

# Product SPECIFICATION SHEET

## SSRSC2

### SSRSC2 SERIES DUAL PHASE AC SEMICONDUCTOR CONTACTORS



- \* Rated operational voltage up to 600VAC-50/60 Hz
- \* Rated operational current up to 30/50A-AC1 ( Accumulated )
- \* Control voltage range : 5-24 VDC or 24-230 V AC/DC
- \* Led status indication
- \* IP20 protection
- \* Built-in varistor protection
- \* Zero crossing commutation

| TABELLA SELEZIONE - SELECTION TABLE   |                                     |                 |               |               |
|---|-------------------------------------|-----------------|---------------|---------------|
|   | Line voltage                        | Control voltage | 30A           | 50A           |
| Two independent single semiconductor contactors designed to switch various industrial loads, heating elements, motors and lamps in 1 or 3 phase applications. Unique electronic and thermal design ensures high switching capacity and long lifetime. Zero Voltage turn-On reduces RFI. | 24-240 VAC 50/60 Hz                 | 5-24 VDC        | SSRSC2-30240A | SSRSC2-50240A |
|   | 24-240 VAC 50/60 Hz                 | 24-230 V AC/DC  | SSRSC2-30240C | SSRSC2-50240C |
|   | 24-480 VAC 50/60 Hz                 | 5-24 VDC        | SSRSC2-30480A | SSRSC2-50480A |
|   | 24-480 VAC 50/60 Hz                 | 24-230 V AC/DC  | SSRSC2-30480C | SSRSC2-50480C |
|   | 48-600 VAC 50/60 Hz                 | 5-24 VDC        | SSRSC2-30600A | SSRSC2-50600A |
|   | 48-600 VAC 50/60 Hz                 | 24-230 V AC/DC  | SSRSC2-30600C | SSRSC2-50600C |
|   | Dimensioni / Dimensions ( BxHxLmm ) |                 | 45/128/110    | 90/128/110    |

| DATI TECNICI INGRESSO - INPUT TECHNICAL DATA |              |                     |
|--|--------------|---------------------|
| Control voltage range                        | 5-24 V DC    | 24-230 V AC/DC      |
| Control pick-up voltage                      | 4,25 VDC     | 20,4 V AC/DC        |
| Control drop-out voltage                     | 1,5 VDC      | 7,2 V AC/DC         |
| Control current / VA max                     | 15mA - 4 VDC | 6mA / 1,5VA - 24VDC |
| Max. control voltage                         | 32 VDC       | 253 V AC/DC         |
| Response time max.                           | 1/2 cycle    | 1 cycle             |

EC REFERENCE STANDARDS :  
IEC 158-2 / HD419.2-SI / IEC947-4-3 / EN60947-4-3  
- APPROVALS  
CAN/CSA-C22.2 / UL Std No.508

| DATI TECNICI USCITA - OUTPUT TECHNICAL DATA          |                          |                          |
|--|--------------------------|--------------------------|
| OUTPUT   | SSRSC2-30...             | SSRSC2-50...             |
| Operational current AC1 (eg. 1x30/1x50 or 2x15/2x50) | 30A max. ( accumulated ) | 50A max. ( accumulated ) |
| Operational current AC3 ( eg. 2x15 )                 | 15A max. ( accumulated ) | 15A max. ( accumulated ) |
| Leakage current                                      | 1 mA AC max.             | 1 mA AC max.             |
| Minimum working current                              | 10mA Ac                  | 10mA Ac                  |
| Duty cycle   | 100%                     |                          |

**BRANCH CONTACT DETAILS**  
Johannesburg 010 202 3300  
Germiston 011 418 9600  
Cape Town 021 510 0710  
Pinetown 031 700 4215  
Riverhorse 031 492 4800

**NATIONAL CALL CENTRE**  
Sales 010 202 3400  
Technical 010 202 3500  
www.acdc.co.za

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## SSRSC2 SERIES

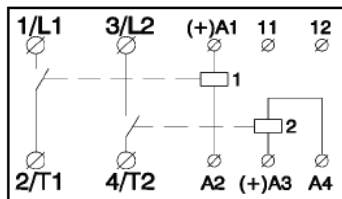
**Current derating in high temperature applications.** For operation in ambient temperatures exceeding 40°C at the AC 1 Load the current must be derated as shown in the table.

| Corrente di derating<br>Current derating | SSRSC2-30.... | SSRSC2-50.... |
|--|---------------|---------------|
| TA 40°C                                  | 30A           | 50A           |
| TA 50°C                                  | 25A           | 40A           |
| TA 60°C                                  | 20A           | 30A           |

| DATI TERMICI - THERMAL DATA                 |                                     |
|---|-------------------------------------|
| Temperatura lavoro<br>Operating temperature | -5 + 60°C                           |
| Temp. Di stoccaggio<br>Storage temperature  | -20 + 80°C                          |
| Metodo raffreddamento<br>Cooling method     | Naturale<br>Natural convection      |
| Fissaggio<br>Mounting                       | Verticale +/-30%<br>Vertical +/-30% |

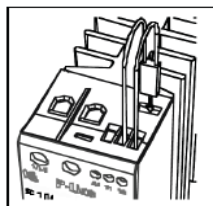
| DATI TECNICI ENTRATA USCITA<br>INPUT / OUTPUT TECHNICAL DATA           |           |
|--|-----------|
| Tensione di isolamento<br>Rated insulation voltage                     | Ui 660V   |
| Impulso di tensione<br>input output<br>Rated impulse withstand voltage | Uimp. 4kV |

### SCHEMA DI COLLEGAMENTO - WIRING DIAGRAM



Main terminals 1/L1-2/T1 & 3/L2-4/T2. Control terminals A1 A4. Terminal 11 and 12 have no connection with the internal circuit but are intended for connection to the optional thermal over load protection.

### PROTEZIONE TERMICA DI SOVRACCARICO - THERMAL OVERLOAD PROTECTION



Optional thermal overload protection is achieved by inserting a thermostat in the slot on the right hand side of the contactor. The contactor accepts 2 types of thermostats : UP-62-90 from Uchiya or P62-90 from Limitator.

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|              |              |
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| Technical | 010 202 3500 |

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