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Data sheet 7KM2200-2EA30-1DA1

SENTRON, measuring device, 7KM PAC2200, LCD, L-L: 400 V, L-N: 230 V, 5 A, strd rail instr., 3-phase, Modbus RTU, apparent /active/reactive energy, self-powered, screw terminals

Model	
Product brand name	SENTRON
Product designation	7KM PAC2200
Design of the product	basic
Product type designation	Measuring instrument
Type of measured value detection	complete

General technical data	
Size of Power Monitoring Device / company-specific	6MW
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

Supply voltage	
Type of voltage / of the supply voltage	self-powered

Protection class	
Protection class IP	
• Rear side	IP20

Electricity	
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

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Design of the display	LCD
Number of keys	4

Communication	
Protocol	
• is supported	Modbus RTU

Fault limits	
Reference condition / for metering accuracy	In accordance with IEC61557-12, IEC62053-22 and IEC62053-23

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
Voltage measuring range extension / with external voltage transformers	No
Current measuring range extension / with external current transformers	Yes
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
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

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Measuring procedure / for current measurement	TRMS
Measurable current / 1 / at AC / Rated value	1 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)	any
Installation depth	70.8 mm
Mounting type / panel mounting	No

Certificates

Declaration of Conformity	other
CE EG-Konf.	Manufacturer Declaration

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=7KM2200-2EA30-1DA1

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/7KM2200-2EA30-1DA1

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=7KM2200-2EA30-1DA1

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

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

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