

# Product datasheet

Specifications



## Miniature circuit breaker (MCB), Multi9 C60N, 2P, 20A, C curve, 10kA (IEC/EN 60947-2)

M9F11220

### Main

Range	Multi9
Product name	Multi9 C60
Product or component type	Miniature circuit-breaker
Device short name	C60N
Device application	Distribution
poles description	2P
Number of protected poles	2
[In] rated current	20 A at 50 °C conforming to EN/IEC 60947-2
Network type	AC DC
Trip unit technology	Thermal-magnetic
Curve code	C
Breaking capacity	20 kA Icu at <= 125 V DC conforming to EN/IEC 60947-2 10 kA Icu at 415 V AC 50/60 Hz between phases conforming to EN/IEC 60947-2 20 kA Icu at 240 V AC 50/60 Hz between phases conforming to EN/IEC 60947-2 6 kA Icu at 440 V AC 50/60 Hz between phases conforming to EN/IEC 60947-2
Utilisation category	Category A conforming to EN/IEC 60947-2
Suitability for isolation	Yes conforming to EN/IEC 60947-2
Standards	EN/IEC 60947-2
Product certifications	EAC KC CCC

### Complementary

Network frequency	50/60 Hz
[Ue] rated operational voltage	240 V AC 50/60 Hz between phases 415 V AC 50/60 Hz between phases 440 V AC 50/60 Hz between phases <= 125 V DC
Magnetic tripping limit	8.5 x In +/- 20 % AC 12 x In +/- 20 % DC
[Ics] rated service breaking capacity	7.5 kA 75 % conforming to EN/IEC 60947-2 - 415 V AC 50/60 Hz 16 kA 75 % conforming to EN/IEC 60947-2 - 240 V AC 50/60 Hz 4.5 kA 75 % conforming to EN/IEC 60947-2 - 440 V AC 50/60 Hz 20 kA 100 % conforming to EN/IEC 60947-2 - <= 125 V DC
Limitation class	3
[Ui] rated insulation voltage	500 V AC 50/60 Hz conforming to EN/IEC 60947-2

<b>[Uimp] rated impulse withstand voltage</b>	6 kV conforming to EN/IEC 60947-2
<b>Contact position indicator</b>	Yes
<b>Control type</b>	Toggle
<b>local signalling</b>	ON/OFF indication
<b>mounting mode</b>	Clip-on
<b>Mounting support</b>	DIN rail
<b>9 mm pitches</b>	4
<b>Height</b>	81 mm
<b>Width</b>	36 mm
<b>Depth</b>	72 mm
<b>Net weight</b>	0.24 kg
<b>Colour</b>	Grey
<b>Mechanical durability</b>	20000 cycles
<b>Electrical durability</b>	10000 cycles
<b>Provision for padlocking</b>	Padlockable
<b>Connections - terminals</b>	Tunnel type terminal (top or bottom)1...25 mm <sup>2</sup> - rigid Tunnel type terminal (top or bottom)1...25 mm <sup>2</sup> - flexible Tunnel type terminal (top or bottom)1...25 mm <sup>2</sup> - flexible with ferrule
<b>Wire stripping length</b>	14 mm for top or bottom connection
<b>Tightening torque</b>	2 N.m top or bottom
<b>Earth-leakage protection</b>	Separate block

## Environment

<b>Heat dissipation</b>	6 W at 415 V - 20 A
<b>IP degree of protection</b>	IP20 conforming to IEC 60529 IP40 (modular enclosure) conforming to IEC 60529
<b>Pollution degree</b>	3 conforming to EN/IEC 60947-2
<b>Overvoltage category</b>	IV
<b>Tropicalisation</b>	2 conforming to IEC 60068-1
<b>Relative humidity</b>	95 % at 55 °C
<b>Ambient air temperature for operation</b>	-30...70 °C
<b>ambient air temperature for storage</b>	-40...80 °C

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	3.6 cm
<b>Package 1 Width</b>	7.5 cm
<b>Package 1 Length</b>	8.5 cm
<b>Package 1 Weight</b>	212.0 g
<b>Unit Type of Package 2</b>	BB1
<b>Number of Units in Package 2</b>	6

<b>Package 2 Height</b>	8.0 cm
<b>Package 2 Width</b>	8.8 cm
<b>Package 2 Length</b>	22.0 cm
<b>Package 2 Weight</b>	1.313 kg
<b>Unit Type of Package 3</b>	S03
<b>Number of Units in Package 3</b>	72
<b>Package 3 Height</b>	30.0 cm
<b>Package 3 Width</b>	30.0 cm
<b>Package 3 Length</b>	40.0 cm
<b>Package 3 Weight</b>	16.272 kg

## Sustainability

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Transparency RoHS/REACH

## Well-being performance

Mercury Free

Rohs Exemption Information Yes

Halogen Free Product

## Certifications & Standards

Reach Regulation	<a href="#">REACH Declaration</a>
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	No need of specific recycling operations