



KSR Series

Single Phase Solid State Relays



- Slim type single phase SSR
- LED indicator of the control input status
- Over heat alarm output of SSR with connector cable
- Available heatsink integrated SSR

Ordering Information

KSR- ① ② ③ ④ ⑤

① Load Voltage	2	90 - 240 VAC	
	5	90 - 480 VAC	
② Load Current			
005	5A	050	50A
015	15A	060	60A
030	30A	080	80A
040	40A		
③ Operate mode		Z	Zero Cross
④ Input voltage	D	24VDC(4-32V)	
	A	220VAC(90-240V 50/60Hz)	
⑤ Heatsink		Mount Type	
	H	Heatsink Type	
	HF	Heatsink + Fan Type	

Specifications

	Low Voltage	High Voltage
Release Time	Cycle of ½ Load + Less than 1 ms	
Output on Voltage Drop	Less than 1.6V (RMS)	Less than 1.8V (RMS)
Leakage Current	Less than 10mA (AC200V)	Less than 20mA (AC480V)
Insulation Resistance		more than 100MQ (DC500V)
Withstand Voltage		AC 5,000V 50/60Hz 1min
Vibration Resistance		10-55-10Hz Peak Amplitude 0.35mm (Dual Amplitude 0.7mm)
Shock Resistance		294m/s ²
Storage Temperature		-30 - +100°C (non-condensing)
Ambient Temperature		-30 - +80°C (non-condensing)
Ambient Humidity		45 - 85%RH

Over temperature alarm specification

Output	NPN Open Collector	
	Opens at 95 ± 5°C of SSR Body temperature	
Maximum Current Rating	50mA DC	
Alarm Voltage Drop	Typical	2.8VDC
	Maximum	4VDC
Visual Indication	Continuous Red LED	
Reverse Polarity Protection	24VDC	

Characteristics

Input Ratings (Ambient Temp of 25°C)

Rated Control Voltage	Control Voltage Range	Control Voltage Levels			Input Current
		Pick-up Voltage	Drop-out Voltage		
24VDC	4-32VDC	Less than 4VDC	More than 1.4VDC		10±3mA
220VAC	90-240VAC	Less than 90VAC	More than 50VAC		10±5mA

Low Voltage Load

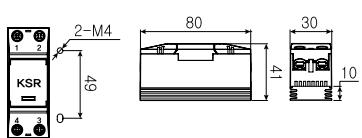
	2005	2015	2030	2040	2050	2060	2080
Rated Load Voltage	AC 220V (50/60Hz)						
Load Voltage Range	AC 90-240V (50/60Hz)						
Rated Load Current	5A	15A	30A	40A	50A	60A	80A
Load Current Range	0.5A - Rated Current @ Ambient Temp of 25°C						
Peak Voltage	600V						
Single Cycle	84	260	420	520	580		
Surge Current Resistance	60Hz, 1 Cycle						

High Voltage Load

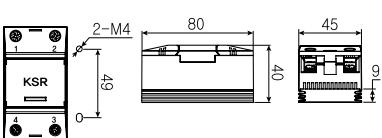
	5005	5015	5030	5040	5050	5060	5080
Rated Load Voltage	AC 440V (50/60Hz)						
Load Voltage Range	AC 90-480V (50/60Hz)						
Rated Load Current	5A	15A	30A	40A	50A	60A	80A
Load Current Range	0.5A - Rated Current @ Ambient Temp of 25°C						
Peak Voltage	1,200V						
Single Cycle	80	250	370	500	580		
Surge Current Resistance	60Hz, 1/2 Cycle						

Dimensions

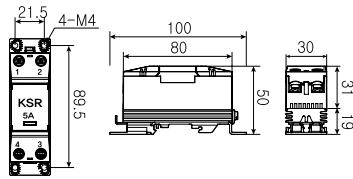
Mount Type 5 / 15 / 30A



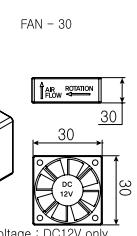
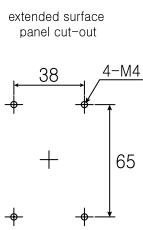
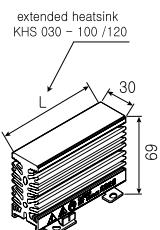
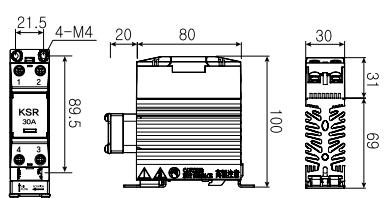
Mount Type 40 / 50 / 60 / 80A



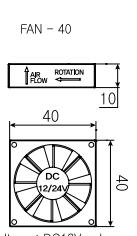
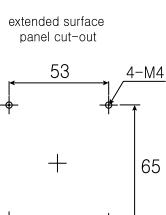
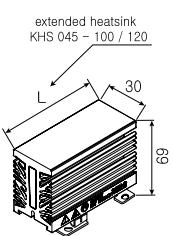
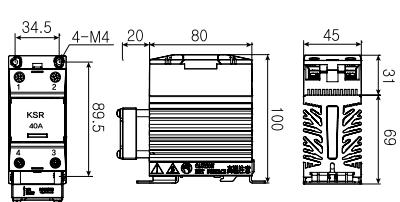
Heatsink Type 5A



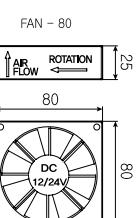
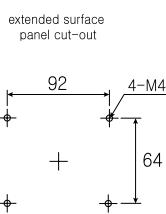
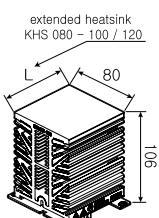
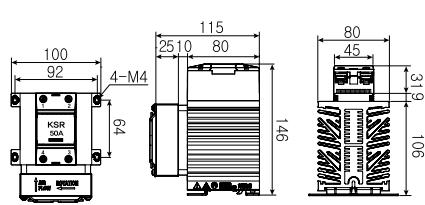
Heatsink + Fan Type 30A



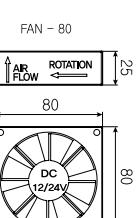
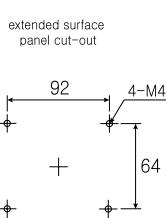
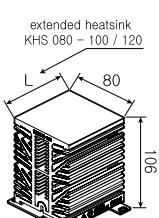
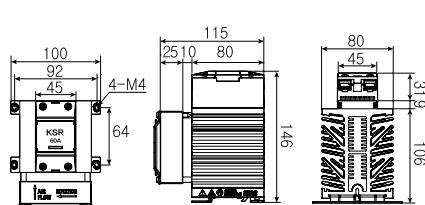
Heatsink + Fan Type 40A



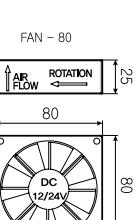
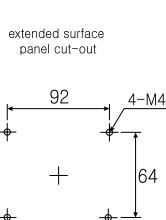
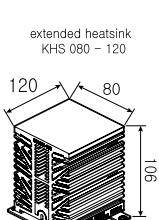
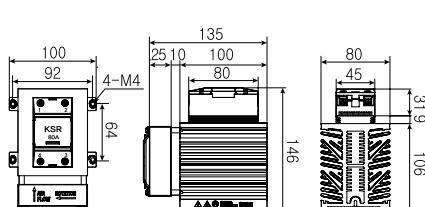
Heatsink + Fan Type 50A



Heatsink + Fan Type 60A



Heatsink + Fan Type 80A



Tower Lights

Beacon Lights

LED Indicators

Buzzer Alarms

Pushbutton Switches

Foot Switches

Limit Switches