

ELECTRONICS PRODUCTS > ENERGY MANAGEMENT PRODUCTS > REACTIVE POWER MANAGEMENT

RAPIDUS 110R

Stock Keeping Unit (SKU): 606071

Power Factor Controller

Commercial Information

Product Sales Code	606071
Package Unit	1 pcs.
Customs Tariff Number	903289000000
Weight Per Unit Including Packaging	0.94 kg.

Technical Information

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	
Connection Type	L-L/L-N

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	10
-------------------	-----------

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	940
Protection Class	Front IP40 / Rear IP20
Mounting Type	Panel Mount
Packaging Quantity	1

Cable Cross Sections

Voltage Current All Relay Outputs Generator Input	Yüksüklü 2.5mm² - 14AWG - Yüksüksüz 4mm² - 12AWG,
---	--

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