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	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 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		
/lechanical 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		
nvironmental 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
		^	UK Declaration o
Confirmation KC	EHC	RCM	<u>Conformity</u>
Confirmation KC UL UL Declaration of Conformity other	EAC	RCM	<u>Conformity</u>
Declaration of other	EAC	RCM	Conformity
Declaration of Conformity other	EAC	RCM	Conformity
Declaration of Conformity other CCE Miscellaneous	EAC	RCM	Conformity
Declaration of Conformity other EG-Konf. Miscellaneous	EAC	RCM	Conformity
Declaration of Conformity other CCE Miscellaneous	EAC	RCM	Conformity
Declaration of Conformity other EG-Konf. Miscellaneous urther information Value	EAC	RCM	Conformity

https://support.industry.siemens.com/cs/ww/en/ps/7KM3120-0BA01-1DA0

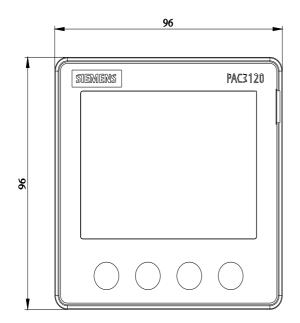
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7KM3120-0BA01-1DA0

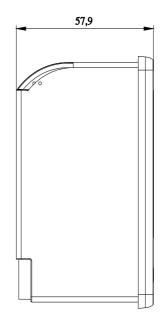
CAx-Online-Generator

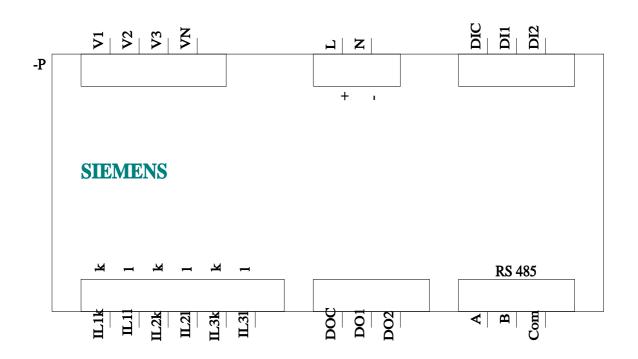
http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications

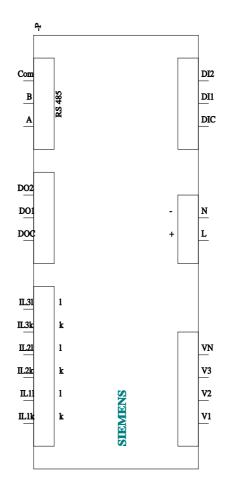






4/25/2022

Subject to change without notice © Copyright Siemens



Ø