# Product data sheet
## Characteristics

# LV848332
Circuit breaker frame, MasterPact MTZ2 40H1 drawout for MicroLogic X, 4000A, 66kA/415VAC (Icu), 4P right neutral



## Main

| | |
|---|---|
| Range | MasterPacT |
| Product name | MasterPact MTZ2 |
| Device short name | MTZ2 40 H1 |
| Product or component type | Circuit breaker |
| Device application | Power distribution protection |
| Poles description | 4P |
| Neutral position | Right |
| 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 | H1 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 |
| Utilisation category | Category B |
| Control type | Push-button |
| Mounting mode | Drawout |

## Complementary

| | |
|---|---|
| Breaking capacity | 66 KA at 220/415 V AC 50/60 Hz<br>66 KA at 440 V AC 50/60 Hz<br>66 KA at 500/525 V AC 50/60 Hz<br>66 KA at 660/690 V AC 50/60 Hz |
| [Ics] rated service breaking capacity | 66 KA at 220/415 V AC 50/60 Hz<br>66 KA at 440 V AC 50/60 Hz<br>66 KA at 500/525 V AC 50/60 Hz<br>66 KA at 660/690 V AC 50/60 Hz |
| [Icw] rated short-time withstand current | 66 KA 0.5 s<br>66 KA 1 s<br>66 KA 3 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<br>145 KA 500/525 V AC at 50/60 Hz<br>145 KA 660/690 V AC at 50/60 Hz |
| Circuit breaker CT 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[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 | 30.0 Cm |
| Package 1 Width | 30.0 Cm |
| Package 1 Length | 50.0 Cm |
| Package 1 Weight | 43.133 Kg |

## Offer Sustainability

| | |
|---|---|
| Recyclability potential, in % | 71 |
| Total lifecycle Carbon footprint | 5 883 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 707.4131707317074 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 707 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 15.318878048780489 |
| Carbon footprint of the distribution phase [A4] | 15 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 17.767317073170734 |
| Carbon footprint of the installation phase [A5] | 18 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 4910.955658536585 |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 4 911 kg CO2 eq. |
| Mercury free | Yes |
| Sustainable packaging | No |
| Carbon footprint of the end-of-life phase [C1 to C4] | 231.6468292682927 |
| Carbon footprint of the end-of-life phase [C1 to C4] | 232 kg CO2 eq. |
| Environmental Disclosure | Product Environmental Profile |
| Total lifecycle Carbon footprint | 5883 |
| 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 | F31d8a4d-e9cb-4afc-bf2c-5965742ce772 |
| 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 | Yes |
| 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 and |

## Contractual warranty

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

Product Life Status : Commercialised