Product data sheet
Characteristics

A9F84150
Miniature circuit breaker (MCB), Acti9 iC60H, 1P, 50A, C curve, 10000A (IEC/EN 60898-1), 15kA (IEC/EN 60947-2)



Main

Range	Acti9
Product name	Acti9 iC60
Product or component type	Miniature circuit-breaker
Device short name	iC60H
Device application	Distribution
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
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 12...60 V DC 60...72 V DC
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 20 KA Icu at 12...60 V DC conforming to EN/IEC 60947-2 15 KA Icu at 60...72 V DC 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 20 KA 100 % x Icu at 12...60 V DC conforming to EN/IEC 60947-2 15 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…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 a 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	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	7.600 Cm
Package 1 Length	9.000 Cm
Package 1 Weight	135.000 G
Unit Type of Package 2	BB1
Number of Units in Package 2	12
Package 2 Height	7.800 Cm
Package 2 Width	9.700 Cm
Package 2 Length	22.000 Cm
Package 2 Weight	1.672 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	18.700 Kg

Offer Sustainability

Recyclability potential, in %	54
Total lifecycle Carbon footprint	23 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	0.8973300929016618
Carbon footprint of the manufacturing phase [A1 to A3]	0.9 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.01887466084587016
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.012515927597987173
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	21.543333333333337
Carbon footprint of the use phase [B2, B3, B4, B6]	22 kg CO2 eq.
Toxic heavy metal free	Yes
Mercury free	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.3956920587048534
Carbon footprint of the end-of-life phase [C1 to C4]	0.4 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	23
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant
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
WEEE Label	The product must be disposed on European Union markets following specific waste collection a