



Single-phase electronic Stabilizers
Digital controlled static voltage stabilizers
with independent regulators
on each phase without N

Series VSD/3000

Input 230(220) Vac $\pm 15\%$, $\pm 20\%$, -30% $+10\%$
Stabilized output 230(220) Vac $\pm 1\%$, $1,5\%$, $1,5\%$

Patented System n° 01309253 - n° 00109610.6

Technical features

- Input 230(220) Vac $\pm 15\%$, $\pm 20\%$, -30% $+10\%$
- Stabilized output 230(220) Vac $\pm 1\%$, $1,5\%$, $1,5\%$
- Frequency 50/60 Hz $\pm 2\%$
- Thermal magnetic switch or fuse protected
- Input/output on clamps
- Model VSD/3003 and up feature a voltage readout with a 3 digit digital voltmeter
- Input/output switchover readout pushbutton with LED indicator
- Containers with high level protection IP21 o IP31
- Ambient temperature $-20^{\circ} + 40^{\circ}$ °C
- Waveform null distortion $< 0,1\%$.
- Unaffected by power load factor
- Speed of response 9 ms/V
- Resistant to surge overloads, up to 5 In
- Natural or forces air ventilation, depending on the power, with internal thermostat
- Efficiency from 95 to 99 %

The series VSD/3000 or "Digistab", can be considered a new generation of stabilizers, offering an evolution to the stabilizer's classic electronics. The VSD stabilizers work with a similar principle as the electromechanical families, with all the qualities the latter offer. The substantial difference lays in the booster's supply system, offering a high electronic reliability.

The control is powered by a sophisticated microchip, along with simple hardware, where Varat was able to design a fast, silent and maintenance free machine. The digital voltmeter constantly controls the input power and stabilizes the output.

In the particular case of the VSD family, the output voltage is digitally stabilized with the precision of $\pm 1\%$ (patented system).

The advantage of this patented system is to be able to obtain a completely static stabilizer, with reduced dimensions, insensitive to surge overloads and which corrects the output in an almost continual manner, as the electromechanical units.

The speed response is approx. of 9 ms/V, according to IEC 86 standards. This value is already very low, but also slowed down as not having to be continually regulated, caused by variable power surges.

Waveform null distortion, and thus resistant to power overloads up to 5 In..

Digistab, when turned on, reads and shows the voltage power and brings it to the correct preset value.

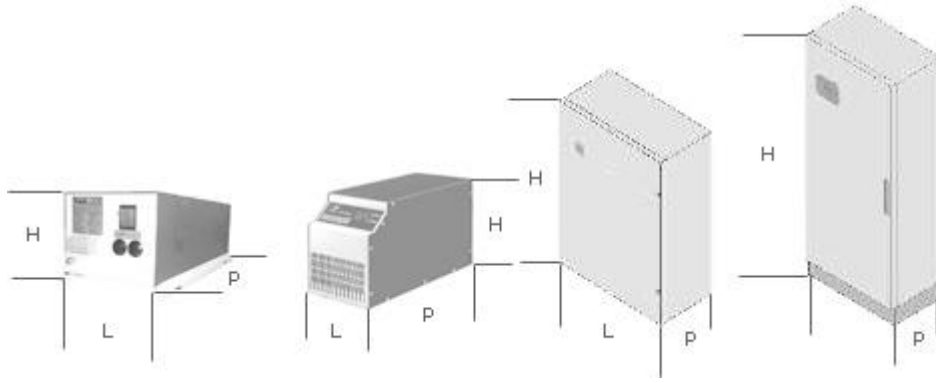
The input/output connections are on clamps and magneto-thermal or fuse controlled against overloads and short-circuiting.

Dimensions and drillings

Input: 230 V(220 V)± 15% [195,5 - 264,5] U: 230 V (220 V) ± 1% [228 - 232]								
Reference Number	Power	Nom. current (A)	Input current (A)	Dimensions			Weight Kg.	Fig.
				L	P	H		
VSD/3001	0,5	2,2	2,6	170	400	200	8	1
VSD/3002	1	4,5	5	170	400	200	11	1
VSD/3003	2	8,7	10	180	500	200	21,5	2
VSD/3004	3	13	15	180	500	200	23	2
VSD/3005	4	17	20	180	500	200	28	2
VSD/3006	5	22	25	180	500	200	32	2
VSD/3007	6	26	30	180	500	200	36	2
VSD/3008	7	30	36	500	250	700	45	3
VSD/3009	8	35	41	600	250	800	59	3
VSD/3010	10	43	51	600	300	800	66	4
VSD/3011	15	65	72	600	400	1300	74	4
VSD/3012	20	87	102	600	400	1600	93	4

Input: 230 V(220 V)± 20% [184 - 275] U: 230 V (220 V) ± 1,5% [226,5 - 233]								
Reference Number	Power	Nom. current (A)	Input current (A)	Dimensions			Weight Kg.	Fig.
				L	P	H		
VSD/3201	0,5	2,2	2,7	170	400	200	9,5	1
VSD/3202	1	4,5	5,4	180	500	200	16	2
VSD/3203	2	8,7	11	180	500	200	23	2
VSD/3204	3	13	16	180	500	200	27	2
VSD/3205	4	17	22	180	500	200	27,5	2
VSD/3206	5	22	27	500	250	700	47	3
VSD/3207	6	26	33	600	250	800	58	3
VSD/3208	7	30	38	600	300	1000	68	3
VSD/3209	8	35	43	600	400	1300	73	4
VSD/3210	10	43	54	600	400	1600	87	4
VSD/3211	15	65	82	600	400	1600	94	4
VSD/3212	20	87	108	600	400	1700	103	4

Input: 230 V(220 V) -30% +10% [161 - 253,5] U: 230 V (220 V) ± 1,5% [226,5 - 233]								
Reference number	Power	Nom. current (A)	Input current (A)	Dimensions			Weight Kg.	Fig.
				L	P	H		
VSD/3301	0,5	2,2	3,2	170	400	200	10	1
VSD/3302	1	4,5	6,5	180	500	200	20	2
VSD/3303	2	8,7	13	180	500	200	22,5	2
VSD/3304	3	13	19	180	500	200	26	2
VSD/3305	4	17	26	500	250	700	32	3
VSD/3306	5	22	32	600	250	800	46	3
VSD/3307	6	26	39	600	300	800	63	3
VSD/3308	7	30	45	600	300	1200	75	3
VSD/3309	8	35	52	600	400	1300	86	4
VSD/3310	10	43	65	600	400	1300	92	4
VSD/3311	15	65	97	600	400	1600	99	4
VSD/3312	20	87	130	600	400	1700	110	4



The data indicated could change without notice