

SBW Series

AC. Automatic Voltage Regulator

FEATURES:

- Giant power for industrial machine
- Three phase combined/average control and individual/independent control optional
- Reliable bypass
- Phase failure and wrong phase sequence protection
- Full protection: over voltage, under voltage, overheat, overload, sag, surge, spike and short circuit
- Delay Time to protect the equipment from rapid fluctuations















SBW-50KVA SBW-60KVA

SPECIFIC	ATIONS:										
Model		SBW- 20KVA	SBW- 30KVA	SBW- 50KVA	SBW- 80KVA	SBW- 100KVA	SBW- 150KVA	SBW- 200KVA	SBW- 300KVA		
Power		20KVA	30KVA	50KVA	80KVA	100KVA	150KVA	200KVA	300KVA		
Technology			Three Pha	se + Combine	ed control / In	dividual Conti	rol + Digital C	PU Control			
Transformer		Servo Motor Type									
	Input voltage range			30	4-456V (260	430V Options	al)				
Input	Input frequency				50/6	60Hz					
0.1.1	Output voltage			1	380V (400V/4	15V Optional)				
Output	Output precision				±	3%					
Respond Time				<1s, ag	ainst 10% var	iation of input	voltage				
Efficiency					≥9	5%					
Phase					Three	phase					
	Input current				Phase Curr	ent: A, B, C					
Display	Output voltage	Line Voltage: AB, BC, CA Phase Voltage: A, B, C									
LED indicators	Yellow LED	Working status of phase A									
	Green LED	Working status of phase B									
	Red LED										
	High voltage	Output cutoff by contactor									
	Low voltage	Output cutoff by contactor									
	Phase Failure	Output cutoff by contactor									
	Wrong Phase Sequence										
Protection	Surge/Spike						A, B, C I phase A I phase B I phase C contactor contactor contactor contactor ded contactor contactor contactor regulator able SPD ded contactor contactor red contactor red contactor red contactor red contactor red red contactor red red contactor				
	Manual Bypass				Yes, is	solated					
	Over load	Output cutoff by contactor									
	High temperature				Output cutof	f by contactor					
	Short circuit				Input cutoff	by air breaker					
	Insulation Voltage	2.000V / 60s									
	Insulation Resistance	>5MO									
	Creepage Distance				>8	mm					
Safety standards	Grounding Resistance	<0.1mQ									
	Insulation Class of Coil	Class F (155℃)									
	Cooling Mode										
	IP Level										
	Audible Noise			<65	dB at 1m dist	ance with full	load				
	Operating temperature				-5°C .	45°C					
Environmental	Stroage temperature				-15°C	-45°C					
	Operating relative humidity				10%-90%, n	urking status of phase B urking status of phase C uput cutoff by contactor iput cutoff by contactor iput cutoff by contactor iput cutoff by contactor ant switch on regulator stional, replucable SPD Yes, isolated uput cutoff by contactor uput cutoff by are treaker 2,000V / 60s >SMQ >8mm					



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- Delay Time to protect the equipment from rapid fluctuations













Model		SBW- 400KVA	SBW- 500KVA	SBW- 600KVA	SBW- 800KVA	SBW- 1000KVA	SBW- 1500KVA	SBW- 2000KVA			
Power		400KVA	500KVA	600KVA	800KVA	1000KVA	1500KVA	2000KVA			
Technology		Three Phase + Combined control / Individual Control + Digital CPU Control									
Transformer		Servo Motor Type									
	Input voltage range				6V (260-430V						
Input	Input frequency				50/60Hz						
and the same	Output voltage			380V	(400V/415V C	Intional)					
Output	Output precision			0001	± 3%	promony					
Respond Time	Toubat brecision			<1s against		of input voltage					
Efficiency				and a game.	≥95%						
Phase					Three phase						
	Input current			Ph	ase Current: A						
Display	Output voltage	Line Voltage: AB, BC, CA Phase Voltage: A, B, C									
	Yellow LED	Working status of phase A									
LED indicators	Green LED	Working status of phase B									
EED INDIOUGIO	Red LED				king status of p	hase C					
	High voltage	Output cutoff by contactor									
	Low voltage	Output cutoff by contactor									
	Phase Failure	Output cutoff by contactor									
	Wrong Phase Sequence	Can't switch on regulator									
Protection	Surge/Spike	Optional, replaceable SPD									
	Manual Bypass	Yes. isolated									
	Over load	Output cutoff by contactor									
	High temperature	Output cutoff by contactor									
	Short circuit			Inpu	at cutoff by air I	reaker					
	Insulation Voltage				2,000V / 60s						
	Insulation Resistance	>5MO									
	Creepage Distance				>8mm						
Safety standards	Grounding Resistance	<0.1mΩ									
	Insulation Class of Coil				Class F (155)	-)					
	Cooling Mode	Smart Cooling Fan									
	IP Level	IP20									
	Audible Noise			<65dB at	1m distance v	vith full load					
F	Operating temperature				-5°C - 45°C						
Environmental	Stroage temperature	-15°C - 45°C									
	Operating relative humidity	10%-90%, non-condesing									



SVC Series

AC. Automatic Voltage Regulator

FEATURES:

- Single phase servo motor control
- High precision regulation output
- Fully automatic MCU controlled circuit
- Full protection: over voltage, under voltage, overheat, overload, sag, surge, spike and short circuit, Delay Time to protect the equipment from rapid fluctuations













SVC-2000



10%RH - 90%RH, Non-condensing

SVC-500

140V 150V 160V 170V 180V 190V 190V 200V 210V 220V 230V 240V 250V 260V 270V

140V-260V





SVC-1000 SVC-1500

SPECIFICATIONS: 1000VA 1500VA 2000VA 3000V Fully automatic MCU controlled circuit + toroidal transformer Technology Copper Servo Motor Type Transformer Transformer 150-250V AC / 100-250V AC Input voltage range Input Input frequency 220V AC / 220V+110V Output voltage Output Output precision Delay Time 6s /180s selectable Efficiency Single phase Analog meter/Digital meter Input voltage & Output voltage separately Display Indicating power ON/OFF Green LED LED indicators Yellow LED During delay,this LED flashes,delay finished,goes off Red LED Output suppressed, indicating the machine is executing protection, when protection finished goes off High voltage Output cutoff + red LED Output cutoff + red LED Low voltage Over load Output cutoff High temperature Short circuit Circuit breaker trip off Cooling system Smart Fan (Automatic Startup at 65°C Safety standards CE (LVD + EMC), EN60950, EN55024 Operating conditions -15°C - 45°C



SVC Series

AC. Automatic Voltage Regulator

FEATURES:

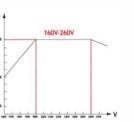
- Single phase servo motor control
- High precision regulation output
- Fully automatic MCU controlled circuit
- Full protection: over voltage, under voltage, overheat, overload, sag, surge, spike and short circuit, Delay Time to protect the equipment from rapid fluctuations

















SVC-7500

SVC-10000

SVC-10KVA(Vertical type)

Model		SVC-7500VA	SVC-10KVA	SVC-15KVA	SVC-20KVA	SVC-30KVA			
Power		7500VA	10KVA	15KVA	20KVA	30KVA			
Technology		Fully automatic MCU controlled circuit + toroidal transformer							
Transformer		Copper Servo Motor Type Transformer							
Input voltage range		150-250V AC / 100-250V AC							
mput	Input frequency	50Hz							
Output	Output voltage	220V AC / 220V+110V							
	Output precision	± 3%							
Delay Time		6s/180s s electable							
Efficiency		≥95%							
Phase		Single phase							
Display	Analog meter/Digital meter		Input voltag	ge & Output voltage s	separately				
	Green LED	Indicating power ON/OFF							
LED indicators	Yellow LED	During delay, this LED flashes, delay finished, goes off							
	Red LED	Output suppressed	, indicating the machi	ne is executing prote	0V AC 10V le se separately OFF yi firshed,goes off cotection,when protection finished ED LED off up at 65°C)	n finished,goes off			
	High voltage		Ou	utput cutoff + red LEI)				
	Low voltage		Ou	tput cutoff + red LEI)				
Protection	Over load			Output cutoff					
	High temperature	Output cutoff							
	Short circuit			Circuit breaker trip of					
Cooling system		Smart Fan (Automatic Startup at 65°C)							
Safety standards		CE (LVD + EMC) , EN60950, EN55024							
	Operating temperature			-5℃ - 45℃					
Operating conditions	Stroage temperature			-15°C - 45°C					
operating conditions	Operating relative humidity	10%RH - 90%RH, Non-condensing							



TNS Series

AC. Automatic Voltage Regulator

FEATURES:

- Servo motor type
- Three phase individual control
- High precision regulation output
- Phase failure and wrong phase sequence protection
- Full protection: over voltage, under voltage, overheat, overload, sag, surge, spike and short circuit
- Delay Time to protect the equipment from rapid fluctuations















TNS-1.5KVA TNS-3KVA TNS-4.5KVA

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TNS-20KVA

Model		TNS-1.5KVA	TNS-3KVA	TNS-4.5KVA	TNS-6KVA	TNS-9KVA	TNS-15KVA			
Power		1500VA	3000VA	4500VA	6000VA	9000VA	15000VA			
Technology		Three Phase AVR + Individual Phase Control + Digital CPU Control								
Transformer		Servo Motor Type								
to mod	Input voltage range	304-456V (260-430V Optional)								
Input	Input frequency	50/60Hz								
	Output voltage			380V (400V/4	115V Optional)					
Output	Output precision			±	3%					
Delay Time 6s /180s selectable										
Respond Time				1s, against 10% va	riation of input volta	ge				
Efficiency				≥9	15%					
Phase				Three	phase					
	Input current	Phase Current: A, B, C								
Display	Output voltage									
LED indicators	Red LED			Working status	of phase A, B, C					
	High voltage	Output cutoff by contactor								
	Low voltage	Output cutoff by contactor								
	Phase Failure	Output cutoff by contactor								
	Wrong Phase Sequence	Can't switch on regulator								
Protection	Surge/Spike	Optional, replaceable SPD								
	Manual Bypass	Yes, isolated								
	Over load	Output cutoff by contactor								
	High temperature	Output cutoff by contactor								
	Short circuit			Input cutoff	by air breaker	al CPU Control				
	Insulation Voltage	2,000V / 60s								
	Insulation Resistance	>5MΩ								
	Creepage Distance	>8mm								
Safety standards	Grounding Resistance	<0.1mΩ								
	Insulation Class of Coil	Class F (155°C)								
	Cooling Mode	Smart Cooling Fan								
	IP Level	IP20								
	Audible Noise			<65dB at 1m dist	ance with full load					
Environmental	Operating temperature			-5℃	- 45℃					
Environmental	Stroage temperature	-15°C - 45°C								
	Operating relative humidity	10%RH - 90%RH, Non-condensing								



TNS Series

AC. Automatic Voltage Regulator

FEATURES:

- Servo motor type
- Three phase individual control
- High precision regulation output
- Phase failure and wrong phase sequence protection
- Full protection: over voltage, under voltage, overheat, overload,
- sag, surge, spike and short circuit
- Delay Time to protect the equipment from rapid fluctuations















TNS-40KVA TNS-60KVA TNS-90KVA

		T					T				
Model		TNS-20KVA	TNS-30KVA	TNS-40KVA	TNS-60KVA		TNS-100KVA				
Power		20KVA	30KVA	40KVA	60KVA	75KVA	100KVA				
Technology			Three Phase			al CPU Control					
Transformer											
Input	Input voltage range										
	Input frequency					tal CPU Control					
Output	Output voltage										
	Output precision										
Delay Time											
Respond Time			<			ge					
Efficiency											
Phase											
	Input current	Phase Current: A, B, C									
Display	Output voltage					al CPU Control					
LED indicators	Red LED	Working status of phase A, B, C									
	High voltage	Output cutoff by contactor									
	Low voltage	Output cutoff by contactor									
	Phase Failure			Output cuto	ff by contactor						
	Wrong Phase Sequence					C, CA 9, C b, E, C tactor tactor tactor latator stactor tactor tatator tatator tatator tatator					
Protection	Surge/Spike			<1s. against 10% variation of input voltage ≥ 95% Three phase Phase Gurenti, A, B, C Line Voltage, AB, BC, CA Phase Voltage, A, B, C Working status of phase A, B, C Output cuseff by contactor Optional, replaceable SPD Yes, isolated Output cuseff by contactor Output							
	Manual Bypass			Yes, i	solated	VA 75KVA of + Digital CPU Control constitutional put vottage C CA C A B B C cotor					
	Over load			Phase AVR + Individual Phase Control + Digital CPU Control son Motor Type 304-456V (200-430V Optional) 50000+0 50000+0 530V (400V/415V Optional) ± 13% 5s 1180s selectable <1s, against 10% variation or liput voltage ≥ 15s, gainst 10% variation or liput voltage ≥ 15s, CA Cutput cutoff by contactor Output cutoff by contactor Input cutoff by contactor Input cutoff by a reviseder 2,000V 760s > 5mm - 0.1mΩ Class F (155°C) Smart Cooling Fan P20 - 450°C - 45°C - 15°C - 45°C - 15°C - 15°C - 45°C							
	High temperature										
	Short circuit					75KVA lail CPU Control					
	Insulation Voltage			2,000	V / 60s	objetal CPU Control) ordinge					
	Insulation Resistance			>5	5ΜΩ						
	Creepage Distance			>	3mm	Digital CPU Control ii) voltage					
Safety standards	Grounding Resistance			<0.	1mΩ						
	Insulation Class of Coil			Class F	(155°C)						
	Cooling Mode					Digital CPU Control) voltage					
	IP Level										
	Audible Noise										
Environmental	Operating temperature			-5°C	- 45℃						
Environmental	Stroage temperature			-15°C	- 45°C						
	Operating relative humidity			10%RH - 90%RH	Current A, B, C tager, AB, BC, CA Voltager, AB, BC, CA Voltager, AB, C alus of phase A, B, C cutoff by contactor cutoff by con						



TDGC2/TSGC2 Series

Variac, Variable transformer, Voltage Regulator

FEATURES:

- Single phase and three phase available
- Manual control
- Copper winding coil
- Regulating the input liner voltage 220V to 0-250V variable
- If input 380V (3 phase, 4 wire) , then output voltage vary from 0-430V
- Power ranges: TDGC2 Single Phase: 0.2KVA-60KVA
- TSGC2 Three Phase: 1.5KVA-100KVA
- Insulation resistance: ≥5MΩ ■ Working frequency: 50Hz
- Efficiency: >90%
- Wave distortion: no waveform distortion
- Ambient Temperature: -10°C ~ +40°C



Model	Rated power	Phase No.	Frequency	Input voltage	Output voltage	Output curren
Specification	(KVA)	Phase No.	(Hz)	(Volt)	(Volt)	(Amp)
TDGC2-0.2	0.2	1	50	220	0~250	0.8
TDGC2-0.3	0.5	1	50	220	0~250	2
TDGC2-1	1	1	50	220	0~250	4
TDGC2-2	2	1	50	220	0~250	8
TDGC2-3	3	1	50	220	0~250	12
TDGC2-5	5	1	50	220	0~255	20
TDGC2-7	7	1	50	220	0~250	28
TDGC2-10	10	1	50	220	0~250	40
TDGC2-15	15	1	50	220	0~250	60
TDGC2-20	20	1	50	220	0~250	80
TDGC2-30	30	1	50	220	0~250	120
TDGC2-40	40	1	50	220	0~250	160
TDGC2-50	50	1	50	220	0~250	200
TDGC2-60	60	1	50	220	0~250	240
TSGC2-1.5	1.5	3	50	380	0~430	2
TSGC2-3	3	3	50	380	0~430	4
TSGC2-6	6	3	50	380	0~430	8
TSGC2-9	9	3	50	380	0~430	12
TSGC2-12	12	3	50	380	0~430	16
TSGC2-15	15	3	50	380	0~430	20
TSGC2-20	20	3	50	380	0~430	27
TSGC2-30	30	3	50	380	0~430	40
TSGC2-40	40	3	50	380	0~430	54
TSGC2-50	50	3	50	380	0~430	67
TSGC2-60	60	3	50	380	0~430	80
TSGC2-80	80	3	50	380	0~430	107
TSGC2-100	100	2	60	200	0-420	134