SIEMENS

Data sheet 7KT1668

SENTRON, measuring instrument, 7KT PAC1600, LCD, L-L: 400 V, L-N: 230 V, 80 A, standard mounting rail device, 3-phase, M-bus + MID, apparent / active / reactive energy, self-supplied, screw terminal



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	
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	

1 W

Consumed active power

• without expansion module / typical

Protection class	
Protection class IP	
• on the front	IP40
• 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	
 reactive power measurement 	Yes
 frequency measurement 	Yes
 voltage measurement 	Yes
Current measurement	Yes
 active power measurement 	Yes
Display and operation	
Design of the display	LCD
Number of keys	3
Communication Transfer rate	
	300 kbit/s
minimum maximum	38 400 kbit/s
■ maximum	30 400 KDIVS
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	0
Number of digital inputs	1
Type of switching output	solid state
Type of electrical connection	
at the digital outputs	screw-type terminals
Operating conditions for digital inputs / external voltage supply	Yes
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	230 V
value	

 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	
• 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
Measurable current / 1 / at AC / Rated value	80 A
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 position	any
Mounting type / panel mounting	No
Net weight	381 g
Environmental conditions	
Degree of pollution	2
Installation altitude / at height above sea level /	2 000 m
maximum	
Relative humidity / at 25 °C / without condensation /	
during operation	
• maximum	80 %

maximum	
Relative humidity / at 25 °C / without condensation /	
during operation	
• maximum	80 %
Ambient temperature	
during operation / minimum	-25 °C
during operation / maximum	55 °C
during storage / minimum	-25 °C
during storage / maximum	70 °C

Certificates	
Certificate of suitability	
Approval Russia	Yes





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=7KT1668

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

https://support.industry.siemens.com/cs/ww/en/ps/7KT1668

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7KT1668

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications