Data sheet

7KM2112-0BA00-3AA0



SENTRON, measuring device, 7KM PAC3200, LCD, L-L: 690 V, L-N: 400 V, 5 A, 3-phase, Modbus TCP, optional Modbus RTU / PROFINET / PROFIBUS, apparent/ active/reactive energy, class 0.5 acc. to IEC61557-12 or class 0.5 acc. to IEC62053-22, wide-range pwr sup. unit AC/DC, screw terminals

Model					
product brand name	SENTRON				
product designation	7KM PAC3200				
design of the product	basic				
product type designation	Measuring instrument				
Measurements					
measuring procedure					
 for voltage measurement 	RMS				
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	65 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				
Degree of protection protection class					
protection class IP on the front	IP65				
operating resource protection class when installed	safety class II				
Suitability					
suitability for operation	Installation in stationary control panels in closed rooms				
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				
height of the display	54 mm				

width of the display	72 mm			
color of the background of the display	white			
national language on the display screen is supported	ger, en, fr, spa, ita, por, tur, chi			
number of keys	4			
Communication				
number of interfaces acc. to Fast Ethernet	1			
type of electrical connection of the fast Ethernet interface	RJ45 (8P8C)			
protocol at the Ethernet interface is supported	MODBUS TCP			
Fault limits				
reference condition for metering accuracy	Acc. to IEC62053-22 and IEC62053-23			
formula for relative total measurement inaccuracy				
 for measured variable voltage 	+/- 0,3 %			
 for measured variable current 	+/- 0,2 %			
 for measured variable output factor 	+/- 0,5 %			
 for measured variable active energy 	Cl. 0.5 acc. to IEC62053-22			
 for measured variable reactive energy 	Class 2 according to IEC61557-12 and/or IEC62053-23			
Inputs Outputs				
number of digital inputs	1			
number of digital outputs	1			
digital output version	switching or pulse output function			
operating voltage as output voltage at DC maximum	30 V			
permissible				
output current				
 at digital output with signal <0> maximum 	0.2 mA			
at digital output for signal <1> maximum	27 mA			
internal resistance at the digital outputs	55 Ω			
standard for pulse emitter	according to IEC62053-31			
pulse duration				
• initial value	30 ms			
full-scale value	500 ms			
adjustable time period minimum	10 ms			
switching frequency at digital output maximum	17 Hz			
property of the output short-circuit proof	Yes			
measuring category for digital signals	CATII			
Measuring inputs				
measurable supply voltage between (PE)N and L at AC maximum rated value	400 V			
measurable supply voltage between (PE)N and L at AC				
• minimum	40 V			
maximum	480 V			
measurable supply voltage between the line conductors at AC maximum rated value	690 V			
measurable supply voltage between the line conductors at AC				
• minimum	70 V			
maximum	831 V			
voltage measuring range extension with external voltage transformers	yes			
line conductors and neutral conductors internal resistance for voltage measurement	1.05 ΜΩ			
measuring category for voltage measurement	CATIII			
measurable current				
1 at AC rated value	1 A			
2 at AC rated value	5 A			
relative measurable current at AC				
• minimum	1 %			
maximum	120 %			
current measuring range extension with external current transformers	yes			

zero point suppression for current measuren	nent	0,1	10 %				
measuring category for current measuremen		CATII	CATIII				
Connections							
type of connectable conductor cross-section	s						
at the measurement inputs for voltage solid			1x (0.5 4 mm²), 2x (0.5 2.5 mm²)				
 at the measurement inputs for voltage stranded with core end processing 	finely	1x (0.	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)				
 at the measurement inputs for voltage cables solid 	at AWG	2x 20 to 14					
 at the measurement inputs for current 	solid	1x (0.5 4 mm²), 2x (0.5 2.5 mm²)					
 at the measurement inputs for current stranded with core end processing 	finely	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)					
at the measurement inputs for current cables solid	at AWG	2x 20 to 14					
type of electrical connection							
at the measurement inputs for voltage		screw-type terminals					
Mechanical Design							
size of Power Monitoring Device		size 96					
height		96 mr	96 mm				
width		96 mr	96 mm				
depth		56 mr	56 mm				
installation depth	installation depth			51 mm			
net weight			451 g				
mounting position	mounting position vo			vertical			
Environmental conditions							
ambient temperature during operation							
• minimum		-10 °C					
• maximum		55 °C	55 °C				
ambient temperature during storage							
• minimum		-25 °C	-25 °C				
maximum		70 °C	70 °C				
relative humidity at 25 °C without condensati operation maximum	on during	95 %	95 %				
installation altitude at height above sea level	maximum	2 000 m					
Certificates							
certificate of suitability as EC Declaration of Conformity		IEC 61010-1: 2001 (2nd Ed.) with Corr. 1, EN 61010-1: 2001 (2nd Ed.) and DIN EN 61010-1:2002 with "Berichtigung 1"					
reference code acc. to DIN EN 61346-2			P				
General Product Approval	EMC		Declaration of Conformity	Test Certificates	other		









Type Test Certificates/Test Report

Miscellaneous

other

Confirmation

Information- and Downloadcenter (catalogues, leaflets,...) http://www.siemens.com/energy-automation

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=7KM2112-0BA00-3AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/7KM2112-0BA00-3AA0

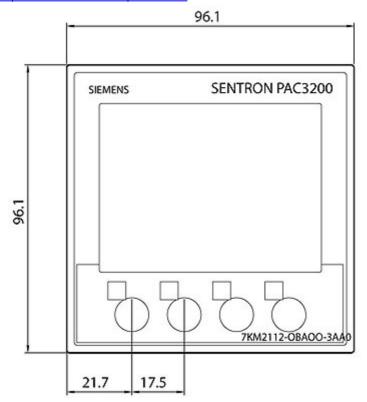
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax en.aspx?mlfb=7KM2112-0BA00-3AA0

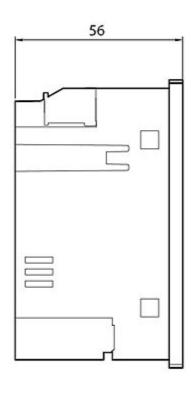
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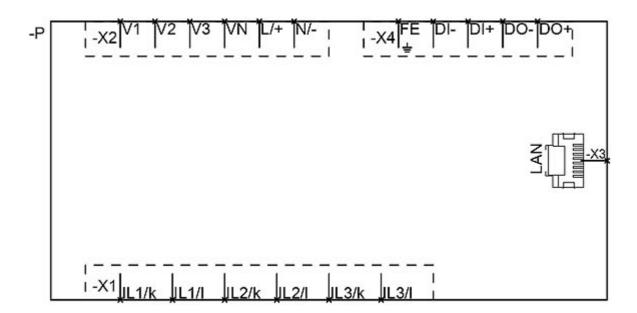
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Tender specifications

http://www.siemens.com/specifications







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