

SENTRON, measuring device, 7KT PAC1600, LCD, L-N: 230 V, 63 A, strd rail instr., sing.-ph., S0, apparent/active/ reactive energy, self-powered, screw terminals



| Model | |
|----------------------------------|----------------------|
| product brand name | SENTRON |
| Product designation | 7KM PAC1600 |
| Design of the product | basic |
| Product type designation | Measuring instrument |
| Type of measured value detection | complete |

| General technical data | |
|--|-------------------------|
| Size of Power Monitoring Device / company-specific | 2MW |
| Operating mode for measured value detection | |
| • automatic line frequency detection | Yes |
| • set at 50 Hz | No |
| • set to 60 Hz | No |
| Pulse duration | |
| • initial value | 100 ms |
| • Full-scale value | 100 ms |
| Voltage curve | Sinusoidal or distorted |
| Measurable line frequency / initial value | 45 Hz |
| Measurable line frequency / Full-scale value | 66 Hz |

| | |
|--|-------------------------------------|
| Measuring procedure / for voltage measurement | TRMS |
| Supply voltage | |
| Type of voltage / of the supply voltage | self-powered |
| Consumed active power | |
| <ul style="list-style-type: none"> without expansion module / typical | 0.45 W |
| Protection class | |
| <ul style="list-style-type: none"> protection class IP / on the front | IP40 |
| <ul style="list-style-type: none"> Protection class IP / Rear side | IP20 |
| Current | |
| Measurable current | |
| <ul style="list-style-type: none"> 1 / at AC / Rated value | 63 A |
| <ul style="list-style-type: none"> 2 / at AC / Rated value | 63 A |
| Suitability | |
| Suitability for operation | Standard mounting rail device |
| Product function | |
| <ul style="list-style-type: none"> product function / reactive power measurement | Yes |
| <ul style="list-style-type: none"> product function / frequency measurement | Yes |
| <ul style="list-style-type: none"> product function / voltage measurement | Yes |
| <ul style="list-style-type: none"> product function / current measurement | Yes |
| <ul style="list-style-type: none"> product function / active power measurement | Yes |
| Display and operation | |
| design of the display | LCD |
| number of keys | 1 |
| Communication | |
| Protocol | |
| <ul style="list-style-type: none"> is supported | S0 |
| Fault limits | |
| Reference condition / for metering accuracy | Acc. to IEC62053-21 and IEC62053-23 |
| Inputs Outputs | |
| number of digital outputs | 1 |
| number of digital inputs | 0 |
| Digital output version | Static |
| Type of switching output | solid state |
| Type of electrical connection | |
| <ul style="list-style-type: none"> at the digital outputs | screw-type terminals |
| Output current | |
| <ul style="list-style-type: none"> at digital output / for signal <1> / maximum | 50 mA |
| <ul style="list-style-type: none"> at the digital outputs / at DC / limited to 100 ms / maximum | 50 mA |

| | |
|---|------|
| Operating conditions for digital inputs / external voltage supply | No |
| Operating voltage / as output voltage / at DC / maximum permissible | 30 V |

Measuring inputs

| | |
|---|-------------------------|
| Measurable supply voltage | |
| <ul style="list-style-type: none"> • between (PE)N and L / at AC / minimum • between (PE)N and L / at AC / maximum • between (PE)N and L / at AC / maximum rated value | 187 V 264 V 230 V |
| Measuring category / for voltage measurement | CATIII |
| Continuous current / at AC / maximum permissible | 63 A |
| Measuring category / for current measurement | CATIII |
| Zero-point suppression / for current measurement | 40 mA |
| Relative measurable current / at AC | |
| <ul style="list-style-type: none"> • minimum • maximum | 0.8 % 100 % |
| <ul style="list-style-type: none"> • apparent power consumption / for current measurement / with measuring range 5 A / per phase | 7 V·A |
| Measuring procedure / for current measurement | TRMS |

Connections

| | |
|--|--|
| Type of electrical connection | |
| <ul style="list-style-type: none"> • at the measurement inputs for voltage • at the measurement inputs for current | screw-type terminals screw-type terminals |

Mechanical Design

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|--------------------------------|---------|
| Height | 90 mm |
| Width | 35.8 mm |
| Depth | 63 mm |
| Mounting type / panel mounting | No |
| mounting position | any |
| net weight | 148 g |

Environmental conditions

| | |
|--|------------------------------|
| Installation altitude / at height above sea level / maximum | 2 000 m |
| Standard | |
| <ul style="list-style-type: none"> • for pulse emitter | Standard / For Pulse Emitter |
| Relative humidity / at 25 °C / without condensation / during operation | |
| <ul style="list-style-type: none"> • maximum | 80 % |
| Ambient temperature / during operation | |
| <ul style="list-style-type: none"> • minimum | -25 °C |

| | |
|--------------------------------------|--------|
| • maximum | 55 °C |
| Ambient temperature / during storage | |
| • minimum | -25 °C |
| • maximum | 70 °C |

Certificates

| | |
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| • Certificate of suitability / Approval Russia | Yes |
|--|-----|

Declaration of Conformity



Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=7KT1655>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/7KT1655>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7KT1655

CAX-Online-Generator

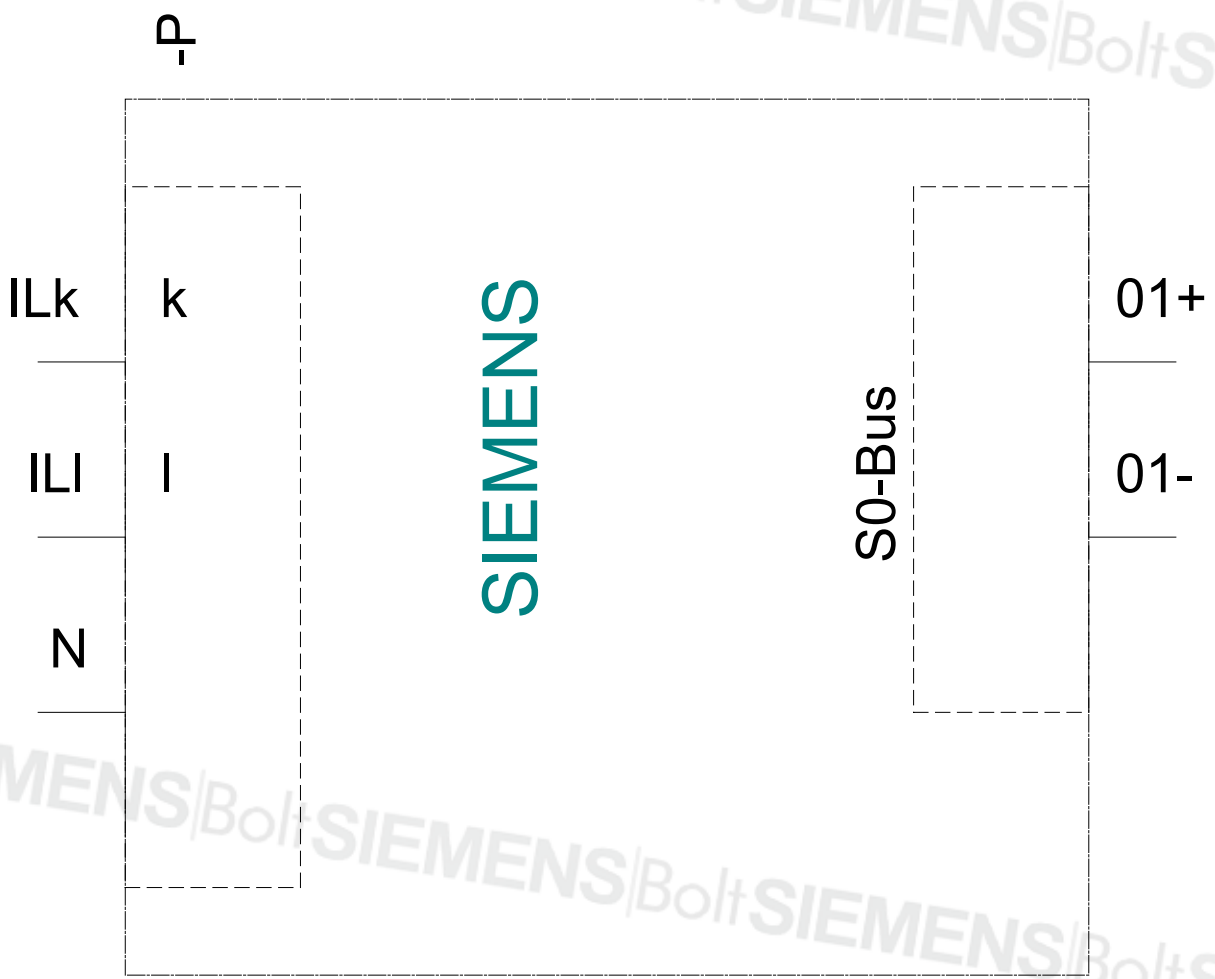
<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>

The SIEMENS logo is centered within a large rectangular frame. The logo consists of the word "SIEMENS" in a bold, teal-colored, sans-serif font. Above the logo, there is a smaller rectangular box, and below it, the text "S0-Bus" is centered. Below the text, there is another smaller rectangular box. The entire diagram is enclosed in a larger rectangular border with vertical lines extending from the top and bottom edges.

S0-Bus



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