SIEMENS

Data sheet 7KM2200-2EA30-1CA1

SENTRON PAC2200 DIN rail POWER MONITORING DEVICE SNAP ON MOUNTING UNIT for MEASUREMENT OF ELECTR. VALUES 1/5A M-Bus With display

Model	
Product brand name	SENTRON
Design of the product	basic
Product type designation	Measuring instrument
Type of measured value detection	complete

General technical data	
Operating mode for measured value detection	
• automatic line frequency detection	Yes
• set at 50 Hz	No
• set to 60 Hz	No
Voltage curve	Sinusoidal or distorted
Measurable line frequency / initial value	45 Hz
Measurable line frequency / Full-scale value	65 Hz
Measuring procedure / for voltage measurement	TRMS

Protection class	
Protection class IP	
• Rear side	IP20

Electricity

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Measurable current / 2 / at AC / Rated value	5 A

Suitability

Suitability for operation	Standard mounting rail device

Product function

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

Display and operation

Design of the display	LCD
Number of keys	4

Communication

Protocol	
• at the Ethernet interface / is supported	MODBUS TCP
• is supported	M-Bus
Transfer rate	
• 1 / for Ethernet	10 Mbit/s
• 2 / for Ethernet	100 Mbit/s

Inputs Outputs

Number of digital outputs	1
Number of digital inputs	1
Type of switching output	solid state
Type of electrical connection / at the digital outputs	screw-type terminals
Operating conditions for digital inputs / external voltage supply	Yes

Measuring inputs

Outer conductors and neutral conductors internal resistance / for voltage measurement	1 MΩ
Measurable supply voltage	
• between (PE)N and L / at AC / minimum	46 V
• between (PE)N and L / at AC / maximum	276 V
• between (PE)N and L / at AC / maximum rated value	230 V
• between the outer conductors / at AC / maximum rated value	400 V
Measuring category / for voltage measurement	CATIII
Supply voltage / between the outer conductors / at AC / maximum permissible	480 V
Continuous current / at AC / maximum permissible	10 A

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Current measuring range extension / with external current transformers	Yes
Measuring category / for current measurement	CATIII
Zero-point suppression / for current measurement	10 mA
• for neutral conductor current	45 mA
Relative measurable current / at AC	
• minimum	1 %
• maximum	120 %
Apparent power consumption / for current measurement	
• with measuring range 5 A / per phase	0.5 V·A
Measuring procedure / for current measurement	TRMS
Measurable current / 1 / at AC / Rated value	1 A
Short-time current resistance (Icw) / limited to 1 s / rated value	100 A

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

Height	90 mm
Width	108 mm
Depth	64 mm
Mounting position	vertical
Installation depth	70.8 mm
Mounting type / panel mounting	No

Certificates

Declaration of Conformity

Further information

Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=7KM2200-2EA30-1CA1

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/7KM2200-2EA30-1CA1

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7KM2200-2EA30-1CA1

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

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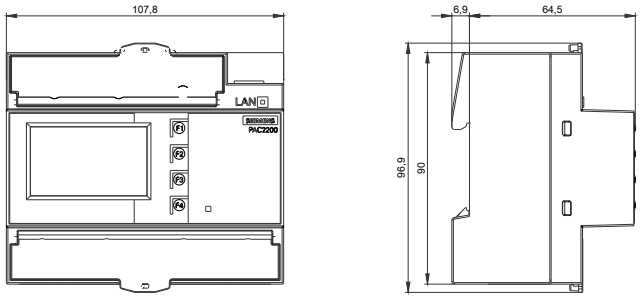
Tender specifications
http://www.siemens.com/specifications



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