

# Three phase automatic voltage Stabilizers



Three phase automatic voltage stabilizers consist of a buck-boost transformer and motor driven variable autotransformer with common phase or individual phase regulation.

Torytrans voltage stabilizers provide a fast speed response time against voltage fluctuations and variation of power consumed by load. In this way, our stabilizers avoid malfunctioning and failures of equipment and installations caused by these voltage fluctuations.

Output voltage display and switch circuit breaker ON/OFF at the front panel.

No harmonic distortion and protected against short circuits and overloads.

Series STA and STFA includes line conditioner transformer with galvanic insulation and electrostatic shield, providing a stable output voltage and attenuation and filtering of electromagnetic disturbances.

#### Applications:

- Data centers, processing and computer rooms.
- Transmissions, telecommunications and radio.
- Hospitals and medical centers.
- Lifts, escalators, offices, hotels and shops.
- Motors, industrial machines, lasers and robots.
- Any electronic or electric equipment sensitive to voltage variations.

#### Technical characteristics

Power rating	1 ÷ 100 kVA
Input voltage	3 x 400 V + N
Input margin	± 15 %
Output voltage	3 x 400 V + N
Output accuracy	± 1 %
Response time	≈ 20 V/s
Frequency	50/60 Hz
Ambient temperature	30 °C
Protection degree	IP-23
Service	Continuous
Harmonic distortion	Nil
Load-break switch	ON/OFF
Efficiency	> 95%
Standard	IEC/UNE-EN 61439-1



Power rating ≤ 40 kVA:  
IEC /UNE-EN 61558-1

Power rating > 40 kVA:  
IEC /UNE-EN 60076-11

#### OPTIONAL:

- Enclosure for high protection degree (IP54).
- External Bypass switch.
- Additional power meter and monitoring.
- Protection against transitory surges.
- Wall mounting design.

\*Customized stabilizer and features on request.

# SERIES ST-STF

## Series ST Three phase - Common control

Rating kVA	Ref.	Dimensions mm			Weight kg
		A	B	C	
1	ST01	370	225	375	16
2	ST02	450	260	430	20
3	ST03	450	260	430	26
5	ST05	450	260	430	30
7,5	ST07	450	260	430	33
10	ST10	520	310	588	36
15	ST15	520	310	588	36
20	ST20	590	350	665	71
30	ST30	590	350	665	114
40	ST40	750	450	915	126
50	ST50	930	640	1255	195
60	ST60	930	640	1255	165
80	ST80	930	640	1255	190
100	ST100	930	640	1255	205

## Series STF Three phase - Phase control

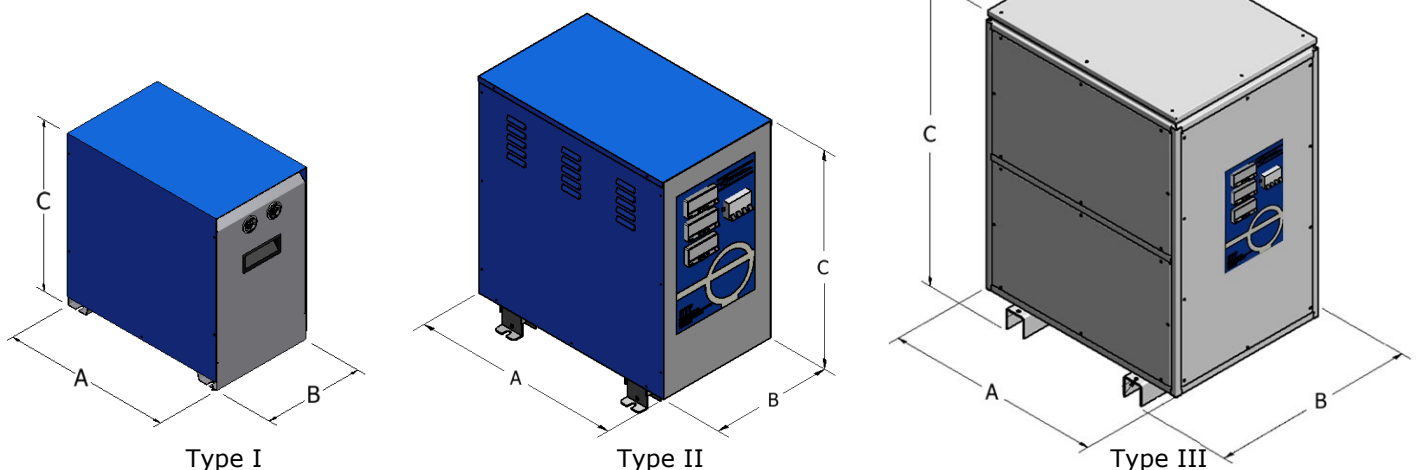
Rating kVA	Ref.	Dimensions mm			Weight kg
		A	B	C	
1	STF01	370	225	375	16
2	STF02	450	260	430	35
3	STF03	590	340	600	40
5	STF05	590	340	600	46
7,5	STF07	750	440	850	74
10	STF10	750	440	850	77
15	STF15	750	440	850	98
20	STF20	750	440	850	107
30	STF30	930	710	1275	168
40	STF40	930	710	1275	225
50	STF50	1070	880	1460	283
60	STF60	1070	880	1460	304
80	STF80	1280	1080	1520	351
100	STF100	1280	1080	1520	450

## Series STA Three phase - Common control Line conditioner

Rating kVA	Ref.	Dimensions mm			Weight kg
		A	B	C	
1	STA01	450	260	430	28
2	STA02	450	260	430	40
3	STA03	450	260	430	52
5	STA05	520	300	525	70
7,5	STA07	520	300	525	87
10	STA10	590	340	600	110
15	STA15	750	440	850	163
20	STA20	750	440	850	200
30	STA30	930	710	1275	284
40	STA40	1070	880	1460	343
50	STA50	1070	880	1460	429
60	STA60	1070	880	1460	440
80	STA80	1070	880	1460	517
100	STA100	1070	880	1460	585

## Series STFA Three phase - Phase control Line conditioner

Rating kVA	Ref.	Dimensions mm			Weight kg
		A	B	C	
1	STFA01	450	260	430	95
2	STFA02	590	340	600	105
3	STFA03	750	440	850	129
5	STFA05	750	440	850	180
7,5	STFA07	750	440	850	209
10	STFA10	930	710	1275	255
15	STFA15	930	710	1275	363
20	STFA20	930	710	1275	447
30	STFA30	1070	880	1460	673
40	STFA40	1070	880	1460	850
50	STFA50	1280	1080	1520	1008
60	STFA60	1280	1080	1520	1089
80	STFA80	1280	1080	1520	1251
100	STFA100	1280	1080	1520	1470



- \* Other features, power, voltage, etc., on request.
- \* Torytrans reserves the right to modify the information in any time and without prior notice.
- \* Type II enclosure includes wheels.