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## Data sheet 7KG7750-0AA03-0AA0

Power Meter SICAM P50 direct-display control panel built-in instrument 96 x 96 mm with graphic display, 2 binary outputs, degree of protection: IP65, RS485 with PROFIBUS DP and Modbus RTU / ASCII

| | |
|---|---|
| **Measuring functions** | |
| sampling frequency / per sampling cycle | 3 200 Hz |
| number of harmonics | 19 |
| product function / phase angle measurement | Yes |
| product function / active power measurement | Yes |
| product function / reactive power measurement | Yes |
| product function / apparent power measurement | Yes |
| product function / querying of limit violations | Yes |
| product function / logic function | Yes |
| product function / measurement of the harmonic active power | No |
| type of measured value detection / min./max. values | Yes |
| type of measured value detection / mean values | Yes |
| accuracy class / of the measuring instrument / for measured variable active power / according to IEC 62053-22 | 0,5S |
| accuracy class / of the measuring instrument / for measured variable reactive power | 1 |
| storage capacity | 0.001 Gbyte |
| **Power Quality functions** | |
| power quality assessment function / transient detection/logging | No |
| power quality assessment function / Total Harmonic Distortion (THD) | Yes |
| power quality assessment function / voltage dip | No |
| power quality assessment function / measurement of the harmonic phase angle | No |
| product function / for voltage variations and flicker / integrated / according to IEC 61000-4-15 | No |
| **File formats** | |
| type of data transmission / via CSV | No |
| **Energy Management functions** | |
| product function / active energy measurement | Yes |
| product function / reactive energy measurement | Yes |
| product function / apparent energy measurement | Yes |
| energy management function / calculation of load profiles | No |
| energy management function / tariffs | No |
| energy management function / load factor (TOU) | No |
| number of tariffs | 0 |
| **Measuring inputs** | |
| number of inputs / for voltage measurement | 4 |
| number of inputs / for current measurement | 3 |
| input voltage / between L and L / maximum | 690 V |
| input voltage / between L and N / maximum | 400 V |
| input current / maximum | 10 A |
| **Supply voltage** | |
| supply voltage / at AC | 110 ... 230 V |
| supply voltage / at DC | 24 ... 250 V |
| measuring range frequency / at the measurement inputs | 45 ... 65 Hz |
| type of voltage / of the supply voltage | AC/DC |
| **Inputs / Outputs** | |
| number of analog inputs | 0 |
| number of digital inputs | 0 |


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| | |
|---|---|
| number of analog outputs | 0 |
| number of digital outputs | 2 |
| **Communication** | |
| protocol / is supported / IEC 61850 | No |
| protocol / is supported / Modbus TCP | No |
| protocol / is supported / Modbus RTU | Yes |
| protocol / is supported / PROFIBUS DP | Yes |
| protocol / is supported / SNMP | No |
| protocol / is supported / OPC UA with PubSub | No |
| protocol / is supported / IEC 60870-5-103 | No |
| communication function / Modbus RTU as master | No |
| number of ports / of the Ethernet interface | 0 |
| product function / gateway function for Modbus RTU | No |
| **Cybersecurity** | |
| type of access control / role-based access control (RBAC) | No |
| product function / logging via Audit log | No |
| product function / logging via Security Eventlog | No |
| service / as web server / HTTPS | No |
| product function / firmware identifier | No |
| **Time synchronization** | |
| type of time synchronization | RTC, Modbus RTU, binary input |
| **Mechanical Design** | |
| width | 100 mm |
| height | 100 mm |
| depth | 97 mm |
| weight | 621.15 g |
| product feature / with display | Yes |
| fastening method / DIN-rail mounting | No |
| fastening method / wall mounting | No |
| fastening method / rack mounting | Yes |
| type of electrical connection | Screw terminals |
| connectable conductor cross-section | 2.5 mm² |
| **Degree of protection / protection class** | |
| protection class IP / on the front | IP65 |
| protection class IP / rear side | IP20 |
| **Environmental conditions** | |
| ambient temperature / during operation | -25 ... +55 °C |
| ambient temperature / during storage | -25 ... +70 °C |
| **Approval certification** | |
| certificate of suitability / CE marking | Yes |
| certificate of suitability / UL approval | No |

**Further information**

**Siemens is working on the renewal of the current EAC certificates.**
Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

**Information- and Downloadcenter (catalogues, leaflets,...)**
https://www.siemens.com/energy-automation

**Industry Mall (Online ordering system)**
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=7KG7750-0AA03-0AA0

**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/7KG7750-0AA03-0AA0

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7KG7750-0AA03-0AA0

**Tender specifications**
https://www.siemens.com/specifications

**Power Academy - Your training and consulting partner in the area of power transmission and distribution**
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