

Lembar data produk

Spesifikasi



Circuit breaker, MasterPacT MTZ2
10H1 drawout, 4P, 1000A, 66kA/
440VAC, MicroLogic 2.0E Active,
manually operated

MTZ210_H12E4PMDHH

Main

Range	MasterPacT
product name	MasterPacT MTZ2
Product or component type	Circuit breaker
Device short name	MTZ2 10 H1
Device application	Power distribution
Poles description	4P
Protected poles description	4P 4d 4P 3d + N/2 4P 3d + OSN 4P 3d
Neutral position	Left
[In] rated current	1000 A at 40 °C
Performance type	H1 66 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	Manually operated ON/OFF push-button
Mounting mode	Drawout
Trip unit name	MicroLogic Active 2.0 E
Trip unit technology	Electronic
Trip unit protection functions	LI
Sensor rating	400 A 630 A 800 A 1000 A

Complementary

[Icu] rated ultimate short-circuit breaking capacity	66 kA at 220/415 V AC 50/60 Hz 66 kA at 440 V AC 50/60 Hz 66 kA at 525 V AC 50/60 Hz 66 kA at 690 V AC 50/60 Hz
[Ics] rated service short-circuit breaking capacity	66 kA at 220/415 V AC 50/60 Hz 66 kA at 440 V AC 50/60 Hz 66 kA at 525 V AC 50/60 Hz 66 kA at 690 V AC 50/60 Hz
[Icw] rated short-time withstand current	66 kA 0.5 s 66 kA 1 s 36 kA 3 s

Disklaimer: Dokumentasi ini tidak ditujukan sebagai pengganti dan tidak untuk digunakan untuk menentukan kesesuaian atau keandalan produk ini untuk aplikasi pengguna

[Icm] rated short-circuit making capacity	145 kA at 220/415 V AC 50/60 Hz 145 kA at 440 V AC 50/60 Hz 145 kA at 525 V AC 50/60 Hz 145 kA at 690 V AC 50/60 Hz
[Ui] rated insulation voltage	1000 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	12 kV
Power dissipation in W	220 W
Power dissipation per pole	55 W
Maximum breaking time	25 ms
Maximum closing response time	70 ms
Mounting support	Base plate Rails
Upside connection	Horizontal
Downside connection	Horizontal
Mechanical durability	25000 cycles with maintenance
Electrical durability	10000 cycles 440 V AC 50/60 Hz conforming to EN/IEC 60947-2 10000 cycles 690 V AC 50/60 Hz conforming to EN/IEC 60947-2
Protection type	Overload protection (long time) conforming to ANSI 49 Instantaneous short-circuit protection conforming to ANSI 50
Trip unit rating	250 A 400 A 630 A 800 A 1000 A 1250 A 1600 A 2000 A 2500 A 3200 A 4000 A 5000 A 6300 A
Long-time pick-up adjustment type Ir (thermal protection)	Adjustable
[Ir] long-time protection pick-up adjustment range	0.4...1 x In adjustable in step of 1 A
Long-time protection delay adjustment type tr	Adjustable in step of 0.5 s
[tr] long-time protection delay adjustment range	0.5...30 s at 6 x Ir
Thermal memory	Yes
Neutral protection setting	1 x Ir (4P 4d) 0.5 x Ir (4P 3d + N/2) 1.6 x Ir (4P 3d + OSN) No protection (4P 3d)
Instantaneous protection pick-up adjustment type Ii	Adjustable
[Ii] instantaneous protection pick-up adjustment range	1.5...10 x Ir adjustable in step of 0.1 x Ir
[Ii mode] instantaneous delay adjustment range	20 ms in standard
Earth-leakage protection	Without
Zone selective interlocking ZSI	Without

Network and machine diagnosis type	System (HMI) health state overview: circuit breaker health state Contacts state: circuit breaker health state MicroLogic service life: circuit breaker health state Tripping cause indication: circuit breaker tripping cause Identification card: diagnostic data Configured alarms synthesis: diagnostic data Monitored function: diagnostic data Operation: diagnostic data MicroLogic test: test Protection test: test Selectivity test: test Trip context information: crisis management Operation: advanced diagnostic Breaker service life: circuit breaker health state
Type of measurement	Energy meter Ammeter
Energy management	Measurement ,active, reactive and apparent energy Measurement ,electrical network Measurement ,energy
Metering type	Current I1, I2, I3, Iavg RMS Neutral current IN RMS Ground fault current Ig RMS Voltage V12, V23, V31, VLLavg RMS Voltage V1N, V2N, V3N, VLNavg RMS Active power P, P1, P2, P3 total Active energy Ep IN/OUT/tot Power factor Demand current I1, I2, I3, In, Iavg Frequency Phase sequence Unbalance current
Measurement voltage	208...828 V AC 50/60 Hz phase to phase 120...480 V AC 50/60 Hz phase to neutral
Frequency measurement range	40...70 Hz
Measurement accuracy	Current I1, I2, I3, Iavg, Idemand for MTZ2: +/- 1.5 % 40...4000 x 1.2 A Neutral current IN: +/- 1.5 % Voltage V12, V23, V31, VLLavg: +/- 0.5 % 208...690 x 1.2 V Voltage V1N, V2N, V3N, VLNavg: +/- 0.5 % 120...400 x 1.2 V Active power P, P1, P2, P3, Pdemand: +/- 2 % Active energy Ep IN/OUT/tot: +/- 2 % Power factor: +/- 2 % Frequency: +/- 0.005 Hz Unbalance current: +/- 0.5 %
Accuracy class	Class 0.5: unbalance voltage
Display type	LCD display - 320 x 240 pixels
Local signalling	2 LEDs for trip causes 3 LEDs for status indication
Communication port protocol	NFC peer to peer 28800 bauds conforming to ISO 15963 USB peer to peer 115 kbauds
Data recording	Data logs Event logs Alarm logs Time stamping Maintenance logs Min/max of instantaneous values
end user smartphone application	EcoStruxure Power Commission EcoStruxure Power Device
Width (W)	Drawout circuit breaker with chassis: 556 mm Drawout circuit breaker without chassis: 493 mm
Height (H)	Drawout circuit breaker with chassis: 439 mm Drawout circuit breaker without chassis: 298 mm
Depth (D)	Drawout circuit breaker with chassis: 403 mm Drawout circuit breaker without chassis: 300 mm
Net weight	120 kg

Environment

Standards	EN/IEC 60947-1 EN/IEC 60947-2
Product certifications	CE CCC EAC
IP degree of protection	IP3X conforming to EN/IEC 60529
IK degree of protection	IK07 conforming to EN/IEC 62262
Pollution degree	3 conforming to EN/IEC 60664-1
Ambient air temperature for operation	-25...70 °C
Temperature derating table	40 °C (1000 A) 45 °C (1000 A) 50 °C (1000 A) 55 °C (1000 A) 60 °C (1000 A) 65 °C (1000 A) 70 °C (1000 A)
Ambient air temperature for storage	-40...85 °C
Relative humidity	0...95 % conforming to IEC 60068-2-30
Operating altitude	0...2000 m without derating 2000 m...5000 m with derating factor

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	70 cm
Package 1 Width	60 cm
Package 1 Length	80 cm
Package 1 Weight	132 kg

Environmental Data

Schneider Electric bertujuan untuk mencapai status Net Zero pada tahun 2050 melalui kemitraan rantai pasokan, bahan baku yang lebih rendah, dan beredar melalui kampanye "Use Better, Use Longer, Use Again" untuk memperpanjang masa pakai dan daur ulang produk.

[Environmental Data dijelaskan >](#)

[Bagaimana kami menilai keberlanjutan produk >](#)

Jejak lingkungan	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	1684
Environmental Disclosure	Product Environmental Profile
Use Better	
Bahan dan Pengemasan	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Compliant with Exemptions
SCIP Number	584555c5-79df-4e54-a0be-1388f30e1540
REACH Regulation	REACH Declaration
Halogen content performance	Product contains halogen above thresholds
PVC free	Yes
Silicon free	No
Use Again	
Repak dan remanufaktur	
Circularity Profile	End of Life Information
Removable battery	User replaceable
Take-back	No
WEEE	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins