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 ±2%.
· ±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 comunication 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).
· More than 80% recyclable materials.

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

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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.

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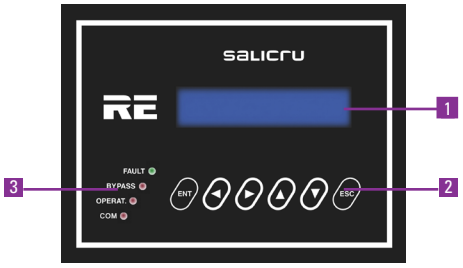
Presentation

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 disconection 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)
- Telemanagement SICRES card. (1)
- Extended communications module. (1)

(1) Models with display

Services

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

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
	Regulation range	± 15% (1)
	Frequency	48 ÷ 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
	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	-10º C ÷ +45º 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	< 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

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	540 x 330 x 500	44
RE3 M 9-2	9	540 x 330 x 500	58
RE3 M 12-2	12	540 x 330 x 500	67
RE3 M 15-2	15	540 x 330 x 500	69
RE3 M 20-2	20	840 x 450 x 620	103
RE3 M 25-2	25	840 x 450 x 620	127
RE3 M 30-2	30	840 x 450 x 620	154
RE3 M 40-2	40	840 x 450 x 620	170
RE3 M 50-2	50	840 x 450 x 620	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	840 x 450 x 620	80
RE3 T 20-4	20	840 x 450 x 620	117
RE3 T 30-4	30	840 x 450 x 620	164
RE3 T 45-4	45	840 x 450 x 620	225
RE3 T 60-4	60	840 x 450 x 620	260
RE3 T 75-4	75	838 x 616 x 1318	317
RE3 T 100-4	100	838 x 616 x 1318	343
RE3 T 125-4	125	838 x 616 x 1318	438
RE3 T 150-4	150	838 x 616 x 1318	650
RE3 T 200-4	200	816 x 816 x 2118	850
RE3 T 250-4	250	816 x 816 x 2118	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

@salicru_SA

www.linkedin.com/company/salicru

(*) Spain only (**) Rest of the world

902 48 24 00* +34 93 848 24 00** WWW.SALICRU.COM

AVDA. DE LA SERRA 100 · 08460 PALAUTORDERA (SPAIN) · FAX +34 93 848 11 51 · salicru@salicru.com