

SENTRON, measuring device, 7KT PAC1600, LCD, L-L: 400 V, L-N: 230 V, 5 A, strd rail instr., 3-phase, M-Bus + MID, 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 | 4MW |
| Operating mode for measured value detection | |
| <ul style="list-style-type: none"> • automatic line frequency detection • set at 50 Hz • set to 60 Hz | <p>Yes</p> <p>No</p> <p>No</p> |
| 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 | |
| <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 | 5 A |
| <ul style="list-style-type: none"> 2 / at AC / Rated value | 5 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 | 3 |
| Communication | |
| Protocol | |
| <ul style="list-style-type: none"> is supported | M-bus + MID |
| Transfer rate | |
| <ul style="list-style-type: none"> minimum | 300 kbit/s |
| <ul style="list-style-type: none"> maximum | 38 400 kbit/s |
| Fault limits | |
| Reference condition / for metering accuracy | Acc. to IEC62053-21 and IEC62053-23 |
| 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 | 0 |
| 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 |

| | |
|---|-----|
| Operating conditions for digital inputs / external voltage supply | Yes |
|---|-----|

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 | 6 A |
| Measuring category / for current measurement | CATIII |
| Zero-point suppression / for current measurement | 10 mA |
| Relative measurable current / at AC | |
| <ul style="list-style-type: none"> • minimum | 1 % |
| <ul style="list-style-type: none"> • maximum | 120 % |
| <ul style="list-style-type: none"> • apparent power consumption / for current measurement / with measuring range 5 A / per phase | 3 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 | 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 type / panel mounting | No |
| mounting position | any |
| net weight | 280 g |

Environmental conditions

| | |
|--|---------|
| 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 / during operation | |
| <ul style="list-style-type: none"> • minimum | -25 °C |
| <ul style="list-style-type: none"> • maximum | 55 °C |
| Ambient temperature / during storage | |

- minimum
- maximum

-25 °C

70 °C

Certificates

- Certificate of suitability / Approval Russia Yes

General Product Approval

Declaration of Conformity



IMQ



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=7KT1664>

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

<https://support.industry.siemens.com/cs/ww/en/ps/7KT1664>

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

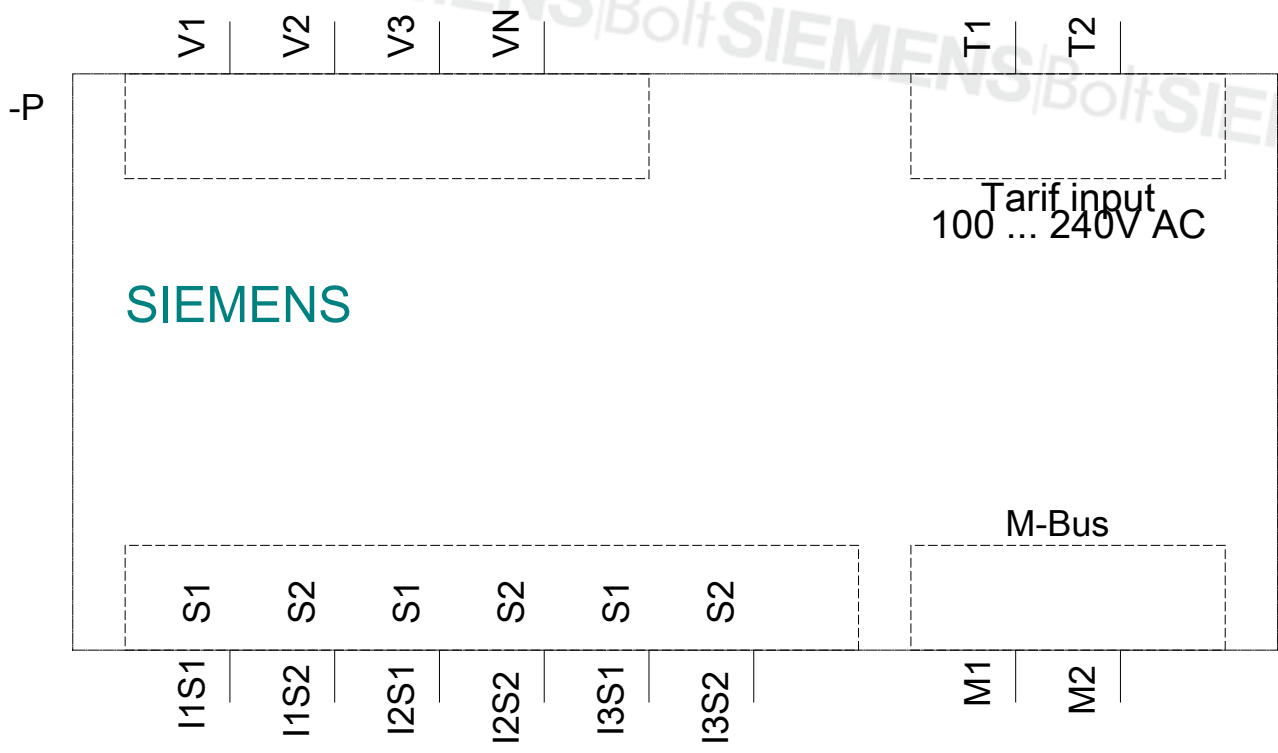
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7KT1664

CAX-Online-Generator

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

Tender specifications

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



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