Product data sheet
Characteristics

A9F78110
Miniature circuit breaker (MCB), Acti9 iC60N, 1P, 10A, B curve, 6000A (IEC/EN 60898-1), 10kA (IEC/EN 60947-2)



Commercial status
End of Commercialisation :

⚠ End of Commercialisation

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	10 A
Network type	DC AC
Trip unit technology	Thermal-magnetic
Curve code	B
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 12...60 V DC 60...72 V DC
Magnetic tripping limit	4 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 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	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 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
[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
Net 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 a
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	1.700 Cm
Package 1 Width	7.300 Cm
Package 1 Length	9.300 Cm
Package 1 Weight	108.000 G
Unit Type of Package 2	BB1
Number of Units in Package 2	12
Package 2 Height	8.200 Cm
Package 2 Width	10.100 Cm
Package 2 Length	22.300 Cm
Package 2 Weight	1.350 Kg
Unit Type of Package 3	S03
Number of Units in Package 3	132
Package 3 Height	30 Cm
Package 3 Width	30 Cm
Package 3 Length	40 Cm
Package 3 Weight	15.354 Kg

Offer Sustainability

Recyclability potential, in %	54
Total lifecycle Carbon footprint	14 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	0.7667486128716038
Carbon footprint of the manufacturing phase [A1 to A3]	0.8 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.015471563042157476
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.010259308203977953
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	12.387416666666669
Carbon footprint of the use phase [B2, B3, B4, B6]	12 kg CO2 eq.
Toxic heavy metal free	Yes
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.32434885487612486
Carbon footprint of the end-of-life phase [C1 to C4]	0.3 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	14
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
OECD PFAS Regulation	Item contains PFAS Chemicals
POP Directive	No POPs
Halogen-free status	Product contains halogen above thresholds
PVC free	Yes
Silicone-free	No
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

Warranty (in months)	18

Product Life Status : End of commerc. - Block