE Label	**The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins**