

Solid State Relay

KSFA Series Single Phase AC Output

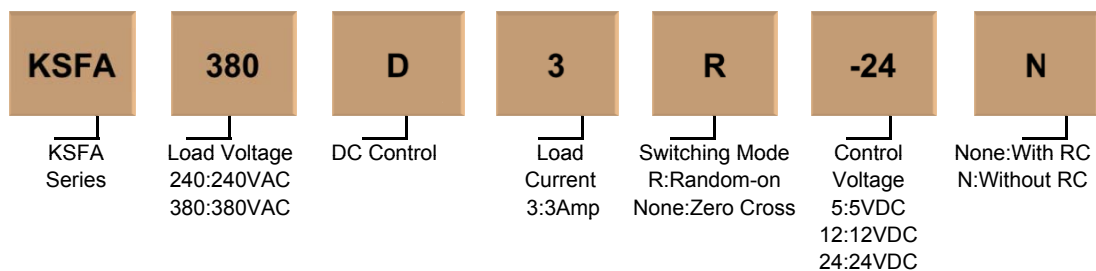


- Load current:3A@48-440VAC
- Control voltage:5VDC,12VDC,24VDC
- High surge current ability
- Dielectric strength 4000VACrms
- PCB mounted
- RoHS compliant

Product Description

KSFA series is PCB mounted AC output solid state relay. Small volume with high surge current ability, load voltage is 240VAC, 380VAC. Suitable for various occasions circuit signal lamp, mining lights, electromagnetic valve, motor, heater, vending machines, medical equipment, elevators and electric control door etc.

Product Selection



Control Voltage	240	380
4-6VDC	KSFA240D3-5	KSFA380D3-5
9-15VDC	KSFA240D3-12	KSFA380D3-12
19-32VDC	KSFA240D3-24	KSFA380D3-24

Technical Specification

Input Circuit

Control Voltage Range	5	4-6VDC
	12	9-15VDC
	24	19-32VDC
Minimum Turn-On Voltage	5	4VDC
	12	9VDC
	24	19VDC
Minimum Turn-Off Voltage		1.0VDC
Maximum Input Current		15mA

Output Circuit

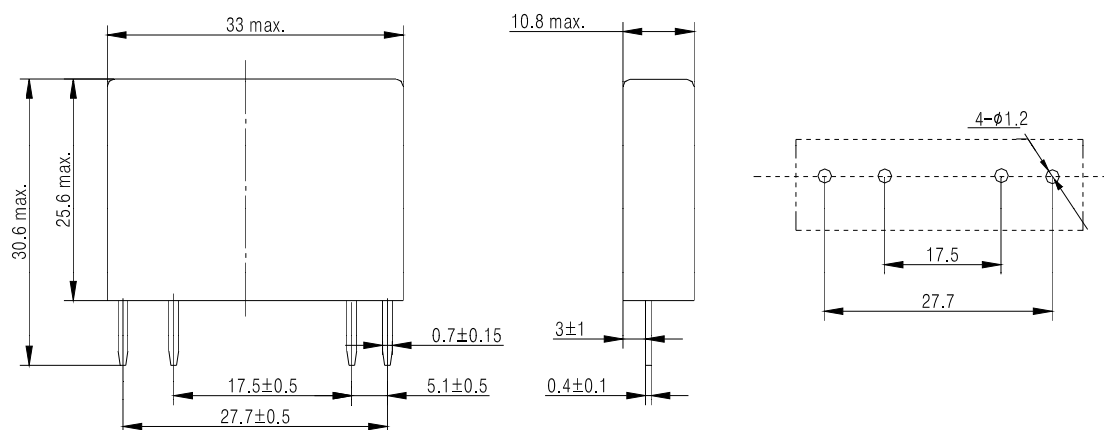
Load Voltage Range	240	48-280VAC
	380	48-440VAC
Transient Overvoltage		800Vpk
Maximum Surge Current (@10 ms)		100A

Maximum Turn-On Time	Random-on	1ms
	Zero Cross	1/2 Cycle+1ms
Maximum Turn-Off Time		1/2 Cycle+1ms
Load Current Range		0.1-3A
Maximum Off-State Leakage Current [@ Rated Voltage]	Without RC	1mA
	With RC	3mA
Maximum On-State Voltage Drop [@ Rated Current]		1.5Vrms
Minimum Off-State dv/dt [@ Maximum Rated Voltage]		200V/ μ s
General Information		
Dielectric strength Input/Output (50/60Hz)		≥ 4000 Vrms
Ambient Operating Temperature Range		-30 $^{\circ}$ C ~ +80 $^{\circ}$ C
Ambient Storage Temperature Range		-30 $^{\circ}$ C ~ +100 $^{\circ}$ C
Weight (typical)		20g

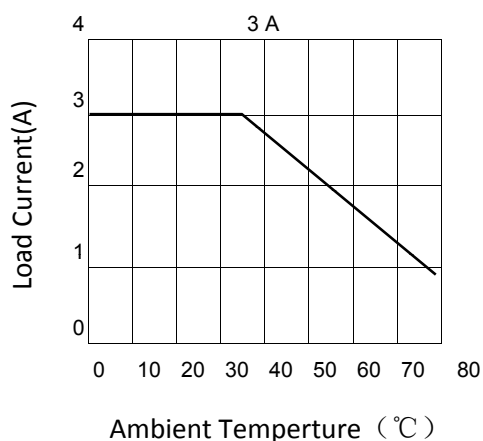
Application

Suitable for various occasions circuit signal lamp, mining lights, electromagnetic valve, motor, heater, vending machines, medical equipment, elevators and electric control door 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.

Product Certification

