



# RE

## ELECTRONIC VOLTAGE STABILIZERS

### ► RE: The fastest, most precise electronic regulation on the market

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

The **SALICRU RE** series of electronic stabilizers, 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 150 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<sup>(1)</sup> to guarantee the power supply in the event of a possible fault.

### ► PERFORMANCES

- Ultra-fast regulation: Reply speed under 100 ms.
- Control and test of all parameters by one microprocessor per phase.
- Entirely static structure, without moving elements, greater reliability.
- Static bypass<sup>(1)</sup>, loads always supplied.
- In three-phase units, independent regulation per phase, immune to imbalances.
- Output precision better than 2%.
- 15% input regulation margins standard.
- Efficiency of over 97%.
- Voltmeter standard above 9 kVA.
- Voltmeter switch standard in three-phase units.
- Separator transformer or ultra-isolation on unit output.<sup>(2)</sup>
- Relay interface.<sup>(2)</sup>
- Maximum and minimum voltage protections.<sup>(2)</sup>



► RE unit

### ► APPLICATIONS: Assured industrial processes

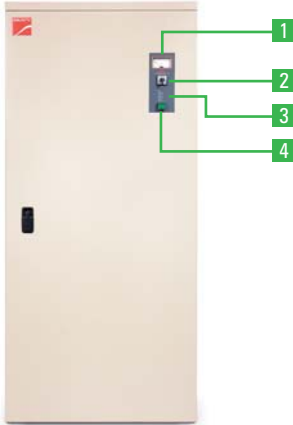
Many are the industrial processes where voltage stability is essential: From a wide range of applications where the numerical control processors and automatons are entrusted with guaranteeing the final result, up to all kinds of calculation centres, computer peripherals, transmission and communications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

(1) Models  $\geq$  1 kVA

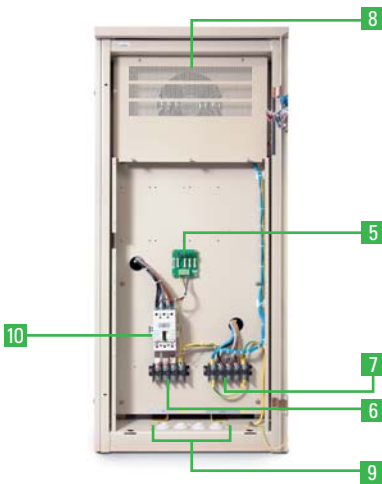
(2) Optional

## ► DESCRIPTION

1. Output voltmeter.
2. Voltmeter switch (three-phase units).
3. Synoptic.
4. Start / Stop switch.
5. Transient protection.
6. Input terminals.
7. Output terminals.
8. Ventilation grilles.
9. Cable input / output.
10. General input magnetic thermal switch.



► Exterior view RE unit



► Interior view RE unit

## ► OPTIONS available

- Relay interface.
- Manual maintenance bypass.
- Maximum-minimum voltage protections with manual or automatic reset.
- Output magnetic thermal protection.
- Gas discharger.
- Input/output ammeter.
- Separator transformer (T).
- Ultra-isolation transformer (NS).

## ► SERVICES

- Pre-sale and after-sale advisory service.
- Multiple formulae of maintenance and telemaintenance.



## ► TECHNICAL SPECIFICATIONS

MODEL		RE	
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	
	Regulation range	± 15% <sup>(1)</sup>	
	Frequency range	48 ÷ 63 Hz	
	Power factor	> 0,95	
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	
	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 <sup>(2)</sup>	
GENERALS	Ambient operating temperature	- 10° C ÷ + 45° C	
	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	< 35 dB	
	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	EN 60950-1
Electromagnetic Compatibility (EMC)		EN 61000-6-3; EN 61000-6-2	
Marking		CE	
Quality and environmental management		ISO 9001 and ISO 14001 TÜV	

(1) Other ranges under request  
 (2) Standard from 1 kVA and above

## ► RANGE<sup>(3)</sup>

MODEL	POWER (kVA)	DIMENSIONS (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	460 x 300 x 220	35
RE-6009-2	6	570 x 317 x 237	44
RE-9009-2	9	570 x 317 x 237	58
RE-12009-2	12	680 x 340 x 240	67
RE-15009-2	15	680 x 340 x 240	69
RE-20009-2	20	740 x 350 x 675	103
RE-25009-2	25	740 x 350 x 675	127
RE-30009-2	30	740 x 350 x 675	154
RE-40009-2	40	740 x 350 x 675	170
RE-50009-2	50	740 x 350 x 675	186

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

MODEL	POWER (kVA)	DIMENSIONS (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	680 x 340 x 240	68
RET 13-4	13,5	725 x 350 x 625	80
RET 18-4	18	725 x 350 x 625	117
RET 27-4	27	925 x 425 x 640	164
RET 36-4	36	925 x 425 x 640	174
RET 50-4	50	925 x 425 x 640	225
RET 60-4	60	925 x 425 x 640	260
RET 75-4	75	925 x 425 x 640	317
RET 100-4	100	810 x 640 x 1530	343
RET 125-4	125	810 x 640 x 1530	438
RET 150-4	150	810 x 640 x 1530	650
RET 200-4	200	810 x 640 x 1530	850
RET 250-4	250	810 x 640 x 1530	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

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