

SENTRON, measuring device, 7KT PAC1600, LCD, L-L: 400 V, L-N: 230 V, 80 A, strd rail instr., 3-phase, S0, apparent/active /reactive energy, self-powered, screw terminals



| Model | |
|---|-------------------------|
| Product brand name | SENTRON |
| Design of the product | basic |
| Product type designation | Measuring instrument |
| Type of measured value detection | complete |
| General technical data | |
| 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 | 30 ms |
| • Full-scale value | 30 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 | 2.7 W |
| Protection class | |
| Protection class IP | |
| <ul style="list-style-type: none"> • on the front | IP40 |
| <ul style="list-style-type: none"> • Rear side | IP20 |
| Electricity | |
| Measurable current / 2 / at AC / Rated value | 80 A |
| Suitability | |
| Suitability for operation | Standard mounting rail device |
| Product function | |
| Product function | |
| <ul style="list-style-type: none"> • reactive power measurement | Yes |
| <ul style="list-style-type: none"> • frequency measurement | Yes |
| <ul style="list-style-type: none"> • voltage measurement | Yes |
| <ul style="list-style-type: none"> • Current measurement | Yes |
| <ul style="list-style-type: none"> • active power measurement | Yes |
| Display and operation | |
| Design of the display | LCD |
| Number of keys | 3 |
| Inputs Outputs | |
| Input voltage / at digital input | |
| <ul style="list-style-type: none"> • initial value for signal<1>-recognition | 85 V |
| <ul style="list-style-type: none"> • at DC / maximum | 240 V |
| <ul style="list-style-type: none"> • Full-scale value for signal<0> recognition | 240 V |
| Number of digital outputs | 2 |
| Number of digital inputs | 1 |
| 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 | Yes |
| 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 | 187 V |
| <ul style="list-style-type: none"> • between (PE)N and L / at AC / maximum | 264 V |
| <ul style="list-style-type: none"> • between (PE)N and L / at AC / maximum rated value | 230 V |
| <ul style="list-style-type: none"> • between the outer conductors / at AC / maximum rated value | 400 V |
| Measuring category / for voltage measurement | CATIII |
| Continuous current / at AC / maximum permissible | 80 A |
| Measuring category / for current measurement | CATIII |
| Relative measurable current / at AC | |
| <ul style="list-style-type: none"> • minimum | 0.6 % |
| <ul style="list-style-type: none"> • maximum | 100 % |
| Apparent power consumption / for current measurement | |
| <ul style="list-style-type: none"> • with measuring range 5 A / per phase | 2.5 V·A |
| Measuring procedure / for current measurement | TRMS |
| Measurable current / 1 / at AC / Rated value | 80 A |

Connections

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

Mechanical Design

| | |
|--------------------------------|---------|
| Height | 90 mm |
| Width | 71.6 mm |
| Depth | 63 mm |
| Mounting position | any |
| Mounting type / panel mounting | No |
| Net weight | 381 g |

Environmental conditions

| | |
|--|---------|
| Degree of pollution | 2 |
| Installation altitude / at height above sea level / maximum | 2 000 m |
| Relative humidity / at 25 °C / without condensation / during operation | |
| <ul style="list-style-type: none"> • maximum | 80 % |
| Ambient temperature | |
| <ul style="list-style-type: none"> • during operation / minimum | -25 °C |
| <ul style="list-style-type: none"> • during operation / maximum | 55 °C |
| <ul style="list-style-type: none"> • during storage / minimum | -25 °C |
| <ul style="list-style-type: none"> • during storage / maximum | 70 °C |

Certificates

Certificate of suitability

- Approval Russia

Yes

Declaration of Conformity



EG-Konf.

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=7KT1670>

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

<https://support.industry.siemens.com/cs/ww/en/ps/7KT1670>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7KT1670

CAX-Online-Generator

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

Tender specifications

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



