

RAPIDUS 118R

Klemsan

606065

Power Factor Controller

Category: Energy Management Products

Type: Reactive Power Management

Group: Electronics Products



Commercial Information

| | |
|-------------------------------------|--------------|
| Package Unit | 1 pcs. |
| Customs Tariff Number | 903289000000 |
| Weight Per Unit Including Packaging | 0,94 |

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 |
| LCD/Screen Refresh Rate | <0.5 sec. |
| 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 cosØ | 0.8 cap. to 0.8 ind. adjustable |
| Target 2 cosØ | 0.8 cap. to 0.8 ind. adjustable |
| Dual cosØ Target | + |
| 4 Quadrant Operation for Generators | + |
| ENERGY MEASUREMENT | |
| Multiple Sub Tariffs (Peak, On-Peak and Off-Peak) | -- |

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|--|--------------------|
| 1Ø Phase Energy Measurement | -- |
| 3Ø 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 |
| | |

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|--|--|
| 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 | 8 |
| Type | NO (SPST) |
| Max. Switching Current | 4A |
| Max. Switching Voltage | 250VAC |
| Max. Switching Power | 1250VA |
| Mechanical Operating Life | = 10.0000000 operations |
| Electrical Operating Life (NO side) | 5×10 ⁴ (5A@250VAC) 1×10 ⁵ (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) | 5×10 ⁴ (5A@250VAC) 1×10 ⁵ (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 | |
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|--|---|
| Voltage, Current, All Relay Outputs, Generator Input | 2.5mm ² - 14AWG with ferrule - 4mm ² - 12AWG without ferrule, 2x1.5mm ² - 2x16AWG |
| RS485 | 1.5mm ² - 16AWG with ferrule - 1.5mm ² - 16AWG without ferrule, 2x0.75mm ² - 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 |