



## Main

|                                |                                  |
|--------------------------------|----------------------------------|
| Range                          | MasterPacT                       |
| Product name                   | MasterPact MTZ1                  |
| Device short name              | MTZ1 10 H2                       |
| Product or component type      | Circuit breaker                  |
| Device application             | Power distribution protection    |
| Poles description              | 3P                               |
| Control unit                   | Without control unit             |
| [In] rated current             | 1000 A at 40 °C                  |
| Performance type               | H2 50 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                  | Fixed                            |

## Complementary

|  |  |
|--|--|
| [Icu] rated ultimate short-circuit breaking capacity | 50 KA at 220/415 V AC 50/60 Hz<br>50 KA at 440 V AC 50/60 Hz<br>42 KA at 500/525 V AC 50/60 Hz<br>42 kA at 660/690 V AC 50/60 Hz   |
| [Ics] rated service breaking capacity                | 50 KA at 220/415 V AC 50/60 Hz<br>50 KA at 440 V AC 50/60 Hz<br>42 KA at 500/525 V AC 50/60 Hz<br>42 kA at 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 at 50/60 Hz<br>105 KA 440 V AC at 50/60 Hz<br>88 KA 500/525 V AC at 50/60 Hz<br>88 kA 660/690 V AC at 50/60 Hz |
| Integrated instantaneous protection (DIN in kA peak) | 81...99 kA   |
| Sensor rating  | 400 A<br>630 A<br>800 A<br>1000 A  |
| [Ui] rated insulation voltage                        | 1000 V AC 50/60 Hz   |
| [Uimp] rated impulse withstand voltage               | 12 kV  |
| Power dissipation in W                               | 80 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                                | 12500 cycles with periodic preventive maintenance  |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|                        |  |
|------------------------|--|
| Electrical durability  | 3000 Cycles 690 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>6000 Cycles 440 V AC 50/60 Hz conforming to EN/IEC 60947-2<br>AC-23A: 3000 cycles 690 V AC 50/60 Hz conforming to EN/IEC 60947-3<br>AC-23A: 6000 cycles 440 V AC 50/60 Hz conforming to EN/IEC 60947-3<br>AC-3: 6000 cycles 440 V AC 50/60 Hz 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             | 25.0 cm  |
| Package 1 Width              | 40.0 cm  |
| Package 1 Length             | 40.0 cm  |
| Package 1 Weight             | 15.69 kg |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product                         |
| REACH Regulation           | <a href="#">REACH Declaration</a>             |
| EU RoHS Directive          | Compliant <a href="#">EU RoHS Declaration</a> |
| Mercury free               | Yes   |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>        |
| RoHS exemption information | <a href="#">Yes</a>                           |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a> |
| Circularity Profile        | <a href="#">End Of Life Information</a>       |