7KM3120-0BA01-1DA0

Data sheet



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				
	SENTRON			
product brand name product designation	7KM PAC3120			
design of the product	basic			
product type designation	Measuring instrument			
	weasuring instrument			
Measurements				
measuring procedure	TRUG			
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			
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			

illuminana of diaplay baqliinki adiyatabla	Ne			
illuminance of display backlight adjustable	No V			
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			
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	White the state of			
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 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 %			

continuous current at AC maximum permissible	10 A					
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 	screw-type terminals					
 at the measurement inputs for current 	screw-type terminals					
Mechanical Design						
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					
General Product Approval		EMC	Declaration of Conformity	other		



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Manufacturer **Declaration**

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=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 diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7KM3120-0BA01-1DA0

Tender specifications

http://www.siemens.com/specifications







