# Product datasheet

Specifications



## Circuit breaker Masterpact MTZ1 16H3, 1600 A, 3P fixed, without Micrologic

LV846440

## Main

| | |
|---|---|
| **Range** | MasterPacT |
| **Product name** | MasterPact MTZ1 |
| **Device short name** | MTZ1 16 H3 |
| **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 |
| **[In] rated current** | 1600 A at 40 °C |
| **Breaking capacity code** | H3 66 kA 415 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

| | |
|---|---|
| **Breaking capacity** | 66 kA at 220/415 V AC 50/60 Hz<br>66 kA at 440 V AC 50/60 Hz |
| **[Ics] rated service breaking capacity** | 50 kA at 440 V AC 50/60 Hz<br>50 kA at 220/415 V AC 50/60 Hz |
| **[Icw] rated short-time withstand current** | 30 kA 3 s<br>50 kA 1 s<br>50 kA 0.5 s |
| **[Icm] rated short-circuit making capacity** | 145 kA 220/415 V AC at 50/60 Hz<br>145 kA 440 V AC at 50/60 Hz |
| **Integrated instantaneous protection (DIN in kA peak)** | 94.5…115.5 kA |
| **Sensor rating** | 1600 A<br>630 A<br>1250 A<br>400 A<br>800 A<br>1000 A |

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

| | |
|---|---|
| **[Ui] rated insulation voltage** | 1000 V AC 50/60 Hz |
| **[Uimp] rated impulse withstand voltage** | 12 kV |
| **Power dissipation in W** | 220 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** | 70 mm |
| **Mechanical durability** | 10000 cycles with periodic preventive maintenance |
| **Electrical durability** | 6000 cycles 440 V AC 50/60 Hz at In conforming to EN/IEC 60947-2<br>AC-23A: 6000 cycles 440 V AC 50/60 Hz at In conforming to EN/IEC 60947-3<br>AC-3: 6000 cycles 440 V AC 50/60 Hz at In conforming to EN/IEC 60947-3 |
| **Height** | 301 mm |
| **Width** | 276 mm |
| **Depth** | 209 mm |
| **Net weight** | 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 conforming to IEC 60947-1 |
| **Ambient air temperature for operation** | -25…70 °C |
| **Ambient air temperature for storage** | -40…85 °C |
| **Operating altitude** | 0...2000 m without derating<br>2000...5000 m with derating |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |
| **Package 1 Height** | 30.0 cm |
| **Package 1 Width** | 30.0 cm |
| **Package 1 Length** | 40.0 cm |
| **Package 1 Weight** | 15.0 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 | **1 436 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] | **1 211 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 |
| Halogen-free status | **Product contains halogen above thresholds** |
| PVC free | **No** |
| Silicone-free | **No** |

## Use Again

### Repack and remanufacture

| | |
|---|---|
| Recyclability potential, in % | **73** |
| End of life manual availability | 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** |