



10,5 - 150 kVA

# AVR33 Series

FULL AUTOMATIC VOLTAGE REGULATOR

## GENERAL SPECIFICATIONS

- Non-linear charges drive
- 3 phase input 3 phase output
- Wide power and voltage interval
- High reliability thanks to Microprocessor and Smart Driver
- Fast Regulation
- High efficiency
- Load transfer to Bypass via pole charge switch
- Safe and economic usage
- Overcurrent and overload protection
- Digitally displayed status, input & output measurements





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## TECHNICAL SPECIFICATIONS

| MODEL                   | AVR 010                                                                                 | AVR 015 | AVR 022 | AVR 030   | AVR 045 | AVR 060 | AVR 075   | AVR 100 | AVR 120 | AVR150    |
|-------------------------|-----------------------------------------------------------------------------------------|---------|---------|-----------|---------|---------|-----------|---------|---------|-----------|
| Power kVA               | 10,5                                                                                    | 15      | 22,5    | 30        | 45      | 60      | 75        | 100     | 120     | 150       |
| <b>REGULATOR INPUT</b>  |                                                                                         |         |         |           |         |         |           |         |         |           |
| In.Vol.Correct.Interval | 285 - 440 VAC (Optional: 190-415 VAC)                                                   |         |         |           |         |         |           |         |         |           |
| Operation Frequency     | 47...65 Hz                                                                              |         |         |           |         |         |           |         |         |           |
| Line Input Protection   | Overcurrent, Low and High voltage protection                                            |         |         |           |         |         |           |         |         |           |
| Current at input        | 16.8                                                                                    | 24      | 36      | 48        | 72      | 96      | 120       | 161     | 192     | 240       |
| <b>REGULATOR OUTPUT</b> |                                                                                         |         |         |           |         |         |           |         |         |           |
| Output Voltage          | 380 / 400 / 415 VAC RMS $\pm$ 1 %                                                       |         |         |           |         |         |           |         |         |           |
| Overloading             | 10 Sec. 200 % Load                                                                      |         |         |           |         |         |           |         |         |           |
| Correction Speed        | ~ 90 Volt / Sec.                                                                        |         |         |           |         |         |           |         |         |           |
| Upturn Period           | ~ 90 Volt / Sec. ( 160 VAC - 250 VAC)                                                   |         |         |           |         |         |           |         |         |           |
| Output Protection       | Protects load by opening the circuit when overburden, short circuit occurs.             |         |         |           |         |         |           |         |         |           |
| Current at output       | 12.6                                                                                    | 18      | 27      | 36        | 54      | 72      | 90        | 121     | 144     | 180       |
| <b>GENERAL</b>          |                                                                                         |         |         |           |         |         |           |         |         |           |
| Working Principle       | Servo Motor, Microprocessor Controlled, Full Automatic                                  |         |         |           |         |         |           |         |         |           |
| Cooling                 | Smart Fan System                                                                        |         |         |           |         |         |           |         |         |           |
| Measured Value Monitor. | TRUE RMS Panel Voltmeter (74x74mm) output voltage and line voltage monitorisation       |         |         |           |         |         |           |         |         |           |
| Total Efficiency        | > 96 %                                                                                  |         |         |           |         |         |           |         |         |           |
| Mechanical By-pass      | "Manually Controlled Line - PAKO Switch Selects Voltage Regulator" Switch Turn On / Off |         |         |           |         |         |           |         |         |           |
| Protection Level        | IP 20 // IP 54 (Optional)                                                               |         |         |           |         |         |           |         |         |           |
| <b>ENVIRONMENTAL</b>    |                                                                                         |         |         |           |         |         |           |         |         |           |
| Working Temperature     | -10 °C / 50 °C                                                                          |         |         |           |         |         |           |         |         |           |
| Storage Temperature     | -25 °C / + 60 °C                                                                        |         |         |           |         |         |           |         |         |           |
| Relative Humidity       | < 90 %, DIN ( 40040 )                                                                   |         |         |           |         |         |           |         |         |           |
| Working Altitude        | < 2000 m.                                                                               |         |         |           |         |         |           |         |         |           |
| Acoustic Level          | < 50 dB (1m <sup>2</sup> )                                                              |         |         |           |         |         |           |         |         |           |
| Standards               | CE / ISO 9001                                                                           |         |         |           |         |         |           |         |         |           |
| <b>DIMENSIONS</b>       |                                                                                         |         |         |           |         |         |           |         |         |           |
| HxWxD (cm)              | 117x40x64                                                                               |         |         | 127x40x64 |         |         | 140x88x60 |         |         | 165x94x66 |
| Weight (kg)             | 95                                                                                      | 105     | 125     | 145       | 165     | 260     | 280       | 310     | 400     | 425       |



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