



Qoltec Three-phase AVR MULTIPROTECTION voltage stabiliser | 30kVA | Accuracy 3% | 3-phase servo motor | LCD | Expert Line

Product code: 51909

The device ensures precise stabilisation of the output voltage to an accuracy of 3%. The SERVO technology employed uses a servomotor to regulate the voltage automatically and smoothly. The device comprises a contact voltage regulator, a measuring circuit, a voltage control system, a servomechanism and a movable control arm.

A STABLE POWER SUPPLY FOR PROFESSIONAL EQUIPMENT



Three-phase servo motor control system

The stabiliser utilises **SERVO control technology**, in which a servomotor controls the position of the voltage regulator's moving arm. This solution allows the unit to automatically respond to changes in mains parameters and smoothly correct the input voltage without the need for manual operation, ensuring a stabilised output voltage of 380V.

Precise output voltage stabilisation to within 3%

The stabiliser **maintains the rated output voltage at 380 V AC with an accuracy of 3%**. This means that during normal operation, the output voltage is stabilised within a range of approximately 368.6–391.4 V AC. The measurement system continuously monitors the power supply parameters, whilst the servo motor control automatically corrects any deviations in the input voltage. This helps to minimise the impact of mains fluctuations on connected machinery, industrial equipment and other three-phase loads.

MONITORING OF EVERY STAGE FOR GREATER SYSTEM SAFETY



6-transformer system – Independent voltage control and regulation on each phase

Models with a power rating of 15 to 40 kVA are equipped with a 6-transformer system, comprising 3 Variac regulating autotransformers and 3 compensation transformers. Each phase has its own separate control unit, which allows independent correction of the L1, L2 and L3 voltages. The Variac autotransformers work in conjunction with a servo mechanism to adjust the regulation level, whilst the compensation transformers increase or decrease the voltage in accordance with the current mains parameters. This solution ensures smooth stabilisation, an output voltage accuracy of 3 per cent and reliable operation of the connected equipment.

A MULTI-LEVEL PROTECTION SYSTEM FOR THREE-PHASE INSTALLATIONS



Multi-Protection – multi-level protection for three-phase installations and connected equipment

The comprehensive Multi-Protection system helps to minimise the risk of damage to machinery, industrial equipment and other three-phase loads, ensuring greater reliability and continuity of operation for the installation.

The stabiliser provides protection against:

- reversal of the phase and neutral wires,
- loss of one of the phases,
- incorrect phase sequence,
- loss of the neutral wire,
- excessive voltage surges.

Stable voltage for heat pumps, compressors and advanced control electronics

With models available in power ratings from 10 to 40 kVA, the voltage stabiliser can be selected to meet the requirements of a specific installation and used, amongst other things, to power:

- three-phase heat pumps,
- compressors, motors and pumps,
- production machinery and machine tools,
- industrial automation systems,
- refrigeration and air-conditioning equipment,
- servers, ICT cabinets and network infrastructure,
- heating systems and technical installations,
- office equipment and professional electronic equipment,

THE KEY PARAMETERS ARE ALWAYS CLEARLY VISIBLE ON THE EASY-TO-READ LCD SCREEN



Easy-to-read LCD display – full control over power supply parameters

The built-in LCD display allows real-time monitoring of the stabiliser's operating parameters for each of the three phases. The screen displays the voltage and current values for phases L1, L2 and L3, allowing the user to quickly assess the power supply status and detect any anomalies. Clear messages make it easier to identify the cause of a fault and take appropriate action.

The panel also indicates key operating statuses and warnings, such as:

- voltage too low or too high,
- overload,
- overheating,
- phase loss,
- active start-up delay.

CONFIDENCE CONFIRMED BY A WARRANTY

This product comes with a 24-month warranty

Do you want to be sure of the high quality of the product you're buying? Our solutions will meet your expectations. This product comes with a **24-month warranty valid from the date of purchase.**

TECHNICAL DATA

Producer	Qoltec
Type	3- Phase
Power	24kW
Rated Power	30000VA/24kW
Apparent power	30kVA
Rated capacity	280V-430V AC
Output voltage	380V 3%
Precision	3%
Frequency	50-60Hz
PFC	0.8
Transformer	6 units (3 Variac control autotransformers + 3 compensation transformers)
Efficiency	>94%
Delay Function	5s/240s
Display	LCD
Cooling system	3 x Fan
Protection	protection against the phase and neutral wires being swapped, protection against phase loss, protection against incorrect phase sequence, protection against loss of the neutral wire
OTHER PARAMETERS	
Colour	Grey
Material	Metal, Winding material: 50% copper
Operating temperature	-10 ~40
Dimensions (D/L x W x H)	620 x 320 x 880 mm
Package contents	1 x AVR 1 x User manual
Package depth / length [mm]	690
Package width [mm]	390
Package height [mm]	960
Net weight [kg]	99
Gross weight [kg]	108
Warranty	24 month
EAN code	5901878519098