

# Product datasheet

Specifications



## MicroLogic Active 5.0AP control unit, wireless, MasterPacT MTZ1/MTZ2/MTZ3 circuit breakers, LSI protections

LV933072W

### Main

|                                |  |
|--------------------------------|--|
| Range                          | MasterPacT   |
| Device short name              | MicroLogic Active 5.0 AP   |
| 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<br>MasterPacT MTZ2 Active circuit breaker<br>MasterPacT MTZ3 Active circuit breaker   |
| Poles                          | 4P<br>3P   |
| Protected poles description    | 3P 3d<br>4P 3d<br>4P 3d + N/2<br>4P 4d<br>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 | LSI  |
| Protection type                | Overload protection (long time) conforming to ANSI 49<br>Instantaneous short-circuit protection conforming to ANSI 50<br>Short time short-circuit protection conforming to ANSI 51 |
| Trip unit rating               | 250 A<br>400 A<br>630 A<br>800 A<br>1000 A<br>1250 A<br>1600 A<br>2000 A<br>2500 A<br>3200 A<br>4000 A<br>5000 A<br>6300 A   |

### Complementary

|                            |   |
|----------------------------|---|
| Mounting mode              | Fixed<br>Drawout  |
| Neutral protection setting | 1 x Ir (4P 4d)<br>0.5 x Ir (4P 3d + N/2)<br>1.6 x Ir (4P 3d + OSN)<br>No protection (4P 3d) |

Excluding VAT, FCA Jabal Ali & amp; are subject to change – check with your local distributor.

|   |  |
|---|--|
| <b>[I<sub>r</sub>] long time pick-up adjustment range</b>     | 0.4...1 x I <sub>n</sub> adjustable in step of 1 A   |
| <b>Long time delay adjustment type</b>                        | Adjustable in step of 0.5 s  |
| <b>[t<sub>r</sub>] long-time delay adjustment range</b>       | 0.5...30 s at 6 x I <sub>r</sub>   |
| <b>Thermal memory</b>   | Yes  |
| <b>[I<sub>sd</sub>] short-time pick-up adjustment range</b>   | 1.5...10 x I <sub>r</sub> adjustable in step of 0.1 x I <sub>r</sub>   |
| <b>Short-time delay adjustment type</b>                       | Adjustable   |
| <b>[t<sub>sd</sub>] short-time delay adjustment range</b>     | 0.1...0.8 s I <sup>t</sup> =on<br>0...0.8 s I <sup>t</sup> =off  |
| <b>Instantaneous pick-up adjustment type li</b>               | Adjustable   |
| <b>[I<sub>i</sub>] instantaneous pick-up adjustment range</b> | 2...15 x I <sub>n</sub> adjustable in step of 0.1 x I <sub>n</sub><br>li enable on/off   |
| <b>[li mode] instantaneous delay adjustment range</b>         | 20 ms in standard  |
| <b>Zone selective interlocking ZSI</b>                        | With   |
| <b>Network and machine diagnosis type</b>                     | System (HMI) health state overview: circuit breaker health state<br>Contacts state: circuit breaker health state<br>MicroLogic service life: circuit breaker health state<br>Tripping cause indication: circuit breaker tripping cause<br>Identification card: diagnostic data<br>Configured alarms synthesis: diagnostic data<br>Monitored function: diagnostic data<br>Operation: diagnostic data<br>MicroLogic test: test<br>Protection test: test<br>Selectivity test: test<br>Trip context information: crisis management<br>Operation: advanced diagnostic<br>Breaker service life: circuit breaker health state |
| <b>Type of measurement</b>                                    | Ammeter  |
| <b>Metering type</b>  | Current I1, I2, I3, I <sub>avg</sub> RMS<br>Neutral current I <sub>N</sub> RMS<br>Ground fault current I <sub>g</sub> RMS<br>Demand current I1, I2, I3, I <sub>n</sub> , I <sub>avg</sub><br>Frequency<br>Phase sequence total<br>Unbalance current  |
| <b>Frequency measurement range</b>                            | 40...70 Hz   |
| <b>Measurement accuracy</b>                                   | Current I1, I2, I3, I <sub>avg</sub> , I <sub>demand</sub> for MTZ1: +/- 1.5 % 40...1600 x 1.2 A<br>Current I1, I2, I3, I <sub>avg</sub> , I <sub>demand</sub> for MTZ2: +/- 1.5 % 40...4000 x 1.2 A<br>Current I1, I2, I3, I <sub>avg</sub> , I <sub>demand</sub> for MTZ3: +/- 1.5 % 80...6300 x 1.2 A<br>Neutral current I <sub>N</sub> : +/- 1.5 %<br>Ground fault current I <sub>g</sub> : +/- 10 %<br>Frequency: +/- 0.005 Hz<br>Unbalance current: +/- 0.5 %  |
| <b>Display type</b>   | LCD display - 320 x 240 pixels   |
| <b>Communication port protocol</b>                            | Bluetooth 5.0 LE peer to peer 30 kbit/s<br>NFC peer to peer 28800 bauds conforming to ISO 15963<br>USB peer to peer 115 kbauds   |
| <b>Data recording</b>   | Data logs<br>Event logs<br>Alarm logs<br>Time stamping<br>Maintenance logs<br>Min/max of instantaneous values  |

## Environment

|  |   |
|--|---|
| <b>Standards</b>                             | EN/IEC 60947-2<br>EN/IEC 60092-202<br>EN/IEC 60947-1<br>EN/IEC 60255-1<br>EN/IEC 61010-1<br>IEEE 802.15.4   |
| <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<br>Susceptibility to electromagnetic fields conforming to IEC 61000-4-3<br>Electrical fast transient/burst immunity test conforming to IEC 61000-4-4<br>1.2/50 µs shock waves immunity test conforming to IEC 61000-4-5<br>Conducted RF disturbances conforming to IEC 61000-4-6<br>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)<br>-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<br><= 4000 m with operational voltage derating 600 V AC<br><= 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 |
|-----------------------------|----|



## 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.                                 |
| 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.                                |
| Environmental Disclosure                               | <a href="#">Product Environmental Profile</a> |

## Use Better



### Materials and Substances

|  |  |
|--|--|
| Packaging made with recycled cardboard | Yes  |
| Packaging without single use plastic   | No   |
| SCIP Number                            | Fcd3b9fe-bf44-449d-96b9-7cfc67b6e92b   |
| EU RoHS Directive                      | <a href="#">Compliant By Exemption</a>   |
| REACH Regulation                       | <a href="#">Reference contains Substances of Very High Concern above the threshold</a> |
| Halogen-free status                    | Product contains halogen above thresholds  |
| PVC free                               | Yes  |
| Silicone-free                          | No   |

## Use Longer



### Lifetime extension

|        |    |
|--------|----|
| Repair | No |
|--------|----|

## 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                                      |