

Product datasheet

Specifications



Micrologic 7.0 X control unit. for Masterpact MTZ2 circuit breakers. drawout. LSIV protections

LV848362

Price: 48,138.55 ZAR

Main

Range	MasterPacT
Device Short Name	MicroLogic 7.0 X
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
Poles	4P 3P
Protected Poles Description	3P 3d 4P 3d 4P 3d + N/2 4P 4d 4P 3d + OSN
[Ue] Rated Operational Voltage	600 V AC, +/- 10 %
Network Type	AC
Network Frequency	50/60 Hz
Trip Unit Technology	Electronic
Trip Unit Protection Functions	LSIV
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-leakage protection conforming to ANSI 51G
Trip Unit Rating	800 A 1000 A 1250 A 1600 A 2000 A 2500 A 3200 A

Complementary

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

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

[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 I ² t=on 0...0.4 s I ² t=off
Instantaneous Pick-Up Adjustment Type li	Adjustable
[li] 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 li enable on/off
[Li Mode] Instantaneous Delay Adjustment Range	0 ms in fast 20 ms in standard
Earth-Leakage Protection	With
[Iōn] Residual Earth-Leakage Sensitive Adjustment	0.5...30 A adjustable in step of 0.1 A
Residual Earth-Leakage Time Delay Adjustment Type	Adjustable
[Δt] Residual Earth-Leakage Time Delay Adjustment	60...800 ms resettable time 140...1000 ms break time
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	Bluetooth 4.0 LE peer to peer 30 kbit/s NFC peer to peer 28800 bauds conforming to ISO 15963 USB peer to peer 115 kbauds
Data Recording	Alarm logs Min/max of instantaneous values Data logs Maintenance logs Time stamping Event logs

Environment

Standards	EN/IEC 60947-2 EN/IEC 60947-1 EN/IEC 60092-202 EN/IEC 60255-1 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	8.0 cm
Package 1 Width	22.0 cm
Package 1 Length	7.0 cm
Package 1 Weight	429.0 g

Contractual warranty

Warranty	18 months
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Sustainability

Green Premium™ label is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product’s sustainability >](#)



Transparency RoHS/REACH

Well-being performance

✓	Mercury Free	
✓	Rohs Exemption Information	Yes
✓	Pvc Free	
✓	Halogen Free Plastic Parts Product	

Certifications & Standards

Reach Regulation	REACH Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information