

## Product data sheet

### Characteristics

# MX9A3220

## Clipsal MAX9 Arc Fault Detection (AFDD +RCBO), 1P+N, 20A, 30mA, C Curve, 6000A, A Type, All-in-one



### Main

Range	MAX9
Product or component type	Arc fault detection RCBO
Product specific application	Fire prevention by arc detection
Standards	EN/IEC 62606 AS/NZS 61009.1
Poles description	1P + N
[In] rated current	20 A at 30 °C
Number of protected poles	1
Curve code	C
Breaking capacity	6000 A Icn at 240 V AC 50 Hz conforming to AS/NZS 61009.1
Earthing system	TN-S TT IT
Earth-leakage sensitivity	30 mA
Network type	AC
Earth-leakage protection time delay	Instantaneous
Earth-leakage protection class	Type A
Neutral position	Left
Suitability for isolation	Yes
Trip unit technology	Thermal-magnetic
Earth-leakage protection	Integrated

### Complementary

Network frequency	50 Hz
[Ue] rated operational voltage	240 V AC 50 Hz conforming to AS/NZS 61009.1
Device location in system	Outgoer
Magnetic tripping limit	5...10 x In
[Ics] rated service breaking capacity	6000 A at 240 V AC 50 Hz conforming to AS/NZS 61009.1
Rated breaking and making capacity	500 A
Limitation class	3
[Ui] rated insulation voltage	440 V AC 50 Hz
Threshold tripping voltage	275 V
[Uimp] rated impulse withstand voltage	4 kV conforming to AS/NZS 61009.1
Contact position indicator	Yes
Control type	Toggle
Local signalling	ON, OFF, fault trip
Mounting mode	Clip-on
Mounting support	DIN rail
Colour	White (RAL 9003)

Mechanical durability	20000 cycles
Electrical durability	10000 cycles AC 50 Hz conforming to IEC 61009
Overvoltage category	III
Locking options description	By padlocks
Connections - terminals	Tunnel type terminal top or bottom 1...10 mm <sup>2</sup> flexible Tunnel type terminal top or bottom 1...16 mm <sup>2</sup> rigid
Wire stripping length	14 mm for top or bottom connection
Tightening torque	2 N.m top or bottom
Comb busbar and distribution block compatibility	Top comb busbar: YES
Connection pitch	9 mm between phase and neutral
9 mm pitches	4
Height	91 mm
Width	36 mm
Depth	75 mm
Net weight	237 g
Temperature derating table	-25 °C ( 23.8 A ) -20 °C ( 23.5 A ) -15 °C ( 23.2 A ) -10 °C ( 22.8 A ) -5 °C ( 22.5 A ) 0 °C ( 22.2 A ) 5 °C ( 21.8 A ) 10 °C ( 21.5 A ) 15 °C ( 21.1 A ) 20 °C ( 20.7 A ) 25 °C ( 20.4 A ) 30 °C ( 20 A ) 35 °C ( 19.6 A ) 40 °C ( 19.2 A ) 45 °C ( 18.8 A ) 50 °C ( 18.4 A ) 55 °C ( 18 A ) 60 °C ( 17.6 A ) 65 °C ( 17.1 A ) 70 °C ( 16.7 A )
Grid distance	35 mm

## Environment

Heat dissipation	4.7 W at 240 V - 20 A
IP degree of protection	IP20
Pollution degree	2
Tropicalisation	Severity B conforming to IEC 60068-2-30 for 28 d
Relative humidity	95 % at 55 °C
Operating altitude	0...2000 m
Ambient air temperature for operation	-25...70 °C
Ambient air temperature for storage	-40...85 °C
Quality labels	RCM

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	8.4 cm
Package 1 Width	4.4 cm
Package 1 Length	10.2 cm
Package 1 Weight	236.0 g
Unit Type of Package 2	CAR
Number of Units in Package 2	40
Package 2 Height	20.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	9.94 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>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End Of Life Information</a>

## Contractual warranty

Warranty	7-year
----------	--------