LV848500

MicroLogic 6.0X control unit, MasterPact MTZ2/MTZ3, drawout circuit breakers, LSIG protections





Main

Man	
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 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

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	0.41 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	12.5600 S at 1.5 x lr 0.524 S at 6 x lr 0.716.6 s at 7.2 x lr	

Thermal memory	Yes
[Isd] short-time pick-up adjustment range	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
Short-time delay adjustment type	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	$215 \times In$ adjustable in step of $0.5 \times In$ with embedded HMI $215 \times In$ adjustable in step of $0.1 \times In$ 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
	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	Management and another and account and
	Measurement ,active, reactive and apparent energy Measurement ,electrical network Measurement ,energy
	Measurement ,electrical network Measurement ,energy Current I1, I2, I3, lavg 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, lavg 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
Metering type Measurement voltage	Measurement ,electrical network Measurement ,energy 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)

Measurement accuracy	Current I1, I2, I3, lavg, Idemand for MTZ1: +/- 0.5 % 401600 x 1.2 A
weasurement accuracy	Current I1, I2, I3, lavg, 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 Ig: +/- 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	Min/Max of instantaneous values
	Maintenance logs
	Alarm logs
	Time stamping
	Event logs
	Data logs

Environment

EN/IEC 60947-1 EN/IEC 60092-202 EN/IEC 60947-2 EN/IEC 60255-1 EN/IEC 61010-1
Indoor use only
Wet location not approved for use conforming to IEC 61010-1
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
IV conforming to IEC 61010-1
Category IV conforming to IEC 61010-2-30
3 conforming to IEC 60947-1
-2570 °C (operating) -35 °C (for start-up of product)
95 % at 55 °C conforming to IEC 60068-2-30
<= 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
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

Contractual warranty

Warranty	18 months
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