

# Product datasheet

Specifications



## Circuit breaker frame, MasterPacT MTZ2 20H1b, for MicroLogic Active, 2000A, 85kA/440VAC (Icu), 4P, drawout

LV964969

### Main

Range	MasterPacT
Product name	MasterPacT MTZ2 Active
Product or component type	Circuit breaker
Device short name	MTZ2 20 H1b
Device application	Power distribution protection
Poles description	4P
Neutral position	Left
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	H1b 85 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	Drawout

### Complementary

[Icu] rated ultimate short-circuit breaking capacity	85 kA at 220/415 V AC 50/60 Hz 85 kA at 440 V AC 50/60 Hz 85 kA at 525 V AC 50/60 Hz 85 kA at 690 V AC 50/60 Hz
[Ics] rated service short-circuit breaking capacity	85 kA at 220/415 V AC 50/60 Hz 85 kA at 440 V AC 50/60 Hz 85 kA at 525 V AC 50/60 Hz 85 kA at 690 V AC 50/60 Hz
[Icw] rated short-time withstand current	85 kA 1 s

<b>[Icm] rated short-circuit making capacity</b>	187 kA 220/415 V AC at 50/60 Hz 187 kA 440 V AC at 50/60 Hz 187 kA 525 V AC at 50/60 Hz 187 kA 690 V AC at 50/60 Hz
<b>Sensor rating</b>	1000 A 1250 A 1600 A 2000 A
<b>[Ui] rated insulation voltage</b>	1000 V AC 50/60 Hz
<b>[Uimp] rated impulse withstand voltage</b>	12 kV
<b>Maximum breaking time</b>	25 ms
<b>Maximum closing response time</b>	70 ms
<b>Mounting support</b>	Base plate Rails
<b>Upside connection</b>	Front Rear
<b>Downside connection</b>	Front Rear
<b>Connection pitch</b>	115 mm
<b>Mechanical durability</b>	20000 cycles with maintenance
<b>Electrical durability</b>	5000 cycles 440 V AC 50/60 Hz conforming to EN/IEC 60947-2 2500 cycles 690 V AC 50/60 Hz conforming to EN/IEC 60947-2
<b>Height (H)</b>	Drawout circuit breaker with chassis: 439 mm Drawout circuit breaker without chassis: 298 mm
<b>Width (W)</b>	Drawout circuit breaker with chassis: 556 mm Drawout circuit breaker without chassis: 493 mm
<b>Depth (D)</b>	Drawout circuit breaker with chassis: 403 mm Drawout circuit breaker without chassis: 300 mm
<b>Product weight</b>	120 kg
<b>Standards</b>	EN/IEC 60947-1 EN/IEC 60947-2
<b>Product certifications</b>	CE CCC EAC

## Environment

<b>IP degree of protection</b>	IP3X conforming to EN/IEC 60529
<b>IK degree of protection</b>	IK07 conforming to EN/IEC 62262
<b>Pollution degree</b>	3 conforming to IEC 60664-1
<b>Ambient air temperature for operation</b>	-25...70 °C
<b>Temperature derating table</b>	40 °C ( 2000 A ) 45 °C ( 2000 A ) 50 °C ( 2000 A ) 55 °C ( 2000 A ) 60 °C ( 1900 A ) 65 °C ( 1830 A ) 70 °C ( 1750 A )
<b>Ambient air temperature for storage</b>	-40...85 °C
<b>Operating altitude</b>	0...2000 m without derating 2000 m...5000 m with derating

## Packing Units

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<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	75 cm
<b>Package 1 Width</b>	60 cm
<b>Package 1 Length</b>	80 cm
<b>Package 1 Weight</b>	85.63 kg

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## **Contractual warranty**

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<b>Warranty (in months)</b>	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	3 451 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	635 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	14 kg CO2 eq.
Carbon footprint of the installation phase [A5]	15 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	2 554 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	232 kg CO2 eq.
Environmental Disclosure	<a href="#">Product Environmental Profile</a>

## 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
EU RoHS Directive	<a href="#">Compliant By Exemption</a>
REACH Regulation	<a href="#">Reference contains Substances of Very High Concern above the threshold</a>
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	<a href="#">End of Life Information</a>
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



Image of product / Alternate images

Alternative

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