

Product datasheet

Specifications



iC60N - miniature circuit breaker - 1P - 50A - C curve

A9F74150

Main

Device application	Distribution
Range	Acti9
Product name	Acti9 iC60
Product or component type	Miniature circuit-breaker
Device short name	IC60N
Poles description	1P
Number of protected poles	1
[In] rated current	50 A
Network type	DC AC
Trip unit technology	Thermal-magnetic
Curve code	C
Breaking capacity	6000 A Icn at 230 V AC 50/60 Hz conforming to EN/IEC 60898-1 10 kA Icu at 60...72 V DC conforming to EN/IEC 60947-2 15 kA Icu at 12...60 V DC conforming to EN/IEC 60947-2 10 kA Icu at 220...240 V AC 50/60 Hz conforming to EN/IEC 60947-2 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
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 IEC 60947-2 EN 60947-2 EN 60898-1

Complementary

Network frequency	50/60 Hz
Magnetic tripping limit	8 x In +/- 20 %
[Ics] rated service breaking capacity	27 kA 75 % conforming to EN 60947-2 - 12...60 V AC 50/60 Hz 7.5 kA 75 % conforming to EN 60947-2 - 220...240 V AC 50/60 Hz 27 kA 75 % conforming to IEC 60947-2 - 12...60 V AC 50/60 Hz 7.5 kA 75 % conforming to IEC 60947-2 - 220...240 V AC 50/60 Hz 15 kA 75 % conforming to IEC 60947-2 - 100...133 V AC 50/60 Hz 15 kA 75 % conforming to EN 60947-2 - 100...133 V AC 50/60 Hz 6000 A 100 % conforming to EN 60898-1 - 230 V AC 50/60 Hz 6000 A 100 % conforming to IEC 60898-1 - 230 V AC 50/60 Hz 10 kA 100 % conforming to EN 60947-2 - 72 V DC

10 kA 100 % conforming to IEC 60947-2 - 72 V DC
 15 kA 100 % conforming to EN 60947-2 - 12...60 V DC
 15 kA 100 % conforming to IEC 60947-2 - 12...60 V DC

[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 2

Height 85 mm

Width 18 mm

Depth 78.5 mm

Net weight 0.215 kg

Colour White

Mechanical durability 20000 cycles

Electrical durability 10000 cycles

Connections - terminals Single terminal (top or bottom) 1...35 mm² rigid
 Single terminal (top or bottom) 1...25 mm² flexible

Wire stripping length 14 mm for top or bottom connection

Tightening torque 3.5 N.m top or bottom

Earth-leakage protection Without

Environment

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

Overtoltage 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 1.8 cm

Package 1 Length 9.5 cm

Package 1 Weight 128.0 g

Unit Type of Package 2	BB1
Number of Units in Package 2	12
Package 2 Height	8.0 cm
Package 2 Width	9.8 cm
Package 2 Length	22.5 cm
Package 2 Weight	1.591 kg
Unit Type of Package 3	S03
Number of Units in Package 3	132
Package 3 Height	30.0 cm
Package 3 Width	30.0 cm
Package 3 Length	40.0 cm
Package 3 Weight	18.008 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Compliant EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)
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

Contractual warranty

Warranty	12 months
----------	-----------

Recommended replacement(s)

