SIEMENS

Data sheet 7KG9501-0AA01-0AA1

DIMENSIONS 96MM X 96MM X 100MM 4 INPUTS FOR AC VOLTAGE MEASUREMENTS 4 INPUTS FOR AC CURRENT MEASUREMENTS 2 BINARY OUTPUTS 2 BINARY INPUTS WEB SERVER FOR PARAMETERIZATION AND VISUALIZATION NTP SYNCHRONIZATION CE CERTIFICATION AND UL LISTING PANEL MOUNTED INSTRUMENT WITH GRAPHICAL DISPLAY ETHERNET-SWITCHING INTERNAL MEMORY 2 GB WITHOUT SERIAL COMMUNICATION INTERFACE ETHERNET INTERFACE AND COMMUNICATION PROTOCOL, RJ45 MODBUS TCP

Model	
Product type designation	NO_DATA
Product brand name	NO_DATA
Design of the product	NO_DATA

General technical data	
Type of data format / for record	
• PQDif	Yes
• COMTRADE	Yes
• CSV	Yes

Product details

Suitability	
Suitability for use	
Suitability for operation	
Type of measured value acquisition	
• min./max.-values	Yes
• average values	Yes
Product feature	

• Data logging/recording according to EN 50160	Yes
• Mean value recorder	Yes
• fault record (Sinus wave recording)	Yes
Special product feature	

Product function

Product function	NO_DATA
• voltage measurement	Yes
• Current measurement	Yes
• frequency measurement	Yes
• active power measurement	Yes
• reactive power measurement	Yes
• Apparent power measuring	Yes
• Active energy measurement	Yes
• Reactive energy measuring	Yes
• Apparent energy measuring	Yes
• display consumed active-energy	Yes
• display yielded active-energy	Yes
• display summation active-energy	Yes
• display reactive energy inductive	NO_DATA
• display reactive energy capacitive	NO_DATA
• display summation reactive energy	NO_DATA
• expandable / THD-measurement of current of harmonics	Yes
• expandable / THD-measurement of voltage of harmonics	Yes
• expandable / measurement of current of harmonics	Yes
• expandable / measurement of voltage of harmonics	Yes
• Logics functionality	Yes
• expandable / measurement limit value violations	Yes
• query limit value violations	Yes
• integrated / for voltage fluctuations by flickers / according to IEC 61000-4-15	Yes
• integrated / Identify and visualise of voltage fluctuations	Yes
• integrated / synchronization of measuring viewing windows	Yes
• at the Ethernet interface / serial gateway	No
• Password protection	Yes

Protection function

Power quality function	
• voltage dip/sag	Yes
• voltage swell	NO_DATA
• TDD according to IEEE 519	Yes
• Transient detection/Logging and record	NO_DATA
Energy management function / integrated	
• TOU	Yes
• tariff	Yes
• load profiles	Yes

Control function

Type of time synchronization	kein Wert
Frequency measurement / in the range 2 kHz ... 9 kHz / according to IEC 61000-4-7	No

Control and supervision function

Product component	
• HMI-HMI operator panel front	Yes
• integrated / HMI operator panel front	Yes
• integrated / clock	Yes

Display and operation

Voltage

Type of voltage	DC/AC
Number of voltage inputs	4
Supply voltage	
• at DC / minimum	24 V
• at DC / maximum	250 V
• at AC / minimum	110 V
• at AC / maximum	230 V
Input voltage	
• between L and L / maximum	690 V
• between L and L / according to UL / maximum	600 V
• between L and N / maximum	400 V
• between L and N / according to UL / maximum	347 V

Electricity

Input current / maximum	5 A

Switching capacity

Connections

Number

Number of harmonics	63

Inputs / Connections / Sensors

Number of current inputs / maximum	kein Wert
Number of digital inputs / optional	0
Number of digital inputs / Integrated	2
Number of analog inputs / optional	0
Accuracy class / of measuring device / at measured dimension active power / according to IEC 62053-22	
Accuracy class / of measuring device / according to IEC 61000-4-30	
Accuracy class / for voltage and current measurement / according to IEC 61000-4-30	Yes
Accuracy class / for voltage and current measurement / according to IEC 61000-4-30, Klasse A	Yes

Qutputs	
Number of digital outputs	
• Integrated	2
• optional	0
Number of analog outputs	
• Integrated	0
• optional	0

Communication	
• Type of interface / serial RS 485	No
• Design of the interface / Ethernet interface	Yes
Number of ports / of Ethernet interface	1
Communication function / Modbus RTU as master	No
Protocol / is supported	
• IEC 60870-5-104	No
• IEC 61850	No
• Modbus TCP	Yes
• Modbus RTU	No
• PROFIBUS DP	No
• IEC 60870-5-103	No
• SNMP	Yes
• HTTP	Yes

Protection class	
Protection class IP	
• on the front	IP40
• Rear side	kein Wert

Mechanical Design	
Width	96 mm
Height	96 mm
Depth	100 mm

Environmental conditions

Ambient temperature / during transport	
• minimum	-25 °C
• maximum	70 °C
Operating temperature	
• minimum	-25 °C
• maximum	55 °C

Certificates	
Standard / for transmitter	
Certificate of suitability / IEC certificate	Yes