



Main

Range	MasterPacT
Product name	MasterPacT MTZ1
Product or component type	Circuit breaker
Device short name	MTZ1 08 H1
Device application	Power distribution protection
Poles description	4P
Neutral position	Left
Control unit	Without control unit
Product compatibility	Control unit MicroLogic Active 1.0 E Control unit MicroLogic Active 1.0 EP Control unit MicroLogic Active 2.0 A Control unit MicroLogic Active 2.0 AP Control unit MicroLogic Active 2.0 E Control unit MicroLogic Active 2.0 EP Control unit MicroLogic Active 5.0 A Control unit MicroLogic Active 5.0 AP Control unit MicroLogic Active 5.0 E Control unit MicroLogic Active 5.0 EP Control unit MicroLogic Active 6.0 A Control unit MicroLogic Active 6.0 AP Control unit MicroLogic Active 6.0 E Control unit MicroLogic Active 6.0 EP
[In] rated current	800 A at 40 °C
Performance type	H1 42 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	42 kA at 220/415 V AC 50/60 Hz 42 kA at 440 V AC 50/60 Hz 42 kA at 525 V AC 50/60 Hz 42 kA at 690 V AC 50/60 Hz
[Ics] rated service short-circuit breaking capacity	42 kA at 220/415 V AC 50/60 Hz 42 kA at 440 V AC 50/60 Hz 42 kA at 525 V AC 50/60 Hz 42 kA at 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	88 kA 220/415 V AC at 50/60 Hz 88 kA 440 V AC at 50/60 Hz 88 kA 525 V AC at 50/60 Hz 88 kA 690 V AC at 50/60 Hz
Sensor rating	400 A 630 A 800 A
[Ui] rated insulation voltage	1000 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	12 kV

Power dissipation in W	50 W
Power dissipation per pole	12.5 W
Maximum breaking time	25 ms
Maximum closing response time	50 ms
Mounting support	Base plate Rails
Upside connection	Front Rear
Downside connection	Front Rear
Connection pitch	70 mm
Mechanical durability	12500 cycles with maintenance
Electrical durability	6000 Cycles 440 V AC 50/60 Hz conforming to EN/IEC 60947-2 3000 cycles 690 V AC 50/60 Hz conforming to EN/IEC 60947-2
Height (H)	301 mm
Width (W)	346 mm
Depth (D)	196 mm
Net weight	18 kg
Standards	EN/IEC 60947-1 EN/IEC 60947-2
Product certifications	CE[RETURN]CCC[RETURN]EAC

Environment


IP degree of protection	IP3X conforming to EN/IEC 60529
IK degree of protection	IK07 conforming to EN 50102 IK07 conforming to EN/IEC 62262
Pollution degree	3 conforming to IEC 60664-1
Ambient air temperature for operation	-25...70 °C
Temperature derating table	40 °C (800 A) 45 °C (800 A) 50 °C (800 A) 55 °C (800 A) 60 °C (800 A) 65 °C (800 A) 70 °C (800 A)
Ambient air temperature for storage	-40...85 °C
Operating altitude	0...2000 m without derating 2000 m...5000 m with derating

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1 cm
Package 1 Width	1 cm
Package 1 Length	1 cm
Package 1 Weight	1 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
EU RoHS Directive	Compliant with Exemptions
China RoHS Regulation	 China RoHS Declaration
RoHS exemption information	 Yes
Environmental Disclosure	 Product Environmental Profile

Circularity Profile	 End Of Life Information
California proposition 65	WARNING: This product can expose you to chemicals including: DINP, which is known to the State of California to cause cancer, and DIDP, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov