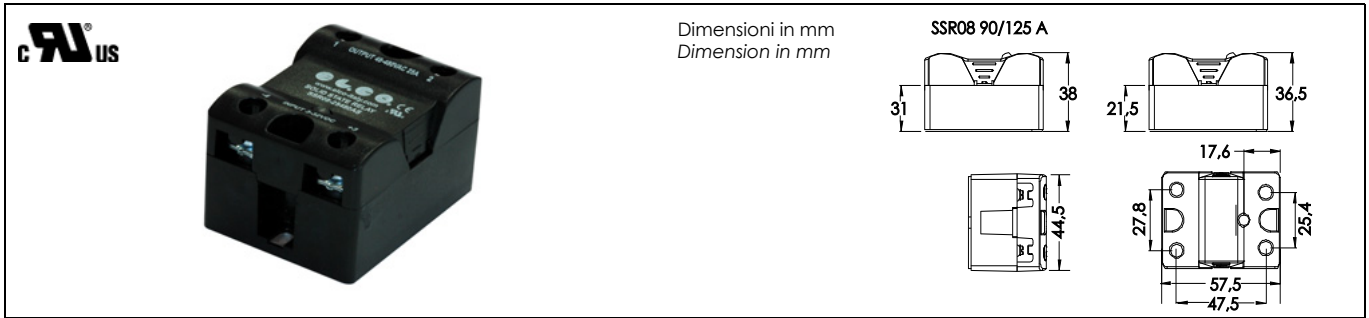


## RELÈ STATICI A SCR SERIE SSR08 SSR08 SERIES SCR SOLID STATE RELAYS



### TABELLA SELEZIONE RELÈ - RELAY SELECTION TABLE

| TIPO DI COMMUTAZIONE ZERO CROSSING<br>ZERO CROSSING COMMUTATION   |                                      |                                       |                  |
|---|--------------------------------------|---------------------------------------|------------------|
| Corrente di uscita<br>Output current  | Tensione di uscita<br>Output voltage | Tensione di ingresso<br>Input voltage | Modello<br>Model |
| 10A   | 48-480 VAC                           | 3-32 VDC                              | SSR08-10480A     |
| 40A   | 48-480 VAC                           | 3-32 VDC                              | SSR08-40480A     |
| TIPO DI COMMUTAZIONE ZERO CROSSING (BACK TO BACK SCR OUTPUT)<br>ZERO CROSSING COMMUTATION (BACK TO BACK SCR OUTPUT) |                                      |                                       |                  |
| 10 A  | 48-480 VAC                           | 3-32 VDC                              | SSR08-10480AS    |
| 25 A  | 48-480 VAC                           | 3-32 VDC                              | SSR08-25480AS    |
|   |                                      | 90-280 VAC                            | SSR08-25480CS    |
| 40 A  | 48-480 VAC                           | 3-32 VDC                              | SSR08-40480AS    |
|   |                                      | 90-280 VAC                            | SSR08-40480CS    |
| 50 A  | 24-280 VAC                           | 3-32 VDC                              | SSR08-50240AS    |
|   |                                      | 90-280 VAC                            | SSR08-50240CS    |
|   | 48-660 VAC<br>(UL 48 - 600 VAC)      | 3-32 VDC                              | SSR08-50660AS    |
|   |                                      | 90-280 VAC                            | SSR08-50660CS    |
| 75 A  | 24-280 VAC                           | 3-32 VDC                              | SSR08-75240AS    |
|   |                                      | 90-280 VAC                            | SSR08-75240CS    |
|   | 48-660 VAC<br>(UL 48 - 600 VAC)      | 3-32 VDC                              | SSR08-75660AS    |
|   |                                      | 90-280 VAC                            | SSR08-75660CS    |
| 90 A  | 24-280 VAC                           | 3-32 VDC                              | SSR08-90240AS    |
|   |                                      | 90-280 VAC                            | SSR08-90240CS    |
|   | 48-660 VAC<br>(UL 48 - 600 VAC)      | 3-32 VDC                              | SSR08-90660AS    |
|   |                                      | 90-280 VAC                            | SSR08-90660CS    |
| 125 A   | 24-280 VAC                           | 3-32 VDC                              | SSR08-125240AS   |
|   |                                      | 90-280 VAC                            | SSR08-125240CS   |
|   | 48-660 VAC<br>(UL 48 - 600 VAC)      | 3-32 VDC                              | SSR08-125660AS   |
|   |                                      | 90-280 VAC                            | SSR08-125660CS   |

- \* Led tensione ingresso
- \* Corrente nominale 10/25/40/50/70/90/125 A
- \* Commutazione zero crossing
- \* Tensione di uscita fino a 660 VAC
- \* Bassa corrente pilotaggio
- \* Tensione di picco fino a 1.200 V
- \* Isolamento ingresso uscite 4.000 V
- \* Protezione con filtro RC
- \* Omologazioni UL -CE

- \* Input voltage led
- \* Rated operational current up to 10/25/40/50/70/90/125 A
- \* Commutation zero crossing
- \* Output voltage from up to 660 VAC
- \* Low control current
- \* Peak voltage up to 1,200 V
- \* 4,000 V input-output insulation
- \* RC filter protection
- \* UL and CE certification

CONFORMI ALLE NORMATIVE EC/ EC REFERENCE STANDARDS

CERTIFICAZIONI UL-CSA / UL-CSA CERTIFICATION  
File-N. E234472

### ACCESSORI - ACCESSORIES

ACCESSORI / ACCESSORIES- ACCESSORIES FOR SOLID STATE RELAYSpag. 86

ACCESSORIES FOR SOLID STATE RELAYSpag. 86

DISSIPATORI - HEAT SINKpag. 86

Gli SSR devono essere montati sui dissipatori di calore (vedere DISSIPATORI - HEAT SINKpag. 86).  
SSRs must be mounted on heatsinks (see DISSIPATORI - HEAT SINKpag. 86).

Per il montaggio degli SSR sul dissipatore di calore, è necessario utilizzare grasso termico o il thermal pad.  
For SSRs mounting on the heatsink, it is necessary to use thermal grease or thermal pad.

### DATI TECNICI USCITA - OUTPUT TECHNICAL DATA

| Modello<br>Model  | SSR08-10480A | SSR08-10480AS | SSR08-25480AS<br>SSR08-25480CS | SSR08-40480A |
|---|--------------|---------------|--------------------------------|--------------|
| Tensione nominale<br>Nominal voltage                                    | 480 VAC      | 480 VAC       | 480 VAC                        | 480 VAC      |
| Range tensione di carico<br>Load voltage range                          | 48-480 VAC   | 48-480 VAC    | 48-480 VAC                     | 48-480 VAC   |
| Picco ripetitivo allo stato di OFF<br>Repetitive peak off-state voltage | 800 VAC      | 800 VAC       | 800 VAC                        | 800 VAC      |
| Corrente uscita<br>Output current                                       | 10A          | 10A           | 25A                            | 40A          |

**DATI TECNICI USCITA - OUTPUT TECHNICAL DATA**

| Modello<br>Model  | SSR08-10480A        | SSR08-10480AS        | SSR08-25480AS<br>SSR08-25480CS | SSR08-40480A         |
|---|---------------------|----------------------|--------------------------------|----------------------|
| Corrente di spunto non ripetitiva<br>Non repetitive surge peak on state current, $t=10ms$                 | 83A                 | 160 A                | 300 A                          | 400 A                |
| I <sup>2</sup> t per scelta fusibile<br>I <sup>2</sup> t rating - $t=10ms$                                | 41 A <sup>2</sup> S | 144 A <sup>2</sup> S | 510 A <sup>2</sup> S           | 880 A <sup>2</sup> S |
| Tempo critico salita tensione allo stato di off dv/dt<br>Critical rate of rise of off-state voltage dv/dt | 200 V/μS            | 400 V/μS             | 300 V/μS                       | 500 V/μS             |
| Caduta tensione in uscita<br>Output voltage drop  | 1,6 VAC             | 1,6 VAC              | 1,6 VAC                        | 1,6 VAC              |
| Perdita di corrente allo stato di off<br>Off-stage leakage current  | 10 mA               | 10 mA                | 10 mA                          | 10 mA                |
| Corrente minima di funzionamento<br>Minimum working current   | 100 mA              | 150 mA               | 75 mA                          | 120 mA               |

**DATI TECNICI USCITA - OUTPUT TECHNICAL DATA**

| Modello<br>Model  | SSR08-40480AS<br>SSR08-40480CS | SSR08-50240AS<br>SSR08-50240CS | SSR08-50660AS<br>SSR08-50660CS | SSR08-75240CS<br>SSR08-75240AS | SSR08-75660AS<br>SSR08-75660CS |
|---|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Tensione nominale<br>Nominal voltage  | 480 VAC                        | 240 VAC                        | 600 VAC                        | 240 VAC                        | 600 VAC                        |
| Range tensione di carico<br>Load voltage range  | 48-480 VAC                     | 24-280 VAC                     | 48-660 VAC                     | 24-280 VAC                     | 48-660 VAC                     |
| Picco ripetitivo allo stato di OFF<br>Repetitive peak off-state voltage                                   | 800 VAC                        | 600 VAC                        | 1200 VAC                       | 600 VAC                        | 1200 VAC                       |
| Corrente uscita<br>Output current   | 40 A                           | 50 A                           | 50 A                           | 75 A                           | 75 A                           |
| Corrente di spunto non ripetitiva<br>Non repetitive surge peak on state current, $t=10ms$                 | 800 A                          | 520 A                          | 520 A                          | 750 A                          | 750 A                          |
| I <sup>2</sup> t per scelta fusibile<br>I <sup>2</sup> t rating, $t=10ms$                                 | 1745 A <sup>2</sup> S          | 1350 A <sup>2</sup> S          | 1350 A <sup>2</sup> S          | 2812 A <sup>2</sup> S          | 2812 A <sup>2</sup> S          |
| Tempo critico salita tensione allo stato di off dv/dt<br>Critical rate of rise of off-state voltage dv/dt | 500 V/μS                       | 1000 V/μS                      | 1000 V/μS                      | 1000 V/μS                      | 1000 V/μS                      |
| Caduta tensione in uscita<br>Output voltage drop  | 1,6 VAC                        | 1,6 VAC                        | 1,6 VAC                        | 1,6 VAC                        | 1,6 VAC                        |
| Perdita di corrente allo stato di off<br>Off-stage leakage current  | 10 mA                          | 10 mA                          | 10 mA                          | 10 mA                          | 10 mA                          |
| Corrente minima di funzionamento<br>Minimum working current   | 250 mA                         | 250 mA                         | 250 mA                         | 250 mA                         | 250 mA                         |

**DATI TECNICI USCITA - OUTPUT TECHNICAL DATA**

| Modello<br>Model  | SSR08-90240CS<br>SSR08-90240AS | SSR08-90660CS<br>SSR08-90660AS | SSR08-125240CS<br>SSR08-125240AS | SSR08-125660AS<br>SSR08-125660CS |
|---|--------------------------------|--------------------------------|----------------------------------|----------------------------------|
| Tensione nominale<br>Nominal voltage  | 240 VAC                        | 600 VAC                        | 240 VAC                          | 600 VAC                          |
| Range tensione di carico<br>Load voltage range  | 24-280 VAC                     | 48-660 VAC                     | 24-280 VAC                       | 48-660 VAC                       |
| Picco ripetitivo allo stato di OFF<br>Repetitive peak off-state voltage                                   | 600 VAC                        | 1200 VAC                       | 600 VAC                          | 1200 VAC                         |
| Corrente uscita<br>Output current   | 90 A                           | 90 A                           | 125 A                            | 125 A                            |
| Corrente di spunto non ripetitiva<br>Non repetitive surge peak on state current, $t=10ms$                 | 1000 A                         | 1000 V                         | 1150 A                           | 1150 A                           |
| I <sup>2</sup> t per scelta fusibile<br>I <sup>2</sup> t rating - $t=10ms$                                | 5000 A <sup>2</sup> S          | 5000 A <sup>2</sup> S          | 6600 A <sup>2</sup> S            | 6600 A <sup>2</sup> S            |
| Tempo critico salita tensione allo stato di off dv/dt<br>Critical rate of rise of off-state voltage dv/dt | 1000 V/μS                      | 1000 V/μS                      | 1000 V/μS                        | 1000 V/μS                        |
| Caduta tensione in uscita<br>Output voltage drop  | 1,6 VAC                        | 1,6 VAC                        | 1,8 VAC                          | 1,8 VAC                          |



**DATI TECNICI USCITA - OUTPUT TECHNICAL DATA**

| Modello<br>Model  | SSR08-90240CS<br>SSR08-90240AS | SSR08-90660CS<br>SSR08-90660AS | SSR08-125240CS<br>SSR08-125240AS | SSR08-125660AS<br>SSR08-125660CS |
|---|--------------------------------|--------------------------------|----------------------------------|----------------------------------|
| Perdita di corrente allo stato di off<br><i>Off-stage leakage current</i> | 10 mA                          | 10 mA                          | 10 mA                            | 10 mA                            |
| Corrente minima di funzionamento<br><i>Minimum working current</i>        | 10 mA                          | 10 mA                          | 10 mA                            | 10 mA                            |

**DATI TECNICI ENTRATA - INPUT TECHNICAL DATA**

| Modello<br>Model  | SSR08-10480A<br>SSR08-10480AS<br>SSR08-25480AS | SSR08-40480A<br>SSR08-40480AS<br>SSR08-50240AS<br>SSR08-50660AS | SSR08-75240AS<br>SSR08-75660AS | SSR08-25480CS<br>SSR08-40480CS<br>SSR08-50240CS<br>SSR08-75240CS<br>SSR08-75660CS | SSR08-50660CS |
|---|--|---|--------------------------------|---|---------------|
| Tensione ingresso<br><i>Input voltage</i>                 | 3-32 VDC                                       | 3-32 VDC  | 3-32 VDC                       | 90-280 VAC  | 90-280 VAC    |
| Corrente di pilotaggio<br><i>Control current range</i>    | 6-25 mA  | 6-25 mA   | 16-28 mA                       | 8-24 mA   | 4-12 mA       |
| Tensione di innesco<br><i>Control pick-up voltage</i>     | 3 VDC  | 3 VDC   | 3 VDC                          | 90 VAC  | 90 VAC        |
| Tensione di disinnesco<br><i>Control drop-out voltage</i> | 1 VDC  | 1 VDC   | 1 VDC                          | 10 VAC  | 10 VAC        |

**DATI TECNICI ENTRATA - INPUT TECHNICAL DATA**

| Modello<br>Model  | SSR08-90240AS<br>SSR08-125240AS<br>SSR08-90660AS<br>SSR08-125660AS | SSR08-90240CS<br>SSR08-125240CS<br>SSR08-90660CS<br>SSR08-125660CS |
|---|--|--|
| Tensione ingresso<br><i>Input voltage</i>                 | 3 - 32 VDC   | 90 - 280 VDC   |
| Corrente di pilotaggio<br><i>Control current range</i>    | 6 - 30 mA  | 8 - 25 mA  |
| Tensione di innesco<br><i>Control pick-up voltage</i>     | 3 VDC  | 90 VDC   |
| Tensione di disinnesco<br><i>Control drop-out voltage</i> | 1 VDC  | 10 VDC   |

**DATI TECNICI ENTRATA/USCITA - INPUT/OUTPUT TECHNICAL DATA**

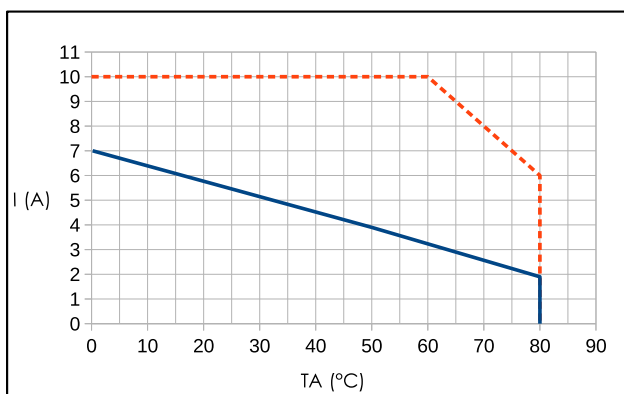
| Modello<br>Model  | SSR08-10480A<br>SSR08-10480AS<br>SSR08-25480AS | SSR08-40480A<br>SSR08-40480AS<br>SSR08-50240AS | SSR08-50660AS<br>SSR08-75240AS<br>SSR08-75660AS | SSR08-25480CS<br>SSR08-40480CS<br>SSR08-50240CS | SSR08-50660CS<br>SSR08-75240CS<br>SSR08-75660CS |
|---|--|--|---|---|---|
| Massimo ritardo chiusura per commutazione zero crossing<br><i>Maximum closing delay for zero crossing commutation</i>                   | 10 ms  | 10 ms  | 10 ms   | 40 ms   | 40 ms   |
| Massimo ritardo apertura per commutazione zero crossing-istantanea<br><i>Maximum opening delay for zero crossing-istant commutation</i> | 10 ms  | 10 ms  | 10 ms   | 80 ms   | 80 ms   |
| Isolamento<br><i>Isolation voltage</i>  | 4000 V   | 4000 V   | 4000 V  | 4000 V  | 4000 V  |

**DATI TECNICI ENTRATA/USCITA - INPUT/OUTPUT TECHNICAL DATA**

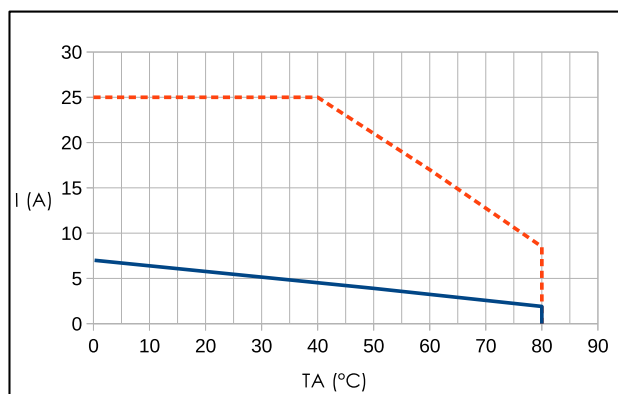
| Modello<br>Model  | SSR08-90240AS<br>SSR08-125240AS<br>SSR08-90660AS<br>SSR08-125660AS | SSR08-90240CS<br>SSR08-125240CS<br>SSR08-90660CS<br>SSR08-125660CS |
|---|--|--|
| Massimo ritardo chiusura per commutazione zero crossing<br><i>Maximum closing delay for zero crossing commutation</i>                   | 10 ms  | 40 ms  |
| Massimo ritardo apertura per commutazione zero crossing-istantanea<br><i>Maximum opening delay for zero crossing-istant commutation</i> | 10 ms  | 80 ms  |
| Isolamento<br><i>Isolation voltage</i>  | 4000 V   | 4000 V   |

**CURVE DI DI DERATING - DERATING CURVES**

**SSR08 10 A**

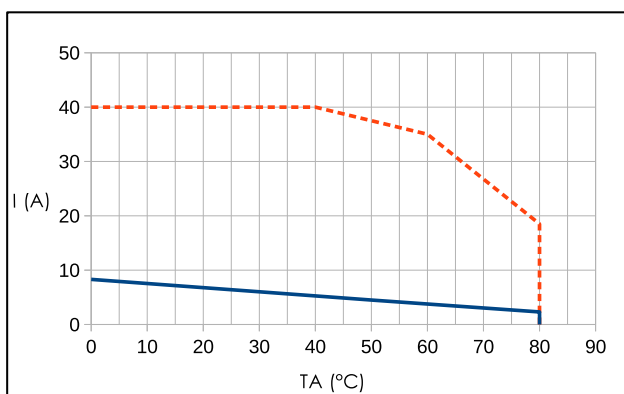


**SSR08 25 A**



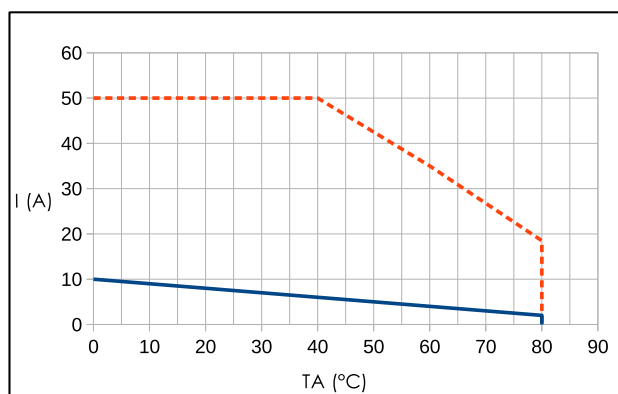
— Aria libera / Free air  
----- Con dissipatore ( Heat sink (3 °C/W)

**SSR08 40 A**



— Aria libera / Free air  
----- Con dissipatore ( Heat sink (0,9 °C/W)

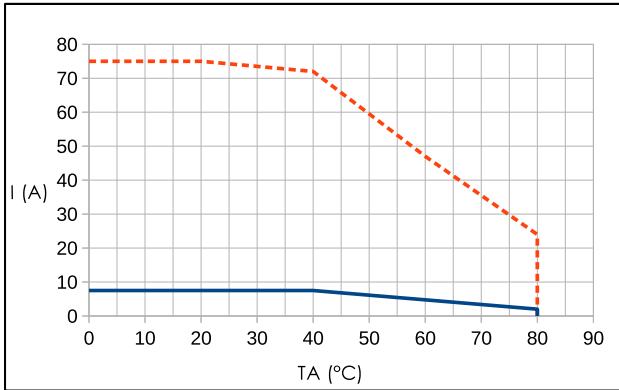
**SSR08 50 A**



— Aria libera / Free air  
----- Con dissipatore ( Heat sink (0,9 °C/W)

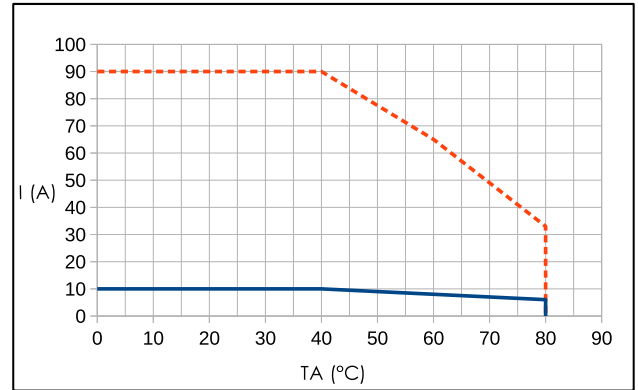


**SSR08 75 A**



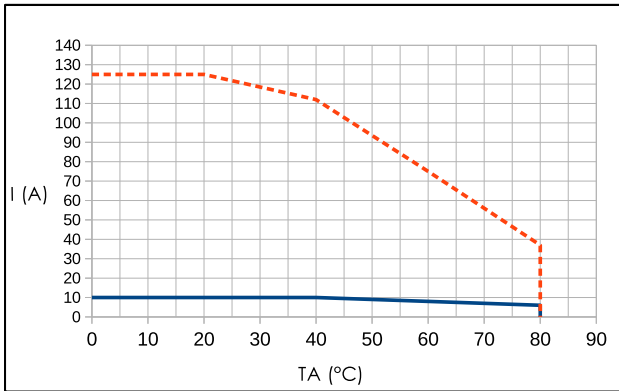
— Aria libera / Free air  
- - - Con dissipatore ( Heat sink (0,7 °C/W)

**SSR08 90 A**



— Aria libera / Free air  
- - - Con dissipatore ( Heat sink (0,5 °C/W)

**SSR08 125 A**



— Aria libera / Free air  
- - - Con dissipatore ( Heat sink (0,45 °C/W)

**SCHEMA DI COLLEGAMENTO / WIRING DIAGRAM**

