Three-phase digital controlled static stabilizers with independent regulators on each phase without neutral

Series VDU/3000

Power from 1,5kVA to 1,5MVA
Input 400 (380) V +N ±15 %, ±20 %, -30+10 %
Output 400 (380) V + N± 1 %, ± 1,5 %

Patented System n° 01309253 - n° 00109610.6

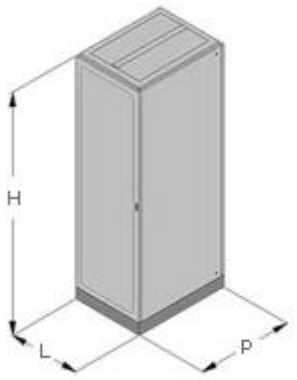
Technical features

- Three-phase digital controlled stabilizer
- Input voltage 400 (380) V ±15 %, ±20 %, -30+10 %
- Output voltage 400 (380) V ± 1 %, ± 1,5 %
- Frequency 50/60 Hz ± 2%
- Totally static control
- Patented regulating system
- Input/Output on clamps
- Magneto-thermal or fuse power protected
- VDU/3003 family features phase voltage readout with 3 digit digital display
- Input/Output LED switchover pushbutton
- Ambient temperature –20 +40 °C
- Waveform null distortion < 0,1 %.
- Unaffected by power load factor
- Speed response 9 ms/V
- Resistant to surge overloads 5 In. approx.
- Efficiency from 89 to 98 %

The VDU/3000 Family, or **Megadigistab**, are part of the new AC/DC generation of stabilizers.
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 automatically created, if non present in the network, thanks to a particular auto transformer, which can face high unbalanced loads.
The control and regulating system are a VARAT patent and are used for all single and three-phase stabilizers.

Dimensions and drillings

Input voltage 400 (380) V ± 15% +N Output voltage 400 (380) V ± 1% +N						
Reference Number	Power	Nom. current (A)	Dimensions			Weight Kg.
			L	P	H	
VDU/3001	1,5 kVA	2,2	300	200	500	27,5
VDU/3002	3 kVA	4,3	400	250	600	42,9
VDU/3003	6 kVA	8,7	500	250	650	61,5
VDU/3004	9 kVA	13,0	500	250	800	76,6
VDU/3005	12 kVA	17,3	600	250	800	90
VDU/3006	15 kVA	21,7	600	400	1000	105
VDU/3007	20 kVA	28,9	600	350	1400	149
VDU/3008	25 kVA	36,1	600	350	1400	171
VDU/3009	30 kVA	43,3	600	350	1700	215
VDU/3010	50 kVA	72,2	600	350	1700	239
VDU/3011	75 kVA	108	800	600	2000	285
VDU/3012	100 kVA	144	1200	600	2100	315
VDU/3013	125 kVA	180	1400	600	2100	375
VDU/3014	150 kVA	216	1400	600	2100	405
VDU/3015	200 kVA	288	1600	600	2100	580
VDU/3016	250 kVA	360	2000	800	2100	650
VDU/3017	300 kVA	433	2400	800	2100	1100
VDU/3018	400 kVA	577	2600	800	2100	1230
VDU/3019	500 kVA	721	2600	800	2100	1450
VDU/3020	600 kVA	866	3000	800	2100	1850
VDU/3021	800 kVA	1.154	3200	800	2100	2250
VDU/3022	1 MVA	1.443	3800	800	2100	3200
VDU/3023	1,25 MVA	1.804	4800	800	2100	3330
VDU/3024	1,5 MVA	2.165	5400	800	2100	4250



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