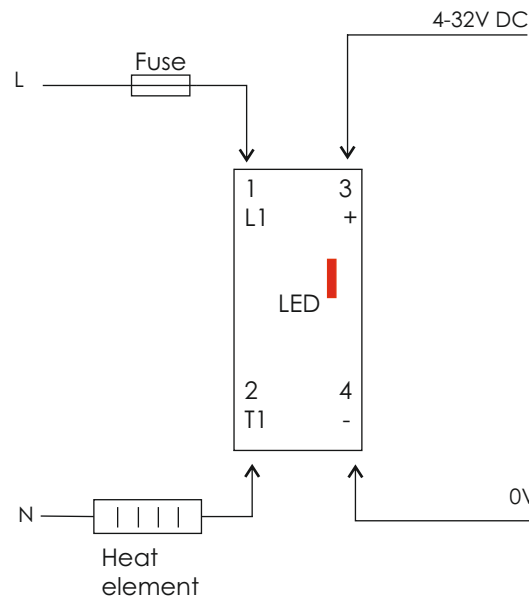
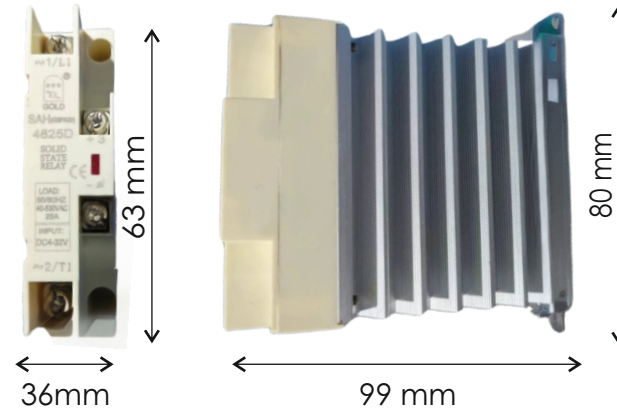


# Solid state relay - single phase 20A

Partnumber 44320

Parameter	Unit	
Control voltage range	VDC	4 - 32
Control current range	mA	7 - 12
Minimum turn-on voltage	VDC	3.0
Minimum turn-off voltage	VDC	1.0
Nominal Input Impedans	Current regulated	
Maximum Turn-On Time	msec	1/2 cycle
Maximum Turn-Off Time	msec	1/2 cycle
Transient Overvoltage	Vpk	1000
Max. Off-State Leakage Current @ Rated Voltage	mArms	5
Minimum Off-State dv/dt @ Maximum Rated Voltage	V/ $\mu$ sec	300
Maximum Load Current	A rms	25
Minimum Load Current	A rms	0.15
Maximum 1 Cycle Surge Current (50/60Hz)	Apk	392/410
Maximum On-State Voltage Drop @ Rated Current	Vrms	1.15
Thermal Resistace Junction to Case (Rjc)	$^{\circ}$ C/W	1.12
Maximum 1/2 Cycle I <sup>2</sup> t for Fusing 50/60Hz)	A <sup>2</sup> sec	285/259
Mininum Power Factor (with Maxuimum Load)		0.5



## Technical specifications :

Power supply: 40-530V AC, 47 - 63Hz.  
 Load: 20A  
 Control Voltage: 4 - 32V DC, 7 - 12mA  
 Pickup 3V, Drop out voltage 1V

Dielectric Strenght  
 Input/Output/Base (50/60Hz: 4000 Vrms  
 Min. Insulation Resistance: 10<sup>9</sup>Ohm (@500V DC)  
 Max. Capacitance, Input/output: 8 pF

Enclosure: IP00 with cover plate  
 Op. temperature: -40 - 80 $^{\circ}$ C  
 Humidity: Max. 85% non-condensing

Weight: 433g.  
 Size (WxHxL): 36x80x99mm

## Description :

Solid power output for DIN rail mounting in cabinet.

Solid state relays are used when a control system is required to switch on and off a 40 - 530V AC load by a control signal (on - off). When the control input receives between 4 and 32V DC, the unit automatically switches on when it passes the zero voltage point, and switches off next time it passes the zero voltage point when voltage is removed. When used for electric heating the actual load current must not exceed 18A.

## Adjustment:

No adjustment required.  
 A red light diode displays the control signal.

## Mounting:

The module must be mounted on a horizontal DIN rail to ensure correct cooling and a stable base.

If more modules are mounted in the same DIN rail, the distance between modules must be minimum 30 mm.

Drawing: 950-209154 Solid State Relay 1-phase 20A  
 Date: 15/07-2024  
 Drawn by: DF/UP  
 Rev.: 1.0  
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