SIEMENS

Data sheet

7KM3120-1BA01-1EA0



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: 24 ... 60 V -20/+10 % 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	Extra-low voltage power supply unit			
type of voltage of the supply voltage	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 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 	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	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
Confirmation KC	EAC		<u>UK Declaration of</u> <u>Conformity</u>
Declaration of Conformity other			
CE <u>Miscellaneous</u>			
EG-Konf.			
Further information			
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/produ		1EA0	

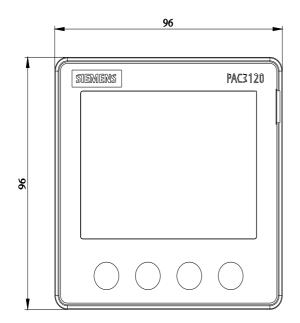
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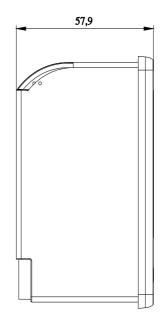
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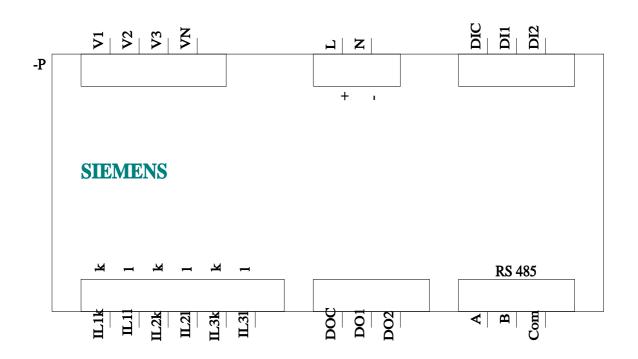
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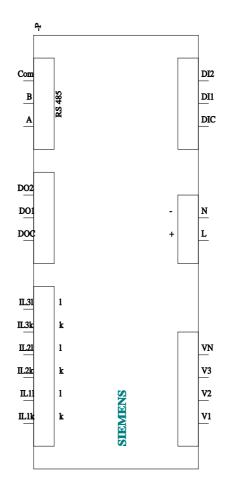
Tender specifications

http://www.siemens.com/specifications









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