

Product data sheet

Specifications



Circuit breaker frame, MasterPact MTZ2 20N1 drawout for MicroLogic X, 2000A, 42kA/415VAC (Icu), 3P

LV848286

Main

Range	MasterPacT
Product name	MasterPact MTZ2
Device short name	MTZ2 20 N1
Product or Component Type	Circuit breaker
Device Application	Power distribution protection
Poles description	3P
Control unit	Without control unit
Product compatibility	control unit MicroLogic 2.0 X control unit MicroLogic 5.0 X control unit MicroLogic 6.0 X control unit MicroLogic 7.0 X control unit MicroLogic 2.0 Xi control unit MicroLogic 5.0 Xi control unit MicroLogic 6.0 Xi control unit MicroLogic 7.0 Xi
Line Rated Current	2000 A 104 °F (40 °C)
Performance type	N1 42 kA 415 V AC
[Ue] rated operational voltage	690 V AC 50/60 Hz
Suitability for isolation	Yes EN/IEC 60947-2
Selectivity category	Category B
Control Type	Push-button
Mounting Mode	Drawout

Complementary

[Icu] rated ultimate short-circuit breaking capacity	42 kA 220/415 V AC 50/60 Hz 42 kA 440 V AC 50/60 Hz 42 kA 500/525 V AC 50/60 Hz 42 kA 660/690 V AC 50/60 Hz
[Ics] rated service breaking capacity	42 kA 220/415 V AC 50/60 Hz 42 kA 440 V AC 50/60 Hz 42 kA 500/525 V AC 50/60 Hz 42 kA 660/690 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 50/60 Hz 88 kA 440 V AC 50/60 Hz 88 kA 500/525 V AC 50/60 Hz 88 kA 660/690 V AC 50/60 Hz

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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	470 W
Maximum breaking time	25 ms
Maximum closing response time	70 ms
Mounting Support	Rails
	Base plate
Upside connection	Front
	Rear
Downside connection	Front
	Rear
Connection pitch	4.5 in (115 mm)
Mechanical durability	20000 cycles with periodic preventive maintenance
Electrical durability	AC-3 6000 cycles 440/690 V AC 50/60 Hz EN/IEC 60947-3 6000 cycles 690 V AC 50/60 Hz EN/IEC 60947-2 8000 cycles 440 V AC 50/60 Hz EN/IEC 60947-2 AC-23A 6000 cycles 690 V AC 50/60 Hz EN/IEC 60947-3 AC-23A 8000 cycles 440 V AC 50/60 Hz EN/IEC 60947-3
Height	Drawout circuit breaker with chassis: 17.3 in (439 mm)
	Drawout circuit breaker without chassis: 11.8 in (300 mm)
Width	Drawout circuit breaker with chassis: 17.4 in (441 mm)
	Drawout circuit breaker without chassis: 14.9 in (378 mm)
Depth	Drawout circuit breaker with chassis: 15.9 in (403 mm)
	Drawout circuit breaker without chassis: 11.8 in (300 mm)
Net Weight	198.4 lb(US) (90 kg)
Standards	EN/IEC 60947-1
	EN/IEC 60947-2
	EN/IEC 60947-2 Annex H
	IEC 61557-12
Product Certifications	CE
	IECEE CB Scheme

Environment

IP degree of protection	IP30 conforming to EN 60529
Pollution degree	3 IEC 60947-1
Ambient Air Temperature for Operation	-13...158 °F (-25...70 °C)
Ambient Air Temperature for Storage	-40...185 °F (-40...85 °C)
Operating altitude	0...6561.68 ft (0...2000 m) without derating
	2000...5000 m with derating

Ordering and shipping details

GTIN	3606480807008
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Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1

Package 1 Height	12.008 in (30.5 cm)
Package 1 Width	11.6 in (29.5 cm)
Package 1 Length	14.8 in (37.5 cm)
Package weight(Lbs)	106.752 lb(US) (48.422 kg)

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	3 299 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Carbon footprint of the manufacturing phase [A1 to A3]	524 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	11 kg CO2 eq.
Carbon footprint of the installation phase [A5]	13 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	2 579 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	172 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
EU RoHS Directive	Compliant with Exemptions
SCIP Number	F31d8a4d-e9cb-4afc-bf2c-5965742ce772
REACH Regulation	REACH Declaration
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
Halogen content performance	Product contains halogen above thresholds
PVC free	Yes
Silicon free	No

Use Longer

 Lifetime extension	
Repair	No

Use Again

 Repack and remanufacture	
Recyclability potential, in %	71
Circularity Profile	End of Life Information

Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.