

## Three-phase electronic stabilizer

### VDT/3000 Family - Megadigistab

Three-phase digital controlled static stabilizers with star connected independent regulators + Neutral



- Three-phase digital controlled stabilizer
- Totally static control
- Patented regulating system
- Input voltage 400 (380) V +N  $\pm 15\%$ ,  $\pm 20\%$ , -30+10 %
- Output voltage 400 (380) V + N  $\pm 1\%$ ,  $\pm 1,5\%$
- Frequency 50/60 Hz  $\pm 2\%$
- Obligatory to connect network neutral
- Input/Output on clamps or Cu bar
- Magneto-thermal or fuse power protected
- VDT/3003 family features phase voltage readout with 3 digit digital display
- Input/Output LED switchover pushbutton
- Ambient temperature  $-20^{\circ}$   $+40^{\circ}$  °C
- Waveform null distortion  $< 0,1\%$
- Unaffected by power load factor
- Speed response 9 ms/V
- EMC filters in Input and Output
- Resistant to surge overloads 5 In. approx.
- Forced air controlled by internal thermostat
- Efficiency from 95 to 99 %

The VST/3000 Family, or **Megadigistab**, are part of the new AC/DC generation of stabilizers.

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Varat Tunisie

Z.I. Route du Bac – 2040 Radès – tunisie

Tél : 71 448 525 – 71 469 345 – Fax : 71 449 882

E-mail : [varat@planet.tn](mailto:varat@planet.tn) – Site Web : [www.varat-tunisie.com](http://www.varat-tunisie.com)

This particular family does not have mechanical parts, thus free of movement wear, and presenting a high level of reliability and efficiency. It also maintains the quality of the regulating system with booster transformers.

The control is powered by a sophisticated microchip and simple and reliable hardware, thus allowing VARAT to design a fast, silent maintenance free machine, with very high power levels, which can reach 1,5 MVA.

The digital and static control constantly balance the input power and stabilizes the output.

This family also features a high speed response, swing free, high precision and overload free at the moment of turning on. The speed response is approx. of 9 ms/V, according to CEI 562-4 e IEC 686 standards.

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.

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..

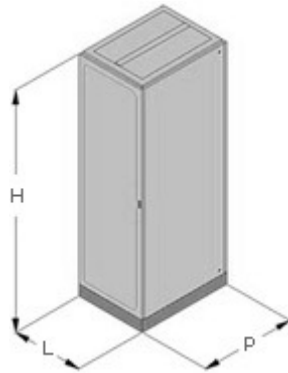
**Megadigistab**, when turned on, reads and shows the voltage power and brings it to the correct preset value.

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

It also features a step-type conditioning, where the lowest level for a power voltage of 230 V is 2,3 V (1%)

The three phases are controlled separately and have a neutral reference, which is necessary for high unbalanced loads.

The control and regulating system are a VARAT patent and are used for all single and three-phase stabilizers.



Reference Number	Power	Nom. Corr. (A)	Dimensions			Weight Kg	Fig
			P	L	H		
<b>Input voltage 400 (380) V ± 15% +N</b> <b>Output voltage 400 (380) V ± 1% +N</b>							
VDT/3001	1,5 kVA	2,2	400	200	500	28	1
VDT/3002	3 kVA	4,3	400	250	600	43	1
VDT/3003	6 kVA	8,7	500	250	700	65	1
VDT/3004	9 kVA	13,0	600	250	800	73	1

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VDT/3005	12 kVA	17,4	600	250	1000	86	1
VDT/3006	15 kVA	21,7	600	400	1300	92	2
VDT/3007	20 kVA	28,9	800	400	1300	142	2
VDT/3008	25 kVA	36,1	600	400	1600	163	2
VDT/3009	30 kVA	43,5	600	400	1700	205	2
VDT/3010	50 kVA	72,2	600	400	1900	228	2
VDT/3011	75 kVA	108	800	500	1900	271	2
VDT/3012	100 kVA	144	1200	600	2100	315	2
VDT/3013	125 kVA	180	1400	600	2100	375	2
VDT/3014	150 kVA	216	1400	600	2100	405	2
VDT/3015	200 kVA	288	1600	600	2100	580	2
VDT/3016	250 kVA	360	2000	800	2100	650	3
VDT/3017	300 kVA	433	2400	800	2100	1100	3
VDT/3018	400 kVA	577	2600	800	2100	1230	3
VDT/3019	500 kVA	721	2600	800	2100	1450	3
VDT/3020	600 kVA	866	3000	800	2100	1850	3
VDT/3021	800 kVA	1.154	3200	800	2100	2250	3
VDT/3022	1 MVA	1.443	3800	800	2100	3200	3
VDT/3023	1,25 MVA	1.804	4800	800	2100	3330	3
VDT/3024	1,5 MVA	2.165	5400	800	2100	4250	3
<b>Input voltage 400 (380) V ± 20% +N Output voltage 400 (380) V ± 1,5% +N</b>							
VDT/3201	1,5 kVA	2,2	400	200	600	39	1
VDT/3202	3 kVA	4,3	500	250	700	58	1
VDT/3203	6 kVA	8,7	600	250	800	71	1
VDT/3204	9 kVA	13,0	600	250	1000	88	1
VDT/3205	12 kVA	17,4	600	400	1300	90	1
VDT/3206	15 kVA	21,7	800	400	1300	135	1
VDT/3207	20 kVA	28,9	600	400	1600	159	1
VDT/3208	25 kVA	36,1	600	400	1700	197	1
VDT/3209	30 kVA	43,5	600	400	1900	212	1
VDT/3210	50 kVA	72,2	600	500	1900	267	2
VDT/3211	75 kVA	108	800	600	2100	308	2
VDT/3212	100 kVA	144	1200	600	2100	366	2
VDT/3213	125 kVA	180	1400	600	2100	398	2
VDT/3214	150 kVA	216	1600	600	2100	525	2
VDT/3215	200 kVA	288	2000	800	2100	615	3
VDT/3216	250 kVA	360	2400	800	2100	1095	3
VDT/3217	300 kVA	433	2600	800	2100	1188	3
VDT/3218	400 kVA	577	2600	800	2100	1386	3
VDT/3219	500 kVA	721	3000	800	2100	1894	3
VDT/3220	600 kVA	866	3200	800	2100	2266	3
VDT/3221	800 kVA	1.154	3800	800	2100	3355	3

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VDT/3222	1 MVA	1.443	4800	800	2100	3852	3
<b>Input voltage 400 (380) V -30% +10% +N</b>							
<b>Output voltage 400 (380) V ± 1,5% +N</b>							
VDT/3301	1,5 kVA	2,2	400	200	600	35	1
VDT/3302	3 kVA	4,3	500	250	700	58	1
VDT/3303	6 kVA	8,7	600	250	800	73	1
VDT/3304	9 kVA	13,0	600	250	1000	81	1
VDT/3305	12 kVA	17,4	600	400	1300	99	1
VDT/3306	15 kVA	21,7	600	400	1300	145	1
VDT/3307	20 kVA	28,9	600	400	1600	205	1
VDT/3308	25 kVA	36,1	600	400	1700	225	1
VDT/3309	30 kVA	43,5	600	400	1900	247	2
VDT/3310	50 kVA	72,2	800	500	1900	295	2
VDT/3311	75 kVA	108	1400	600	2100	390	2
VDT/3312	100 kVA	144	1400	600	2100	475	2
VDT/3313	125 kVA	180	1600	600	2100	620	2
VDT/3314	150 kVA	216	2000	800	2100	735	3
VDT/3315	200 kVA	288	2400	800	2100	1150	3
VDT/3316	250 kVA	360	2600	800	2100	1380	3
VDT/3317	300 kVA	433	2600	800	2100	1550	3
VDT/3318	400 kVA	577	3000	800	2100	1980	3
VDT/3319	500 kVA	721	3200	800	2100	2330	3
VDT/3320	600 kVA	866	3800	800	2100	3280	3
VDT/3321	800 kVA	1.154	4800	800	2100	3420	3
VDT/3322	1 MVA	1.443	5400	800	2100	4300	3

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