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	7KM PAC3120			
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	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			
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	30 V			
input voltage at digital input at DC maximum input current at digital input	30 V			
·	7 mA			
initial value for signal<1>-recognition number of digital outputs	7 IIIA 2			
number of digital outputs	bidirectional			
type of switching output digital output version				
operating voltage as output voltage at DC maximum	switching or pulse output function 30 V			
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 	130 mA			
maximum	55.0			
internal resistance at the digital outputs	55 Ω			
standard for pulse emitter	according to IEC62053-31			
pulse duration	20 mg			
initial valuefull-scale value	30 ms 500 ms			
adjustable time period minimum	10 ms			
	17 Hz			
switching frequency at digital output maximum	Yes			
	165			
Measuring inputs	400 V			
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	1.5 ΜΩ			
for voltage measurement	1.0 1/122			
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	CATI	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							
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

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

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







