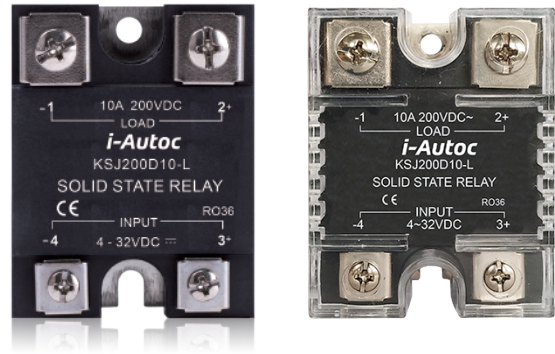


Product Description

- ◆ MOSFET or IGBT Output
- ◆ Low Impedance
- ◆ 4-32VDC Control Input
- ◆ Load Current: 7A-100A
- ◆ Dielectric Strength: 2500Vrms
- ◆ Internal Over-voltage Protection
- ◆ LED Indicator
- ◆ RoHS Compliant



Ordering Information

KSJ	50	D	40	-L	(XXX)
KSJ Series (1)	Load Voltage 30:0-24VDC 50:0-36VDC 60:0-48VDC 100:0-75VDC 200:0-120VDC 400:3-300VDC 600:3-500VDC 1200:3-700VDC	DC Control	Load Current 7: 7Amp 10: 10Amp 20: 20Amp 25: 25Amp 40: 40Amp 50: 50Amp 80: 80Amp 100: 100Amp	LED Indicator	Customized Code

Note (1): Note: Part numbers available are listed in the table below.

	30VDC	50VDC	60VDC	100VDC	200VDC	400VDC	600VDC	1200VDC
7A			KSJ60D7-L					
10A					KSJ200D10-L			
20A				KSJ100D20-L	KSJ200D20-L			
25A						KSJ400D25-L	KSJ600D25-L	KSJ1200D25-L
40A		KSJ50D40-L		KSJ100D40-L	KSJ200D40-L			
50A	KSJ30D50-L		KSJ60D50-L				KSJ600D50-L	KSJ1200D50-L
80A		KSJ50D80-L		KSJ100D80-L				
100A	KSJ30D100-L							

General Specifications

Input Specifications (Ta=25°C)	
Control Voltage Range	4-32VDC
Must Turn-on Voltage	4VDC
Must Turn-off Voltage	1VDC
Maximum Input Current	25mA @32VDC
Maximum Reverse Voltage	32VDC

General Specifications

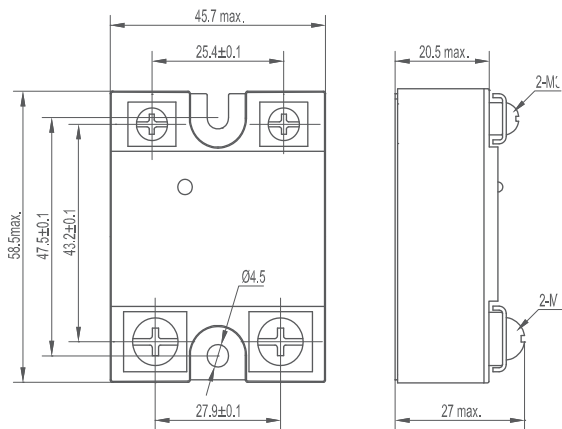
Output Specifications (Ta=25°C)																		
Ordering Information	KSJ30D□-L		KSJ50D□-L		KSJ60D□-L		KSJ100D□-L			KSJ200D□-L			KSJ400D25-L		KSJ600D□-L		KSJ1200D□-L	
	50	100	40	80	7	50	20	40	80	10	20	40			25	50	25	50
Transistor Voltage (VDC)	55		75		100		150			250			600		1200		1200	
Load Voltage Range (VDC)	0-24		0-36		0-48		0-75			0-120			3-300		3-500		3-700	
TVS Breakdown Voltage Scope (V)	37.1-41		53.2-58.8		64.6-71.4		105-116			190-210								
MOV Protective Voltage Scope (V)													423-517		675-825		738-902	
Maximum Load Current (A)	50	100	40	80	7	50	20	40	80	10	20	40	25		25	50	25	50
Maximum Surge Current (Apk.@10ms)	150	250	120	200	30	150	60	120	200	30	60	120	75		75	150	75	150
Maximum On-State Resistance (mΩ)	4.2	2.1	12	6	14	7	13	13	6.5	60	30	30						
Maximum On-State Voltage Drop@Rated Current (V)														1.75				
Maximum Off-State Leakage Current@Rated Load Voltage (mA)												0.1				0.5		
Minimum Load Current (mA)												2				2		
Maximum Turn-on Time (ms)												0.3				1		
Maximum Turn-off Time (ms)												0.3				1		

General Specifications (Ta=25°C)		
Dielectric Strength (50/60Hz)	Input/Output	2500Vrms
	Input, output/Base	2500Vrms
Minimum Insulation Resistance (@500VDC)	1000MΩ	
Ambient Temperature Range	-30°C ~ +80°C	
Storage Temperature Range	-30°C ~ +100°C	
Weight (Typical)	100g	

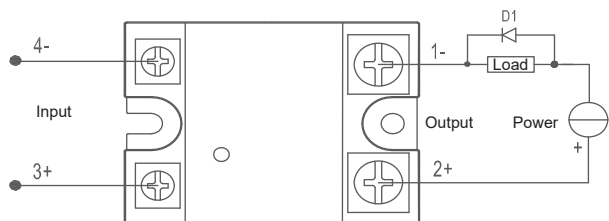
Applications

Control heating, DC power supplies, electromechanical valves, motors, medical equipment, and etc.

Outline Dimensions/Wiring Diagram



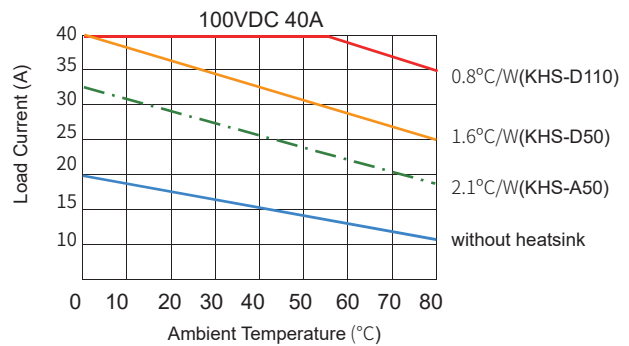
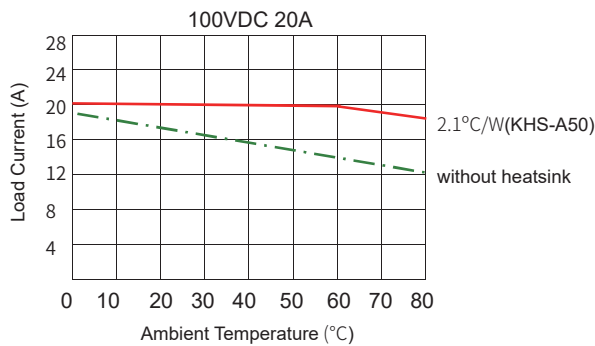
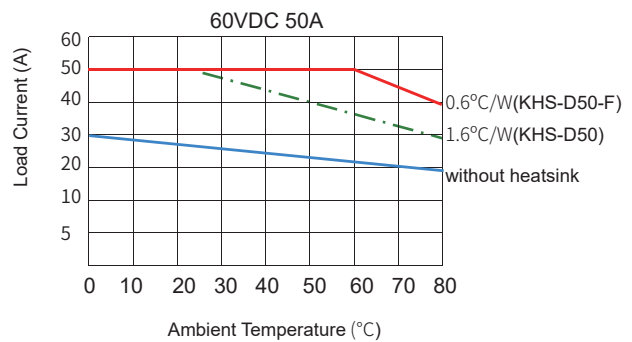
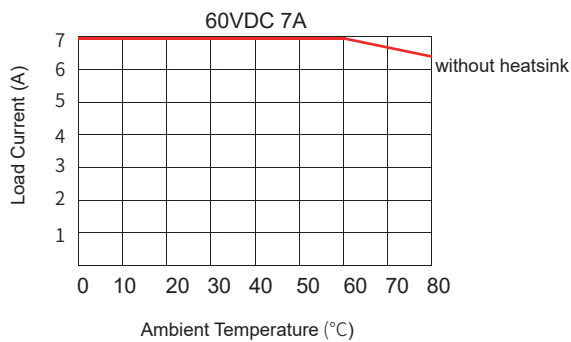
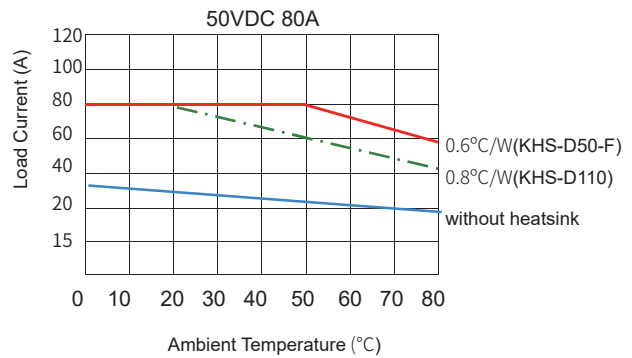
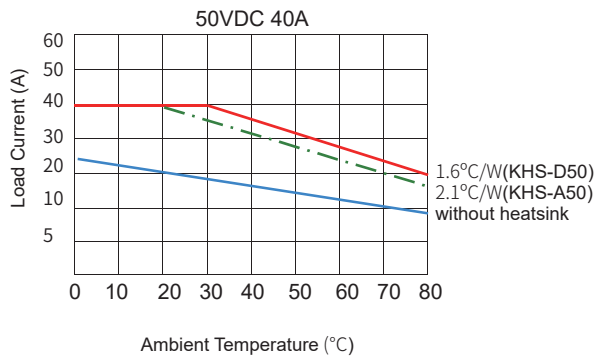
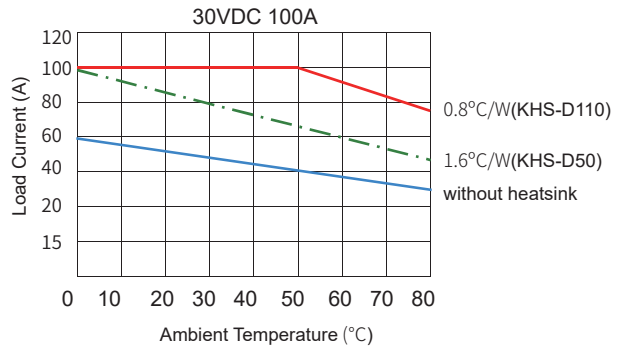
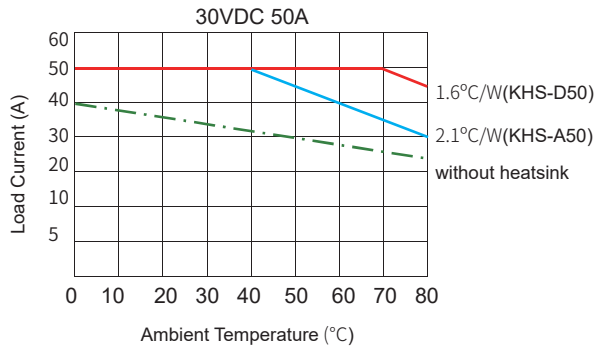
Outline Dimensions

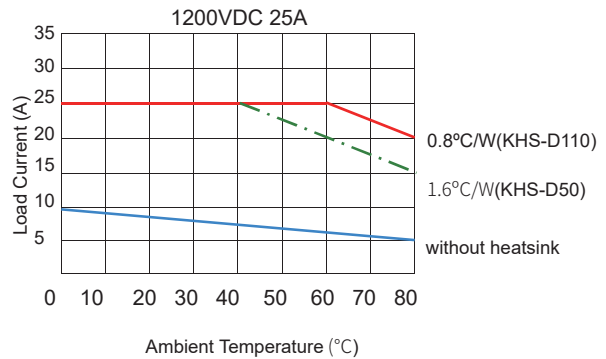
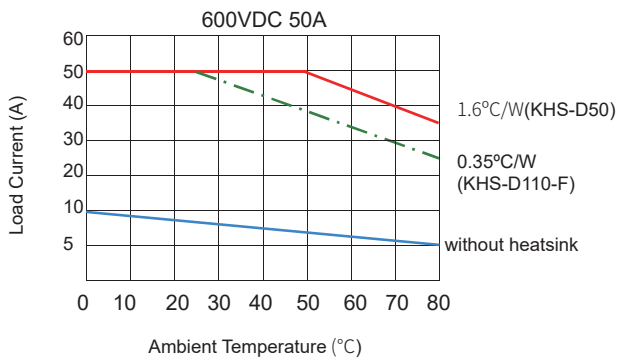
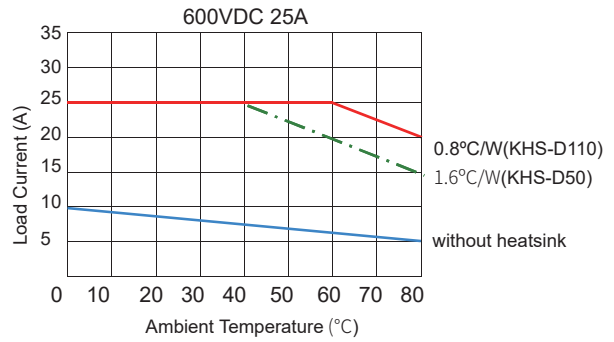
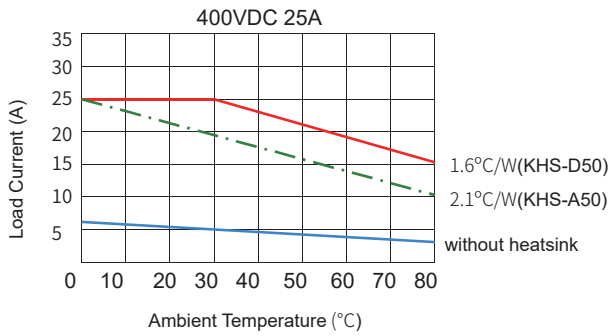
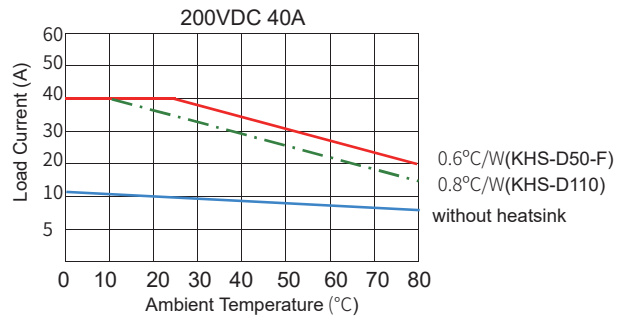
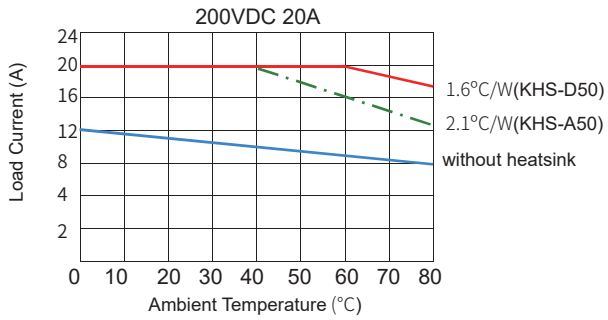
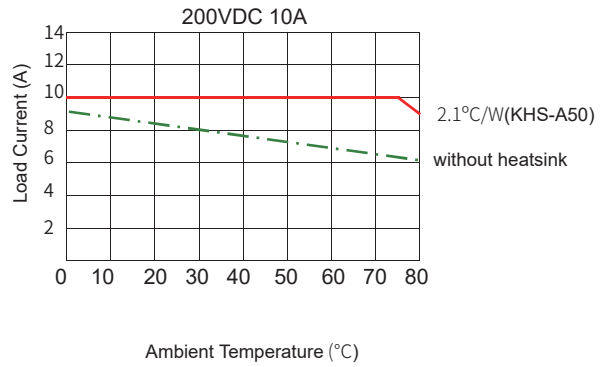
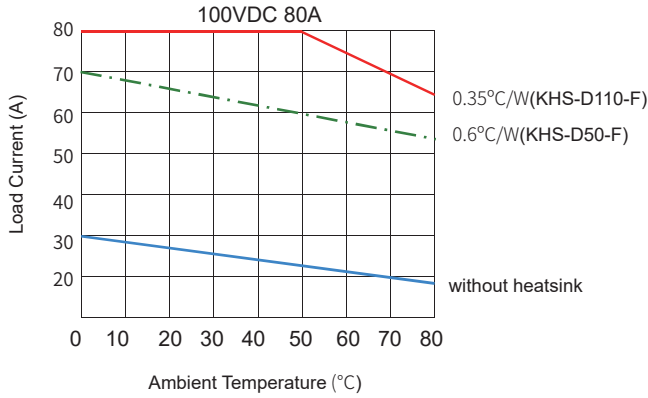


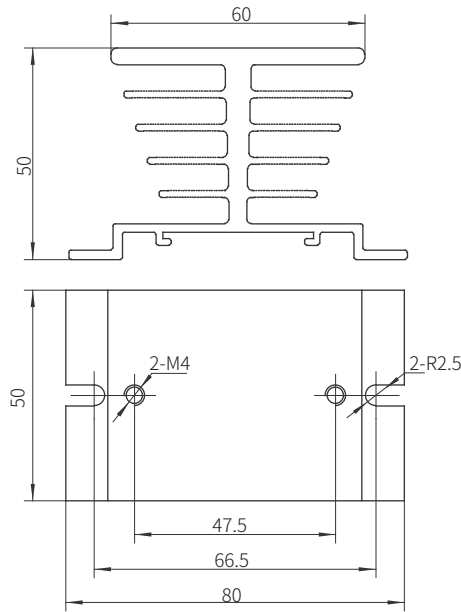
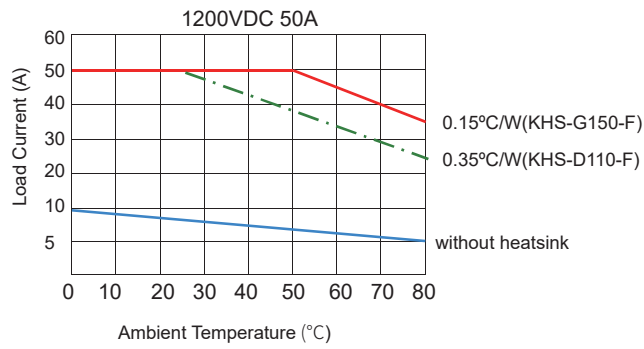
When the relay is used for inductive load control, please be sure to use a suppression circuit, just like the drawing above. Both load terminals are inverse paralleled with a fly-wheel diode D1.
D1: Fast Recovery Diode

Wiring Diagram

Thermal Derating Curve

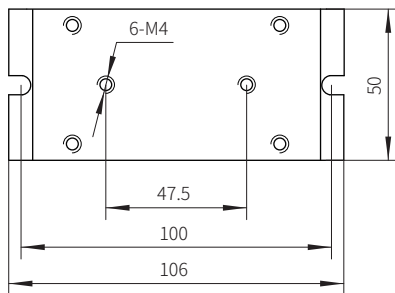
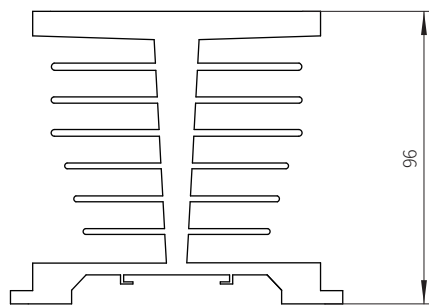
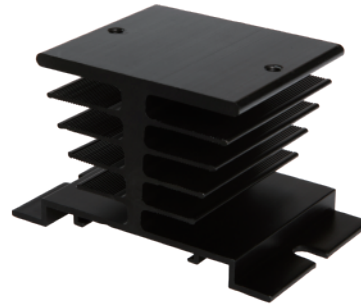






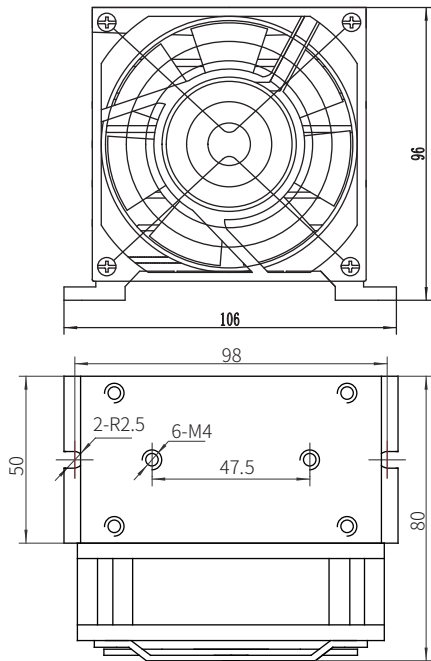
KHS-A50

(Note: The recommended mounting hole size is 68mm)

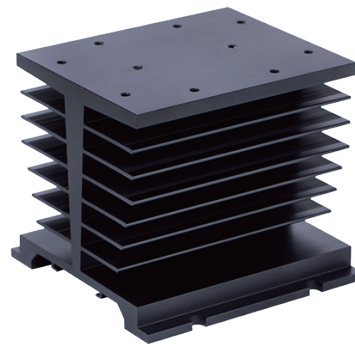
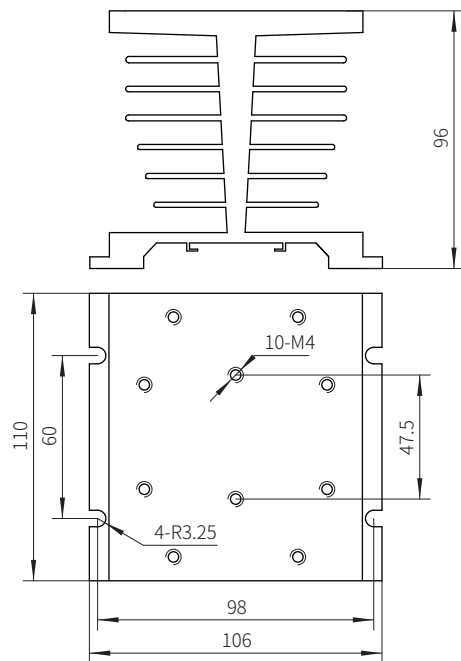


KHS-D50

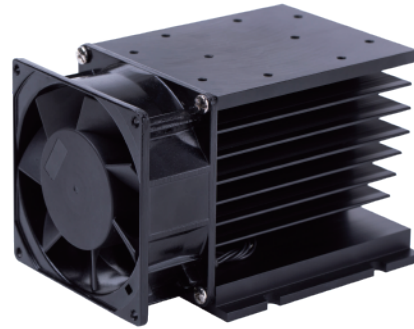
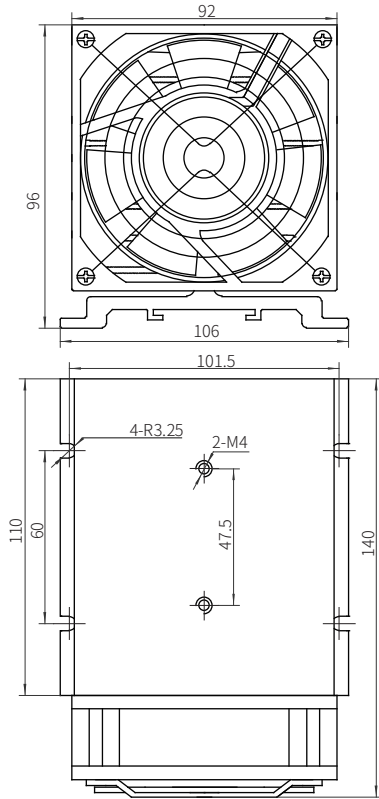




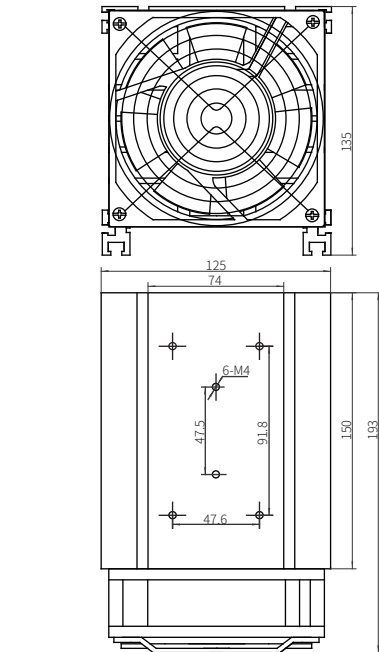
KHS-D50-F



KHS-D110



KHS-D110-F



KHS-G150-F

General Notes

1. Relay must be mounted to proper sized heat sink based on thermal curves. Thermal grease or a thermal pad must be used between relay and heat sink and be torqued down to 18-20/2.0-2.2in-lb/Nm.
2. When connection wiring to SSR, please ensure screws are torqued down properly (input 13-15/1.5-1.7in-lb/Nm, output 18-20/2.0-2.2 in-lb/Nm).
3. SSR's carrying load capacity is related to the operation ambient temperature and heat dissipation condition, please refer to the Thermal Derating Curve for derating.