

KLEA 411R

Klemsan

606706

3Ø Energy Analyzer

Category: Energy Management Products

Type: Energy Analyzers

Group: Electronics Products



Commercial Information

Package Unit	1 pcs.
Customs Tariff Number	903032009011
Weight Per Unit Including Packaging	-

Technical Information

GENERAL	
LCD Screen	-
Language Support	English
Password Protection	+
Networks	TT, TN, IT
Signal Waveforms	-

Battery	-
Real Time Clock	-
Demand Period	1-60 min. adjustable.
Connection Type	3P4W, 3P3W
Packaging Quantity	1
Seven Segment Display	-
Without Screen	-
Min/Max Data	+
Demand Data	+
Ghost Screen	+
Phasor Diagram Display	-
Screen Refresh Period	1sn
Number of Samples in the Period	-
ENERGY MEASUREMENT	
Number of Tariffs	2
3Ø Phase Energy Measurement	+
Number of Sub Tariffs	-
1Ø Energy Measurement	+
Number of Reactive Measurement Zones	2
CURRENT MEASUREMENT INPUT	
Measuring Range	50mA-6A AC
Overvoltage Category	300 V Cat II
Voltage Fluctuation Measurement	<2 kV

Power Consumption	<0.2 VA
Intermittent Overload	100 A for 1 sec
Sampling Frequency Between 45-65 Hz	-
VOLTAGE MEASUREMENT INPUT	
Overvoltage Category	300 V Cat III
Measuring Range L-N	10-300 Vrms
Measuring Range L-L	17-500 Vrms
Frequency Measuring Range	45-65 Hz
Power Consumption	<0.1 VA
Sampling Frequency Between 45-65 Hz	-
POWER QUALITY MEASUREMENTS	
Harmonic Measurement / Current and Voltage	31 e kadar
THDI	+
THDV	+
MEASURING ACCURACY - IEC 61557-12	
Total Active Power	Class 1
Total Reactive Power	Class 1
Total Reactive Energy	Class 2
Frequency	Class 0.2
Current	Class 0.5
Neutral Current	Class 0.5
Voltage	Class 0.5
Power Factor	Class 0.2

THDV, THDI	Class 1
Total Apparent Power	Class 1
Total Active Energy	Class 1
MEASURING ACCURACY - IEC 62053-22	
Total Active Energy	Class 1
MEASURING ACCURACY - IEC 62053-23	
Total Reactive Energy	Class 2
ALARM RELAY OUTPUTS	
Number of Outputs	-
Max. Switching Current	-
Max. Switching Voltage	-
Max. Switching Power	-
POWER SUPPLY	
Voltage	85-300V AC - 85-300V DC
Frequency	45-65Hz
Consumption	<3VA AC - <2.5W DC
MECHANICAL PROPERTIES	
Weight (g)	-
Protection Class	IP54
Mounting Type	Panel Mount
ENVIRONMENTAL CONDITIONS	
Operating Temperature	-25°C +70°C
Storage Temperature	-30°C +80°C

Relative Humidity (Non-condensing)	Max. 95% (no condensation)
COMMUNICATION	
Protocol	Modbus RTU
Baud Rate	1200-57600
Parity	Odd, Even, None
Stop Bit	1
Slave ID	1-247
Isolation	2750V RMS
TIME RECORDED DATA STORAGE	
Hourly Records	-
Daily Records	-
Monthly Records	-
Demand	-
Alarm Records	-
DIGITAL OUTPUT	
Isolation Level	-
Number of Outputs	-
Voltage Switching Range	-
Minimum Switching Frequency	-
DIGITAL INPUT	
Minimum Counting Frequency	-
Input Type	-
Number of Inputs	-

Isolation Level	-
ETHERNET INTERFACE	
Protocol	-
Port	-
Gateway Feature	-
Performance	-
ANALOG OUTPUT	
Output Ranges 0-5 V, 0-10 V, -5-5 V, -10-10V, 0-20 mA, 4-20 mA	-
Isolation	-
OTHER MEASUREMENTS	
Operating Time Counter	+
Open Time Counter	+
Power Failure Counter	+
BASIC ELECTRICAL MEASUREMENTS	
Current	+
Voltage	+
Frequency	+
Active Power	+
Reactive Power	+
Apparent Power	+
Power Factor	+
Cos Ø	+

CABLE CROSS-SECTIONS POWER SUPPLY, VOLTAGE, RELAY

Multi-Core	2.5mm ² - 14AWG
Single Core	4mm ² - 12AWG, 2x1.5mm ² - 2x16AWG

CABLE CROSS-SECTIONS CURRENT

Multi-Core	4mm ² - 12AWG, 2x1.5mm ² - 2x16AWG
Single Core	4mm ² - 12AWG, 2x1.5mm ² - 2x16AWG

CABLE CROSS-SECTIONS DIGITAL INPUT/OUTPUT, RS485, ANALOG OUTPUT

Multi-Core	1.5mm ² - 16AWG
Single Core	1.5 mm ² -16 AWG, 2x0.75 mm ² - 2x18 AWG