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Spänningsstabilisatorer  
*Voltage Stabilisers*

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*3-fas / three phase*

type Orion-A: 5 - 135 kVA

type Orion-Y: 5 - 230 kVA

type Orion-Plus: 150 - 1000 kVA



## ORION

The ORION stabiliser covers the power rating range between 2kVA and 450kVA and allows for the choice of several input voltage variation percentages within a broad range from +30% up to -45%.

For  $\pm 15\%$  and  $\pm 20\%$  range, the change of stabilisation is obtained through different internal connections.

These stabilisers can be provided with two types of regulation.

The regulation in the ORION Y stabilisers is independent on each phase. These stabilisers are used with three-phase loads and single-phase loads with 100% unbalance with unbalance input rated voltage. In this configuration the voltage stabiliser requires the neutral wire presence.

The regulation in the ORION A stabilisers is performed on the average three-phase voltage. These stabilisers are used with three-phase loads and two-phase loads with 50% maximum unbalance and balance input rated voltage. In this configuration the voltage stabiliser does not require the neutral wire presence.

Fuses or automatic circuit breakers are provided on the regulation circuit to protect against overload and short circuit on the voltage regulator.

The auxiliary circuit is protected by fuses.

Where provided, a buzzer is activated whenever an overload condition occurs.

The measuring instrumentation for the ORION stabilisers mounted on the cabinet door and consists of a **multitask digital network analyser**. Such instrument is able to provide with information regarding the status of the line downstream the voltage stabiliser such as phase and linked voltages, current, power factor, active power, apparent power, reactive power, etc.

**The logic control is based on a microprocessor.**

### ORION A STANDARD FEATURES

<b>FREQUENCY</b>	<b>47/65Hz</b>
<b>ADMITTED LOAD VARIATION</b>	<b>from 0 to 100%</b>
<b>ADMITTED LOAD UNBALANCE</b>	<b>up to 50%</b>
<b>MAINS WAVEFORM DISTORTION INCREMENT</b>	<b>&lt; 0.2%</b>
<b>COOLING</b>	<b>Aided air</b>
<b>AMBIENT TEMPERATURE</b>	<b>-15/+45 °C</b>
<b>STORAGE TEMPERATURE</b>	<b>-25/+60°C</b>
<b>RELATIVE HUMIDITY</b>	<b>95%</b>
<b>ADMITTED OVERLOAD</b>	<b>200% 2min</b>
<b>COLOUR</b>	<b>RAL 7035</b>
<b>PROTECTION</b>	<b>IP 21</b>
<b>INSTALLATION</b>	<b>Indoor</b>

### RATING IN RELATION TO THE INPUT VARIATION PERCENTAGE

$\pm 15\%$	$\pm 20\%$	$\pm 25\%$	$\pm 30\%$	-25/+15%	-35/+15%	-45/+15%
5	4	3	2	4	3	2
10	7	4	3	7	4	3
15	10	7	4	10	7	4
20	15	10	7	15	10	7
30	20	15	10	20	15	10
45	30	20	15	30	20	15
60	45	30	20	45	30	20
75	60	45	30	60	45	30
105	75	60	45	75	60	45
135	105	75	60	105	75	60

Any other variation range not mentioned in the table above can be dealt with on request.



### ORION A ±15% AUTOMATIC THREPHASE VOLTAGE STABILISER

TYPE	RATED POWER [kVA]	INPUT VOLTAGE ±15% [V]	MAX INPUT CURRENT [A]	OUTPUT VOLTAGE ±1% [V]	RATED OUTPUT CURRENT [A]	EFFICIENCY [%]	RESPONSE TIME [ms/V]	CABINET TYPE	WEIGHT [kg]
A5-15	5	400	8	400	7	>95	16	22	50
A10-15	10	400	16	400	14	>96	16	22	60
A15-15	15	400	25	400	21	>97	16	23	100
A20-15	20	400	33	400	28	>98	16	23	120
A30-15	30	400	50	400	43	>98	16	23	160
A45-15	45	400	76	400	65	>98	16	24	180
A60-15	60	400	102	400	87	>98	18	24	250
A75-15	75	400	126	400	108	>98	18	24	260
A105-15	105	400	176	400	152	>98	18	25	350
A135-15	135	400	229	400	195	>98	18	25	500

### ORION A ±20% AUTOMATIC THREPHASE VOLTAGE STABILISER

TYPE	RATED POWER [kVA]	INPUT VOLTAGE ±20% [V]	MAX INPUT CURRENT [A]	OUTPUT VOLTAGE ±1% [V]	RATED OUTPUT CURRENT [A]	EFFICIENCY [%]	RESPONSE TIME [ms/V]	CABINET TYPE	WEIGHT [kg]
A4-20	4	400	7	400	6	>95	12	22	50
A7-20	7	400	13	400	10	>96	12	22	60
A10-20	10	400	17	400	14	>97	12	23	100
A15-20	15	400	26	400	21	>98	12	23	120
A20-20	20	400	36	400	29	>98	12	23	160
A30-20	30	400	54	400	43	>98	12	24	180
A45-20	45	400	81	400	65	>98	14	24	250
A60-20	60	400	107	400	86	>98	14	24	260
A75-20	75	400	135	400	108	>98	14	25	350
A105-20	105	400	187	400	150	>98	14	25	500

### ORION A ±25% AUTOMATIC THREPHASE VOLTAGE STABILISER

TYPE	RATED POWER [kVA]	INPUT VOLTAGE ±25% [V]	MAX INPUT CURRENT [A]	OUTPUT VOLTAGE ±1% [V]	RATED OUTPUT CURRENT [A]	EFFICIENCY [%]	RESPONSE TIME [ms/V]	CABINET TYPE	WEIGHT [kg]
A3-25	3	400	6	400	4	>96	10	22	50
A4-25	4	400	8	400	6	>97	10	22	60
A7-25	7	400	13	400	10	>98	10	23	100
A10-25	10	400	19	400	14	>98	10	23	120
A15-25	15	400	29	400	22	>98	10	23	160
A20-25	20	400	38	400	29	>98	10	24	180
A30-25	30	400	57	400	43	>98	11	24	250
A45-25	45	400	86	400	65	>98	11	24	260
A60-25	60	400	115	400	86	>98	11	25	350
A75-25	75	400	144	400	108	>98	11	25	500



### ORION A $\pm 30\%$ AUTOMATIC THREPHASE VOLTAGE STABILISER

TYPE	RATED POWER [kVA]	INPUT VOLTAGE $\pm 30\%$ [V]	MAX INPUT CURRENT [A]	OUTPUT VOLTAGE $\pm 1\%$ [V]	RATED OUTPUT CURRENT [A]	EFFICIENCY [%]	RESPONSE TIME [ms/V]	CABINET TYPE	WEIGHT [kg]
A2-30	2	400	4	400	3	<96	8	22	50
A3-30	3	400	6	400	4	>96	8	22	60
A4-30	4	400	8	400	6	>97	8	23	100
A7-30	7	400	14	400	10	>98	8	23	120
A10-30	10	400	20	400	14	>98	8	23	160
A15-30	15	400	31	400	22	>98	8	24	180
A20-30	20	400	41	400	29	>98	9	24	250
A30-30	30	400	61	400	43	>98	9	24	260
A45-30	45	400	93	400	65	>98	9	25	350
A60-30	60	400	123	400	87	>98	9	25	500

### ORION A -25%/ +15% AUTOMATIC THREPHASE VOLTAGE STABILISER

TYPE	RATED POWER [kVA]	INPUT VOLTAGE -25/+15% [V]	MAX INPUT CURRENT [A]	OUTPUT VOLTAGE $\pm 1\%$ [V]	RATED OUTPUT CURRENT [A]	EFFICIENCY [%]	RESPONSE TIME [ms/V]	CABINET TYPE	WEIGHT [kg]
A4-15/25	4	400	8	400	6	>94	12	22	60
A7-15/25	7	400	13	400	10	>95	12	22	70
A10-15/25	10	400	19	400	14	>96	12	23	115
A15-15/25	15	400	27	400	22	>97	12	23	140
A20-15/25	20	400	39	400	29	>97	12	23	185
A30-15/25	30	400	57	400	43	>97	12	24	215
A45-15/25	45	400	87	400	65	>97	14	24	265
A60-15/25	60	400	116	400	87	>97	14	24	300
A75-15/25	75	400	144	400	108	>97	14	25	390
A105-15/25	105	400	202	400	152	>97	14	25	560

### ORION A -35%/ +15% AUTOMATIC THREPHASE VOLTAGE STABILISER

TYPE	RATED POWER [kVA]	INPUT VOLTAGE -35/+15% [V]	MAX INPUT CURRENT [A]	OUTPUT VOLTAGE $\pm 1\%$ [V]	RATED OUTPUT CURRENT [A]	EFFICIENCY [%]	RESPONSE TIME [ms/V]	CABINET TYPE	WEIGHT [kg]
A3-15/35	3	400	7	400	4	>94	10	22	60
A4-15/35	4	400	9	400	6	>95	10	22	70
A7-15/35	7	400	15	400	10	>96	10	23	115
A10-15/35	10	400	21	400	14	>97	10	23	140
A15-15/35	15	400	33	400	22	>97	10	23	185
A20-15/35	20	400	44	400	29	>97	10	24	215
A30-15/35	30	400	66	400	43	>97	11	24	290
A45-15/35	45	400	100	400	65	>97	11	24	305
A60-15/35	60	400	133	400	87	>97	11	25	410
A75-15/35	75	400	166	400	108	>97	11	25	570

**ORION A-45%/+15% AUTOMATIC THREPHASE VOLTAGE STABILISER**

TYPE	RATED POWER [kVA]	INPUT VOLTAGE -45/+15% [V]	MAX INPUT CURRENT [A]	OUTPUT VOLTAGE ±1% [V]	RATED OUTPUT CURRENT [A]	EFFICIENCY [%]	RESPONSE TIME [ms/V]	CABINET TYPE	WEIGHT [kg]
<b>A2-15/45</b>	2	400	5	400	3	>94	8	22	60
<b>A3-15/45</b>	3	400	8	400	4	>95	8	22	75
<b>A4-15/45</b>	4	400	10	400	6	>95	8	23	120
<b>A7-15/45</b>	7	400	18	400	10	>96	8	23	145
<b>A10-15/45</b>	10	400	25	400	14	>97	8	23	190
<b>A15-15/45</b>	15	400	39	400	22	>97	8	24	215
<b>A20-15/45</b>	20	400	52	400	29	>97	9	24	295
<b>A30-15/45</b>	30	400	79	400	43	>97	9	24	315
<b>A45-15/45</b>	45	400	118	400	65	>97	9	25	420
<b>A60-15/45</b>	60	400	158	400	87	>97	9	25	600



The technical data in the above tables are subject to change by the Company either for internal reasons or because of a specific request from the Customer  
 Input output voltage 50Hz: 380/415V - Input output voltage 60Hz: 460/480V



### ORION Y STANDARD FEATURES

<b>FREQUENCY</b>	<b>47/65Hz</b>
<b>ADMITTED LOAD VARIATION</b>	<b>from 0 to 100%</b>
<b>ADMITTED LOAD UNBALANCE</b>	<b>up to 100%</b>
<b>MAINS WAVEFORM DISTORTION INCREMENT</b>	<b>&lt; 0.2%</b>
<b>COOLING</b>	<b>Aided Air</b>
<b>AMBIENT TEMPERATURE</b>	<b>-15/+45 °C</b>
<b>STORAGE TEMPERATURE</b>	<b>-25/+60°C</b>
<b>RELATIVE HUMIDITY</b>	<b>95%</b>
<b>ADMITTED OVERLOAD</b>	<b>200% 2min</b>
<b>COLOUR</b>	<b>RAL 7035</b>
<b>PROTECTION</b>	<b>IP 21</b>
<b>INSTALLATION</b>	<b>Indoor</b>

### RATING IN RELATION TO THE INPUT VARIATION PERCENTAGE

±15%	±20%	±25%	±30%	-25/+15%	-35/+15%	-45/+15%
5	4	3	2	4	3	2
10	7	4	3	7	4	3
15	10	7	4	10	7	4
20	15	10	7	15	10	7
30	20	15	10	20	15	10
45	30	20	15	30	20	15
60	45	30	20	45	30	20
75	60	45	30	60	45	30
105	75	60	45	75	60	45
135	105	75	60	105	75	60
175	135	105	75	135	105	75
230	175	135	105	175	135	105

Any other variation range not mentioned in the table above can be dealt with on request.

### ORION Y ±15% AUTOMATIC THREPHASE VOLTAGE STABILISER

TYPE	RATED POWER [kVA]	INPUT VOLTAGE ±15% [V]	MAX INPUT CURRENT [A]	OUTPUT VOLTAGE ±1% [V]	RATED OUTPUT CURRENT [A]	EFFICIENCY [%]	RESPONSE TIME [ms/V]	CABINET TYPE	WEIGHT [kg]
Y5-15	5	400	8	400	7	>95	16	22	70
Y10-15	10	400	16	400	14	>96	16	22	75
Y15-15	15	400	25	400	21	>97	16	23	140
Y20-15	20	400	33	400	28	>98	16	23	145
Y30-15	30	400	50	400	43	>98	16	23	170
Y45-15	45	400	76	400	65	>98	16	23	190
Y60-15	60	400	102	400	87	>98	18	24	260
Y75-15	75	400	126	400	108	>98	18	24	350
Y105-15	105	400	176	400	152	>98	18	25	420
Y135-15	135	400	229	400	195	>98	18	25	510
Y175-15	175	400	297	400	253	>98	18	25	610
Y230-15	230	400	390	400	332	>98	18	26	900



### ORION Y $\pm 20\%$ AUTOMATIC THREPHASE VOLTAGE STABILISER

TYPE	RATED POWER [kVA]	INPUT VOLTAGE $\pm 20\%$ [V]	MAX INPUT CURRENT [A]	OUTPUT VOLTAGE $\pm 1\%$ [V]	RATED OUTPUT CURRENT [A]	EFFICIENCY [%]	RESPONSE TIME [ms/V]	CABINET TYPE	WEIGHT [kg]
Y4-20	4	400	7	400	6	>95	12	22	70
Y7-20	7	400	13	400	10	>96	12	22	75
Y10-20	10	400	17	400	14	>97	12	23	140
Y15-20	15	400	26	400	21	>98	12	23	145
Y20-20	20	400	36	400	29	>98	12	23	170
Y30-20	30	400	54	400	43	>98	12	23	190
Y45-20	45	400	81	400	65	>98	14	24	260
Y60-20	60	400	107	400	86	>98	14	24	350
Y75-20	75	400	135	400	108	>98	14	25	420
Y105-20	105	400	187	400	150	>98	14	25	510
Y135-20	135	400	244	400	195	>98	14	25	610
Y175-20	175	400	316	400	253	>98	14	26	900

### ORION Y $\pm 25\%$ AUTOMATIC THREPHASE VOLTAGE STABILISER

TYPE	RATED POWER [kVA]	INPUT VOLTAGE $\pm 25\%$ [V]	MAX INPUT CURRENT [A]	OUTPUT VOLTAGE $\pm 1\%$ [V]	RATED OUTPUT CURRENT [A]	EFFICIENCY [%]	RESPONSE TIME [ms/V]	CABINET TYPE	WEIGHT [kg]
Y3-25	3	400	6	400	4	>96	10	22	70
Y4-25	4	400	8	400	6	>97	10	22	75
Y7-25	7	400	13	400	10	>98	10	23	140
Y10-25	10	400	19	400	14	>98	10	23	145
Y15-25	15	400	29	400	22	>98	10	23	170
Y20-25	20	400	38	400	29	>98	10	23	190
Y30-25	30	400	57	400	43	>98	11	24	260
Y45-25	45	400	86	400	65	>98	11	24	350
Y60-25	60	400	115	400	86	>98	11	25	420
Y75-25	75	400	144	400	108	>98	11	25	510
Y105-25	105	400	203	400	152	>98	11	25	610
Y135-25	135	400	260	400	195	>98	11	26	900

### ORION Y $\pm 30\%$ AUTOMATIC THREPHASE VOLTAGE STABILISER

TYPE	RATED POWER [kVA]	INPUT VOLTAGE $\pm 30\%$ [V]	MAX INPUT CURRENT [A]	OUTPUT VOLTAGE $\pm 1\%$ [V]	RATED OUTPUT CURRENT [A]	EFFICIENCY [%]	RESPONSE TIME [ms/V]	CABINET TYPE	WEIGHT [kg]
Y2-30	2	400	4	400	3	<96	8	22	70
Y3-30	3	400	6	400	4	>96	8	22	75
Y4-30	4	400	8	400	6	>97	8	23	140
Y7-30	7	400	14	400	10	>98	8	23	145
Y10-30	10	400	20	400	14	>98	8	23	170
Y15-30	15	400	31	400	22	>98	8	23	190
Y20-30	20	400	41	400	29	>98	9	24	260
Y30-30	30	400	61	400	43	>98	9	24	350
Y45-30	45	400	93	400	65	>98	9	25	420
Y60-30	60	400	123	400	87	>98	9	25	510
Y75-30	75	400	154	400	108	>98	9	25	610
Y105-30	105	400	217	400	152	>98	9	26	900



### ORION Y-25%/+15% AUTOMATIC THREPHASE VOLTAGE STABILISER

TYPE	RATED POWER [kVA]	INPUT VOLTAGE -25/+15% [V]	MAX INPUT CURRENT [A]	OUTPUT VOLTAGE ±1% [V]	RATED OUTPUT CURRENT [A]	EFFICIENCY [%]	RESPONSE TIME [ms/V]	CABINET TYPE	WEIGHT [kg]
Y4-15/25	4	400	8	400	6	>94	12	22	75
Y7-15/25	7	400	13	400	10	>95	12	22	85
Y10-15/25	10	400	19	400	14	>96	12	23	155
Y15-15/25	15	400	27	400	22	>97	12	23	165
Y20-15/25	20	400	39	400	29	>97	12	23	195
Y30-15/25	30	400	57	400	43	>97	12	23	220
Y45-15/25	45	400	87	400	65	>97	14	24	295
Y60-15/25	60	400	116	400	87	>97	14	24	395
Y75-15/25	75	400	144	400	108	>97	14	25	470
Y105-15/25	105	400	202	400	152	>97	14	25	570
Y135-15/25	135	400	260	400	195	>97	14	25	680
Y175-15/25	175	400	337	400	253	>97	14	26	1000

### ORION Y-35%/+15% AUTOMATIC THREPHASE VOLTAGE STABILISER

TYPE	RATED POWER [kVA]	INPUT VOLTAGE -35/+15% [V]	MAX INPUT CURRENT [A]	OUTPUT VOLTAGE ±1% [V]	RATED OUTPUT CURRENT [A]	EFFICIENCY [%]	RESPONSE TIME [ms/V]	CABINET TYPE	WEIGHT [kg]
Y3-15/35	3	400	7	400	4	>94	10	22	75
Y4-15/35	4	400	9	400	6	>95	10	22	85
Y7-15/35	7	400	15	400	10	>96	10	23	155
Y10-15/35	10	400	21	400	14	>97	10	23	165
Y15-15/35	15	400	33	400	22	>97	10	23	195
Y20-15/35	20	400	44	400	29	>97	10	23	225
Y30-15/35	30	400	66	400	43	>97	11	24	300
Y45-15/35	45	400	100	400	65	>97	11	24	395
Y60-15/35	60	400	133	400	87	>97	11	25	480
Y75-15/35	75	400	166	400	108	>97	11	25	580
Y105-15/35	105	400	234	400	152	>97	11	25	705
Y135-15/35	135	400	300	400	195	>97	11	26	1020

### ORION Y-45%/+15% AUTOMATC THREE-PHASE VOLTAGE STABILISER

TYPE	RATED POWER [kVA]	INPUT VOLTAGE -45/+15% [V]	MAX INPUT CURRENT [A]	OUTPUT VOLTAGE ±1% [V]	RATED OUTPUT CURRENT [A]	EFFICIENCY [%]	RESPONSE TIME [ms/V]	CABINET TYPE	WEIGHT [kg]
Y2-15/45	2	400	5	400	3	>94	8	22	80
Y3-15/45	3	400	8	400	4	>95	8	22	90
Y4-15/45	4	400	10	400	6	>95	8	23	160
Y7-15/45	7	400	18	400	10	>96	8	23	170
Y10-15/45	10	400	25	400	14	>97	8	23	200
Y15-15/45	15	400	39	400	22	>97	8	23	225
Y20-15/45	20	400	52	400	29	>97	9	24	305
Y30-15/45	30	400	79	400	43	>97	9	24	405
Y45-15/45	45	400	118	400	65	>97	9	25	490
Y60-15/45	60	400	158	400	87	>97	9	25	605
Y75-15/45	75	400	196	400	108	>97	9	25	730
Y105-15/45	105	400	276	400	152	>97	9	26	1050

The technical data in the above tables are subject to change by the Company either for internal reasons or because of a specific request from the Customer  
 Input output voltage 50Hz: 380/415V - Input output voltage 60Hz: 460/480V

# ORION-PLUS

## STANDARD FEATURES

<b>VOLTAGE STABILISATION</b> <b>PC SELECTABLE OUTPUT VOLTAGE</b>	<b>INDEPENDENT PHASE CONTROL</b> from 360 to 440 V
<b>FREQUENCY</b>	50/60Hz $\pm$ 5%
<b>ADMITTED LOAD VARIATION</b> <b>ADMITTED ASIMMETRY BETWEEN PHASES</b>	from 0 to 100% 100%
<b>COOLING</b>	Natural Air (Aided over 45°C)
<b>AMBIENT TEMPERATURE</b>	-25/+45 °C
<b>STORAGE TEMPERATURE</b>	-25/+60°C
<b>RELATIVE HUMIDITY</b>	95%
<b>ADMITTED OVERLOAD</b>	200% 2min
<b>COLOUR</b>	RAL 7035
<b>PROTECTION</b>	IP 21
<b>INSTALLATION</b>	Indoor

## RATINGS IN RELATION TO THE INPUT VARIATION PERCENTAGE

$\pm$ 10%	$\pm$ 15%	$\pm$ 20%	$\pm$ 25%	$\pm$ 30%	-35/+15%	-45/+15%
150	105	80	60	45	60	45
200	135	105	80	60	80	60
230	150	120	105	80	105	80
260	175	135	120	105	120	105
300	200	150	135	120	135	120
350	230	175	150	135	150	135
400	260	200	175	150	175	150
450	300	230	200	175	200	175
500	350	260	230	200	230	200
630	400	300	260	230	260	230
800	500	400	300	260	300	260
1000	630	500	400	300	400	300



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## ORION PLUS stabilisers:

The ORION PLUS voltage stabilisers are supplied with independent regulation on each phase. It is regulated by toroidal voltage regulators

The ORION PLUS type is used when the main is unbalanced and when unbalanced three-phase loads and/or single-phase loads need to be supplied. In this situation the presence of the neutral wire is required.

The stabilisers are air cooled (natural convection with cabinet internal temperature lower than 45°C).

The measuring instrumentation for the ORION PLUS stabilisers is incorporated in a control panel on the cabinet door and consists of **two multi-task digital network analysers**. Such instruments are able to provide with information regarding the status of the lines upstream and downstream the voltage stabiliser such as phase and linked voltages current power factor active power apparent power reactive power etc.

LED lights are provided for each phase signalling 'power on' reaching of voltage regulation limits and direction of voltage regulation (increase/decrease). Alarms for minimum and maximum voltages maximum current over-temperature and ventilation failure are also indicated. The alarm indicators are accompanied by an acoustic alarm. All these signals are located on the control panel mounted on the cabinet door. Automatic circuit breakers are provided on the regulation circuit to protect against overload and short circuit on the voltage regulator. The auxiliary circuit is protected by fuses.

**The logic control, performed on the true rms voltage, is based on the 2-way DSP microprocessor. By using this device, setting the stabiliser parameters via a PC connection is made possible.**

### ORION PLUS STANDARD FEATURES

FREQUENCY	47 65Hz
ADMITTED LOAD VARIATION	from 0 to 100%
ADMITTED LOAD UNBALANCE	up to 100%
MAINS WAVEFORM DISTORTION INCREMENT	< 0.2%
COOLING	Natural Air (Aided Air over 45°C)
AMBIENT TEMPERATURE	-15 +45 °C
STORAGE TEMPERATURE	-25 +60°C
RELATIVE HUMIDITY	95%
ADMITTED OVERLOAD	200% 2min
COLOUR	RAL 7035
PROTECTION	IP 21
INSTALLATION	Indoor