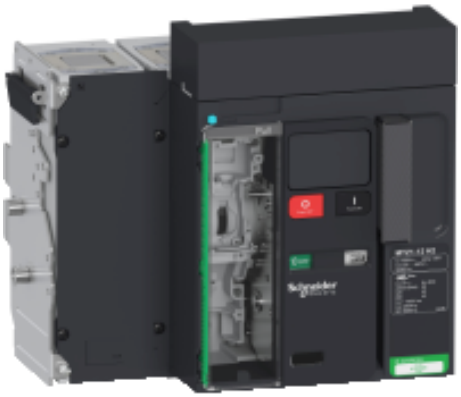
# Product data sheet
## Characteristics

# LV847237
Circuit breaker frame, MasterPact MTZ1 12H2 drawout for MicroLogic X, 1250A, 50kA/415VAC (Icu), 4P



## Main

| | |
|---|---|
| Range | MasterPacT |
| Product name | MasterPact MTZ1 |
| Device short name | MTZ1 12 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 | 1250 A at 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 conforming to EN/IEC 60947-2 |
| Utilisation category | Category B |
| Control type | Push-button |
| Mounting mode | Drawout |

## Complementary

| | |
|---|---|
| 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 |
| Integral instant protection | 81…99 KA |

| | |
|---|---|
| Circuit breaker CT rating | 630 A<br>800 A<br>1000 A<br>1250 A |
| [Ui] rated insulation voltage | 1000 V AC 50/60 Hz |
| [Uimp] rated impulse withstand voltage | 12 KV |
| Power dissipation in W | 250 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 |
| 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 | Drawout circuit breaker with chassis: 322 mm<br>Drawout circuit breaker without chassis: 259.5 mm |
| Width | Drawout circuit breaker with chassis: 358 mm<br>Drawout circuit breaker without chassis: 306.5 mm |
| Depth | Drawout circuit breaker with chassis: 291 mm<br>Drawout circuit breaker without chassis: 207.5 mm |
| Net weight | 39 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[RETURN]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 | 40.0 Cm |
| Package 1 Width | 40.0 Cm |
| Package 1 Length | 30.0 Cm |
| Package 1 Weight | 17.828 Kg |

## Offer Sustainability

| | |
|---|---|
| Recyclability potential, in % | 73 |
| Total lifecycle Carbon footprint | 1 782 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 277.98581196581193 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 278 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 6.694735042735043 |
| Carbon footprint of the distribution phase [A4] | 7 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 27.66545299145299 |
| Carbon footprint of the installation phase [A5] | 28 kg CO2 eq. |

| | |
|---|---|
| Carbon footprint of the use phase [B2, B3, B4, B6] | 1391.634274247492 |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 1 392 kg CO2 eq. |
| Mercury free | Yes |
| Sustainable packaging | No |
| Carbon footprint of the end-of-life phase [C1 to C4] | 78.46294017094017 |
| Carbon footprint of the end-of-life phase [C1 to C4] | 78 kg CO2 eq. |
| Environmental Disclosure | Product Environmental Profile |
| Total lifecycle Carbon footprint | 1782 |
| 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 c |
| SCIP Number | 44ce05ea-25e9-435c-886d-b1162ae4666b |
| REACh Regulation | Reference contains Substances of Very High Concern above the threshold |
| EU RoHS Directive | Compliant By Exemption |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, wh |
| Halogen-free status | Product contains halogen above thresholds |
| PVC free | No |
| Silicone-free | No |
| 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 a |

## Contractual warranty

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

Product Life Status : Commercialised