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Data sheet 7KT1682



SENTRON, measuring device, 7KT PAC1600, LCD, L-L: 400 V, L-N: 230 V, 5 A, strd rail instr., 3-phase, Modbus RTU/ASCII, power monitoring incl. THD, AC/DC, screw terminals

Model	
product brand name	SENTRON
product designation	multimeter
design of the product	basic
product type designation	7KT PAC1600
Measurements	
measuring procedure	
● for voltage measurement	TRMS
● for current measurement	TRMS
type of measured value detection	complete
voltage curve	Sinusoidal or distorted
measurable line frequency	
● initial value	45 Hz
● full-scale value	66 Hz
operating mode for measured value detection automatic line frequency detection	Yes
operating mode for measured value detection	
● set at 50 Hz	No
● set to 60 Hz	No
Supply voltage	
design of the power supply	Wide-range power supply
type of voltage of the supply voltage	AC/DC
supply voltage at AC	100 ... 240 V
supply voltage at DC	110 ... 250 V
Degree of protection protection class	
protection class IP on the front	IP40
Suitability	
suitability for operation	Standard mounting rail device
Product Functions	
product function	
● voltage measurement	Yes
● current measurement	Yes
● active power measurement	Yes
● reactive power measurement	Yes
● frequency measurement	Yes
Display and operation	
design of the display	LCD
number of keys	4
Communication	

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transfer rate minimum	1 200 kbit/s
transfer rate maximum	115 200 kbit/s
Fault limits	
reference condition for metering accuracy	Acc. to IEC62053-21 and IEC62053-23
Inputs Outputs	
number of digital inputs	0
operating conditions for digital inputs external voltage supply	No
number of digital outputs	0
type of switching output	solid state
type of electrical connection at the digital outputs	screw-type terminals
Measuring inputs	
measurable supply voltage between (PE)N and L at AC maximum rated value	230 V
measurable supply voltage between (PE)N and L at AC	
● minimum	50 V
● maximum	415 V
measurable supply voltage between the line conductors at AC maximum rated value	400 V
voltage measuring range extension with external voltage transformers	yes
measuring category for voltage measurement	CAT III
measurable current	
● 1 at AC rated value	5 A
● 2 at AC rated value	5 A
relative measurable current at AC	
● minimum	0.5 %
● maximum	120 %
current measuring range extension with external current transformers	Yes
zero point suppression for current measurement	25 mA
apparent power consumption for current measurement	
● with measuring range 5 A per phase	2.2 V·A
measuring category for current measurement	CATIII
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	
fastening method DIN-rail mounting	Yes
size of Power Monitoring Device	4MW
height	90 mm
width	72 mm
depth	63 mm
mounting position	any
Environmental conditions	
ambient temperature during operation	
● minimum	-20 °C
● maximum	60 °C
ambient temperature during storage	
● minimum	-30 °C
● maximum	80 °C
relative humidity at 25 °C without condensation during operation maximum	80 %
installation altitude at height above sea level maximum	2 000 m
degree of pollution	2
Certificates	
certificate of suitability as EC Declaration of Conformity	yes
Approvals Certificates	
General Product Approval	**other**

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Confirmation

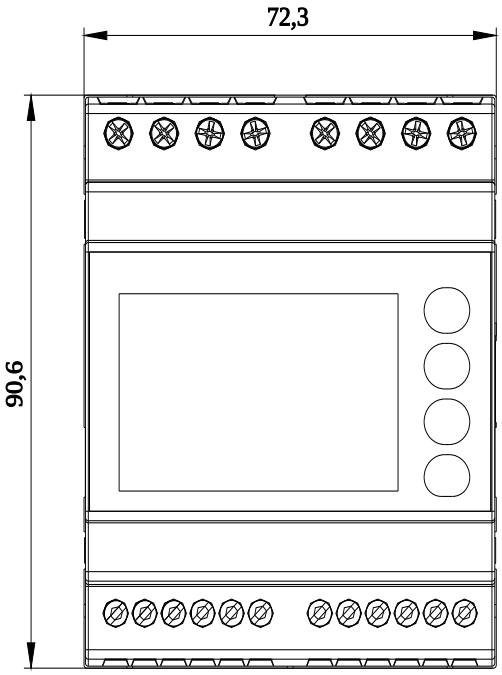
Confirmation

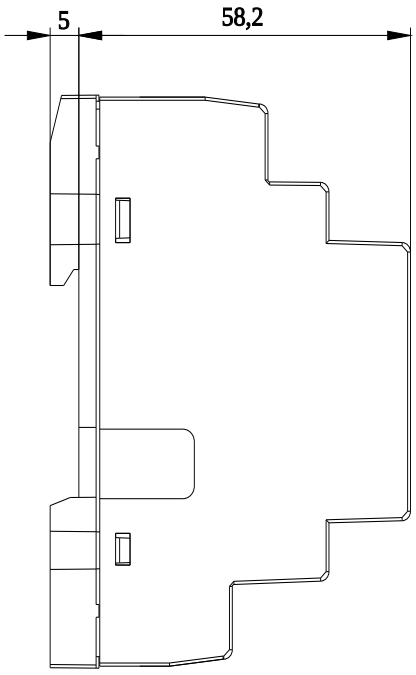
Environment

Environmental Confirmations

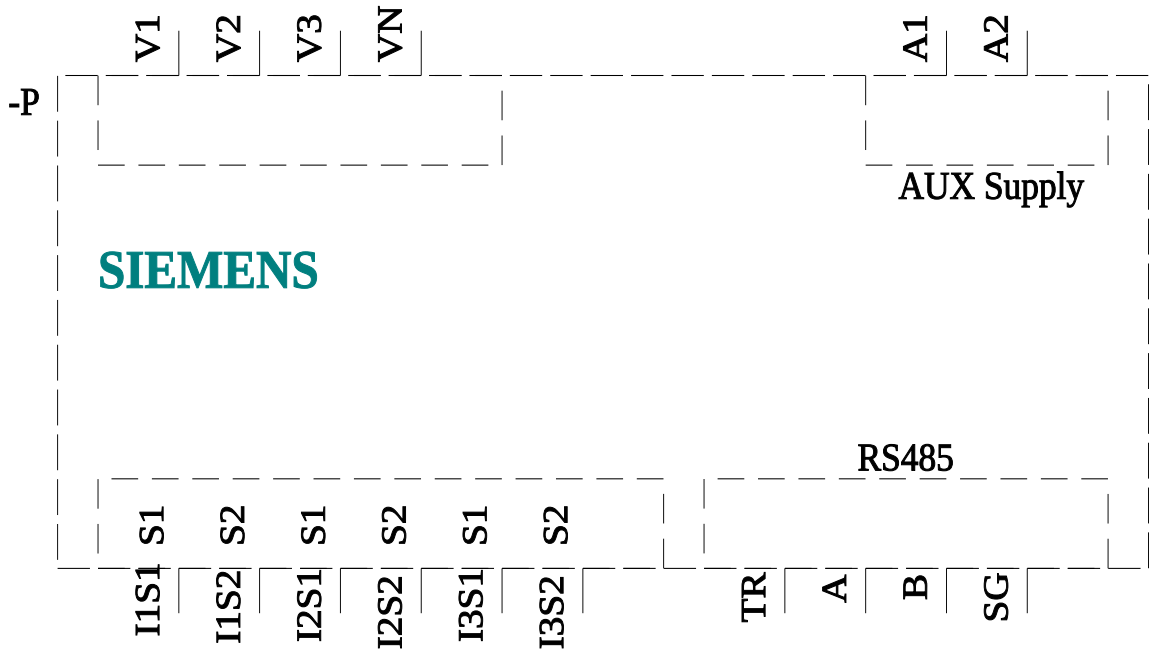
Further information

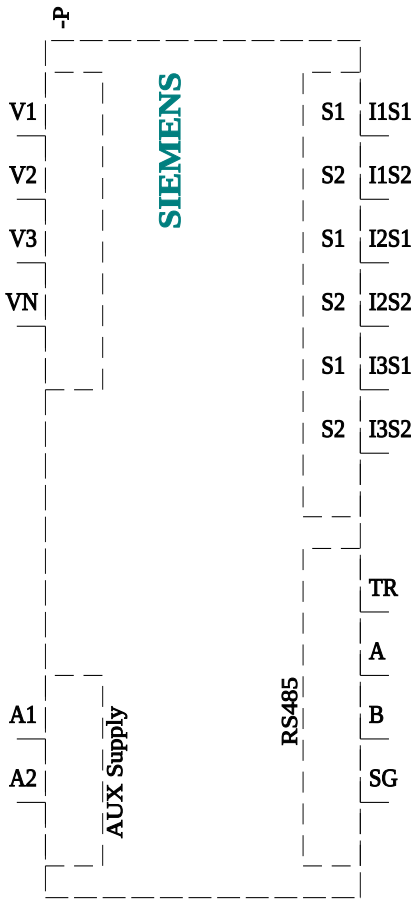
Information on the packaging
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