Product datasheet

Specifications

Micrologic 6.0 Xi control unit, no wireless, for Masterpact MTZ2/ MTZ3 circuit breakers, drawout, LSIG protections

LV848500WW

EAN Code: 3606481732323

Main

Range	MasterPacT
Device short name	MicroLogic 6.0 Xi
Product or component type	Control unit
Device application	Equipment protection, monitoring and control
Circuit breaker application	Distribution IEC standard
Range compatibility	MasterPact MTZ2 circuit breaker MasterPact MTZ3 circuit breaker
Poles	3P 4P
Protected poles description	3P 3d 4P 3d 4P 3d + N/2 4P 4d 4P 3d + OSN
[Ue] rated operational voltage	690 V AC, +/- 10 %
Network type	AC
Network frequency	50/60 Hz
Trip unit technology	Electronic
Trip unit protection functions	LSIG
Protection type	Overload protection (long time) conforming to ANSI 49 Instantaneous short-circuit protection conforming to ANSI 50 Short time short-circuit protection conforming to ANSI 51 Earth fault conforming to ANSI 51N
Trip unit rating	400 A 630 A 800 A 1000 A 1250 A 1600 A 2000 A 2500 A 3200 A 4000 A 5000 A 6300 A

Complementary

Control type	Wired control
Mounting mode	Drawout

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)
[Ir] long time pick-up adjustment range	0.4...1 x In adjustable in step of 1 A
Long time delay adjustment type	Adjustable in step of 0.5 s
[tr] long-time delay adjustment range	12.5…600 s at 1.5 x Ir 0.5…24 s at 6 x Ir 0.7…16.6 s at 7.2 x Ir
Thermal memory	Yes
[Isd] short-time pick-up adjustment range	1.5...10 x Ir adjustable in step of 0.5 x Ir with embedded HMI 1.5...10 x Ir adjustable in step of 0.1 x Ir with Ecoreach software or MasterPact MTZ mobile app
Short-time delay adjustment type	Adjustable
[tsd] short-time delay adjustment range	0.1…0.4 s I²t=on 0…0.4 s I²t=off
Instantaneous pick-up adjustment type Ii	Adjustable
[Ii] instantaneous pick-up adjustment range	2...15 x In adjustable in step of 0.5 x In with embedded HMI 2...15 x In adjustable in step of 0.1 x In with Ecoreach software or MasterPact MTZ mobile app Ii enable on/off
[Ii mode] instantaneous delay adjustment range	0 ms in fast 20 ms in standard
Ground-fault pick-up adjustment type	Adjustable
[Ig] ground-fault pick-up adjustment range	with In > 400 A 0.2...1 x In adjustable in step of 1 or 10 A with In <= 400 A 0.3...1 x In adjustable in step of 1 or 10 A Ig enable on/off
ground-fault time delay adjustment type	Adjustable
[tg] Ground-fault time delay adjustment range	0.1…0.4 s I²t=on 0…0.4 s I²t=off
Zone selective interlocking ZSI	With
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	Power meter
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 Reactive power Q, Q1, Q2, Q3 total Apparent power S, S1, S2, S3 total Power factor Active energy Ep IN/OUT/tot Reactive energy Eq IN/OUT/tot Apparent energy Es IN/OUT/tot Demand current I1, I2, I3, In, Iavg Demand power P, Q, S Frequency Phase sequence Earth leakage current Total current harmonic distortion THD (I) Total voltage harmonic distortion THD (V) Unbalance current Unbalance voltage
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 MTZ1: +/- 0.5 % 40...1600 x 1.2 A Current I1, I2, I3, Iavg, Idemand for MTZ2: +/- 0.5 % 40...4000 x 1.2 A Current I1, I2, I3, Iavg, Idemand for MTZ3: +/- 0.5 % 80...6300 x 1.2 A Neutral current IN: +/- 1 % Ground fault current Ig: +/- 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: +/- 1 % Reactive power Q, Q1, Q2, Q3, Qdemand: +/- 2 % Apparent power S, S1, S2, S3, Sdemand: +/- 1 % Power factor: +/- 2 % Active energy Ep IN/OUT/tot: +/- 1 % Reactive energy Ep IN/OUT/tot: +/- 2 % Apparent energy Es IN/OUT/tot: +/- 1 % Frequency: +/- 0.005 Hz Earth leakage current: +/- 10 % Unbalance current: +/- 0.5 %
Accuracy class	Class 5: total current harmonic distortion THD (I) Class 0.5: unbalance voltage Class 1: active and reactive energy by pulse counting (+/- W.h, +/- VAR.h) Class 2: total voltage harmonic distortion THD (V)
Display type	LCD display - 128 x 96 pixels
Communication port protocol	USB peer to peer 115 kbauds
Data recording	Data logs Event logs Alarm logs Time stamping Maintenance logs Min/max of instantaneous values

Environment

Standards	EN/IEC 60255-1 EN/IEC 60947-2 EN/IEC 60092-202 EN/IEC 60947-1 EN/IEC 61010-1
Mounting location	Indoor use only
Environmental characteristic	Wet location not approved for use conforming to IEC 61010-1

Electromagnetic compatibility	Electrostatic discharge immunity test conforming to IEC 61000-4-2 Susceptibility to electromagnetic fields conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test conforming to IEC 61000-4-4 1.2/50 µs shock waves immunity test conforming to IEC 61000-4-5 Conducted RF disturbances conforming to IEC 61000-4-6 Conducted and radiated emissions A conforming to CISPR 22
Overvoltage category	IV conforming to IEC 61010-1
Measurement category	Category IV conforming to IEC 61010-2-30
Pollution degree	3 conforming to IEC 60947-1
Ambient air temperature for operation	-25…70 °C (operating) -35 °C (for start-up of product)
Relative humidity	95 % at 55 °C conforming to IEC 60068-2-30
Operating altitude	<= 2000 m without derating <= 4000 m with operational voltage derating 600 V AC <= 5000 m with operational voltage derating 560 V AC

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.8 cm
Package 1 Width	8.0 cm
Package 1 Length	21.5 cm
Package 1 Weight	369.0 g

Logistical informations

Country of origin	FR

Contractual warranty

Warranty	18 months

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Total lifecycle Carbon footprint	51
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant with Exemptions
SCIP Number	Fe0e6f4e-df3c-4360-9977-32248ec09b55
REACh Regulation	REACh Declaration
Halogen-free status	Product contains halogen above thresholds
Silicone-free	No

Use Again

Repack and remanufacture

Recyclability potential, in %	4
End of life manual availability	End of Life Information
Removable battery	User replaceable
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins