SIEMENS

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		

time controlled reduction of the illuminance of display	Vac		
time-controlled reduction of the illuminance of display backlight possible	Yes		
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 according 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			
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 permissible	30 V		
type of electrical connection at the digital outputs	screw-type terminals		
output current			
 at the digital outputs at DC limited to 100 ms maximum 	130 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 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	690 V		
AC maximum rated value			
voltage measuring range extension with external voltage transformers	yes		
line conductors and neutral conductors internal resistance for voltage measurement	1.5 MΩ		
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			

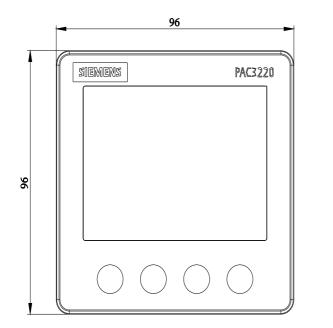
e minimum			1 0/			
minimummaximum			1 % 100 %			
current measuring ra	nge extension with external curre	ent	yes			
transformers			0 40.0/			
	on for current measurement		0 10 %			
	for current measurement		CATIII			
Connections						
type of electrical con						
	ement inputs for voltage		screw-type terminals			
 at the measure 	ement inputs for current		screw-type terminals			
Mechanical Design						
fastening method sta	indard rail mounting		No			
size of Power Monito	ring Device		size 96			
height			96 mm			
width			96 mm			
depth			56 mm			
installation depth			51 mm			
net weight			325 g			
mounting position			vertical			
Environmental condi	tions					
ambient temperature						
minimum			-25 °C			
maximum			55 °C			
ambient temperature	during storage		55 6			
minimum	during storage		-25 °C			
maximum			70 °C			
	5 °C without condensation during	~	75 %			
operation maximum	5 °C without condensation during	y	13 %			
	t height above sea level maximu	m	2 000 m			
degree of pollution			2			
Certificates			-			
	ty as EC Declaration of Conformi	ity	yes			
		ity	yes		Declaration of	
General Product A	pproval			EMC	Conformity	
Confirmation	(h)	<u>KC</u>	EHC		<u>UK Declaration of</u> <u>Conformity</u>	
Declaration of Conformity	other					
CC Miscellaneous Miscellaneous PROFINET-Certific- ation						
EG-Konf.						
Further information						
	Information- and Downloadcenter (catalogues, leaflets,) http://www.siemens.com/energy-automation					
Industry Mall (Onlin	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,)						

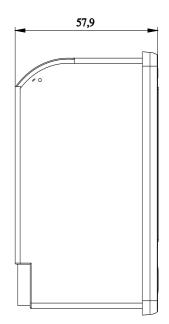
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/7KM3220-0BA01-1DA0

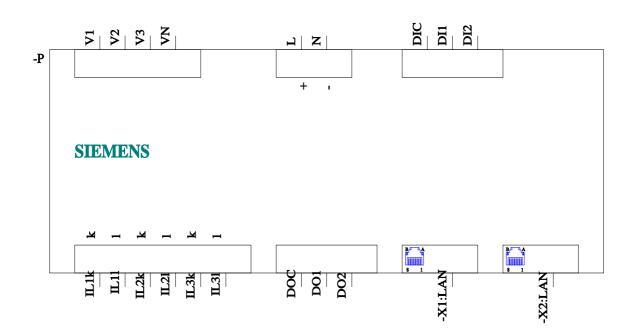
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7KM3220-0BA01-1DA0

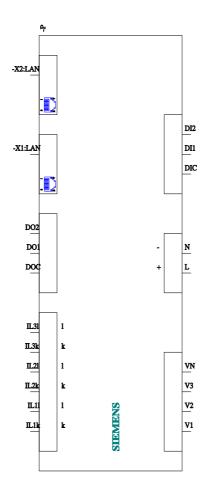
http://www.siemens.com/cax **Tender specifications**

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