Thyristor Power Regulator

Model: W5 SERIES



Features:

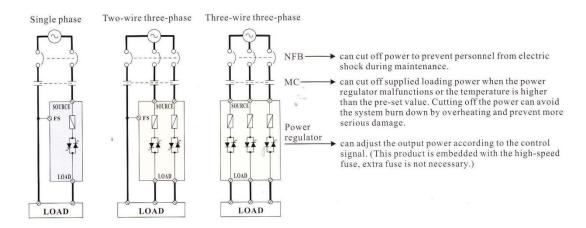
ш	Independent adjustment of Max and BIAS.
	Down-opened Panel, easy for fuse replacement.
	VR of Max and SFS are installed in the front panel, easy for adjustment.
	Multi-LED display panel makes the operating condition clear.
	The auxiliary powers (AC1, AC2) are independently controlled for all models.
	Build-in buffering output adjustment (SFS VR), adjusting range 1~ 22 seconds.(Only for the phase control product)
	Top & bottom shielding covers are designed for safety and fashion out looking, also easy for wiring installation.
	In case of 0.5 Hz sudden power losses, system output can be switched off immediately. Once the
	power is restored, the system will buffer the output to prevent the voltage surge for fuse burn-down.
	Main power is one spec. Design for 200 ~ 480VAC.
	Automatic power frequency detection for 50 ~ 60 Hz. No need for selection or switch.
	Automatic detection and display for power out-of-phase, SCR overheating, and fuse burn-down with one set of alarm dry contact output.
	In cases of SCR overheating or fuse burn-down, the system output is stopped immediately. Once the
	malfunction is eliminated and power is restored, the system will buffer the output to prevent the fuse burn-down.
	4~20mA, 1~5VDC, 2~10VDC, 0~20mA, 0~5VDC, 0~10VDC, dry contact points, etc. and all control signals are ready to use.
	Triggering circuit and the main board are designed separately to avoid the main board damage when main circuit malfunctions.
П	Using European detechable control signal connector for easy replacement without re-wiring installation

Control and applied loading

輸出量 Output	輸出波形 Output wave											
控制方式 Control mode	10% Output	50% Output	90% Output									
相位控制 Phase angle control												
零位控制 Zero crossing control	1 cycle ON and 9 cycle OFF	1 cycle ON and 1 cycle OFF	9 cycle ON and 1 cycle OFF									

- Phase angle control: continuous phase angle control, steady output, current gauge reading remains steady. But, every half wave will produce harmonic wave.
 Applicable loading: fixed resistance loading, variable resistance loading, inductive loading, IR light bulb.
- Zero crossing control: distributed zero crossing control, minimum resolution 1 Hz, no harmonic wave, and current gauge reading oscillates.
 Applicable loading: fixed resistance loading.

Wiring and setup notices



- Standard main circuit setup: main power → molded case circuit breaker → contactors → power regulator → loading.
- The screw must be tightened during the wiring setup to avoid high temperature resulting from bad contact.
- Once the wiring setup is completed, the front panel and safety cover must be properly installed before the system is powered up to avoid the electric shock or short circuit caused by dropped conductive objects.

Model table

				V	lo	de	t le	tal	ble	е		Model: V	/5 SERIES			
Product series	W5	W5	seri	es												
		SP	Sin	gle -	phas	e an	gle co	ontrol								
		SZ	Sin	gle -	phas	e zei	o cro	ssing	g con	trol						
Control		TP	Thi	ree - \	wire t	hree	- pha	ase a	angle	cont	rol					
		TZ									g control					
		ZZ		_							ng control					
Main power volta	ge		1V	_		_		singl	e - pl	nase	power source)				
The standard Poly Cont.			4V		- 48		C									
				30	30/											
				45	45/											
				60	60 <i>A</i>	-										
				80 100	100	211										
				125	100000											
				150												
Normal rated cur	rent			180		*******										
				230		125A 150A 180A 230A 300A 380A 450A 580A 720A - 1 0 110VAC										
			300													
					380	Α										
					450 450A											
				580	580	ìΑ										
				720	720	ΙA										
Dash				Ť	-											
Auxiliary power s	ouree	code	a			1	1 9	ð 110	VAC							
raxilary postorio						2	1 9									
							0			200						
							_		Called two second							
Input signal code							-	995								
							_									
											tment					
							*	_		aujus	Sunenc					
										ferin	a time. 2 secr	onds				
								С		2.0						
Buffering time co					198	Adjustable buffering time, 1-22 seconds										
								J	_							
1								-			1					
										TF			Only for phase-			
Special				720 720A - 1 1 0 110VAC 2 1 0 220VAC 0 0 ~ 5VDC 1 0 ~ 5VDC 2 0 ~ 10VDC 3 0 ~ 10VDC 4 0 ~ 20VDC 5 0 ~ 20DC M Mandal adjustment * Special Buffering time, 2 seconds												
										CL	Limited curren	t type (RMS)	of product			
										CC	Constant curre	nt type (RMS)				

The weights and related dimensions of the power regulators

Normal rated current	Figure	Outline dimensions (mm)			Net weights	Packed dimensions (mm)			Packed weights	Fixed	f-hole di	Main power	Way of		
Normal rated current	1 igure	Length	Width	Height	(Kg)	Length	Width	Height	(Kg)	L1	L2	L3	W	source screw	cooling
30A	A	162	98	133	1.3	225	127	166	1.5	122	0	0	90	M6	Air- cooling
45A	A	200	98	133	1.5	262	127	166	1.7	122	0	0	90	M6	Air- cooling
60,80A	В	162	112	183	1.7	225	140	220	2.0	122	0	0	104	M6	Air- cooling
100A	C	189	112	183	2.0	250	140	220	2.3	122	0	0	104	M6	Fan- cooling
125,150,180A	C	275	112	183	3.0	336	140	220	3.4	122	86	0	104	M8	Fan- cooling
230A	C	287	112	188	3.4	345	140	220	3.8	122	86	0	104	M10	Fan- cooling
300,380A	Ι	390	140	248	6.4	450	168	277	7.0	122	86	94	132	M10	Fan- cooling
450A	Ι	390	140	248	7.1	450	168	277	7.7	122	86	94	132	M10*2	Fan- cooling
580A	I	460	140	248	8.6	600	265	390	10.5	122	86	94	132	M10*2	Fan- cooling
720A	I	560	140	248	10.4	700	265	390	12.7	122	86	239	132	M10*2	Fan- cooling

Formal rated current	Figure	Outline dimensions (mm)			Net weights	Packed dimensions (mm)			Packed weights	Fixe	d-hole di	(mm)	Main power	Way of	
vormai rated current	riguic	Length	Width	Height	(Kg)	Length	Width	Height	(Kg)	L1	L2	L3	W	source screw	cooling
30A	A	162	98	133	1.5	225	127	166	1.7	122	0	0	90	M6	Air- cooling
45A	В	162	112	183	1.9	225	140	220	2.2	122	0	0	104	M6	Air- cooling
60,80,100A	С	189	112	183	2.2	250	140	220	2.5	122	0	0	104	M6	Fan- cooling
125A	C	275	112	183	3.1	336	140	220	3.5	122	86	0	104	M8	Fan- cooling
150A	F	326	140	205	4.5	388	168	245	5.0	122	86	0	132	M8	Fan- cooling
180A	F	382	140	205	5.6	443	168	245	6.1	122	86	94	132	M8	Fan- cooling
230A	G	310	155	265	10.4	445	260	420	12.0	230	0	0	143	M10	Fan- cooling
300,380A	G	390	155	265	14.3	525	260	420	416.3	230	80	0	143	M10	Fan- cooling
450A	J	390	260	248	13.2	535	385	390	15.7	122	86	94	252	M10*2	Fan- cooling
580A	J	460	260	248	16.1	600	385,	390	18.7	122	86	94	252	M10*2	Fan- cooling
720A	J	560	260	248	20.0	700	385	390	23.0	122	86	239	252	M10*2	Fan- cooling

Normal rated current	Figure	Outline dimensions (mm)			Net weights	Packed dimensions (mm)			Packed weights	Fixe	d-hole dir	Main power	Way of		
	riguit	Length	Width	Height	(Kg)	Length	Width	Height	(Kg)	L1	L2	L3	W	source screw	cooling
30A	D	200	140	145	2.5	262	168	182	2.9	122	0	0	132	M6	Air- cooling
45A	Е	200	140	205	3.0	262	168	245	3.4	122	0	0	132	M6	Air- cooling
60,80,100A	F	202	140	205	3.1	262	168	245	3.5	122	0	0	132	M6	Fan- cooling
125A	F	288	140	205	4.4	350	168	245	5.0	122	86	0	132	M8	Fan- cooling
150A	F	326	140	205	4.8	388	168	245	5.4	122	86	0	132	M8	Fan- cooling
180A	F	382	140	205	5.8	443	168	245	6.3	122	86	94	132	M8	Fan- cooling
230A	Н	322	215	265	15.3	450	313	420	17.3	230	0	0	203	M10	Fan- cooling
300,380A	Н	402	215	265	21.1	540	313	420	23.4	230	80	0	203	M10	Fan- cooling
450A	K	390	380	248	19.7	525	505	390	22.6	122	86	94	372	M10*2	Fan- cooling
580A	K	460	380	248	24.4	600	505	390	27.4	122	86	94	372	M10*2	Fan- cooling
720A	K	560	380	248	29.6	700	505	390	33.3	122	86	239	372	M10*2	Fan- cooling

Outline appearance and fixed dimensions

