
Spänningsstabilisatorer
Voltage Stabilisers

3-fas / three phase

type Sirius digit@l: 200 - 6000 kVA

SIRIUS

The SIRIUS line covers the range from 30kVA to 2000kVA and allows for the choice of several input voltage variation percentages within a broad range from +30% up to -45%.

The SIRIUS voltage stabilisers are supplied with independent regulation on each phase.

The SIRIUS 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 40°C).

The measuring instrumentation for the SIRIUS stabilisers is incorporated in a control panel on the cabinet door and consists of **two multitask 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.

Such information can also be monitored on a remote PC via an RS485 output an RS485/RS232 converter and a special software package supplied with the unit.

Pilot 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.

In the SIRIUS type, these signals are located on the control panel mounted on the cabinet door and consisting of a set of LEDs.

The stabiliser is provided with a voltage regulator protection circuit controlled by thermal probes. The circuit works in case of temporary overload: it opens the connection between the voltage regulator and the buck/boost transformer and short-circuits the transformer primary winding at the same time.

By doing so, the transformer voltage drop is cancelled and the user can be supplied the mains voltage (although not stabilised) without interruption.

The auxiliary circuit is protected by fuses.

The logic control, performed on the true rms voltage, is based on a microprocessor. By using this device, monitoring the system and setting the stabiliser parameters via a connection are made possible.





SIRIUS STANDARD FEATURES

FREQUENCY	47/65Hz
ADMITTED LOAD VARIATION	from 0 up to 100%
ADMITTED LOAD UNBALANCE	up to 100%
MAINS WAVEFORM DISTORTION INCREMENT	< 0.2%
COOLING	Natural Air (aided over 40°C)
AMBIENT TEMPERATURE	-15/+45 °C
STORAGE TEMPERATURE	-25/+60°C
RELATIVE HUMIDITY	95%
ADMITTED OVERLOAD	200% 2min
COLOUR	RAL 7032
PROTECTION	IP 21
INSTALLATION	Indoor

Sirius digit@l finns även för spänningsvariation +/-10%, samt med effekt upp till 6000 kVA.

RATING IN RELATION TO THE INPUT VARIATION PERCENTAGE

± 10%	±15%	±20%	±25%	±30%	-25/+15%	-35/+15%	-45/+15%
200	125	100	75	50	75	50	30
250	160	125	100	75	100	75	50
320	200	160	125	100	125	100	75
400	250	200	160	125	160	125	100
500	315	250	200	160	200	160	125
630	400	315	250	200	250	200	160
800	500	400	315	250	315	250	200
1000	630	500	400	315	400	315	250
1250	800	630	500	400	500	400	315
1600	1000	800	630	500	630	500	400
2000	1250	1000	800	630	800	630	500
2500	1600	1250	1000	800	1000	800	630
3200	2000	1600	1250	1000	1250	1000	800
4000							
5000							
6000							

SIRIUS ±15% AUTOMATIC THREEPHASE VOLTAGE STABILISER

TYPE	RATED POWER [kVA]	INPUT VOLTAGE ±15% [V]	MAX INPUT CURRENT [A]	OUTPUT VOLTAGE ±0.5% [V]	RATED OUTPUT CURRENT [A]	EFFICIENCY [%]	RESPONSE TIME [ms/V]	CABINET TYPE	WEIGHT [kg]
Y125-15	125	400	212	400	181	>98	20	40	550
Y160-15	160	400	272	400	231	>98	20	40	600
Y200-15	200	400	340	400	289	>98	20	41	800
Y250-15	250	400	425	400	361	>98	20	41	900
Y315-15	315	400	535	400	455	>98	20	41	1200
Y400-15	400	400	680	400	578	>98	20	42	1400
Y500-15	500	400	850	400	723	>98	20	42	1600
Y630-15	630	400	1071	400	910	>98	20	42	2000
Y800-15	800	400	1361	400	1156	>98	24	43	2600
Y1000-15	1000	400	1700	400	1445	>98	24	43	2800
Y1250-15	1250	400	2125	400	1806	>98	24	44	3000
Y1600-15	1600	400	2720	400	2312	>98	24	44	3400
Y2000-15	2000	400	3400	400	2890	>98	24	44	3900



SIRIUS ±20% AUTOMATIC THREPHASE VOLTAGE STABILISER

TYPE	RATED POWER [kVA]	INPUT VOLTAGE ±20% [V]	MAX INPUT CURRENT [A]	OUTPUT VOLTAGE ±0.5% [V]	RATED OUTPUT CURRENT [A]	EFFICIENCY [%]	RESPONSE TIME [ms/V]	CABINET TYPE	WEIGHT [kg]
Y100-20	100	400	180	400	144	>98	15	40	550
Y125-20	125	400	226	400	181	>98	15	40	600
Y160-20	160	400	289	400	231	>98	15	41	800
Y200-20	200	400	361	400	289	>98	15	41	900
Y250-20	250	400	452	400	361	>98	15	41	1200
Y315-20	315	400	569	400	455	>98	15	42	1400
Y400-20	400	400	722	400	578	>98	15	42	1600
Y500-20	500	400	903	400	723	>98	15	42	2000
Y630-20	630	400	1138	400	910	>98	18	43	2600
Y800-20	800	400	1445	400	1156	>98	18	43	2800
Y1000-20	1000	400	1806	400	1445	>98	18	44	3000
Y1250-20	1250	400	2258	400	1806	>98	18	44	3400
Y1600-20	1600	400	2890	400	2312	>98	18	44	3900

SIRIUS ±25% AUTOMATIC THREPHASE VOLTAGE STABILISER

TYPE	RATED POWER [kVA]	INPUT VOLTAGE ±25% [V]	MAX INPUT CURRENT [A]	OUTPUT VOLTAGE ±0.5% [V]	RATED OUTPUT CURRENT [A]	EFFICIENCY [%]	RESPONSE TIME [ms/V]	CABINET TYPE	WEIGHT [kg]
Y75-25	75	400	144	400	108	>98	12	40	550
Y100-25	100	400	193	400	144	>98	12	40	600
Y125-25	125	400	241	400	181	>98	12	41	800
Y160-25	160	400	308	400	231	>98	12	41	900
Y200-25	200	400	385	400	289	>98	12	41	1200
Y250-25	250	400	482	400	361	>98	12	42	1400
Y315-25	315	400	607	400	455	>98	12	42	1600
Y400-25	400	400	770	400	578	>98	12	42	2000
Y500-25	500	400	963	400	723	>98	15	43	2600
Y630-25	630	400	1214	400	910	>98	15	43	2800
Y800-25	800	400	1541	400	1156	>98	15	44	3000
Y1000-25	1000	400	1927	400	1445	>98	15	44	3400
Y1250-25	1250	400	2408	400	1806	>98	15	44	3900

SIRIUS ±30% AUTOMATIC THREPHASE VOLTAGE STABILISER

TYPE	RATED POWER [kVA]	INPUT VOLTAGE ±30% [V]	MAX INPUT CURRENT [A]	OUTPUT VOLTAGE ±0.5% [V]	RATED OUTPUT CURRENT [A]	EFFICIENCY [%]	RESPONSE TIME [ms/V]	CABINET TYPE	WEIGHT [kg]
Y50-30	50	400	103	400	72	>98	10	40	550
Y75-30	75	400	155	400	108	>98	10	40	600
Y100-30	100	400	206	400	144	>98	10	41	800
Y125-30	125	400	258	400	181	>98	10	41	900
Y160-30	160	400	330	400	231	>98	10	41	1200
Y200-30	200	400	413	400	289	>98	10	42	1400
Y250-30	250	400	516	400	361	>98	10	42	1600
Y315-30	315	400	650	400	455	>98	10	42	2000
Y400-30	400	400	826	400	578	>98	12	43	2600
Y500-30	500	400	1032	400	723	>98	12	43	2800
Y630-30	630	400	1300	400	910	>98	12	44	3000
Y800-30	800	400	1651	400	1156	>98	12	44	3400
Y1000-30	1000	400	2064	400	1445	>98	12	44	3900



SIRIUS-25%/+15% AUTOMATIC THREEPHASE VOLTAGE STABILISER

TYPE	RATED POWER [kVA]	INPUT VOLTAGE -25/+15% [V]	MAX INPUT CURRENT [A]	OUTPUT VOLTAGE ±0.5% [V]	RATED OUTPUT CURRENT [A]	EFFICIENCY [%]	RESPONSE TIME [ms/V]	CABINET TYPE	WEIGHT [kg]
Y75-15/25	75	400	144	400	108	>97	15	40	570
Y100-15/25	100	400	193	400	144	>97	15	40	680
Y125-15/25	125	400	241	400	181	>97	15	41	890
Y160-15/25	160	400	308	400	231	>97	15	41	1000
Y200-15/25	200	400	385	400	289	>97	15	41	1320
Y250-15/25	250	400	482	400	361	>97	15	42	1540
Y315-15/25	315	400	607	400	455	>97	15	42	1750
Y400-15/25	400	400	770	400	578	>97	15	42	2190
Y500-15/25	500	400	963	400	723	>97	18	43	2820
Y630-15/25	630	400	1214	400	910	>97	18	43	3050
Y800-15/25	800	400	1541	400	1156	>97	18	44	3750
Y1000-15/25	1000	400	1927	400	1416	>97	18	44	4300
Y1250-15/25	1250	400	2408	400	1806	>97	18	44	4430

SIRIUS-35%/+15% AUTOMATIC THREEPHASE VOLTAGE STABILISER

TYPE	RATED POWER [kVA]	INPUT VOLTAGE -35/+15% [V]	MAX INPUT CURRENT [A]	OUTPUT VOLTAGE ±0.5% [V]	RATED OUTPUT CURRENT [A]	EFFICIENCY [%]	RESPONSE TIME [ms/V]	CABINET TYPE	WEIGHT [kg]
Y50-15/35	50	400	111	400	72	>97	12	40	600
Y75-15/35	75	400	167	400	108	>97	12	40	750
Y100-15/35	100	400	222	400	144	>97	12	41	930
Y125-15/35	125	400	278	400	181	>97	12	41	1150
Y160-15/35	160	400	356	400	231	>97	12	41	1370
Y200-15/35	200	400	445	400	289	>97	12	42	1600
Y250-15/35	250	400	556	400	361	>97	12	42	1820
Y315-15/35	315	400	700	400	455	>97	12	42	2250
Y400-15/35	400	400	889	400	578	>97	15	43	3150
Y500-15/35	500	400	1112	400	723	>97	15	43	3380
Y630-15/35	630	400	1401	400	910	>97	15	44	3900
Y800-15/35	800	400	1779	400	1156	>97	15	44	4350
Y1000-5/35	1000	400	2223	400	1445	>97	15	44	4430

SIRIUS-45%/15% AUTOMATIC THREEPHASE VOLTAGE STABILISER

TYPE	RATED POWER [kVA]	INPUT VOLTAGE -45/+15% [V]	MAX INPUT CURRENT [A]	OUTPUT VOLTAGE ±0.5% [V]	RATED OUTPUT CURRENT [A]	EFFICIENCY [%]	RESPONSE TIME [ms/V]	CABINET TYPE	WEIGHT [kg]
Y30-15/45	30	400	79	400	43	>97	10	40	780
Y50-15/45	50	400	131	400	72	>97	10	40	950
Y75-15/45	75	400	197	400	108	>97	10	41	1200
Y100-15/45	100	400	263	400	144	>97	10	41	1400
Y125-15/45	125	400	328	400	181	>97	10	41	1650
Y160-15/45	160	400	420	400	231	>97	10	42	1790
Y200-15/45	200	400	525	400	289	>97	10	42	1900
Y250-15/45	250	400	657	400	361	>97	10	42	2320
Y315-15/45	315	400	828	400	455	>97	12	43	2940
Y400-15/45	400	400	1051	400	578	>97	12	43	3500
Y500-15/45	500	400	1314	400	723	>97	12	44	4000
Y630-15/45	630	400	1655	400	910	>97	12	44	4430
Y800-15/45	800	400	2102	400	1156	>97	12	44	4700

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

The New Sirius Digit@I;

- **always connected**
- **always monitored**
- **longer warranty**

The new Sirius digital voltage stabiliser becomes digit@I! The new control system can be continuously connected on internet (via LAN or GPRS) thus sending data automatically to the Ortea server and storing them for teleservice or debugging. In this case the ORTEA warranty is extended from 24 to 36 months. Available sizes range from 200 to 6000 kVA +/-10%!

Nya Sirius Digit@I;

- **alltid ansluten**
- **alltid övervakad**
- **förlängd garanti**

Den nya digitala Sirius spänningsstabilisatorn blir digit@I! Det nya övervaknings-systemet kan ha en kontinuerlig anslutning till internet (via LAN eller GPRS) och skickar automatiskt data som lagras i Orteas server för möjlighet till fjärrservice eller felsökning. I detta fall förlängs ORTEAs garanti från 24 till 36 månader. Tillgängliga storlekar finns från 200 till 6000 kVA +/-10%.