MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

7KM2111-1BA00-3AA0

SENTRON PAC3200 POWER MONITORING DEVICE

Used with the applicable SENTRON PAC3200 configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens technical documentation for 7KM2111-1BA00-3AA0

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Data sheet 7KM2111-1BA00-3AA0



SENTRON PAC3200; LCD; 96X96MM POWER MONITORING DEVICE PANEL MOUNT TYPE FOR MEASUREMENT OF ELECTR. VALUES VAUX: 22-65VDC VIN: MAX. 500/289V; 45-65HZ AMPIN: X/1A OR X/5A AC COMPRESSION TYPE TERMINALS

Model		
product brand name		SENTRON
Product designation		multimeter
Design of the product		basic
Product type designation		PAC3200
Type of measured value detection		complete
Design of the power supply		Extra-low voltage power supply unit

General technical data		
Cutout width	mm	92
Cutout height	mm	92
Size of Power Monitoring Device / company-specific		size 96
Operating mode for measured value detection		
• automatic line frequency detection		Yes
• set at 50 Hz		No
• set to 60 Hz		No
Pulse duration		
• initial value	ms	30
• Full-scale value	ms	500

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Voltage curve		Sinusoidal or distorted
Measurable line frequency / initial value	Hz	45
Measurable line frequency / Full-scale value	Hz	65
Measuring procedure / for voltage measurement		RMS
MTBF	y	185.8
Equipment marking / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750		P

Voltage

Measurable current / 1 / at AC / Rated value	A	1
Measuring procedure / for current measurement		TRMS

Supply voltage

Supply voltage frequency / Rated value		
• minimum	Hz	45
• maximum	Hz	65
Type of voltage / of the supply voltage		DC
Measuring category / for supply voltage		CATIII
Apparent power consumption		
• with expansion module / maximum	V·A	8
• without expansion module / typical	V·A	6
Relative symmetrical tolerance / of the supply voltage	%	10

Protection class

Protection class IP		
• on the front		IP65
• Rear side		IP20
Operating resource protection class / when installed		II

Electricity

Short-time current resistance (Icw) / limited to 1 s / Rated value	A	100
Measurable current / 2 / at AC / Rated value	A	5

Suitability

Suitability for operation		Installation in stationary control panels in closed rooms
Adjustable time period / minimum	ms	10

Product function

Product function		
• reactive power measurement		Yes
• frequency measurement		Yes
• pulse measurement		Yes
• voltage measurement		Yes
• Current measurement		Yes
• active power measurement		Yes

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Display and operation		
Design of the display		LCD, graphical, monochrome
Number of keys		4
Color / of the background of the display		white
National language / on the display screen / is supported		ger, en, fr, spa, ita, por, tur, chi
Horizontal image resolution		128
Vertical screen resolution		96

Communication		
Refresh time / at the interface		
• minimum	s	0.33
• maximum	s	1
Design of cable / connectable / Twisted pair		Yes
Protocol		
• at the Ethernet interface / is supported		MODBUS TCP
• is supported		SEAbus TCP / MODBUS TCP (switchable)
Transfer rate		
• minimum	kbit/s	10 000
• maximum	kbit/s	10 000

Fault limits		
Reference condition / for metering accuracy		Acc. to IEC62053-22 and IEC62053-23
Formula for relative total measurement inaccuracy		
• for measured variable reactive energy		Class 2 according to IEC61557-12 and/or IEC62053-23
• for measured variable output		+/- 0,5 %
• for measured variable output factor		+/- 0,5 %
• for measured variable voltage		+/- 0,3 %
• for measured variable current		+/- 0,2 %
• for measured variable active energy		Cl. 0.5 acc. to... IEC62053-22

Inputs Outputs		
Input voltage / at digital input		
• initial value for signal<1>-recognition	V	13
• at DC / Rated value	V	24
• Full-scale value for signal<0> recognition	V	8
Number of digital outputs		1
Number of digital inputs		1
Digital output version		switching or pulse output function
Input current / at digital input		
• for signal <1>	mA	7
Output current		
• at digital output / with signal <0> / maximum	mA	0.2

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