

# SSRF

- SINGLE-PHASE SOLID STATE RELAY WITH FUSE, FUSE AND VARISTOR
- ZERO-CROSSING SWITCHING



## FEATURES

### PRODUCT DESCRIPTION

### SSRF (RGC1F)

The solid state relay includes two functions in one device: switching and short circuit protection via fuse semiconductor.  
The front panel can be easily opened to ensure fast access to the fuse; the housing accepts several types of fuses for countless applications.  
The product has a width of 35 mm, a maximum voltage of 600 VAC and a current of 40 ACA.  
The technical specifications below refer to an ambient temperature of 25 °C.

### INPUT

Control voltage	4.5... 32 VDC
Maximum reverse voltage	32 VDC
OFF voltage	1 VDC
Response time from ON	1/2 cycle
Response time from OFF	1/2 cycle

### OUTPUT

Rated current AC 51 @ T=40°C	20... 40 ACA depending on the model
Minimum operating current	0.2 A
Non-repetitive overcurrent t = 10 ms	325... 1150 Ap depending on the model
Maximum leakage current	3 mA
I <sup>2</sup> t built-in fuse @ 690V (dimensions 14 x 51)	740... 3100 A <sup>2</sup> s depending on the model
Critical switching dv / dt	1000 V/μs

### GENERAL

Rated voltage	600 VAC
Control voltage	4.5... 32 VDC
Rated frequency	45... 65 Hz
Power factor	0.5 @ V rated
Weight	Approx. 260g
Connections	Screw
Operating Temperature/ storage	-30... +80°C (-22... +176°F)/-40... +100°C (-40... +212°F)
Certifications and Compliance	CE, UL listed

## HOW TO ORDER

CODE	DESCRIPTION
SSRF 60020 (RGC1F A60D20GGE)	600V-20A-4.5... 32 VDC
SSRF 60030 (RGC1F A60D30GGE)	600V-30A-4.5... 32 VDC
SSRF 60040 (RGC1F A60D40GGE)	600V-40A-4.5... 32 VDC

## DIMENSIONS

