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	multimeter	
design of the product	basic	
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	
supply voltage at DC	24 60 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	

time-controlled reduction of the illuminance of display	Yes
backlight possibledisplay 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	
	+/- 0.2 %
 for measured variable voltage for measured variable current 	+/- 0,2 %
 for measured variable current for measured variable active power 	+/- 0.5 %
for measured variable active power	+/- 1 %
 for measured variable reactive power for measured variable output factor 	+/- 0.5 %
 for measured variable output lactor for measured variable active energy 	Cl. 0.5 acc. to IEC62053-22
 for measured variable active energy for measured variable reactive energy 	Class 2 according to IEC61557-12 and/or IEC62053-23
Inputs Outputs	Sidas 2 according to 12001007-12 analor 12002000-20
	2
number of digital inputs	
type of electrical connection at the digital inputs	screw-type terminals Yes
operating conditions for digital inputs external voltage 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	400 V
maximum rated value	
measurable supply voltage between (PE)N and L at AC	11 5 V
• minimum	11.5 V
maximum measurable supply voltage between the line conductors at	480 V 690 V
measurable supply voltage between the line conductors at 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 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		
invironmental 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
General Product Approval		EMC	Declaration of Conformity
General Product Approval Confirmation KC	rnr	EMC	Conformity
	FAC	EMC	
	EAC	EMC EMC RCM	Conformity
	EAC	EMC RCM	Conformity
	EAC	EMC RCM	Conformity
Confirmation KC	EAC	EMC RCM	Conformity
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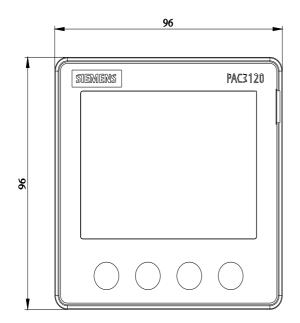
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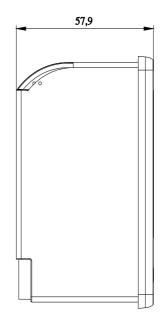
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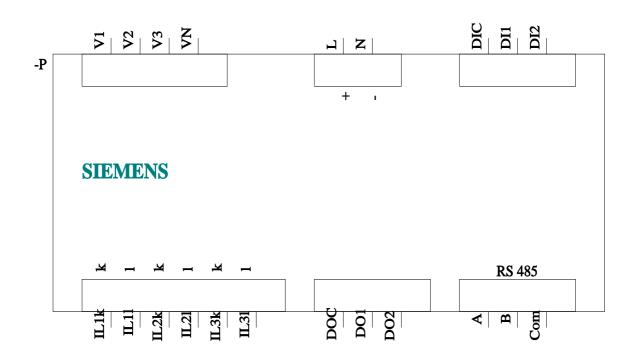
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Tender specifications

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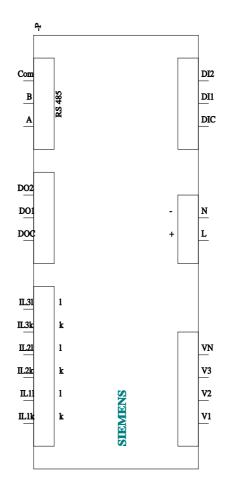






8/17/2022

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