

Solid State Relay Ordering Guide

S A P 24 40 D

JEENDA SSR model Number







A = AC
D = DC

P=Horizontal type M=Module Type 3=Three-Phase
D=Dual output- 2 Form A G=Quad output SSR - 4 Form A



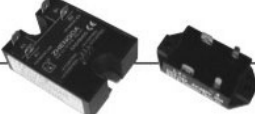






























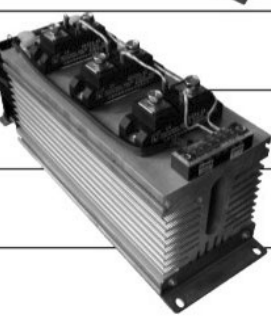



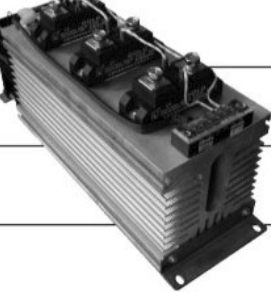
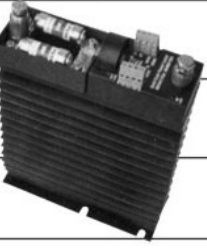


Load Voltage: 24 = 24-240VAC ; 48 = 40-480VAC ; 66 = 90-660VAC;

Max Current load

D=DC input A=AC input






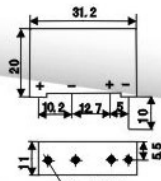
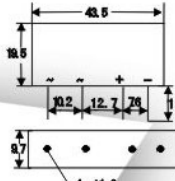
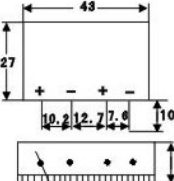
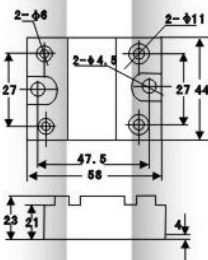
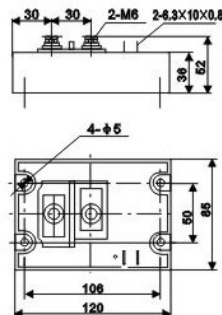
Parameter	Product model number and external appearance	SAP2410D, SAP2425D, SAP2440D SAP2450D, SAP2460D, SAP2470D SAP2480D, SAP2490D.	SAM4860D, SAM4880D, SAM48100D SAM48120D, SAM48150D, SAM48250D SAM48300D, SAM48400D.	SA34810D, SA34815D, SA34825D SA34830D, SA34840D, SA34860D SA34880D, SA34890D.
		SAP4810D, SAP4825D, SAP4840D SAP4850D, SAP4860D, SAP4870D SAP4880D, SAP4890D.	SAM6660D, SAM6680D, SAM66100D SAM66120D, SAM66150D, SAM66250D SAM66300D, SAM66400D.	SA366100D, SA366120D, SA366150D SA366200D, SA366300D
Main Technical Specifications				
Load Voltage		24-240 VAC, 48-480 VAC, 90-660VAC, (Choice); 90-1000VAC Choice for Module type		
Max Load Current		5 to 90Amp	60 to 1600Amp	10 to 300Amp
Control Voltage		3-32VDC, 90-280 VAC, (Choice)		
Operating temperature		-40~80°C		
Note: In addition, The detailed specifications need custom made, Pls contact with JEENDA Sales team				
Special Type		Quad output- 2 Form A	Quad output- 4Form A	AC SSR all-in-one radiator
Parameter	External appearance			
Main Technical Specifications				
Load Voltage		24~240VAC/48~480VAC	24~240VAC/48~480VAC	48~600VAC
Max Load Current		5A, 10A, 25A, 40A, 60A	5A, 10A, 25A, 40A, 60A	25A, 40A, 50A, 60A
Control Voltage		5~15VDC	5~15VDC	5~24VDC
Operating temperature		-40~80°C		

■ Product sort sheet



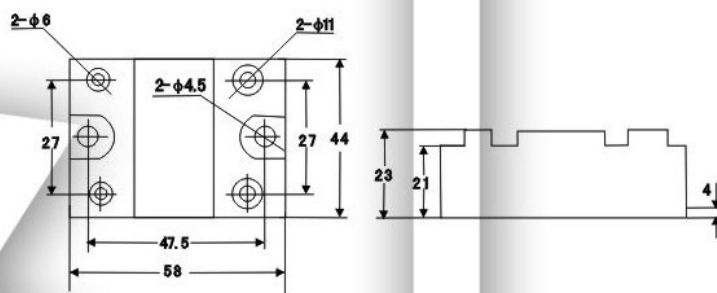
Output current	Single-phase SSR	Three-phase SSR	Other SSR
5A			
10A			Double SSR, Guadruple SSR
15A			
20A			
25A			
30A			Blend AC SSR 60A, 80A, 100A, 120A
40A			
60A			
80A			
100A			3-phase blend AC SSR 60A, 80A, 100A
120A			
150A			
200A			
250A			All-in-one SSR 25A, 40A, 50A, 60A
300A			
400A			
500A			
600A			
800A			
1000A			All-in-one SSR 80A 100A, 130A

Note: Other Welding Type SSR, DC & AC adjusting voltage regulator module is not listed in the sheet,Pls check <http://www.jeenda.com>,
The power semiconductors such us power module,Silicon-controlled rectifier moudle,Bridge rectifier,Rectification module.Pls visit
our website www.jeenda.com Also can contact with our sales team sales@jeenda.com for more information.




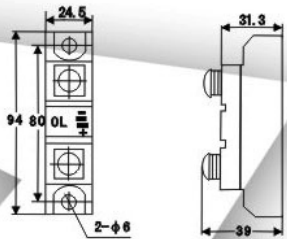
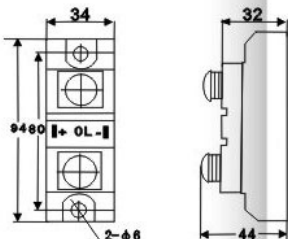
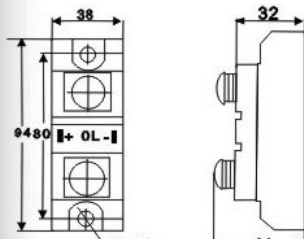
■ DC SSR of soldering type and horizontal type

Parameter	Product model number and external appearance	SDI102D	SDI1103D SDI1105D	SDI1104D SDI1105D	SDP系列	SDM系列
	Main Technical Specifications					
Load voltage		12-110VDC	12-110VDC、12-300VDC		12-110VDC 12-400VDC 12-600VDC	48-400VDC 48-1000VDC
Max Load current		2A	3A 4A	5A	5A 10A 20A 30A 40A 60A	80A 100A 150A 200A 300A 400A 500A 600A
Isolation bet. In & out		≥1500V				
Isolation to case		≥2000V				
Control Voltage		3-15V				
Control current		2-30mA				
Turn-on voltage		≤1.3V			≤1.5V	
off-state leakage		<0.05mA			<1mA	
Status indicator			LED			
Operating temperature		-40~80℃				
on or off time		≤0.1ms			≤5ms	≤25ms
Dimintions						
Elucidation		Voltage resistance can be reguired by cutומר, and the highest can be 1000VDC				We can also produce large current DC SSR,which is used in DC Moter F/R control

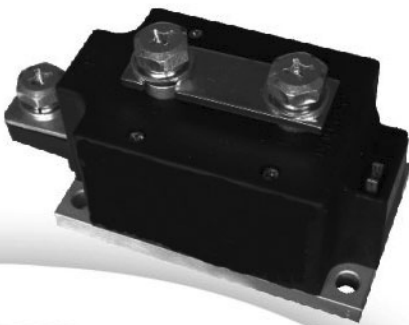

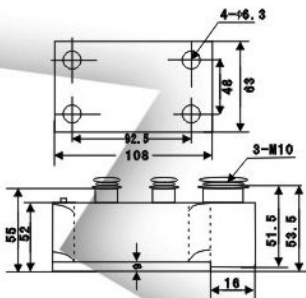
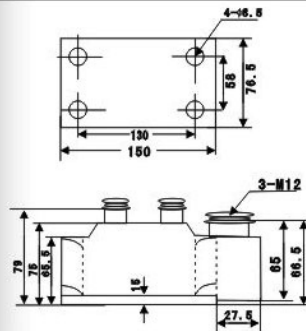
■ AC SSR of Horizontal type

Product model number and external appearance	SAP4005D SAP4010D SAP4015D SAP4020D SAP4025D SAP4030D SAP4040D	SAP4050D SAP4060D SAP4070D SAP4080D SAP4090D SAP40100D
		
Parameter		
Main Technical Specifications		
Load voltage	40-480VAC、90-660VAC (choice)	
Max Load current	5A、10A、15A、20A、25A、30A、40A	50A、60A、70A、80A、90A、100A
Isolation bet. In & out	≥2000VAC	
Isolation to case	≥2000VAC	
Control Voltage	3-32VDC	
Control current	6mA-25mA(Automatically limits current)	
Turn-on voltage	≤1.3V	
off-state leakage	≤3mA	
off-state dv/dt	300V/us	
Max on or off time	10ms	
Frequently range	47/63Hz	
Status indicator	IN LED, OUT LED (choice)	
Operating temperature	-40~80℃	
Dimentions		
Elucidation	In addition, has the AC input(90~280VAC) entire series product and the input & output double instruction (national monopoly) series product.	




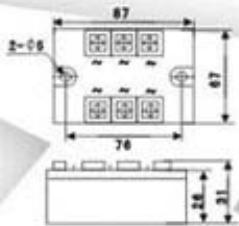
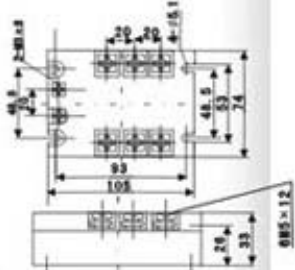
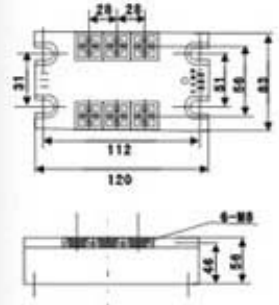
■ AC SSR of Module type

Parameter	Product model number and external appearance		
	Main Technical Specifications		
	SAM4060D SAM4080D SAM40100D SAM40120D SAM6060D SAM6080D SAM60100D SAM60120D	SAM40150D SAM40200D SAM40250D SAM40300D SAM60150D SAM60200D SAM60250D SAM60300D	SAM40400D SAM60400D
			
Load voltage	40-480VAC、90-660AC、90-1000VAC		
Max Load current	60A、80A、100A、120A	150A、200A、250A、300A	400A
Isolation bet. In & out	≥2000VAC		
Isolation to case	≥2000VAC		
Control Voltage	3-32VDC		
Control current	6mA-20mA		
Turn-on voltage	≤1.3V		
off-state leakage	≤3mA		
off-state dv/dt	300V/us		
Max on or off time	10ms		
Frequently range	47/63Hz		
Status indicator	IN LED		
Operating temperature	-40~80℃		
Dimintions			
Elucidation	In addition,has the AC input (90~280VAC) series product.		



■ AC SSR of Module type

Product model number and external appearance	SAM80500D SAM80600D		SAM80800D SAM801000D SAM801600D	
				
Parameter				
Main Technical Specifications				
Load voltage	40-800VAC			
Max Load current	500A、600A		800A、1000A、(1600A)	
Isolation bet. In & out	≥2000VAC			
Isolation to case	≥2000VAC			
Control Voltage	3-32VDC			
Control current	6mA-25mA			
Turn-on voltage	≤1.3V			
off-state leakage	≤3mA			
off-state dv/dt	500v/us			
Max on or off time	10ms			
Frequently range	47/63Hz			
Status indicator	LED			
Operating temperature	-40~80℃			
Dimentions				
Elucidation	The 1600A graphical representation size may inquire on-line.			



■ Three-phase SSR

Product model number and external appearance	SA3-4010D SA3-4015D SA3-4025D SA3-4030D	SA3-4040D SA3-4060D SA3-4080D SA3-4090D	SA3-66100D SA3-66120D SA3-66150D SA3-66200D SA3-66300D
Parameter	  		
Main Technical Specifications			
Load voltage	40-530VAC		
Max Load current	10A, 15A, 25A, 30A	40A, 60A, 80A, 90A	100A, 120A, 150A, 200A, 300A
Isolation bet. In & out	>2000VAC		
Isolation to case	>2000VAC		
Control Voltage	3-32VDC		
Control current	15mA-20mA		
Isolation between phases	>2000VAC		
Turn-on voltage	<1.5V		
off-state leakage	<1mA		
off-state dv/dt	300v/us		
Max on or off time	10ms		
Frequently range	47/63Hz		
Status indicator	LED		
Operating temperature	-40~80℃		
Dimensions			
Elucidation	In addition, has the AC input 90~280VAC entire series product		


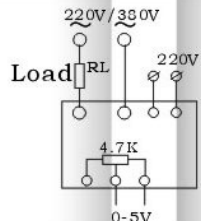
■ Combination AC SSR

Parameter	Product model number and external appearance	SAM4060×3W-- SAM40100×3W--	SMA4080×3W-- SAM40120×3W--	SAM40150×3W-- SAM40300×3W--	SMA40200×3W-- SAM40400×3W--
	Main Technical Specifications				
Load voltage	40-480VAC				
Max Load current	80A、100A、120A、150A			150A、200A、300A、400A... ..800A	
Isolation bet.In & out	≥2000VAC				
Isolation to case	≥2000VAC				
Control Voltage	10-32VDC				
Control current	15mA-20mA				
Turn-on voltage	≤1.3V				
off-state leakage	≤3mA				
off-state dv/dt	300v/us				
on or off time	10ms				
Frequently range	47/63Hz				
Status indicator	LED				
Operating temperature	-40~80℃				
Dimentions	Height:20cm width:2.5cm the size is according to the actual current(reference to hestsink of P16)				
Elucidation	We also have 3-phase voltage controller of large power				

■ Voltage control of resistance adjustment

Performance index specifications	Product model number and external appearance	SAVR2210 SAVR2220 SAVR2225	SAVR3810 SAVR3820 SAVR3825
		SAVR2240 SAVR2260 SAVR2280	SAVR3840 SAVR3860 SAVR3880
Main Technical Specifications			
Load adjusting voltage	0-220VAC		
Current ratings	10A、20A、25A、40A、60A、80A		
Adjusting resistance	470K(Potentiometer)		
Isolation bet .In & out	Please be careful of electricity		
Isolation to case	≥2000VAC		
Turn to voltage	≥2V		
Operating temperature	-40~80°C		
Dimensions	P type (Picture on P4)		
Application account			

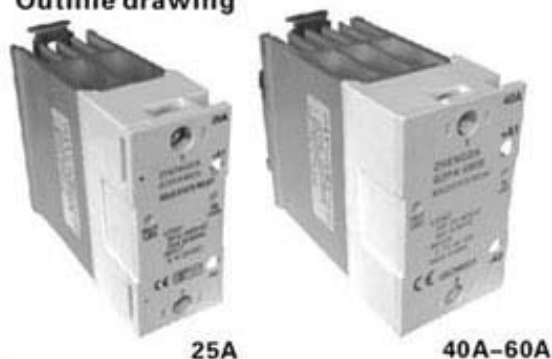
■ Voltage control of module of voltage

Performance index specifications Main Technical Specifications	Product model number and external appearance	MGV22 Series (5Ato200A)	MGV38 Series (5Ato200A)
			
Load adgusting voltage		0-220VAC	0-380VAC
Current raitings		5A、10A、25A、40A、600A、80A、100A、150A、200A	
Adgusting resistance		4.7K(Potentiometer)+0-5VDC,4-20mA	
Isolation bet .In & out		≥5000VAC	
Isolation to case		≥2000VAC	
Turn to voltage		≥2V	
Operating temperature		-40~48℃	
Dimentions		SA3 Type	
Appliation account			
Elucidation		Use 3 MGV to have 3-phase voltage control (It jout be applied to star connection heating load)	

■ AC SSR (25A-60A) of all-in-one radiator

- ◊ Zero-cross type.
- ◊ Guide rail installing.
- ◊ Rated current 25A, 40A, 50A, 60A.
- ◊ Enhanced type.
- ◊ RC absorption protection.
- ◊ Double LED indicate input & output condition.
- ◊ Authentication symbol.

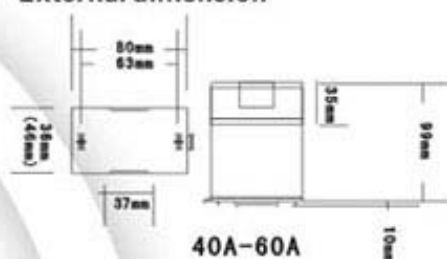
Outline drawing



25A

40A-60A

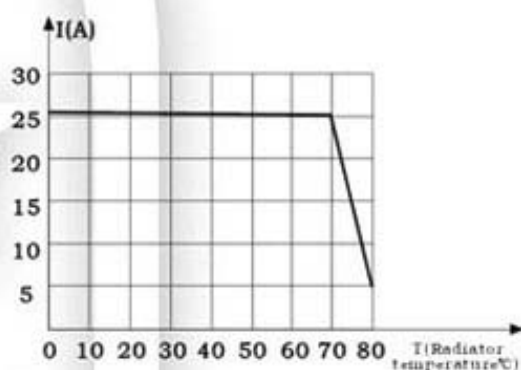
External dimension



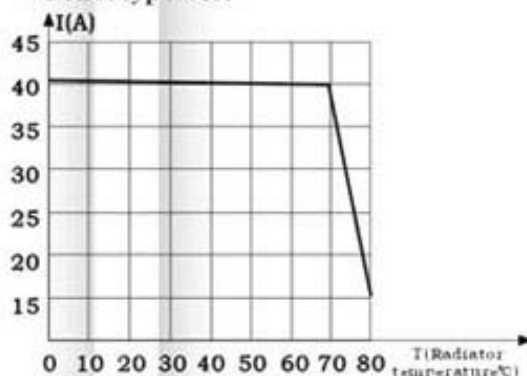
40A-60A

Rated value temperature curve

◊ G3DA4825



◊ G3DA type 40A



Output parameter	BCR or SCR anti-parallel connection
Voltage scope(Max VRMS)	48-600
Peak voltage(V peak)	1000
Maximum current(A)	25, 40, 50, 60
Off-state maximum leakage (mA) (T=25°C Vmax)	3
Turn-on voltage(V)max, T=25°C	≤1.2
Static state(off-state) dv/dt(V/us)	500
Frequency range(Hz)	47/63
Input parameter	5-24VDC
Input voltage(V)	
Input control current(mA)	14-18(automatic limit current)
Operate time	≤10ms(0.5cycle)Max
Response time(opened)	≤10ms(0.5cycle)Max
General parameter	
Operating temperature(°C)	-40-80
Isolation bet in & out (VRMS)	≥2000V
Isolation to case(VISO) (VRMS)	≥2000V
Material	Outer covering anti-burns
Radiator	Foundation plate pigment aluminum molding
Weight	340g
Input terminal	M3
Output terminal	M4, M5
* Fit the special installment guide rail	

■ AC SSR(100A-130A) of all-in-one radiator

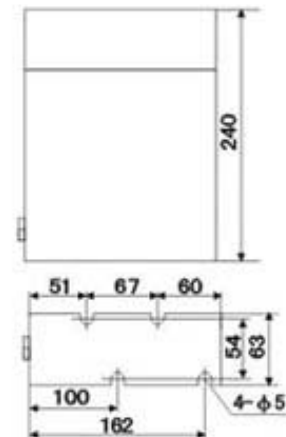
- ◊ Single-phase, current rating 80A, 100A, 130A;
- ◊ SCR anti-parallel combination enhanced type;
- ◊ The out-port is load with the fast fuse protection;
- ◊ RC absorption protection;
- ◊ Double LED indicate input & output condition;
- ◊ The CT inductance feed out voltage signal.

Outline drawing



National patent product

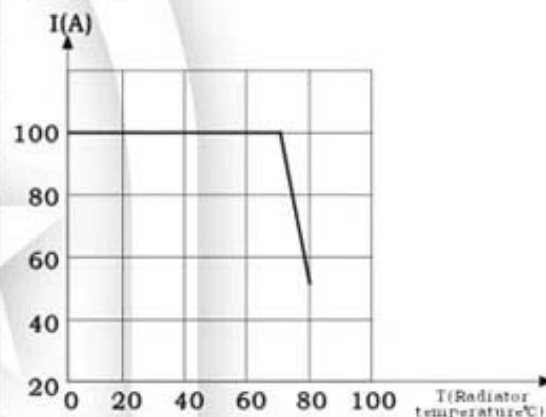
External dimension



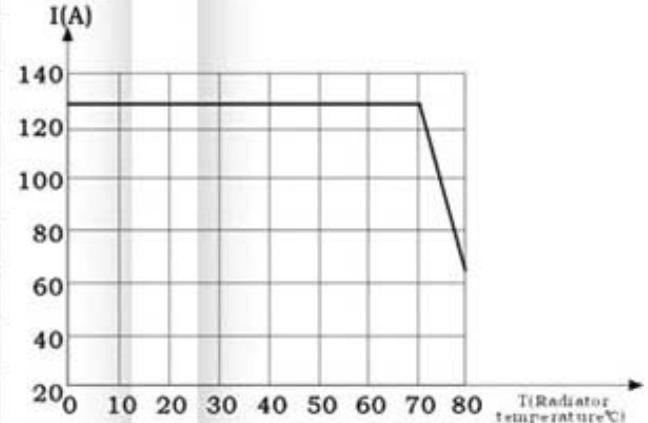
Output parameter	SCR anti-parallel connection
Voltage scope(Max VRMS)	48-660
Peak voltage(t=1min)(V peak)	1200
Maximum current(A)	100 130
Off-state maximum leakage (mA) (T=25°C)	3mA
Turn-on voltage (VTmax)T=25°C	1.5
Static state(off-state)dv/ dt(V/us)	500
Frequency range(Hz)	47/63
Input parameter	
Input voltage(V)	4-32VDC or 110VAC ± 15VAC
Input control current(mA)	8-30
Operate time (closed)	10ms,(0.5cycle) Max
Response time(opened)	10ms,(0.5cycle) Max
General parameter	
Operating temperature(°C)	-40~80
Isolation bet in & out(VRMS)	>2000V
Isolation to case(VISO) (VRMS)	>2000V
Material outer covering foundation plate	Anti-burns the black pigment aluminum molding
Weight	3kg
Input terminal	Screw Fastens
Output terminal	M8

Rated value temperature curve

◊ 100A



◊ 130A



■ SSR fitting

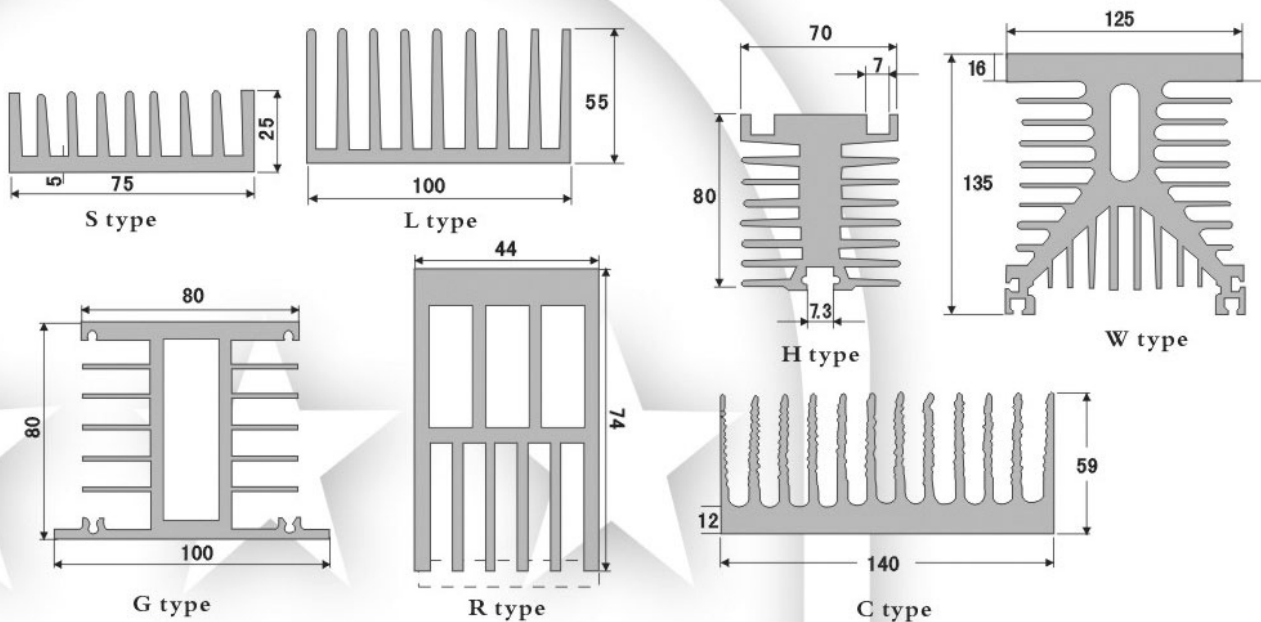
● Radiator

When SSR power on, heat will be produced due to reason such as turn-on voltage, the 1A operating current is equal to has the 1W calorific capacity. Therefore when is bigger than 5A in the operating current, should dispose radiator. Below for SSR belt heater load Recomm- endation table:

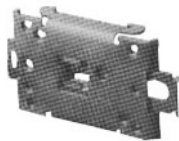
Mono-phase SSR type	Radiator	Mono-phase SSR type	Radiator
5A	Cilp	80A	H80
10A	S75	90A	H100
15A	S75	100A	H120 H100
20A	S75/R75	120A	H120
25A	H60/R75	150A	H160
30A	H60/R75	200A	H180
40A	H60	250A	W80
50A	H80	300A	W110
60A	H80	400A	W125

Three-phase SSR type	Radiator	Three-phase SSR type	Radiator
10A	G110	100A	W110
15A	G110	120A	W125
20A	G110	150A	W155
25A	L150	200A	W170
30A	L150	250A	W210
40A	L180	300A	W300
60A	C125	400A	3×W125
80A	L150 C125	/	/

Note: Naming of types of radiator: S、R、W、H、C、G (outline of radiator, see diagram) + Length of radiator (can defined by yourself). If load is electric motor, radiator can be reasonably smaller. The price of the above radiator includes



● Clip of guide rail



● Transparent protection cover

Protection cover of mono-phase SSR (free of charge)
Protection cover of mono-phase SSR (free of charge)