Data sheet

7KM3220-0BA01-1DA0



SENTRON PAC3220 LCD 96X96 mm Power Monitoring Device Controll panel instrument for electrical values protocol: Modbus TCP with graphics display U rated input: 690/400V 45-65Hz IE rated input: X/1A oder X/5A AC Power supply: 100 ... 250 V +-10 % AC/DC screw connections

Model			
product brand name	SENTRON		
product designation	7KM PAC3220		
design of the product	basic		
product type designation	Measuring instrument		
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	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		
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		
illuminance of display backlight adjustable	No		

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time-controlled reduction of the illuminance of display	Yes			
backlight possible				
display contrast adjustable	Yes			
national language on the display screen is supported	de, en, fr, spa, ita, por, tur, chi, pol			
number of keys	4			
Communication				
number of interfaces acc. to Fast Ethernet	2			
type of electrical connection of the fast Ethernet interface	2 x RJ45			
protocol at the Ethernet interface is supported	MODBUS TCP			
Fault limits				
reference condition for metering accuracy	In accordance with IEC61557-12, IEC62053-22 and IEC62053-23			
formula for relative total measurement inaccuracy				
 for measured variable voltage 	+/- 0,2 %			
 for measured variable current 	+/- 0,2 %			
 for measured variable active power 	+/- 0.5 %			
 for measured variable reactive power 	+/- 1 %			
 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	2			
type of electrical connection at the digital inputs	screw-type terminals			
operating conditions for digital inputs external voltage	Yes			
supply	100			
input voltage at digital input at DC maximum	30 V			
input current at digital input				
initial value for signal<1>-recognition	7 mA			
number of digital outputs	2			
type of switching output	bidirectional			
digital output version	switching or pulse output function			
operating voltage as output voltage at DC maximum	30 V			
permissible				
type of electrical connection at the digital outputs	screw-type terminals			
output current				
 at the digital outputs at DC limited to 100 ms 	130 mA			
maximum				
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 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	11.5 V			
• maximum	480 V			
measurable supply voltage between the line conductors at AC maximum rated value	690 V			
voltage measuring range extension with external voltage transformers	yes			
line conductors and neutral conductors internal resistance for voltage measurement	1.5 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	100 %						
current measuring range extension with external current transformers	yes						
zero point suppression for current measurement	0 10 %						
measuring category for current measurement	CATIII						
Connections							
type of electrical connection							
 at the measurement inputs for voltage 	screv	screw-type terminals					
 at the measurement inputs for current 	screw-type terminals						
Mechanical Design							
fastening method standard rail mounting	No						
size of Power Monitoring Device	size 96						
height	96 mm						
width	96 mm						
depth	56 mm						
installation depth	51 mm						
net weight	325 g						
mounting position	vertical						
Environmental conditions							
ambient temperature during operation							
• minimum	-25 °C						
maximum	55 °C						
ambient temperature during storage							
• minimum	-25 °C						
maximum	70 °C						
relative humidity at 25 °C without condensation during operation maximum	75 %						
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						
General Product Approval		EMC	Declaration of Conformity	other			



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Miscellaneous

other

<u>Miscellaneous</u> <u>PROFINET-Certification</u>

Further information

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=7KM3220-0BA01-1DA0

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

https://support.industry.siemens.com/cs/ww/en/ps/7KM3220-0BA01-1DA0

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7KM3220-0BA01-1DA0

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







