

# Product data sheet

Specifications



## Circuit breaker frame, MasterPact MTZ1 16H1 fixed for MicroLogic X, 1600A, 42kA/415VAC (Icu), 3P

LV847150

**Important message:** This product can be sold only through a configuration with the product Selector, and cannot be sold separately

### Main

Range	MasterPacT
Product name	MasterPact MTZ1
Device short name	MTZ1 16 H1
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	1600 A 104 °F (40 °C)
Performance type	H1 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	Fixed

### 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 24 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.

<b>Sensor rating</b>	800 A 1000 A 1250 A 1600 A
<b>[Ui] rated insulation voltage</b>	1000 V AC 50/60 Hz
<b>[Uiimp] rated impulse withstand voltage</b>	12 kV
<b>Power dissipation in W</b>	220 W
<b>Maximum breaking time</b>	25 ms
<b>Maximum closing response time</b>	50 ms
<b>Mounting Support</b>	Rails Base plate
<b>Upside connection</b>	Front Rear
<b>Downside connection</b>	Front Rear
<b>Connection pitch</b>	2.8 in (70 mm)
<b>Mechanical durability</b>	12500 cycles with periodic preventive maintenance
<b>Electrical durability</b>	3000 cycles 690 V AC 50/60 Hz EN/IEC 60947-2 6000 cycles 440 V AC 50/60 Hz EN/IEC 60947-2 AC-23A 3000 cycles 690 V AC 50/60 Hz EN/IEC 60947-3 AC-23A 6000 cycles 440 V AC 50/60 Hz EN/IEC 60947-3 AC-3 6000 cycles 440 V AC 50/60 Hz EN/IEC 60947-3
<b>Height</b>	11.9 in (301 mm)
<b>Width</b>	10.9 in (276 mm)
<b>Depth</b>	8.2 in (209 mm)
<b>Net Weight</b>	30.9 lb(US) (14 kg)
<b>Standards</b>	EN/IEC 60947-1 EN/IEC 60947-2 EN/IEC 60947-2 Annex H IEC 61557-12
<b>Product Certifications</b>	CE IECEE CB Scheme

## Environment

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

## Ordering and shipping details

GTIN	3606480815102
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## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Nbr. of units in pkg.</b>	1
<b>Package 1 Height</b>	9.8 in (25.0 cm)

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Package 1 Width	15.7 in (40.0 cm)
Package 1 Length	15.7 in (40.0 cm)
Package weight(Lbs)	47.410 lb(US) (21.505 kg)

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## Contractual warranty

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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

Carbon footprint (kg CO2 eq, Total Life cycle)	1436
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
<a href="#">EU RoHS Directive</a>	Compliant with Exemptions
SCIP Number	44ce05ea-25e9-435c-886d-b1162ae4666b
REACH Regulation	<a href="#">REACH Declaration</a>
California proposition 65	<b>WARNING:</b> 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 <a href="#">www.P65Warnings.ca.gov</a>
Halogen content performance	Product contains halogen above thresholds
PVC free	No
Silicon free	No

## Use Again

### Repack and remanufacture

Circularity Profile	<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.