## **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

SENTRON
multimeter
basic
7KM PAC3120
TRMS
TRMS
complete
Sinusoidal or distorted
45 Hz
65 Hz
Yes
No
No
Wide-range power supply
AC/DC
100 250 V
100 250 V
IP65
IP65
IP65 Installation in stationary panels in closed rooms
Installation in stationary panels in closed rooms
Installation in stationary panels in closed rooms  Yes
Installation in stationary panels in closed rooms  Yes Yes
Installation in stationary panels in closed rooms  Yes Yes Yes
Installation in stationary panels in closed rooms  Yes Yes Yes Yes
Installation in stationary panels in closed rooms  Yes Yes Yes Yes
Installation in stationary panels in closed rooms  Yes Yes Yes Yes Yes Yes
Installation in stationary panels in closed rooms  Yes Yes Yes Yes Yes Yes Yes

illuminance of display backlight adjustable	No
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
Communication	
transfer rate minimum	4.8 kbit/s
transfer rate maximum	115.2 kbit/s
Fault limits	
reference condition for metering accuracy	In accordance with IEC61557-12, IEC62053-22 and IEC62053-23
formula for relative total measurement inaccuracy	
<ul> <li>for measured variable voltage</li> </ul>	+/- 0.2 %
<ul> <li>for measured variable current</li> </ul>	+/- 0.2 %
<ul> <li>for measured variable active power</li> </ul>	+/- 0.5 %
<ul> <li>for measured variable reactive power</li> </ul>	+/- 1 %
<ul> <li>for measured variable output factor</li> </ul>	+/- 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	Sciew-type terminals
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	according to 12-002000-01
initial value	30 ms
full-scale value	500 ms
	10 ms
adjustable time period minimum	
switching frequency at digital output maximum	17 Hz
property of the output short-circuit proof	Yes
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 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	CAT III
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	Yes
transformers	

zero point suppression for current measurement	0 10 %
apparent power consumption for current measurement	
<ul> <li>with measuring range 5 A per phase</li> </ul>	0.3 VA
measuring category for current measurement	CATIII
Connections	
type of electrical connection	
<ul> <li>at the measurement inputs for voltage</li> </ul>	screw-type terminals
<ul> <li>at the measurement inputs for current</li> </ul>	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 $^{\circ}\text{C}$ 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
Approvals Certificates	

**General Product Approval** 





Confirmation



<u>KC</u>



EMV Test Certificates other Environment





Miscellaneous

Confirmation



Environmental Confirmations

## Environment

Environmental Confirmations

## Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (catalogues, leaflets,...)

http://www.siemens.com/energy-automation

Industry Mall (Online ordering system)

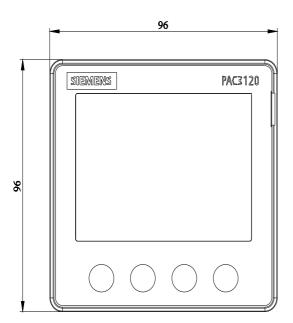
 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=7KM3120-0BA01-1DA0}$ 

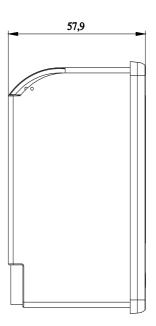
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/7KM3120-0BA01-1DA0

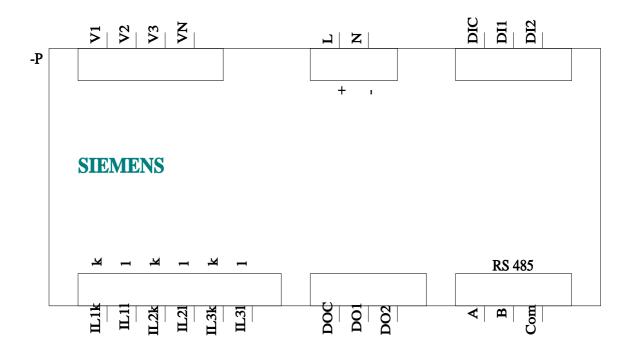
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

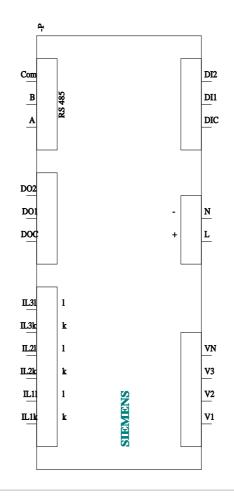
CAx-Online-Generator http://www.siemens.com/cax

Tender specifications http://www.siemens.com/specifications









last modified: 3/12/2024 🖸