

# Solid State Relay

Type:SP0523A

Order No.:1060001



- Single phase AC solid state relay
- Zero cross switching
- Rated operational current:5Aac
- Rated operational voltage:230Vac
- Control voltage:3-32Vdc
- Output over voltage protection:varistor



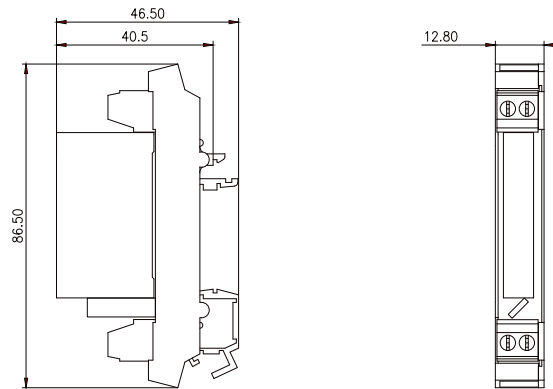
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## Dimensions(mm)



## Inputs Specifications

Control voltage	3-32Vdc
Pick-up voltage	2.8Vdc
Drop-out voltage	1.2Vdc
Max. input current	18mA
Max. reverse voltage	40Vdc
Response time pick-up	< 10ms
Response time drop-out	< 10ms

## Outputs Specifications

Rated operational current@Ta=25°C	AC51:5Aac , AC53a:3Aac
I <sup>2</sup> t value for fusing (t=10ms)	340A <sup>2</sup> s
Critical rate of rise of on-state current (di/dt)	50A/μs
Non repetitive surge peak on-state current (t=20ms)	250A
Off-state leakage current	< 1mA
Rated operational voltage range	12-265Vac
Operational frequency range	45-65Hz
Critical dV/dt off state min.	1500V/μs
Blocking voltage	1200V
On-state voltage drop @ rated current	1.5V

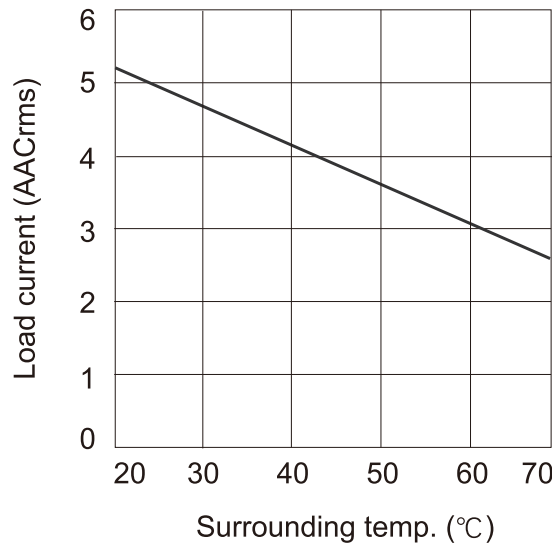
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## General Specifications

Operating temperature	-20°C - +70°C
Storage temperature	-40°C - +100°C
Material	ABS+PC,PA66
Potting compound	Flame-retardant flexible silicone rubber
Isolation: input to output	4 kVac RMS
Approvals	CE

## Derating Curve



Derating curve is used for finding max. load current at an elevated ambient temperature. When used at full load current, the relays must be placed vertically. If more than one relay is mounted, please allow a minimum distance of 20 mm in between for sufficient air cooling.

## Wiring Diagrams

