LV847292

MicroLogic 6.0X control unit, MasterPact MTZ1, drawout circuit breakers, LSIG protections





Main

Range	MasterPacT
Device short name	MicroLogic 6.0 X
Product or component type	Control unit
Device application	Equipment protection, monitoring and control
Circuit breaker application	Distribution IEC standard
Range compatibility	MasterPact MTZ1 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	690 V AC, +/- 10 %
National time	AC
Network type	AC
Network type Network frequency	50/60 Hz
Network frequency	50/60 Hz
Network frequency Trip unit technology Trip unit protection	50/60 Hz Electronic

Complementary

Drawout
1 x lr (4P 4d) 0.5 x lr (4P 3d + N/2) 1.6 x lr (4P 3d + OSN) No protection (4P 3d)
0.41 x In adjustable in step of 1 A
Adjustable in step of 0.5 s
12.5600 S at 1.5 x lr 0.524 S at 6 x lr 0.716.6 s at 7.2 x lr
Yes
1.510 x Ir adjustable in step of 0.5 x Ir with embedded HMI 1.510 x Ir adjustable in step of 0.1 x Ir with Ecoreach software or MasterPact MTZ mobile app
Adjustable

[tsd] short-time delay adjustment range	0.10.4 S I²t=on 00.4 s I²t=off
Instantaneous pick-up adjustment type li	Adjustable
[li] instantaneous pick-up adjustment range	215 x In adjustable in step of 0.5 x In with embedded HMI 215 x In adjustable in step of 0.1 x In with Ecoreach software or MasterPact MTZ mobile app Ii enable on/off
[li mode] instantaneous delay adjustment range	0 ms in fast 20 ms in standard
Ground-fault pick-up adjustment type	Adjustable
[lg] ground-fault pick-up adjustment range	With In > 400 A 0.21 x In adjustable in step of 1 or 10 A With In <= 400 A 0.31 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	0.10.4 S I²t=on 00.4 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 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	208828 V AC 50/60 Hz phase to phase
	120480 V AC 50/60 Hz phase to neutral

Measurement accuracy	Current I1, I2, I3, lavg, Idemand for MTZ1: +/- 0.5 % 401600 x 1.2 A
	Current I1, I2, I3, Iavg, Idemand for MTZ2: +/- 0.5 % 404000 x 1.2 A
	Current I1, I2, I3, lavg, Idemand for MTZ3: +/- 0.5 % 806300 x 1.2 A
	Neutral current IN: +/- 1 %
	Ground fault current lg: +/- 5 %
	Voltage V12, V23, V31, VLLavg: +/- 0.5 % 208690 x 1.2 V
	Voltage V1N, V2N, V3N, VLNavg: +/- 0.5 % 120400 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 conforming to ISO 15963
	USB peer to peer 115 kbauds
Data recording	Alarm logs
Č	Maintenance logs
	Min/Max of instantaneous values
	Time stamping
	Data logs
	Event logs

Environment

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Standards	EN/IEC 60092-202 EN/IEC 60947-2 EN/IEC 60947-1 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	-2570 °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

PCE
1
6.8 cm
8.0 cm
21.5 cm
369.0 g

Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	☑ REACh Declaration	
EU RoHS Directive	Compliant with Exemptions	
Mercury free	Yes	
China RoHS Regulation	☑ China RoHS Declaration	
RoHS exemption information	₫Yes	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	☑ End Of Life Information	
PVC free	Yes	
Halogen content performance	Halogen free plastic parts product	

Contractual warranty

Warranty	18 months