

ELECTRONICS PRODUCTS > ENERGY MANAGEMENT PRODUCTS > REACTIVE
POWER MANAGEMENT



RAPIDUS 116R

Stock Keeping Unit (SKU): 606063

Power Factor Controller

Commercial Information

Product Sales Code	606063
Package Unit	1 pcs.
Customs Tariff Number	903289000000
Weight Per Unit Including Packaging	0.94 kg.

Technical Information

CONNECTION DATA

Connection Type **L-L L-N**

General

Measurement System	1Ø
Lcd Screen	+
Language Support	Turkish, English
Password Protection	+
Voltage Transformer Ratio Vtr	1 - 999.9
Current Transformer Ratio Ctr	1 - 5.000
Number Of Measurements In One Period	512
Lcdscreen Refresh Rate	<0.5 sec. sn.
Networks	TT, TN,
Signal Waveforms	

Compensation Modes

Rapidus Smart Control Mode	
Manual	+

Step Configurations

Manual Definition	+
Predefined	1-1-1-1, 1-2-2-2, 1-2-4-4
Power Kvar	0.00-1000 adjustable
Type	3Ø capacitor, 1Ø capacitor

Power Factor Settings

Target 1 Cos	0.8 cap. to 0.8 ind. adjustable
Target 2 Cos	0.8 cap. to 0.8 ind. adjustable
Dual Cos Target	+
4 Quadrant Operation For Generators	+

Energy Measurement

Multiple Sub Tariffs Peak On Peak And Off Peak	--
1 Phase Energy Measurement	--
3 Phase Energy Measurement	--

Current Measurement Input

Measuring Range	10mA-6A AC
Overvoltage Category	300 V Cat III
Voltage Fluctuation Measurement	---
Power Consumption	<0.2 VA
Intermittent Overload	100A for 1 sec.
Sampling Frequency Between 45 65 Hz	25.6 kHz

Voltage Measurement Input

Overvoltage Category	300 V Cat III
Measuring Range L N	120...510V AC ±10%
Measuring Range L L	120...510V AC ±10%
Frequency Measuring Range	45-65 Hz

Power Consumption	<0.2 VA
Sampling Frequency Between 45 65 Hz	25.6 kHz

Power Quality Measurements

Thd Voltage As	+
Thd Current As	+

Measuring Accuracy Iec 61557 12

Total Active Power	Class 0.5
Total Reactive Power	Class 1
Total Reactive Energy	Class 2
Frequency	Class 0.1
Current	Class 0.5
Neutral Current	Class 0.5
Voltage	Class 0.2
Power Factor	Class 0.5
Thdv Thdi	Class 1
Total Apparent Power	Class 0.5
Total Active Energy	Class 0.5

Measuring Accuracy Iec 62053 22

Total Active Energy	Class 0.5S
---------------------	-------------------

Measuring Accuracy Iec 62053 23

Total Reactive Energy	Class 2
-----------------------	----------------

Compensation Relay Outputs

Number Of Outputs	2
Type	NO (SPST)
Max Switching Current	2A
Max Switching Voltage	250VAC
Max Switching Power	1250VA
Mechanical Operating Life	= 10.0000000 operations

Electrical Operating Life No Side

5×104(5A@250VAC) 1×105(5A@30VDC)

Alarm Relay Outputs

Number Of Outputs

2

Type

NO (SPST)

Max Switching Current

4A

Max Switching Voltage

250 VAC

Max Switching Power

1250 VA

Mechanical Operating Life

= 10.0000000 operations

Electrical Operating Life No Side

5×104(5A@250VAC) 1×105(5A@30VDC)

Generator Day Night Input

Number Of Inputs

1

Frequency

45-65Hz

Input

95-240VAC

Inputs And Outputs

Digital Outputs

--

Analog Outputs

--

Power Supply

Backup Supply Input

--

Voltage

La-Lb den 120...510V AC ±10%

Frequency

45-65Hz

Consumption

< 10VA

Mechanical Properties

Weight G

0,94

Protection Class

Front IP40 / Rear IP20

Mounting Type

Panel Mount

Packaging Quantity

1

Cable Cross Sections

Voltage Current All Relay Outputs Generator Input	2.5mm² - 14AWG with ferrule - 4mm² - 12AWG without ferrule, 2x1.5mm² - 2x16AWG
Rs485	1.5mm² - 16AWG with ferrule - 1.5mm² - 16AWG without ferrule, 2x0.75mm² - 2x18AWG

Environmental Conditions

Operating Temperature	-20°C +55°C
Storage Temperature	-30°C +80°C
Relative Humidity Non Condensing	Max. 95%

Emc Emi

En 61000 6 1	2011
--------------	-------------

Diagrams

Mains Connection	+
Step Output Connections	+

Communication

Protocol	Modbus RTU
Baud Rate	1200-38400 bps adjustable
Parity	---
Stop Bit	1
Slave Id	1-247
Isolation	2000V RMS