



Main

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| 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 | 3P |
| Control unit | Without control unit |
| Product compatibility | Control unit MicroLogic 2.0 X Control unit MicroLogic 5.0 X Control unit MicroLogic 6.0 X Control unit MicroLogic 7.0 X Control unit MicroLogic 2.0 Xi Control unit MicroLogic 5.0 Xi Control unit MicroLogic 6.0 Xi Control unit MicroLogic 7.0 Xi |
| [In] rated current | 1250 A at 40 °C |
| Performance type | 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 |
| Selectivity category | Category B |
| Control type | Push-button |
| Mounting mode | Drawout |

Complementary

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| [Icu] rated ultimate short-circuit breaking capacity | 50 KA at 220/415 V AC 50/60 Hz 50 KA at 440 V AC 50/60 Hz 42 KA at 500/525 V AC 50/60 Hz 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 50 KA at 440 V AC 50/60 Hz 42 KA at 500/525 V AC 50/60 Hz 42 KA at 660/690 V AC 50/60 Hz |
| [Icw] rated short-time withstand current | 42 KA 0.5 s 42 KA 1 s 24 KA 3 s |
| [Icm] rated short-circuit making capacity | 105 KA 220/415 V AC at 50/60 Hz 105 KA 440 V AC at 50/60 Hz 88 KA 500/525 V AC at 50/60 Hz 88 KA 660/690 V AC at 50/60 Hz |
| Integrated instantaneous protection (DIN in kA peak) | 81...99 kA |
| Sensor rating | 630 A 800 A 1000 A 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 |

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| Mounting support | Rails Base plate |
| Upside connection | Front Rear |
| Downside connection | Front 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 6000 Cycles 440 V AC 50/60 Hz conforming to EN/IEC 60947-2 AC-23A: 3000 cycles 690 V AC 50/60 Hz conforming to EN/IEC 60947-3 AC-23A: 6000 cycles 440 V AC 50/60 Hz conforming to EN/IEC 60947-3 AC-3: 6000 cycles 440 V AC 50/60 Hz conforming to EN/IEC 60947-3 |
| Height | Drawout circuit breaker with chassis: 322 mm Drawout circuit breaker without chassis: 259.5 mm |
| Width | Drawout circuit breaker with chassis: 288 mm Drawout circuit breaker without chassis: 236.5 mm |
| Depth | Drawout circuit breaker with chassis: 291 mm Drawout circuit breaker without chassis: 207.5 mm |
| Net weight | 30 kg |
| Standards | EN/IEC 60947-1 EN/IEC 60947-2 EN/IEC 60947-2 Annex H IEC 61557-12 |
| Product certifications | CE[RETURN]IECEE CB Scheme |

Environment

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|---------------------------------------|--|
| 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 2000...5000 m with derating |

Packing Units

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|------------------------------|-----------|
| 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 | 23.068 kg |

Offer Sustainability

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|----------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation |  REACH Declaration |
| EU RoHS Directive | Compliant with Exemptions |
| Mercury free | Yes |
| China RoHS Regulation |  China RoHS Declaration |
| RoHS exemption information |  Yes |
| Environmental Disclosure |  Product Environmental Profile |
| Circularity Profile |  End Of Life Information |
| PVC free | Yes |