Product data sheet
Characteristics

A9F74120
Miniature circuit breaker (MCB), Acti9 iC60N, 1P, 20A, C curve, 6000A (IEC/EN 60898-1), 10kA (IEC/EN 60947-2)



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	20 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

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	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	1.800 Cm
Package 1 Width	7.300 Cm
Package 1 Length	9.500 Cm
Package 1 Weight	114.000 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	1.424 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	16.160 Kg

Offer Sustainability

Recyclability potential, in %	54
Total lifecycle Carbon footprint	14 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	0.7828699292885554
Carbon footprint of the manufacturing phase [A1 to A3]	0.8 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.01585383660618359
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.01051279663956074
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	12.926
Carbon footprint of the use phase [B2, B3, B4, B6]	13 kg CO2 eq.
Toxic heavy metal free	Yes
Mercury free	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.33236291217618125
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
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant
OECD PFAS Regulation	Item contains PFAS Chemicals
Halogen-free status	Halogen free plastic parts product
PVC free	Yes
Silicone-free	No
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 a