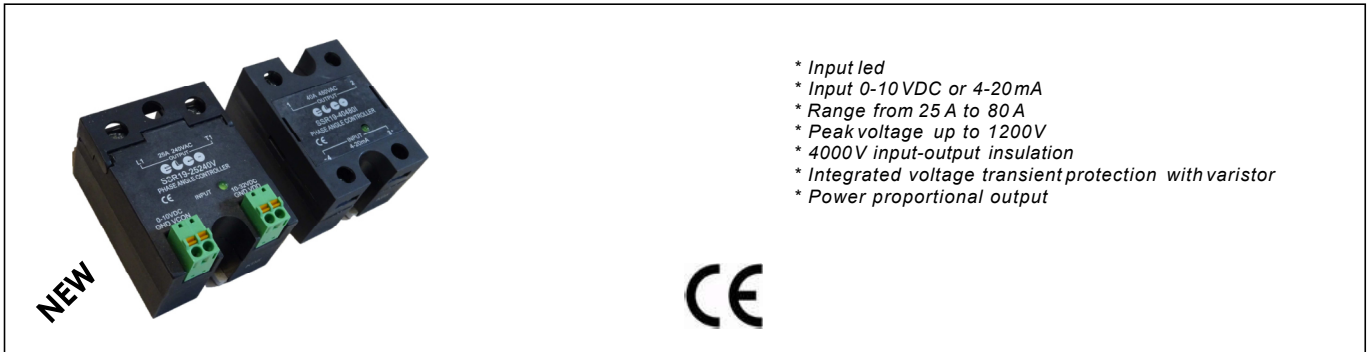


SSR19 SERIES PHASE ANGLE CONTROL SOLID STATE RELAYS



- * Input led
- * Input 0-10 VDC or 4-20mA
- * Range from 25 A to 80 A
- * Peak voltage up to 1200V
- * 4000V input-output insulation
- * Integrated voltage transient protection with varistor
- * Power proportional output

RELAYS SELECTION TABLE

Output current	Output voltage	Input	Auxiliary powersupply	Model
25 A	176-280 VAC	4-20 mA	-	SSR19-25240I
		0-10 VDC	10-32 VDC	SSR19-25240V
	300-530 VAC	4-20 mA	-	SSR19-25480I
		0-10 VDC	10-32 VDC	SSR19-25480V
40 A	176-280 VAC	4-20 mA	-	SSR19-40240I
		0-10 VDC	10-32 VDC	SSR19-40240V
	300-530 VAC	4-20 mA	-	SSR19-40480I
		0-10 VDC	10-32 VDC	SSR19-40480V
60 A	176-280 VAC	4-20 mA	-	SSR19-160240I
		0-10 VDC	10-32 VDC	SSR19-60240V
	300-530 VAC	4-20 mA	-	SSR19-60480I
		0-10 VDC	10-32 VDC	SSR19-60480V
80 A	176-280 VAC	4-20 mA	-	SSR19-80240I
		0-10 VDC	10-32 VDC	SSR19-80240V
	300-530 VAC	4-20 mA	-	SSR19-80480I
		0-10 VDC	10-32 VDC	SSR19-80480V

SSRs must be mounted on heatsinks

For SSRs mounting on the heatsink, it is necessary to use thermal grease or thermal pad.

INPUT TECHNICAL DATA

		Auxiliary power supply voltage	DC	10-32 V
Input: Voltage control	Control voltage range		DC	0 - 10 V
	Turn-on voltage		DC	<= 0,2 V max.
	Turn-off voltage		DC	>= 0,1 V min.
	Input impedance		K Ω	60
Input: Current control	Control current range		mA	4-20
	Turn-on current		mA	<= 4,6 max.
	Turn-off current		mA	>= 3,8 min.
	Input impedance		Ω	200 Tipica / Tipycal **

** Note: when the "I" option is used, the drive voltage should be more than 10V.



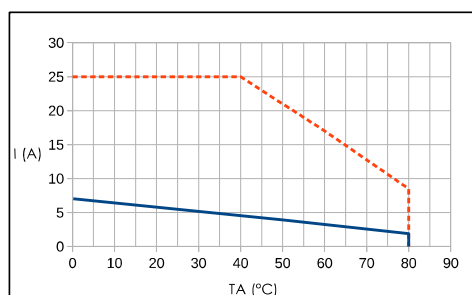
OUTPUT TECHNICAL DATA

Load voltage range	240 VAC	176 - 280 VAC
	480 VAC	300 - 530 VAC
Non repetitive surge peak on state current	25 A	250 A
	40 A	500 A
	60 A	700 A
	80 A	1000 A
I ² t rating [10 ms]	25 A	312 A ² S
	40 A	1250 A ² S
	60 A	2450 A ² S
	80 A	5000 A ² S
Ripetitive peak off-state voltage	176-280 VAC	600 V pk
	300-530 VAC	1200 V pk
Maximum operating voltage by varistors	176-280 VAC	612-748 V
	300-530 VAC	819-1001 V
Output power	0,99%	
Operating frequency range	47-63 Hz	
Off-state leakage current	5 mA (220 VAC/50 Hz)	
Critical rate of rise of off-state voltage dv/dt	500 V/μs	

GENERAL SPECIFICATIONS

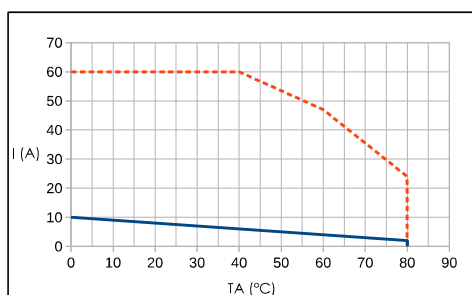
Insulation voltage	Input/Output	4000 V rms
	Input output/Base	2500 V rms
Operating-temperature	-30 °C ÷ 80 °C	
Storage temperature	-30 °C ÷ 100 °C	

DERATING CURVES SSR19 25 A



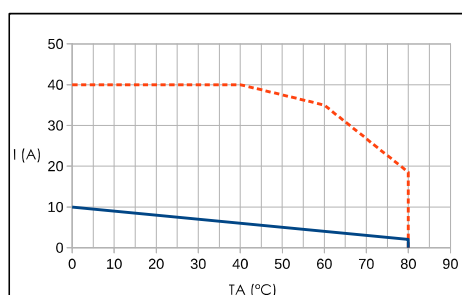
— Free air
 ---- Heat sink (2 °C/W)

SSR19 60 A



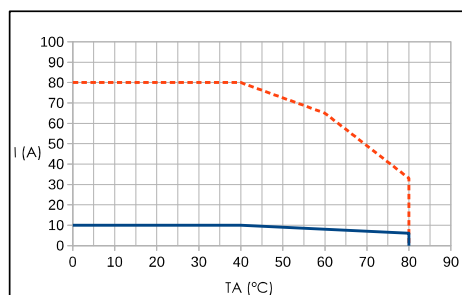
— Free air
 ---- Heat sink (0,7 °C/W)

SSR19 40 A



— Free air
 ---- Heat sink (0,9 °C/W)

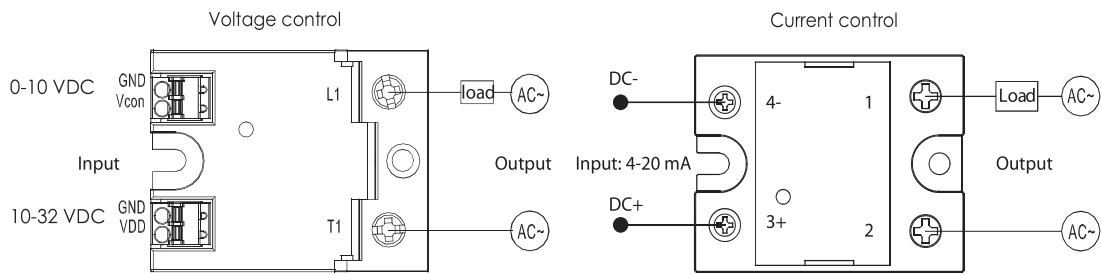
SSR19 80 A



— Free air
 ---- Heat sink (0,45 °C/W)



WIRING DIAGRAM



Nota: Il GND dell'alimentazione ausiliaria e il GND del segnale di ingresso sono collegati fra loro internamente al relè statico.
Note: Auxiliary power supply GND and input signal GND are internally connected together.

DIMENSIONS

