

# M9F22150

Miniature circuit breaker (MCB), Multi9 C60SP, 1P, 50A, C curve, 10kA (UL1077), 10kA (IEC/EN 60947-2)



## Main

Range	Multi9
Product name	Multi9 C60
Product or Component Type	Miniature circuit-breaker
Device short name	C60SP
Device Application	Distribution
Poles description	1P
Number of protected poles	1
Line Rated Current	50 A 77 °F (25 °C) EN/IEC 60947-2
Network type	AC DC
Trip unit technology	Thermal-magnetic
Curve code	C
Breaking capacity	10 KA AIR 65 V DC UL 1077 10 KA AIR 65 V DC CSA C22.2 No 235 3 KA Icu 415 V AC EN/IEC 60947-2 10 KA Icu 240 V AC EN/IEC 60947-2 20 KA Icu 60 V DC EN/IEC 60947-2 3 KA Icu 415 V AC GB 14048.2 10 KA Icu 240 V AC GB 14048.2 20 KA Icu 60 V DC GB 14048.2 5 KA AIR 277 V AC UL 1077 10 KA AIR 240 V AC UL 1077 10 KA AIR 120 V AC UL 1077 5 KA AIR 277 V AC CSA C22.2 No 235 10 KA AIR 240 V AC CSA C22.2 No 235 10 KA AIR 120 V AC CSA C22.2 No 235
Suitability for isolation	Yes EN/IEC 60947-2
Standards	EN/IEC 60947-2 GB 14048.2 UL 1077 CSA C22.2 No 235
Product certifications	IEC CCC UR CSA

## Complementary

[Ue] rated operational voltage	240 V AC 50/60 Hz 415 V AC 50/60 Hz 60 V DC
Magnetic tripping limit	8.5 x In +/- 20 % AC 12 x In +/- 20 % DC
[Ics] rated service breaking capacity	2.25 KA 75 % EN/IEC 60947-2 - 415 V AC 7.5 KA 75 % EN/IEC 60947-2 - 240 V AC 20 KA 100 % EN/IEC 60947-2 - 60 V DC 2.25 KA 75 % GB 14048.2 - 415 V AC 7.5 KA 75 % GB 14048.2 - 240 V AC 20 KA 100 % GB 14048.2 - 60 V DC
[Ui] rated insulation voltage	500 V AC EN/IEC 60947-2
[Uimp] rated impulse withstand voltage	6 kVEN/IEC 60947-2
Contact position indicator	Yes
Control Type	Toggle

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Local signalling	ON/OFF indication
Mounting Mode	Clip-on
Mounting Support	DIN rail
9 mm pitches	2
Height	3.19 in (81 mm)
Width	0.71 in (18 mm)
Depth	2.83 in (72 mm)
Color	Gray
Mechanical durability	20000 cycles
Electrical durability	10000 cycles
Provision for padlocking	Padlockable
Connections - terminals	Tunnel type terminal top or bottom) 0.00...0.05 in <sup>2</sup> (1...35 mm <sup>2</sup> ) AWG 18...AWG 2) - rigid Tunnel type terminal top or bottom) 0.00...0.04 in <sup>2</sup> (1...25 mm <sup>2</sup> ) AWG 18...AWG 3) - flexible with ferrule Tunnel type terminal top or bottom) 0.00...0.04 in <sup>2</sup> (1...25 mm <sup>2</sup> ) AWG 18...AWG 8) - flexible
Wire stripping length	0.55 in (14 mm) top or bottom
Tightening torque	30.98 lbf.in (3.5 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 EN/IEC 60947-2
Tropicalisation	2 IEC 60068-1
Relative humidity	95 % 131 °F (55 °C)
Operating altitude	0...6561.68 ft (0...2000 m)
Ambient air temperature for operation	-22...158 °F (-30...70 °C)
Ambient Air Temperature for Storage	-40...176 °F (-40...80 °C)

## Ordering and shipping details

Category	00948-M9 GEN 2 CB UL1077 / IEC
Discount Schedule	DE2
GTIN	3606481168122
Returnability	Yes
Country of origin	FR

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	0.71 in (1.8 cm)
Package 1 Width	2.95 in (7.5 cm)
Package 1 Length	3.35 in (8.5 cm)
Package 1 Weight	4.27 oz (121.0 g)
Unit Type of Package 2	BB1
Number of Units in Package 2	12
Package 2 Height	3.07 in (7.8 cm)
Package 2 Width	3.46 in (8.8 cm)
Package 2 Length	8.86 in (22.5 cm)
Package 2 Weight	3.31 lb(US) (1.503 kg)
Unit Type of Package 3	S03
Number of Units in Package 3	144
Package 3 Height	11.81 in (30.0 cm)
Package 3 Width	11.81 in (30.0 cm)
Package 3 Length	15.75 in (40.0 cm)
Package 3 Weight	39.49 lb(US) (17.911 kg)

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
RoHS exemption information	<a href="#">Yes</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Halogen content performance	Halogen free product