SIEMENS

Data sheet

7KM3120-0BA01-1DA0



SENTRON PAC3120 LCD 96X96 mm Power Monitoring Device Controll panel instrument for electrical values protocol: Modbus RTU 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

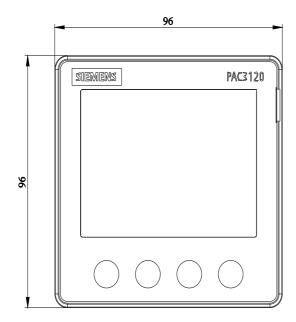
Model			
product brand name	SENTRON		
product designation	multimeter		
design of the product	basic		
product type designation	7KM PAC3120		
Measurements			
measuring procedure			
 for voltage measurement 	TRMS		
 for current measurement 	TRMS		
type of measured value detection	complete		
voltage curve	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		
supply voltage at AC	100 250 V		
supply voltage at DC	100 250 V		
Degree of protection protection class			
protection class IP on the front	IP65		
Suitability			
suitability for operation	Installation in stationary 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		

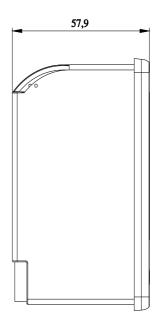
illuminance of display backlight adjustable	No		
illuminance of display backlight adjustable time-controlled reduction of the illuminance of display backlight	Yes		
possible	res		
display contrast adjustable	Yes		
national language on the display screen is supported	de, en, fr, spa, ita, por, tur, chi, pol		
number of keys	4		
Communication			
transfer rate minimum	4.8 kbit/s		
transfer rate maximum	115.2 kbit/s		
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 supply	Yes		
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	400 V		
maximum rated value			
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	CAT III		
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	Yes		
transformers			

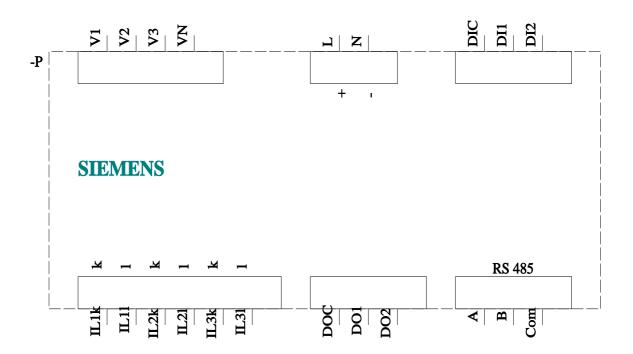
Environmental Con-	Environmental Con- firmations					
Environment						
	(h)	<u>Miscellaneou</u>	<u>2L</u>	<u>Confirmation</u>	EPD	Siemens EcoTech
EMV	Test Certificates	other			Environment	
ČÂ	EG-Konf.			cULus		tHL
UK	((Confirmation	n		KC	rnr
Approvals Certificates General Product App	roval		-	_	_	_
	certificate of suitability as EC Declaration of Conformity					
Certificates						
degree of pollution			2			
	installation altitude at height above sea level maximum		2 000 m			
relative humidity at 25 ° maximum	°C without condensation	during operation	75 %			
maximum			70 °C			
• minimum			-25 °C			
ambient temperature d	uring storage					
 maximum 			55 °C			
 minimum 			-25 °C			
ambient temperature d	uring operation					
Environmental condition	ons					
mounting position			vertical			
net weight			325 g			
installation depth			51 mm			
depth			56 mm			
width			96 mm			
height			96 mm			
size of Power Monitorir			size 96			
fastening method stand	dard rail mounting		No			
Mechanical Design			Solew typ	e terminais		
	 at the measurement inputs for voltage at the measurement inputs for current 		screw-type terminals screw-type terminals			
type of electrical conne			screw typ	e terminals		
	otion		_			
measuring category for Connections	current measurement		CATIII	_		
	ange 5 A per phase		0.3 VA			
			0.01/1			
apparent power consur	mption for current measu	rement				

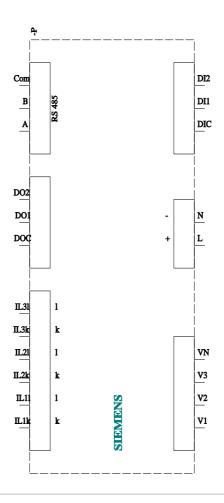
urther information	
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875	
Information- and Downloadcenter (catalogues, leaflets,) http://www.siemens.com/energy-automation	
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=7KM3120-0BA01-1DA0	
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/7KM3120-0BA01-1DA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagra	ams,)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7KM3120-0BA01-1DA0 CAx-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications









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