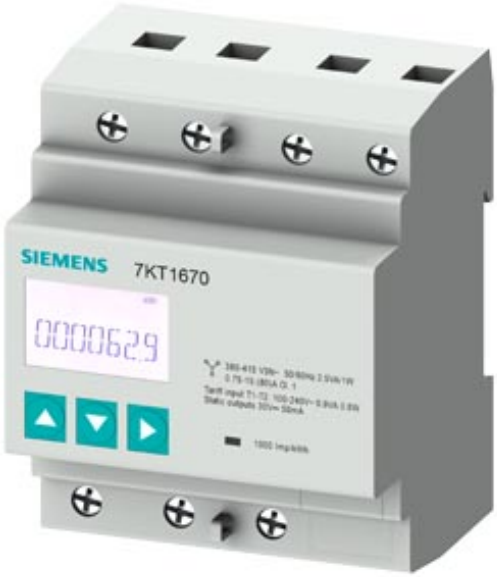
SIEMENS

Data sheet 7KT1671

SENTRON, measuring device, 7KT PAC1600, LCD, L-L: 400 V, L-N: 230 V, 80 A, strd rail instr., 3-phase, S0 + 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	
• 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	
• without expansion module / typical	1 W
Protection class	
• protection class IP / on the front	IP40
• Protection class IP / Rear side	IP20
Current	
Measurable current	
• 1 / at AC / Rated value	80 A
• 2 / at AC / Rated value	80 A
Suitability	
Suitability for operation	Standard mounting rail device
Product function	
• product function / reactive power measurement	Yes
• product function / frequency measurement	Yes
• product function / voltage measurement	Yes
• product function / current measurement	Yes
• product function / active power measurement	Yes
Display and operation	
design of the display	LCD
number of keys	3
Communication	
Protocol	
• is supported	S0 + MID
Fault limits	
Reference condition / for metering accuracy	Acc. to IEC62053-21 and IEC62053-23
Inputs Outputs	
Input voltage / at digital input	
• initial value for signal<1>-recognition	85 V
• at DC / maximum	240 V
• Full-scale value for signal<0> recognition	240 V
number of digital outputs	2
number of digital inputs	1
Digital output version	Static
Type of switching output	solid state
Type of electrical connection	
• at the digital outputs	screw-type terminals

Output current	
• at digital output / for signal <1> / maximum	50 mA
• 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	
• between (PE)N and L / at AC / minimum	187 V
• between (PE)N and L / at AC / maximum	264 V
• between (PE)N and L / at AC / maximum rated value	230 V
• 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
Zero-point suppression / for current measurement	60 mA
Relative measurable current / at AC	
• minimum	0.9 %
• maximum	100 %
• apparent power consumption / for current measurement / with measuring range 5 A / per phase	2.5 V·A
Measuring procedure / for current measurement	TRMS

Connections

Type of electrical connection	
• at the measurement inputs for voltage	screw-type terminals
• 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	381 g

Environmental conditions

Installation altitude / at height above sea level / maximum	2 000 m
Standard	

• for pulse emitter	Standard / For Pulse Emitter
Relative humidity / at 25 °C / without condensation / during operation	
• maximum	80 %
Ambient temperature / during operation	
• minimum	-25 °C
• maximum	55 °C
Ambient temperature / during storage	
• minimum	-25 °C
• maximum	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=7KT1671

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/7KT1671

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7KT1671

CAx-Online-Generator
http://www.siemens.com/cax

Tender specifications
http://www.siemens.com/specifications