

Solid State Relay

SK Series Single Phase AC Output



- Zero Crossing or Random-on Switching
- Rated 25A @ 240VAC, 600VAC
- SCR Output
- Input Range 3-32VDC, 4-32VDC, 18-36VAC
- With Integrated Heatsink
- IP20 Touch Safe Housing
- Built-in RC Snubber Circuit
- 35mm DIN Rail Mount (EN50022)

Product Selection

ASR	—	SK	240	D	25	Z	-T	K
	Packing - : Bulk Packing A-Z	SK Series	Load Voltage 240:240VAC 600:600VAC	Control Voltage Type D:DC Control E:24VAC Control	Load Current 25:25Amp	Switching Mode Z: Zero Crossing R: Random- on	Overvoltage Protection Blank: Without M:MOV T:TVS	Heatsink K:ASR-HSK90 L:ASR-HSL90

Technical Specification

INPUT CIRCUIT		
Control Voltage Range	240VAC - DC Control	3-32VDC
	600VAC - DC Control	4-32VDC
	Control-E	18-36VAC/15-36VDC
Must Turn-on Voltage	240VAC	3VDC
	600VAC	4VDC
	Control-E	18VAC/15VDC
Must Turn-off Voltage	240VAC/600VAC	1VDC
	Control-E	5VAC/VDC
Maximum Input Current	240VAC/600VAC - DC	20mA@32VDC
	Control-E	20mA@32VAC/VDC
Maximum Reverse Voltage	240VAC/600VAC - DC	-32VDC

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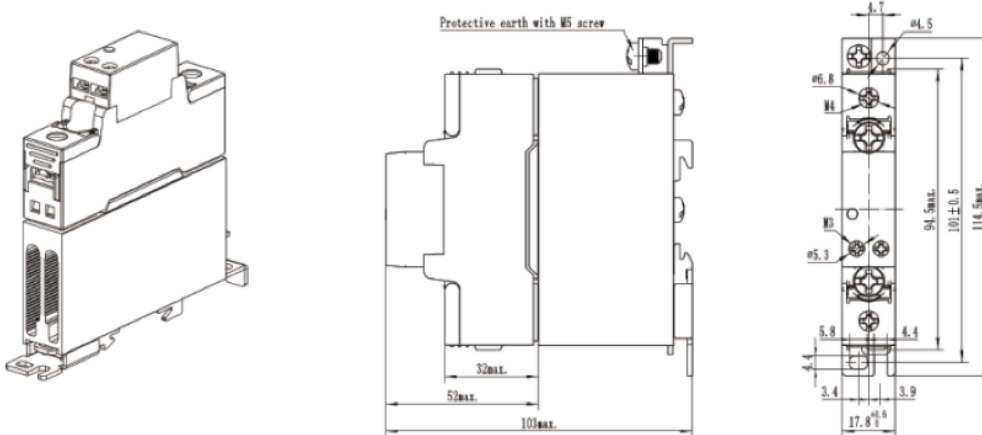
OUTPUT CIRCUIT		
Load Voltage (45~65Hz)	240VAC	24-280VAC
	600VAC	24 -660VAC
Maximum Turn-on Time	DC Input Random-on	1ms
	DC Input Zero-crossing	½ cycle + 1ms
	AC Input	30ms
Maximum Turn-off Time	DC Input	½ cycle + 1ms
	AC Input	30ms
Maximum Operation Current (@25°C)	w/HSK90	30A
	w/HSL90	35A
Maximum Operation Current (@40°C)	w/HSK90	25A
	w/HSL90	30A
Maximum Surge Current (@10ms)		800A _{pk}
Maximum I ² t For Fusing [@10ms]		3200A ² S
Minimum Load Current		100mA
Transient Overvoltage	240V	800V _{pk}
	600V	1200V _{pk}
TVS Breakdown Voltage	240V	480V
	600V	1100V
Maximum Off-state Leakage Current [@ Rated Voltage]		3mA
Maximum On-state Voltage Drop [@ Rated Current]		1.5V _{rms}
Minimum Off-state dv/dt [@ Maximum Rated Voltage]		500V/μs

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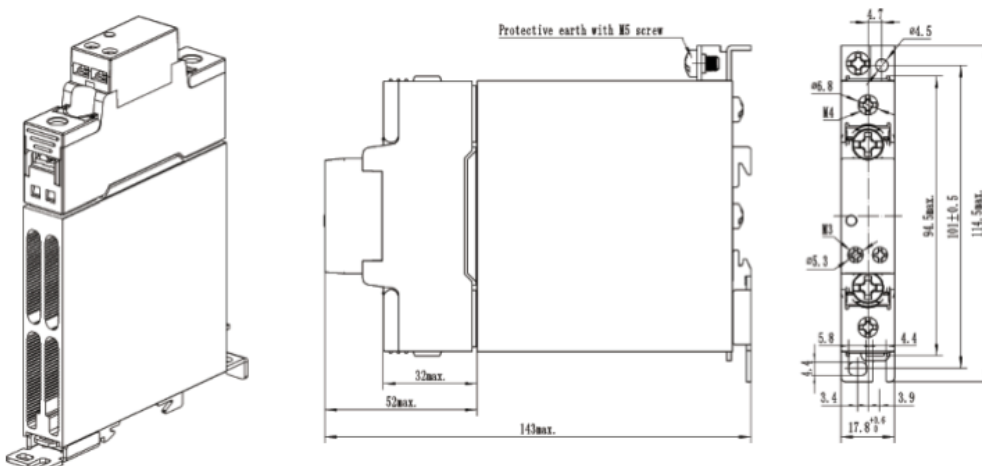
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GENERAL INFORMATION (TA=25°C)		
Dielectric Strength [50/60Hz]	Input/Output	4000Vrms
	Input,Output/Base	4000Vrms
Insulation Resistance		1000MΩ
Ambient Operating Temperature Range		-30°C - +80°C
Ambient Storage Temperature Range		-30°C - +100°C
Weight [Typical]	w/HSK90	190g
	w/HSL90	260g

With HSK90 Heatsink



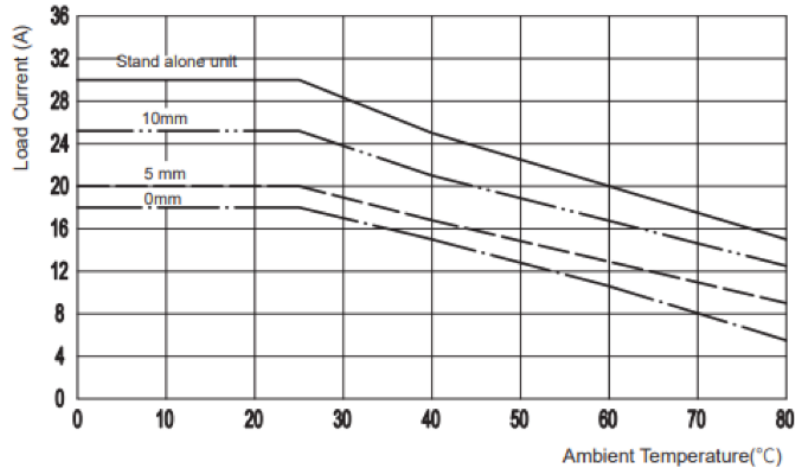
With HSL90 Heatsink



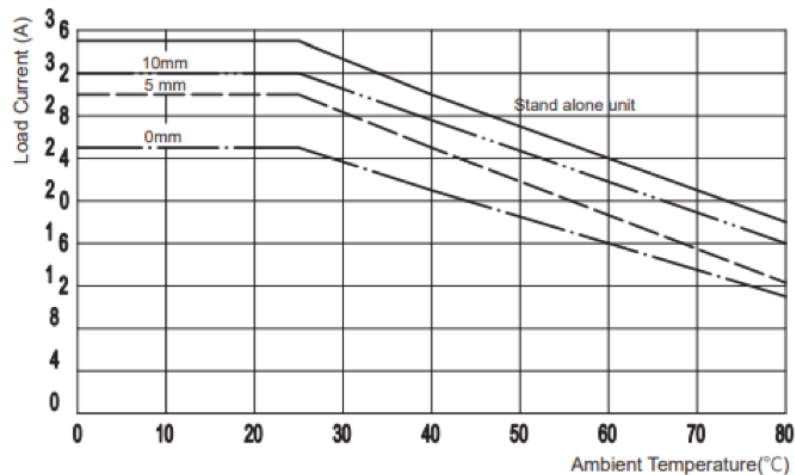
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With HSK90 Heatsink



With HSL90 Heatsink



Attentions:

1. When ambient temperature is above 25°, the maximum load current decreases. See thermal derating curve.
2. When connecting wiring to SSR please ensure screws are torqued down to the specs below.
3. Please use a suitable screwdriver to mount the relay, please refer to the following requirements:

	INPUT TERMINAL	LOAD TERMINAL	P.E. SCREW
Recommended Torque	(0.35-0.5) N-m	(0.98-1.37) N-m	< 1.5 N-m
	(3.1-4.4) in-lb	(8.7-12.1) in-lb	< 13.2 in-lb

Product Certification



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