

# Product datasheet

Specifications



## MicroLogic Active 6.0A control unit, no wireless, MasterPacT MTZ1/MTZ2/MTZ3 circuit breakers, LSIG protections

LV933073

### Main

Range	MasterPacT
Device short name	MicroLogic Active 6.0 A
Product or component type	Control unit
Device application	Equipment protection, monitoring and control
Circuit breaker application	Distribution IEC standard
Range compatibility	MasterPacT MTZ1 Active circuit breaker MasterPacT MTZ2 Active circuit breaker MasterPacT MTZ3 Active 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 %
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	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

### Complementary

Control type	Wired control
Mounting mode	Fixed Drawout

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

<b>Neutral protection setting</b>	1 x Ir (4P 4d) 0.5 x Ir (4P 3d + N/2) 1.6 x Ir (4P 3d + OSN) No protection (4P 3d)
<b>[Ir] long time pick-up adjustment range</b>	0.4...1 x In adjustable in step of 1 A
<b>Long time delay adjustment type</b>	Adjustable in step of 0.5 s
<b>[tr] long-time delay adjustment range</b>	0.5...30 s at 6 x Ir
<b>Thermal memory</b>	Yes
<b>[Isd] short-time pick-up adjustment range</b>	1.5...10 x Ir adjustable in step of 0.1 x Ir
<b>Short-time delay adjustment type</b>	Adjustable
<b>[tsd] short-time delay adjustment range</b>	0.1...0.8 s I <sup>2</sup> t=on 0...0.8 s I <sup>2</sup> t=off
<b>Instantaneous pick-up adjustment type li</b>	Adjustable
<b>[li] instantaneous pick-up adjustment range</b>	2...15 x In adjustable in step of 0.1 x In li enable on/off
<b>[li mode] instantaneous delay adjustment range</b>	20 ms in standard
<b>Ground-fault pick-up adjustment type</b>	Adjustable
<b>[Ig] ground-fault pick-up adjustment range</b>	with In ≤ 400 A 0.3...1 x In adjustable in step of 1 A with In ≤ 1000 A 0.2...1 x In adjustable in step of 1 A with In > 1000 A 0.2...1 x In adjustable in step of 10 A Ig enable on/off
<b>ground-fault time delay adjustment type</b>	Adjustable
<b>[tg] Ground-fault time delay adjustment range</b>	0.1...1 s I <sup>2</sup> t=on 0...1 s I <sup>2</sup> t=off
<b>Zone selective interlocking ZSI</b>	With
<b>Network and machine diagnosis type</b>	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
<b>Type of measurement</b>	Ammeter
<b>Metering type</b>	Current I1, I2, I3, Iavg RMS Neutral current IN RMS Ground fault current Ig RMS Demand current I1, I2, I3, In, Iavg Frequency Phase sequence total Unbalance current
<b>Frequency measurement range</b>	40...70 Hz
<b>Measurement accuracy</b>	Current I1, I2, I3, Iavg, Idemand for MTZ1: +/- 1.5 % 40...1600 x 1.2 A Current I1, I2, I3, Iavg, Idemand for MTZ2: +/- 1.5 % 40...4000 x 1.2 A Current I1, I2, I3, Iavg, Idemand for MTZ3: +/- 1.5 % 80...6300 x 1.2 A Neutral current IN: +/- 1.5 % Ground fault current Ig: +/- 10 % Frequency: +/- 0.005 Hz Unbalance current: +/- 0.5 %
<b>Display type</b>	LCD display - 320 x 240 pixels

<b>Communication port protocol</b>	NFC peer to peer 28800 bauds conforming to ISO 15963 USB peer to peer 115 kbauds
<b>Data recording</b>	Data logs Event logs Alarm logs Time stamping Maintenance logs Min/max of instantaneous values

## Environment

<b>Standards</b>	EN/IEC 60947-2 EN/IEC 60092-202 EN/IEC 60947-1 EN/IEC 60255-1 EN/IEC 61010-1
<b>Mounting location</b>	Indoor use only
<b>Environmental characteristic</b>	Wet location not approved for use conforming to IEC 61010-1
<b>Electromagnetic compatibility</b>	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
<b>Overvoltage category</b>	IV conforming to IEC 61010-1
<b>Measurement category</b>	Category IV conforming to IEC 61010-2-30
<b>Pollution degree</b>	3 conforming to IEC 60947-1
<b>Ambient air temperature for operation</b>	-25...70 °C (operating) -35 °C (for start-up of product)
<b>Relative humidity</b>	95 % at 55 °C conforming to IEC 60068-2-30
<b>Operating altitude</b>	<= 2000 m without derating <= 4000 m with operational voltage derating 600 V AC <= 5000 m with operational voltage derating 560 V AC

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	6 cm
<b>Package 1 Width</b>	10 cm
<b>Package 1 Length</b>	21 cm
<b>Package 1 Weight</b>	3 kg

## Contractual warranty

<b>Warranty (in months)</b>	18
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## 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	19 kg CO2 eq.
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Carbon footprint of the manufacturing phase [A1 to A3]	14 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.1 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	5 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.7 kg CO2 eq.

## Use Better



### Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
<a href="#">EU RoHS Directive</a>	Compliant with Exemptions
SCIP Number	Fcd3b9fe-bf44-449d-96b9-7cfc67b6e92b
REACH Regulation	<a href="#">REACH Declaration</a>
Halogen-free status	Product contains halogen above thresholds
PVC free	Yes
Silicone-free	No

## Use Longer



### Lifetime extension

Repair	No
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## Use Again



### Repack and remanufacture

Recyclability potential, in %	5
End of life manual availability	<a href="#">End of Life Information</a>
Removable battery	User replaceable
Take-back	No