# Product datasheet

Specifications



## Circuit breaker frame, MasterPact MTZ2 40H2 drawout for MicroLogic X, 4000A, 100kA/415VAC (Icu), 4P

LV848328

## Main

| | |
|---|---|
| **Range** | MasterPacT |
| **Product name** | MasterPact MTZ2 |
| **Device short name** | MTZ2 40 H2 |
| **Product or component type** | Circuit breaker |
| **Device application** | Power distribution protection |
| **Poles description** | 4P |
| **Neutral position** | Left |
| **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** | 4000 A at 40 °C |
| **Breaking capacity code** | H2 100 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** | Drawout |

## Complementary

| | |
|---|---|
| **Breaking capacity** | 100 kA at 220/415 V AC 50/60 Hz<br>100 kA at 440 V AC 50/60 Hz<br>85 kA at 500/525 V AC 50/60 Hz<br>85 kA at 660/690 V AC 50/60 Hz |
| **[Ics] rated service breaking capacity** | 100 kA at 220/415 V AC 50/60 Hz<br>100 kA at 440 V AC 50/60 Hz<br>85 kA at 500/525 V AC 50/60 Hz<br>85 kA at 660/690 V AC 50/60 Hz |
| **[Icw] rated short-time withstand current** | 85 kA 0.5 s<br>85 kA 1 s<br>75 kA 3 s |
| **[Icm] rated short-circuit making capacity** | 220 kA 220/415 V AC at 50/60 Hz<br>220 kA 440 V AC at 50/60 Hz<br>187 kA 500/525 V AC at 50/60 Hz<br>187 kA 660/690 V AC at 50/60 Hz |

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

| | |
|---|---|
| **Integrated instantaneous protection (DIN in kA peak)** | 171…209 kA |
| **Sensor rating** | 2000 A<br>2500 A<br>3200 A<br>4000 A |
| **[Ui] rated insulation voltage** | 1000 V AC 50/60 Hz |
| **[Uimp] rated impulse withstand voltage** | 12 kV |
| **Power dissipation in W** | 900 W |
| **Maximum breaking time** | 25 ms |
| **Maximum closing response time** | 70 ms |
| **Mounting support** | Rails<br>Base plate |
| **Upside connection** | Front<br>Rear |
| **Downside connection** | Front<br>Rear |
| **Connection pitch** | 150 mm |
| **Mechanical durability** | 20000 cycles with periodic preventive maintenance |
| **Electrical durability** | AC-3: 6000 cycles 440/690 V AC 50/60 Hz conforming to EN/IEC 60947-3<br>2500 cycles 690 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>5000 cycles 440 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>AC-23A: 2500 cycles 690 V AC 50/60 Hz conforming to EN/IEC 60947-3<br>AC-23A: 5000 cycles 440 V AC 50/60 Hz conforming to EN/IEC 60947-3 |
| **Height** | Drawout circuit breaker with chassis: 439 mm<br>Drawout circuit breaker without chassis: 300 mm |
| **Width** | Drawout circuit breaker with chassis: 556 mm<br>Drawout circuit breaker without chassis: 493 mm |
| **Depth** | Drawout circuit breaker with chassis: 403 mm<br>Drawout circuit breaker without chassis: 300 mm |
| **Net weight** | 120 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** | 30.5 cm |

| | |
|---|---|
| **Package 1 Width** | 29.5 cm |
| **Package 1 Length** | 49.5 cm |
| **Package 1 Weight** | 54.133 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 | **5 883 kg CO2 eq.** |
| Carbon footprint of the manufacturing phase [A1 to A3] | **707 kg CO2 eq.** |
| Carbon footprint of the distribution phase [A4] | **15 kg CO2 eq.** |
| Carbon footprint of the installation phase [A5] | **18 kg CO2 eq.** |
| Carbon footprint of the use phase [B2, B3, B4, B6] | **4 911 kg CO2 eq.** |
| Carbon footprint of the end-of-life phase [C1 to C4] | **232 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 | **F31d8a4d-e9cb-4afc-bf2c-5965742ce772** |
| 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 | **Yes** |
| Silicone-free | **No** |

## Use Again

### Repack and remanufacture

| | |
|---|---|
| Recyclability potential, in % | **71** |
| End of life manual availability | End of Life Information |
| Take-back | **Yes** |
| WEEE Label | **The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins** |