# Product data sheet

Specifications



## Circuit breaker frame, MasterPact MTZ1 08H2 fixed for MicroLogic X, 800A, 50kA/415VAC (Icu), 3P

LV847123

## Main

| | |
|---|---|
| **Range** | MasterPacT |
| **Product name** | MasterPact MTZ1 |
| **Device short name** | MTZ1 08 H2 |
| **Product or Component Type** | Circuit breaker |
| **Device Application** | Power distribution protection |
| **Poles description** | 3P |
| **Control type** | Without control unit |
| **Product compatibility** | control unit MicroLogic 2.0 X<br>control unit MicroLogic 5.0 X<br>control unit MicroLogic 6.0 X<br>control unit MicroLogic 7.0 X<br>control unit MicroLogic 2.0 Xi<br>control unit MicroLogic 5.0 Xi<br>control unit MicroLogic 6.0 Xi<br>control unit MicroLogic 7.0 Xi |
| **Line Rated Current** | 800 A 104 °F (40 °C) |
| **Breaking capacity code** | H2 50 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

| | |
|---|---|
| **Breaking capacity** | 50 kA 220/415 V AC 50/60 Hz<br>50 kA 440 V AC 50/60 Hz<br>42 kA 500/525 V AC 50/60 Hz<br>42 kA 660/690 V AC 50/60 Hz |
| **[Ics] rated service breaking capacity** | 50 kA 220/415 V AC 50/60 Hz<br>50 kA 440 V AC 50/60 Hz<br>42 kA 500/525 V AC 50/60 Hz<br>42 kA 660/690 V AC 50/60 Hz |
| **[Icw] rated short-time withstand current** | 42 kA 0.5 s<br>42 kA 1 s<br>24 kA 3 s |
| **[Icm] rated short-circuit making capacity** | 105 kA 220/415 V AC 50/60 Hz<br>105 kA 440 V AC 50/60 Hz<br>88 kA 500/525 V AC 50/60 Hz<br>88 kA 660/690 V AC 50/60 Hz |
| **Integrated instantaneous protection (DIN in kA peak)** | 81…99 kA |

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** | 400 A<br>630 A<br>800 A |
| **[Ui] rated insulation voltage** | 1000 V AC 50/60 Hz |
| **[Uimp] rated impulse withstand voltage** | 12 kV |
| **Power dissipation in W** | 50 W |
| **Maximum breaking time** | 25 ms |
| **Maximum closing response time** | 50 ms |
| **Mounting Support** | Rails<br>Base plate |
| **Upside connection** | Front<br>Rear |
| **Downside connection** | Front<br>Rear |
| **Connection pitch** | 2.8 in (70 mm) |
| **Mechanical durability** | 12500 cycles with periodic preventive maintenance |
| **Electrical durability** | 3000 cycles 690 V AC 50/60 Hz EN/IEC 60947-2<br>6000 cycles 440 V AC 50/60 Hz EN/IEC 60947-2<br>AC-23A 3000 cycles 690 V AC 50/60 Hz EN/IEC 60947-3<br>AC-23A 6000 cycles 440 V AC 50/60 Hz EN/IEC 60947-3<br>AC-3 6000 cycles 440 V AC 50/60 Hz EN/IEC 60947-3 |
| **Height** | 11.9 in (301 mm) |
| **Width** | 10.9 in (276 mm) |
| **Depth** | 8.2 in (209 mm) |
| **Net Weight** | 30.9 lb(US) (14 kg) |
| **Standards** | EN/IEC 60947-1<br>EN/IEC 60947-2<br>EN/IEC 60947-2 Annex H<br>IEC 61557-12 |
| **Product Certifications** | CE<br>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<br>2000...5000 m with derating |

## Ordering and shipping details

| | |
|---|---|
| **GTIN** | 3606480814341 |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Nbr. of units in pkg.** | 1 |
| **Package 1 Height** | 9.8 in (25.0 cm) |
| **Package 1 Width** | 15.7 in (40.0 cm) |

| | |
|---|---|
| **Package 1 Length** | 15.7 in (40.0 cm) |
| **Package weight(Lbs)** | 34.59 lb(US) (15.69 kg) |

## Contractual warranty

| | |
|---|---|
| **Warranty (in months)** | 18 |

## 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 | **521 kg CO2 eq.** |
| Carbon footprint of the manufacturing phase [A1 to A3] | **160 kg CO2 eq.** |
| Carbon footprint of the distribution phase [A4] | **4 kg CO2 eq.** |
| Carbon footprint of the installation phase [A5] | **16 kg CO2 eq.** |
| Carbon footprint of the use phase [B2, B3, B4, B6] | **295 kg CO2 eq.** |
| Carbon footprint of the end-of-life phase [C1 to C4] | **45 kg CO2 eq.** |
| Environmental Disclosure | Product Environmental Profile |

## 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 | **44ce05ea-25e9-435c-886d-b1162ae4666b** |
| EU RoHS Directive | Compliant By Exemption |
| REACh Regulation | Reference contains Substances of Very High Concern above the threshold |
| 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 | **No** |
| Silicon free | **No** |

## Use Again

### Repack and remanufacture

| | |
|---|---|
| Recyclability potential, in % | **73** |
| 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.** |