

# SF16L6A1~SF300L6A1 SF80U6A1~SF300U6A2

THYRISTOR STACK  
SF300L6A1, SF300U6A2 Series

FOR THREE PHASE COMMUTATION CONTROL

SF300L6A1, SF300U6A2 series are thyristor stacks for three phase commutation control and when the three phase power supply, the load and the gate unit are connected to this stack, the three phase commutation control circuit are easily combined.

These stacks have a wide range capability.

Input voltage : 220V or 440V  
(If you need the other input voltage, we change it up to 440V with your request.)

Output current: From 25A to 540A  
(Ta=50°C) (depend on type)

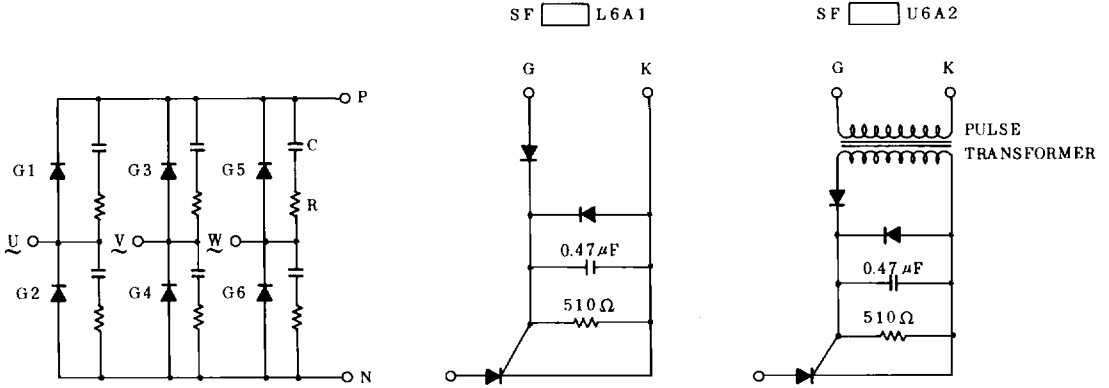
These stacks are used for the DC power supply of the inverter, the DC motor control and the other DC power control equipments.

## MAXIMUM RATINGS

TYPE	LINE VOLTAGE VRMS (Vrms)	REPETITIVE PEAK OFF-STATE AND REVERSE VOLTAGE VDRM, VRRM (V)	OUTPUT CURRENT Ta=50°C I <sub>O</sub> (A <sub>dc</sub> )		PEAK SURGE ON CURRENT ITSM (A)	
			FREE AIR	AIR FORCE (5m/s)	1 CYCLE	10 CYCLE
SF16L6A1	220	800	25	43	200	110
SF30L6A1	220	800	54	73	600	330
SF50L6A1	220	800	75	135	1000	600
SF80L6A1	220	800	105	201	1600	1250
SF80U6A2	440	1600				
SF150L6A1	220	800	174	405	3500	2000
SF150U6A2	440	1600				
SF300L6A1	220	800	240	540	6000	3500
SF300U6A2	440	1600				

**SF16L6A1~SF300L6A1**  
**SF80U6A1~SF300U6A2**

Note. CIRCUIT



\* There are some kind of stacks like SF300U6A2 series

SF300U6A3 series : Fuse attaching

SFR300L6P1 series : Mixed bridge circuit

SFR300U6P2 series : Mixed bridge circuit

SFR300U6P3 series : Mixed bridge circuit and fuse attaching

**SF16L6A1~SF300L6A1**  
**SF80U6A1~SF300U6A2**

OUTLINE

Unit in mm

TYPE	L(MAX)	L1	t	W(MAX)	W1	H(MAX)	H1	d	E
SF16L6A1	212	96	6	307	287	170	50	6.5	4.5
SF30L6A1	212	96	8	307	287	210	100	6.5	6.5
SF50L6A1	212	96	8	307	287	210	100	6.5	6.5
SF80 <sup>L</sup> <sub>U</sub> 6A <sup>1</sup> / <sub>2</sub>	246	113	8	370	350	230	115	6.5	6.5
SF150 <sup>L</sup> <sub>U</sub> 6A <sup>1</sup> / <sub>2</sub>	316	148	10	430	410	270	130	8.5	8.5
SF300 <sup>L</sup> <sub>U</sub> 6A <sup>1</sup> / <sub>2</sub>	316	148	10	430	410	270	130	8.5	8.5

