



# EMi2

## SERVOMOTOR VOLTAGE STABILISER

### ► EMI2: A great classic update

Servomotor voltage stabilisers do have accumulated great experience, for they plenty year's service in all of those appliances which a perfect voltage supply stabilisation is a must within complex critical loads: high start-up inrush currents, strongly reactive power behaviour, great power, etc. Notwithstanding and because of it, instead of disuse positioning, they do still enjoy prestige given to all dutiful industry appliances.

Therefore **SALICRU**, faithful to its duty with quality electric supply, has chosen to review plus update such long lasting equipments. **EMi2**, as true afore series descending, keeping up high current handling capacity, a great stoutness for lasting overvoltages plus output voltag high accuracy (up to  $\pm 1\%$ ), overall forwarding a new facement, more compact and up to date.

As improvements related to aforesaid range, they do have, series-built with toroidal self-transformers use for all power range, leading to a better performance plus response speed, having maintenance bypass and independent regulation per phase.

### ► PERFORMANCES

- Toroidal self-transformers for all power range, faster plus more efficient.
- Independent phase regulation as standard.
- Manual bypass as standard.
- Input regulation margins  $\pm 25\%$  as standard.
- Output accuracy better than 1% (adjustable).
- Greater performance, up to 97%.
- High speed regulation, up to 80 V/sec.
- Control synoptic phase-independent with 7 segment display.
- Output digital amperimetre applicable within display. <sup>(1)</sup>
- Output voltage max-min protection. <sup>(1)</sup>
- Output stability guaranteed via thyristors servo-control.
- Relay interface.
- Null harmonic distortion.
- Simplified mechanical system, simpler maintenance.
- Overload tolerance up to 1000% nominal.
- Great reliability (great MTBF).
- Wide power range.
- Silent running.

(1) Optional



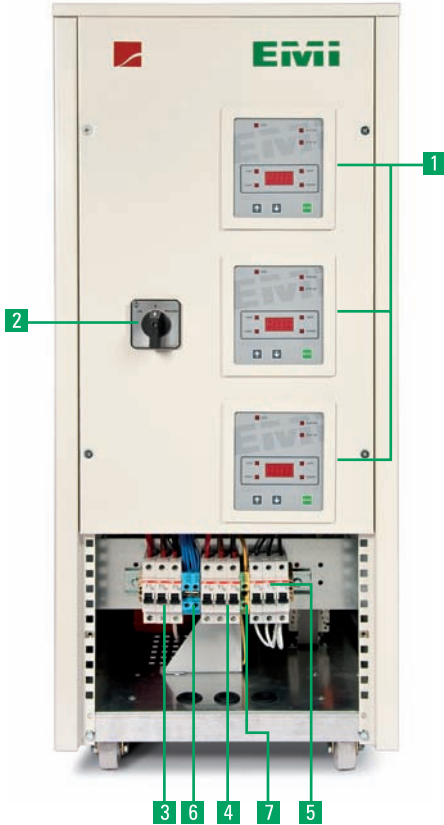
► Display for EMi2

### ► APPLIANCES: Difficult loads always under control

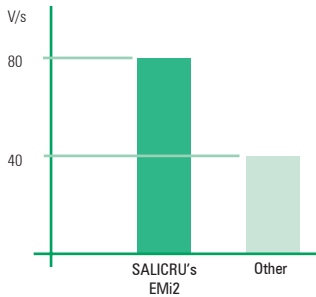
Within a great industrial process variety high sensitive voltage variation machinery is employed. Such loads, power-going and strongly reactive-wise, need to be supplied by voltage regulators able to meet such demands. Among others, we could name: milling cutters, grinders, machine-presses, lathes, polishers, electrical discharge machines, etc. as well as gearing and electric manouvering, numerical controls, electric ovens or telecom repeaters.

## CONNECTIVITY

1. Phase synoptic.
2. Manouver switch Line-O-Regulator.
3. R,S,T, input terminals (terminals + protections).
4. U,V,W output terminals (terminals + protections).
5. Variacs magnetothermic protection.
6. I/O neutral terminals.
7. Ground terminal.



## MAXIMUM speed



▶ Regulation speed comparison

## AVAILABLE options

- ▶ Output voltage max-min protection with manual or automatic reload.
- ▶ Output amperimetre.
- ▶ ±25% regulation margins.

## SERVICES

- ▶ Pre-Sales & After-Sales assessment service.
- ▶ Maintenance plus telemaintenance several formulae.



## TECHNICAL SPECIFICATIONS

MODEL		EMi2	
INPUT	Voltage	Single phase 220 / 230 / 240 V, Three-phase 3x380 / 400 / 415 V	
	Input margin	±25%	
	Frequency	48 ÷ 63 Hz	
OUTPUT	Voltage	Single phase 230 V, three-phase 3x400 V	
	Accuracy <sup>(1)</sup>	± 1%	
	Disconnect voltage value <sup>(2)</sup>	Adjustable between 200 - 240 Vac	
	Frequency	48 ÷ 63 Hz	
	Regulation speed	2-15kVA single / 6-45kVA three	80 V/sec.
		>15kVA single / >45kVA three	40 V/sec.
	Efficiency	> 96%	
	Power factor	> 0.99	
	Crest factor	3 a 1	
	Harmonic distortion	Null	
Independent phase regulation	As standard in three-phase models		
BYPASS	Manual bypass	As standard	
INDICATIONS	Front panel	Input/Output voltage, output current (optional), output frequency. Indicators on: operation stabiliser, high/low output voltage	
	Relay interface	True output / operating stabilise (NO, C, NC); High / low output voltage warning (NO, C, NC)	
GENERAL	Acoustic noise level at 1 metre	< 45 dB (A)	
	Working temperature	- 5°C ÷ + 55°C	
	Storage temperature	- 30°C ÷ + 70°C	
	Relative humidity	Up to 95%, non-condensing	
	Maximum altitude	2.400 m.a.s.l.	
	Mean time between failures (MTBF)	60,000 hours	
	Mean time to repair (MTTR)	30 minutes	
STANDARDS	Electromagnetic compatibility (EMC)	EN 61000-6-4; EN 61000-6-2	
	Safety	IEC 60950-1; IEC 61558-1	
	Marking	CE	
	Quality and Environmental management	ISO-9001 and ISO-14001 TÜV	

(1) Adjustable on demand (2) Optional

Data may change without previous notice.

## RANGE

MODEL	POWER (kVA/kW)	DIMENSIONS (D x W x H mm)	WEIGHT (Kg)
EMi2 M 5-2BM	5	423 x 536 x 318	67
EMi2 M 7,5-2BM	7.5	423 x 536 x 318	80
EMi2 M 10-2BM	10	691 x 493 x 716	93
EMi2 M 15-2BM	15	691 x 493 x 716	192
EMi2 M 20-2BM	20	723 x 560 x 865	203
EMi2 M 25-2BM	25	723 x 560 x 865	211
EMi2 M 30-2BM	30	1106 x 615 x 801	221

Lexicon, dimensions and weights for models: 230 V 50 Hz input/output, independent phase regulation and 25% entry margins.

MODEL	POWER (kVA/kW)	DIMENSIONS (D x W x H mm)	WEIGHT (Kg)
EMi2 T 15-4FBM	15	643 x 443 x 966	304
EMi2 T 20-4FBM	20	1000 x 546 x 1221	330
EMi2 T 30-4FBM	30	1000 x 546 x 1221	397
EMi2 T 45-4FBM	45	1080 x 614 x 1421	432
EMi2 T 60-4FBM	60	1080 x 614 x 1421	576
EMi2 T 75-4FBM	75	1080 x 614 x 1421	672
EMi2 T 90-4FBM	90	1729 x 885 x 1324	880
EMi2 T 110-4FBM	110	1729 x 885 x 1324	998
EMi2 T 140-4FBM	140	1729 x 885 x 1324	1200
EMi2 T 160-4FBM	160	2024 x 1105 x 1469	1400
EMi2 T 220-4FBM	220	2024 x 1105 x 1469	1600
EMi2 T 275-4FBM	275	2207 x 1574 x 1326	1920
EMi2 T 330-4FBM	330	2207 x 1574 x 1326	2400

Lexicon, dimensions and weights for models: 3 x 400 V 50 Hz input / 3 x 400 V 50 Hz output, independent phase regulation and 25% entry margins.

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

**SALICRU**  
AVDA. DE LA SERRA 100 - 08460 PALAUATORDERA - SPAIN - FAX +34 93 848 11 51