Product data sheet
Characteristics

M9U21220
Miniature circuit breaker (MCB), Multi9 C60H-DC, 2P, 20A, C curve, 5kA (UL1077), 6kA (IEC/EN 60947-2)



Main

Range	Multi9
Product name	Multi9 C60H-DC
Product or component type	Miniature circuit-breaker
Device short name	C60H-DC
Device application	Distribution
Poles description	2P
Number of protected poles	2
[In] rated current	20 A at 25 °C conforming to EN/IEC 60947-2
Network type	DC
Trip unit technology	Thermal-magnetic
Curve code	C
Breaking capacity	20 KA Icu at 220 V DC conforming to EN/IEC 60947-2 10 KA Icu at 440 V DC conforming to EN/IEC 60947-2 6 KA Icu at 500 V DC conforming to EN/IEC 60947-2 5 KA AIR at 12...500 V DC conforming to UL 1077 20 KA Icu at 220 V DC conforming to GB/T 14048.2 10 KA Icu at 440 V DC conforming to GB/T 14048.2 6 KA Icu at 500 V DC conforming to GB/T 14048.2
Utilisation category	Category A conforming to EN/IEC 60947-2
Standards	EN/IEC 60947-2 GB/T 14048.2 UL 1077
Product certifications	IEC[RETURN]CCC[RETURN]UR

Complementary

[Ue] rated operational voltage	220 V DC 440 V DC 500 V DC
Magnetic tripping limit	7...10 x In DC
[Ics] rated service breaking capacity	7.5 KA 75 % conforming to EN/IEC 60947-2 - 440 V DC 4.5 KA 75 % conforming to EN/IEC 60947-2 - 500 V DC 15 KA 75 % conforming to EN/IEC 60947-2 - 220 V DC 7.5 KA 75 % conforming to GB/T 14048.2 - 440 V DC 4.5 KA 75 % conforming to GB/T 14048.2 - 500 V DC 15 KA 75 % conforming to GB/T 14048.2 - 220 V DC
[Ui] rated insulation voltage	500 V DC conforming to EN/IEC 60947-2
[Uimp] rated impulse withstand voltage	6 KV conforming to EN/IEC 60947-2
Suitability for isolation	Yes conforming to EN/IEC 60947-2
Contact position indicator	Yes
Control type	Toggle

Local signalling	ON/OFF indication
Mounting mode	Clip-on
Mounting support	DIN rail
9 mm pitches	4
Height	81 Mm
Width	36 Mm
Depth	73 Mm
Net weight	0.128 Kg
Colour	Grey
Mechanical durability	20000 Cycles
Electrical durability	3000 Cycles 250 V DC L/R = 2 ms 6000 Cycles 250 V DC
Provision for padlocking	Padlockable
Connections - terminals	Tunnel type terminal (top or bottom)1…25 mm² (18 AWG...4 AWG) - rigid stranded Tunnel type terminal (top or bottom)1…16 mm² (18 AWG...6 AWG) - flexible Tunnel type terminal (top or bottom)1…16 mm² (18 AWG...6 AWG) - flexible with ferrule Tunnel type terminal (top or bottom) - 2 cable(s) 1…10 mm² (18 AWG...8 AWG) - rigid stranded Tunnel type terminal (top or bottom) - 2 cable(s) 1…10 mm² (18 AWG...8 AWG) - flexible Tunnel type terminal (top or bottom) - 2 cable(s) 1…10 mm² (18 AWG...8 AWG) - flexible with ferr Tunnel type terminal (top or bottom) - 3 cable(s) 1 mm² (18 AWG) - flexible stranded
Wire stripping length	14 Mm for top or bottom connection
Tightening torque	2.5 N.M top or bottom
Earth-leakage protection	Without

Environment

IP degree of protection	IP20 conforming to IEC 60529 IP40 (modular enclosure) conforming to IEC 60529
Pollution degree	3 conforming to EN/IEC 60947-2
Tropicalisation	2 conforming to IEC 60068-2 2 conforming to GB/T 14048.2
Relative humidity	95 % at 55 °C
Ambient air temperature for operation	-25…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	8.500 Cm
Package 1 Width	3.600 Cm
Package 1 Length	7.500 Cm
Package 1 Weight	228.000 G
Unit Type of Package 2	BB1
Number of Units in Package 2	6
Package 2 Height	8.200 Cm
Package 2 Width	9.000 Cm
Package 2 Length	22.500 Cm
Package 2 Weight	1.420 Kg
Unit Type of Package 3	S03
Number of Units in Package 3	72
Package 3 Height	30.000 Cm
Package 3 Width	30.000 Cm
Package 3 Length	40.000 Cm
Package 3 Weight	17.634 Kg

Offer Sustainability

Recyclability potential, in %	53
Total lifecycle Carbon footprint	18 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	1.5944634512499956
Carbon footprint of the manufacturing phase [A1 to A3]	2 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.031331188852546404
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.017197939643518814
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	16.157
REACh free of SVHC	Yes
Carbon footprint of the use phase [B2, B3, B4, B6]	16 kg CO2 eq.
Toxic heavy metal free	Yes
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	0.62060289534712
Carbon footprint of the end-of-life phase [C1 to C4]	0.6 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	18
Packaging made with recycled cardboard	No
Packaging without single use plastic	No
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and Nickel (Metallic), wh
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 : Commercialised