

Product datasheet

Specifications



energy sensor, PowerTag Rope 1000A 3P/3P+N top and bottom position

A9MEM1592

EAN Code: 3606481595300

Main

| | |
|-------------------------------------|--|
| Range of product | PowerLogic |
| Product name | PowerTag R1000 |
| Product or component type | Energy sensor |
| Poles | 3P 3P + N |
| Maximum current [I _{max}] | 1000 A |
| [I _b] Basic current | 150 A |
| Starting current | 600 mA |
| Saturation current | 2000 A |
| Product specific application | Energy management Overload alarm Power factor Load monitoring Circuit monitoring |
| Concentrator compatibility | EcoStruxure Panel Server Entry EcoStruxure Panel Server Universal EcoStruxure Panel Server Advanced Harmony Hub Acti9 PowerTag Link Acti9 PowerTag Link HD |
| Range compatibility | Masterpact MasterPact MTZ for switch disconnecter Masterpact MasterPact NW Masterpact MasterPact NT Compact NS Compact NS100 Compact NS Compact NS250 Compact NS Compact NS400 Compact NS Compact NS630 Acti9 TeSys |
| Type of measurement | Active and reactive energy Apparent energy Active and reactive power Apparent power Current Voltage Power factor Internal temperature Frequency |
| Accuracy class | Class 1 active energy conforming to IEC 61557-12 Class 2 reactive energy conforming to IEC 61557-12 Class 2 apparent energy conforming to IEC 61557-12 Class 1 active power conforming to IEC 61557-12 Class 2 reactive power conforming to IEC 61557-12 Class 2 apparent power conforming to IEC 61557-12 Class 1 current conforming to IEC 61557-12 Class 0.5 voltage conforming to IEC 61557-12 Class 1 power factor conforming to IEC 61557-12 Class 0.5 frequency conforming to IEC 61557-12 |

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|------------------------------------|--|
| Metering type | Active energy E -a- IN/OUT 0...281 x 10exp(9) kWh at total per phase Active energy E -a- IN/OUT 0...281 x 10exp(9) kWh at partial per phase Active energy E -a- IN/OUT 0...281 x 10exp(9) kWh at 3-phase total Active energy E -a- IN/OUT 0...281 x 10exp(9) kWh at 3-phase partial Reactive energy E -rA- IN/OUT 0...281 x 10exp(9) kVARh at total per phase Reactive energy E -rA- IN/OUT 0...281 x 10exp(9) kVARh at partial per phase Reactive energy E -rA- IN/OUT 0...281 x 10exp(9) kVARh at 3-phase total Reactive energy E -rA- IN/OUT 0...281 x 10exp(9) kVARh at 3-phase partial Apparent energy E -apA- 0...281 x 10exp(9) kVAh at total per phase Apparent energy E -apA- 0...281 x 10exp(9) kVAh at partial per phase Apparent energy E -apA- 0...281 x 10exp(9) kVAh at 3-phase total Apparent energy E -apA- 0...281 x 10exp(9) kVAh at 3-phase partial Active power P, P1, P2, P3 Reactive power Q, Q1, Q2, Q3 Apparent power S, S1, S2, S3 Current I1, I2, I3 Calculated neutral current Voltage U12, U23, U31 Voltage V1N, V2N, V3N Frequency 45...65 Hz Power factor at per phase Power factor at total |
| Mounting location | Top or bottom |
| Mounting support | Busbar Cables |
| Product destination | Switchboard |
| Event management | Voltage loss with measured current at voltage loss |
| Transmission support medium | Radio frequency 2.4...2.4835 GHz conforming to IEEE 802.15.4 |
| Emission power | 10 mW |

Complementary

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|---|---|
| Form factor | Rope |
| Mounting mode | Clip-on (DIN rail) |
| Electrical connection (voltage sensing & power supply) | Removable spring terminal block |
| Cable cross section | 1 rigid cable 0.2...1.5 mm ² without cable end 1 stranded cable 0.2...2.5 mm ² without cable end 1 stranded cable 0.25...1.5 mm ² with cable end |
| Wire stripping length | 11 mm |
| Cable length | 1 m for sensor |
| current sensor diameter | Closed: 100 mm |
| supply voltage | 100...277 V AC, +/- 20 %, phase to neutral 173...480 V AC, +/- 20 %, phase to phase |
| Network frequency | 50 Hz 60 Hz |
| Maximum power consumption | 3 VA |
| Standards | IEC 61557-12 IEC 61010-1 ETSI EN 301 489-1 IEC 61010-2-030 IEC 61326-1 ETSI EN 300 328 |
| Product certifications | UL listed IEC DNV Marine |
| Number of 9mm pitches on Din rail | 2 |
| Height | Base unit: 105 mm |
| Width | Base unit: 18 mm |

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| Depth | Base unit: 67.5 mm |
| Colour | White (RAL 9003) |

Environment

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|---------------------------------------|---|
| Maximum conductor temperature | 105 °C |
| Quality labels | CE |
| Directives | 2014/53/EU - radio equipment directive |
| Operating altitude | 0...2000 m |
| Ambient air temperature for operation | -25...70 °C |
| Ambient air temperature for storage | -40...85 °C |
| Overvoltage category | IV conforming to IEC 61010-1 |
| Measurement category | Category IV conforming to IEC 61010-2-030 |
| IP degree of protection | IP20 conforming to IEC 60529 |
| IK degree of protection | IK05 |
| Pollution degree | 3 |
| Relative humidity | 0...95 % at 55 °C conforming to IEC 60721-3-3 |
| Vibration resistance | 3M4 conforming to IEC 60721-3-3 |
| Electromagnetic compatibility | Industrial electromagnetic environment conforming to IEC 61326-1 Radiated EMC conforming to ETSI EN 301 489-17 Electromagnetic emission conforming to IEC 62311 |
| environmental characteristics | Indoor use |

Packing Units

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|------------------------------|-----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 8.000 cm |
| Package 1 Width | 17.500 cm |
| Package 1 Length | 20.000 cm |
| Package 1 Weight | 559.000 g |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 7 |
| Package 2 Height | 30.000 cm |
| Package 2 Width | 30.000 cm |
| Package 2 Length | 40.000 cm |
| Package 2 Weight | 4.436 kg |

Logistical informations

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| Country of origin | LV |
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Contractual warranty

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| Warranty (in months) | 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

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|----------------------------------|----|
| Total lifecycle Carbon footprint | 15 |
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Use Better

Materials and Substances

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| Packaging made with recycled cardboard | Yes |
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| Packaging without single use plastic | Yes |
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| EU RoHS Directive | Compliant with Exemptions |
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| SCIP Number | C95f0981-71d7-438e-a30e-2f57c0c90b5f |
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| REACH Regulation | REACH Declaration |
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Use Again

Repack and remanufacture

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| End of life manual availability | End of Life Information |
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| Take-back | No |
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| WEEE Label |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
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Technical Illustration

Dimensions

