AC/DC® REGULATOR

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Microprocessing Controlled Voltage Regulator
Three Phase Systems

• Wide Input Voltage Range
• True RMS Value Measurement
• Overload and Short Circuit Protection
• Excellent Dynamic and Static Regulation
• RISC Microprocessing Controlled System
• 380 V ± 1% Regulation, 200 V/sec Regulation Speed
• Load Level, Output and Input Voltage Display Panel
• Programmable Minimum and Maximum Overload Protection

60 - 200 kVA

Your Positive Energy Source...
# 60 - 200 kVA Micro Processing Controlled Voltage Regulators Technical Specifications

## Model

<table>
<thead>
<tr>
<th>Model</th>
<th>MVR3P-60</th>
<th>MVR3P-75</th>
<th>MVR3P-100</th>
<th>MVR3P-120</th>
<th>MVR3P-150</th>
<th>MVR3P-200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power (kVA)</td>
<td>60 kVA</td>
<td>75 kVA</td>
<td>100 kVA</td>
<td>120 kVA</td>
<td>150 kVA</td>
<td>200 kVA</td>
</tr>
</tbody>
</table>

## Line Input

- **Input Voltage**: 380 VAC, 3 Phase + Notr (Optional 400 VAC or 415 VAC)
- **Input Voltage Regulation Range**: 275 VAC - 430 VAC (L-L) (Optional 310 VAC - 450 VAC or 220 VAC - 440 VAC)
- **Input Voltage Operation Range**: 220 VAC - 475 VAC (L-L) (Optional 250 VAC - 490 VAC or 180 VAC - 440 VAC)
- **Operation Frequency**: 50 Hz; ± 5%
- **Line Input Protection**: NH Fuse (Optional Over Current Thermic Fuse and Transient Protection)
- **Regulator Protection**: IEEE 587 (4500 A, 110 J)

## Regulator Output

- **Output Voltage**: 380 VAC, 3 Phase + Notr (Optional 400 VAC or 415 VAC) RMS
- **Output Voltage Tolerance**: ± 2% (Selectable by LCD Panel between 1% - 5%)
- **Over Load**: 10 sec, 500 % load
- **Regulation (Control) Speed**: 200 Volt / sec
- **Rectification Duration**: 500 ms (varies between 165 VAC - 265 VAC)
- **Working Principle**: RISC Microprocessing Controlled Full Automatical Servo Control
- **Output Protection**: Short Circuit, Over Current Protection, Load Protection

## Control Panel

- **Display and Buttons**: True RMS LCD Display, Menu Scanning Button, Selection Button
- **Alert Messages**: Line high / Low, Output failure and overload led alerts
- **Monitoring Measured Values**: 3 different window, Output, Line voltage, Load percentage
- **Output Tolerance Adjustment**: Selectable by LCD Panel (1%, 2%, 3%, 4% or 5%)
- **Output Delay Time Adjustment**: 8 sec. (Selectable by LCD Panel between 1 sec - 255 sec)
- **Output Max. Limit Cut Adjustment**: 240 VAC (Selectable by LCD Panel between 230 VAC - 255 VAC)
- **Output Min. Limit Cut Adjustment**: 190 VAC (Selectable by LCD Panel between 160 VAC - 210 VAC)

## General

- **Total Efficiency**: > 98% (full load)
- **Mechanical By-Pass**: Manually Controlled "Line - Voltage Regulator" Selective PAKOS Switch
- **Electrical Parasite Repression**: FCC Part 15 Class B
- **Protection Level / Color**: IP20 / RAL 7035 (Optional Other Protection Level and Color)

## Environmental

- **Operation Temperature**: 0 - 40 °C
- **Relative Humidity**: < 90% DIN (40040)
- **Acoustic Level**: < 50 dB (1 m)
- **Working Altitude**: 2000 m max
- **Electrical Standards**: EN 50091-1 (Security) / EN 50091-2 (EMC)

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*AC/DC reserves the right to make any changes to data without prior notice.*

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