

Product datasheet

Specifications



Circuit breaker frame, MasterPacT MTZ2 20N1, for MicroLogic Active, 2000A, 42kA/440VAC 50/60Hz (Icu), 3P, fixed

LV948056

Main

Range	MasterPacT
Product name	MasterPacT MTZ2 Active
Product or component type	Circuit breaker
Device short name	MTZ2 20 N1
Device application	Power distribution protection
Poles description	3P
Control unit	Without control unit
Product compatibility	control unit MicroLogic Active 1.0 E control unit MicroLogic Active 1.0 EP control unit MicroLogic Active 2.0 A control unit MicroLogic Active 2.0 AP control unit MicroLogic Active 2.0 E control unit MicroLogic Active 2.0 EP control unit MicroLogic Active 5.0 A control unit MicroLogic Active 5.0 AP control unit MicroLogic Active 5.0 E control unit MicroLogic Active 5.0 EP control unit MicroLogic Active 6.0 A control unit MicroLogic Active 6.0 AP control unit MicroLogic Active 6.0 E control unit MicroLogic Active 6.0 EP
[In] rated current	2000 A at 40 °C
Performance type	N1 42 kA 440 V AC
[Ue] rated operational voltage	690 V AC 50/60 Hz
Suitability for isolation	Yes conforming to EN/IEC 60947-2
Selectivity category	Category B
Control type	Push-button
Mounting mode	Fixed

Complementary

[Icu] rated ultimate short-circuit breaking capacity	42 kA at 220/415 V AC 50/60 Hz 42 kA at 440 V AC 50/60 Hz 42 kA at 525 V AC 50/60 Hz 42 kA at 690 V AC 50/60 Hz
[Ics] rated service short-circuit breaking capacity	42 kA at 220/415 V AC 50/60 Hz 42 kA at 440 V AC 50/60 Hz 42 kA at 525 V AC 50/60 Hz 42 kA at 690 V AC 50/60 Hz
[Icw] rated short-time withstand current	42 kA 0.5 s 42 kA 1 s 22 kA 3 s

[Icm] rated short-circuit making capacity	88 kA 220/415 V AC at 50/60 Hz 88 kA 440 V AC at 50/60 Hz 88 kA 525 V AC at 50/60 Hz 88 kA 690 V AC at 50/60 Hz
Sensor rating	1000 A 1250 A 1600 A 2000 A
[Ui] rated insulation voltage	1000 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	12 kV
Power dissipation in W	250 W
Power dissipation per pole	83.3 W
Maximum breaking time	25 ms
Maximum closing response time	70 ms
Mounting support	Base plate Rails
Upside connection	Front Rear
Downside connection	Front Rear
Connection pitch	115 mm
Mechanical durability	20000 cycles with maintenance
Electrical durability	6000 cycles 690 V AC 50/60 Hz conforming to EN/IEC 60947-2 8000 cycles 440 V AC 50/60 Hz conforming to EN/IEC 60947-2
Height (H)	352 mm
Width (W)	422 mm
Depth (D)	297 mm
Net weight	50 kg
Standards	EN/IEC 60947-1 EN/IEC 60947-2
Product certifications	CE CCC EAC

Environment

IP degree of protection	IP3X conforming to EN/IEC 60529
IK degree of protection	IK07 conforming to EN 50102
Pollution degree	3 conforming to IEC 60664-1
Ambient air temperature for operation	-25...70 °C
Temperature derating table	40 °C (2000 A) 45 °C (2000 A) 50 °C (2000 A) 55 °C (2000 A) 60 °C (1920 A) 65 °C (1850 A) 70 °C (1770 A)
Ambient air temperature for storage	-40...85 °C
Operating altitude	0...2000 m without derating 2000 m...5000 m with derating

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2 cm
Package 1 Width	1 cm
Package 1 Length	2 cm
Package 1 Weight	10 g

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

Total lifecycle Carbon footprint	1 784 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Carbon footprint of the manufacturing phase [A1 to A3]	302 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	7 kg CO2 eq.
Carbon footprint of the installation phase [A5]	7 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	1 357 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	111 kg CO2 eq.

Use Better



Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No, we have minimized the use of plastic in the packaging in compliance with regulations and considering quality and safety standards
SCIP Number	584555c5-79df-4e54-a0be-1388f30e1540
Halogen-free status	Product contains halogen above thresholds
PVC free	Yes
Silicone-free	No

Use Longer




Lifetime extension

Repair	No
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Use Again



Repack and remanufacture

Recyclability potential, in %	92
End of life manual availability	End of Life Information
Take-back	Yes
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Technical Illustration

Dimensions

