

Solid State Relay

KSL Series Single Phase DC Output

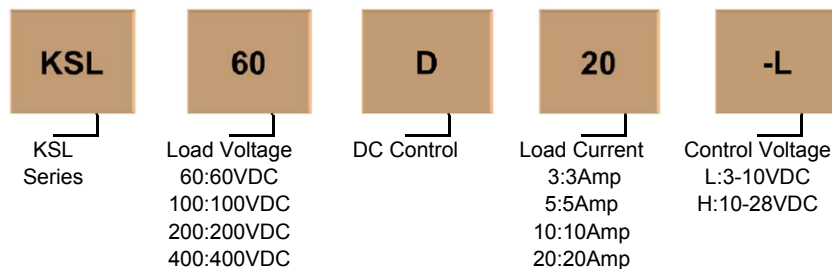


- MOSFET output
- Low on-state resistance
- Opto-isolation
- Dielectric strength $\geq 2500V_{rms}$
- PCB mounted
- RoHS compliant

Product Description

KSL series is printed board mounted DC output solid state relay. Compact size, high inrush current, suitable for control and isolation between control signal and high current. Widely used in different kinds of DC motor, DC power supply, electromechanical device etc. Load voltage is 60VDC, 100VDC, 200VDC, 400VDC.

Product Selection



Control Voltage	3A	5A	10A	20A
L	KSL400D3-L	KSL200D5-L	KSL100D10-L	KSL60D20-L
H	KSL400D3-H	KSL200D5-H	KSL100D10-H	KSL60D20-H

Technical Specification

Input Circuit

Control Voltage Range	L	3-10VDC
	H	10-28VDC
Minimum Turn-On Voltage	L	3VDC
	H	10VDC
Minimum Turn-Off Voltage		1.0VDC
Maximum Input Current		35mA

Output Circuit

Load Voltage Range	60	0-60VDC
	100	0-100VDC
	200	0-200VDC
	400	0-400VDC

Transient Overvoltage	60	80Vpk
	100	120Vpk
	200	250Vpk
	400	500Vpk
Maximum Surge Current (@10 ms)	3A	15A
	5A	25A
	10A	50A
	20A	100A
Maximum Turn-On Time		1ms
Maximum Turn-Off Time		1ms
Maximum Off-State Leakage Current [@ Rated Voltage]		0.1mA
Maximum On Resistance	3A	200mΩ
	5A	60mΩ
	10A	15mΩ
	20A	3.6mΩ

General Information

Dielectric strength Input/Output (50/60Hz) $\geq 2500V_{rms}$

Ambient Operating Temperature Range $-30^{\circ}C \sim +80^{\circ}C$

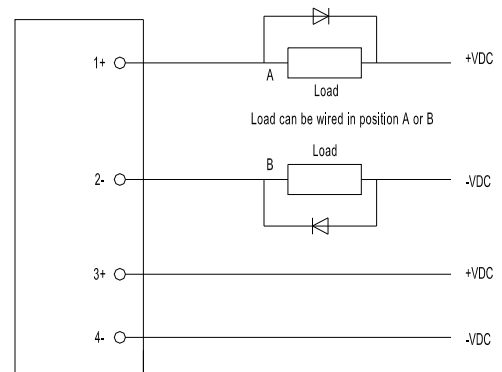
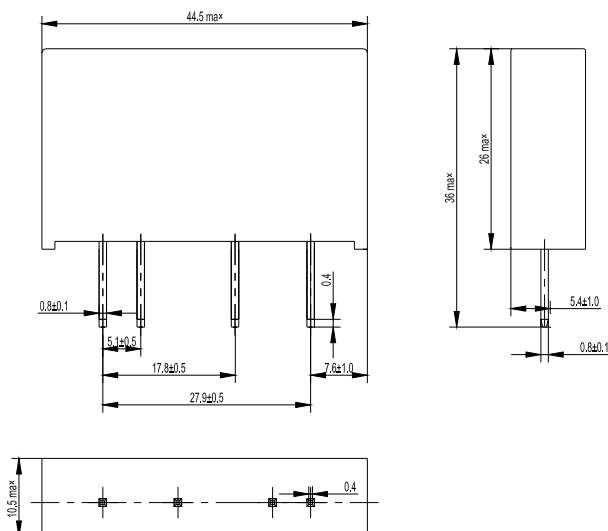
Ambient Storage Temperature Range $-30^{\circ}C \sim +100^{\circ}C$

Weight (typical) 20g

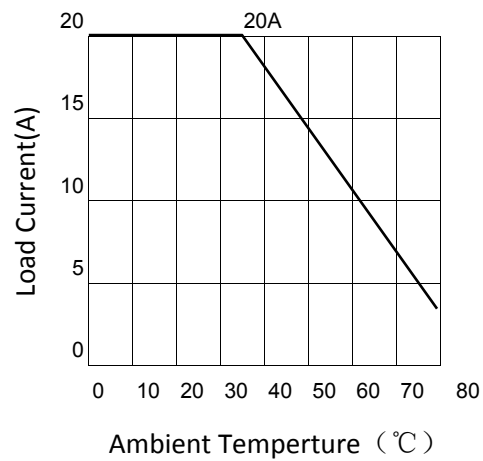
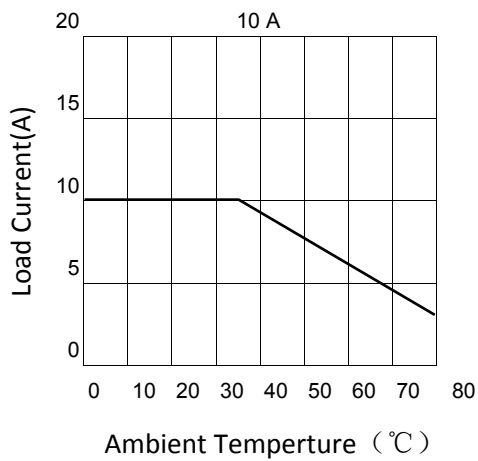
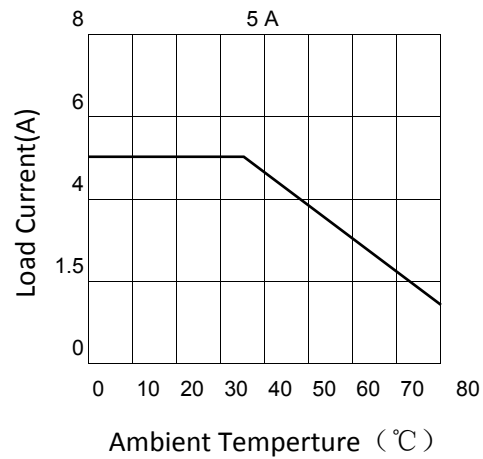
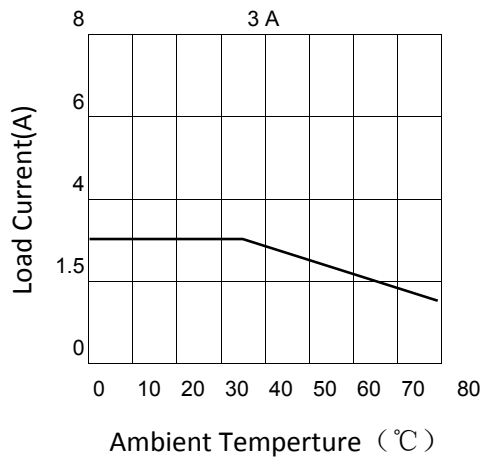
Application

Suitable for control and isolation between control signal and high current as interface, widely used in different kinds of DC motor, DC power supply, electromechanical device etc.

Installation



Thermal Curve



Important Notice

1. Soldering must be finished within 10 seconds at 250°C, and finished within 5 seconds at 350°C.
2. Terminal polarity to ensure proper control, or may damage the product.
3. The product is electrostatic sensitive devices, during the installation process, personnel and equipment must be electrostatic protection, otherwise may damage the product.

Product Certification

