



RE3 Electronic voltage stabilisers from 300 VA to 250 kVA

RE: The fastest and the most accurate electronic regulation system of the market

In today's electronic environment, saturated and highly unstable, where fluctuations in the power supply voltage are more than frequent, voltage stabilisers play a very important role in guaranteeing stable voltage to loads more sensitive to such variations.

The **Salicru RE** series of electronic stabilisers, based on a completely static structure of high efficiency, fast reply speed and excellent output precision, are made in single phase or three-phase configuration and in a range of powers from 300 VA to 250 kVA.

The three-phase units are conceived with a completely phase-independent regulation in order to avoid possible regulation problems due to imbalance in the loads. Moreover, the units include a static bypass to guarantee the power supply in the event of a possible fault.

Performances

- Power range, single and three-phase, up to 250 kVA.
- Ultra-fast regulation: reply speed under 100 ms.
- Digital control and parameters setting independent per phase.
- Entirely static structure, without moving elements, greater reliability.
- Static bypass, loads always supplied.
- In three-phase units, independent regulation per phase, immune to imbalances.
- Output precision better than $\pm 2\%$.
- $\pm 15\%$ input regulation margins standard.
- Efficiency > 97%.
- Isolation transformer or ultra-isolation on unit output. ⁽¹⁾
- LCD Display, as standard, from 6 kVA single-phase or 15 kVA three-phase.
- Detection of voltage input or output (max/min) out of margins, as standard. ⁽²⁾
- SICRES communication slot. ⁽²⁾
- Overtemperature detection. ⁽²⁾
- Do not introduce harmonics, or alter the power factor of the installation.
- Unaffected by line voltage harmonics; stabilisation based on true RMS.
- Stable operation in the event of load and/or voltage variations.
- Highly robust and reliable (high MTBF).
- Overvoltage surge supresion protection.
- More than 80% recyclable materials.

(1) Option
 (2) For models with LCD display



RE3

Applications: Assured industrial processes

Many are the industrial processes where voltage stability is essential: from a wide range of applications where the numerical control processors and automatons are entrusted with guaranteeing the final result, up to all kinds of calculation centres, computer peripherals, transmission and communications equipment, laboratory equipment, etc.



Presentation

Electronic voltage stabilisers from 300 VA to 250 kVA



RE3 models



RE models

RE3 models display



1. LCD 2x16 characters.
2. Navigation keys.
3. LEDs (alarm, bypass, normal operation and communications).

Options

- Relay interface.
- Manual maintenance bypass.
- Protection of high-low voltage with manual or automatic reset (output voltage disconnection when out of range).
- Isolation transformer (T).
- Ultra-isolation transformer (NS).
- Current transformers for measures of current, power (kVA / kW) and power factor.
- Overload protection. ⁽¹⁾
- Telemangement SICRES card. ⁽¹⁾
- Extended communications module. ⁽¹⁾
- Extended ambient operating temperature from -20°C.
- Input & output circuit breaker.

⁽¹⁾ Models with display

Services

- Pre-sale and after sales advisory service.
- Numerous maintenance and remote maintenance options (SICRES).



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TECHNICAL SPECIFICATIONS

MODEL	RE3	
INPUT	Single phase voltage	120 V, 220 V, 230 V, 240 V
	Three-phase voltage	3 x 208 V, 3 x 220 V, 3 x 380 V, 3 x 400 V, 3 x 415 V (3F+N) ⁽²⁾
	Regulation range	± 15% ⁽¹⁾
	Frequency	47.5 ÷ 63 Hz
OUTPUT	Single phase voltage	120 V, 220 V, 230 V, 240 V
	Three-phase voltage	3 x 208 V, 3 x 220 V, 3 x 380 V, 3 x 400 V, 3 x 415 V (3F+N) ⁽²⁾
	Accuracy	Better than ± 2%
	Frequency	48 ÷ 63 Hz
	Harmonic distortion	Nil
	Response time	100 ms
	Efficiency	> 97%
	Permissible overload	200% for 1 minute
BYPASS	Type	Static
GENERALS	Ambient operating temperature	-10° C ÷ +45° C ⁽¹⁾
	Relative humidity	Up to 95%, non-condensing
	Maximum operating altitude	2400 m.a.s.l.
	Mean Time Between Failures (MTBF)	60,000 hours
	Mean Time To Repair (MTTR)	30 minutes
	Acoustic noise level at 1 metre	< 45 dB (A) ⁽²⁾
	Cooling	Natural or forced depending on power rate
	Electrical noise attenuation on common mode	With isolation transformer > 40 dB With ultra-isolation transformer > 120 dB
STANDARDS	Safety	IEC 62103
	Electromagnetic Compatibility (EMC)	EN-61000-6-4; EN-61000-6-2
	Quality and Environmental management	ISO 9001 and ISO 14001

⁽¹⁾ Other ranges under request ⁽²⁾ <65 dB(A) for models with forced ventilation ⁽³⁾ Ask for other settings

Information subject to change without notice.

RANGE ⁽³⁾

MODEL	POWER (kVA / kW)	DIMENSION (D x W x H mm)	WEIGHT (Kg)
RE-309-2	0.3	280 x 210 x 185	6
RE-609-2	0.6	280 x 210 x 185	6
RE-1009-2	1	280 x 210 x 185	9
RE-2009-2	2	390 x 250 x 195	19
RE-3009-2	3	390 x 250 x 195	22
RE-4509-2	4.5	460 x 300 x 220	35
RE3 M 6-2	6	600 x 240 x 490	44
RE3 M 9-2	9	600 x 240 x 490	58
RE3 M 12-2	12	580 x 340 x 580	67
RE3 M 15-2	15	580 x 340 x 580	69
RE3 M 20-2	20	895 x 460 x 705	103
RE3 M 25-2	25	895 x 460 x 705	127
RE3 M 30-2	30	895 x 460 x 705	154
RE3 M 40-2	40	895 x 460 x 705	170
RE3 M 50-2	50	895 x 460 x 705	186

Nomenclature, dimensions and weight for models: 230 V 50 Hz input / 230 V 50 Hz output and ± 15% input range

MODEL	POWER (kVA / kW)	DIMENSION (D x W x H mm)	WEIGHT (Kg)
RET 3-4	3	680 x 340 x 240	32
RET 6-4	6	680 x 340 x 240	61
RET 9-4	9	630 x 390 x 520	68
RE3 T 15-4	15	895 x 460 x 705	80
RE3 T 20-4	20	895 x 460 x 705	117
RE3 T 30-4	30	895 x 460 x 705	164
RE3 T 45-4	45	895 x 460 x 705	225
RE3 T 60-4	60	895 x 460 x 705	260
RE3 T 75-4	75	850 x 615 x 1315	317
RE3 T 100-4	100	850 x 615 x 1315	343
RE3 T 125-4	125	850 x 615 x 1315	438
RE3 T 150-4	150	850 x 615 x 1315	650
RE3 T 200-4	200	850 x 815 x 2115	850
RE3 T 250-4	250	850 x 815 x 2115	925

Nomenclature, dimensions and weight for models: 3 x 400 V 50 Hz input / 3 x 400 V 50 Hz output and ± 15% input range

⁽³⁾ For models with isolation transformer and other configurations, consult. Others powers upon request.