



## 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 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

[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

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: 358 mm Drawout circuit breaker without chassis: 306.5 mm
Depth	Drawout circuit breaker with chassis: 291 mm Drawout circuit breaker without chassis: 207.5 mm
Net weight	39 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

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

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

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>