

series  
**ZFC|ZFV**

series  
**S5 DC|S5MDC|S5NDC**

series  
**S6 DC|S6N DC|S6R DC**

## DC Switch - disconnectors

DC switch – disconnectors with high operating load capacity and a high level disconnection insulation; high reliability and safety in abnormal situations, available in different construction models, with a wide range of currents in different DC voltages and a variety of accessories.



The DC switch – disconnectors in its different series, are manufactured with high safety self-extinguishing materials, providing an excellent level of electrical insulation, low smoke emission and high resistance to electromechanical stress.

They comply with environmental requirements and undergo strict quality controls for a reliable product that meets the most demanding requirements.

They consist of a sandwich-type body containing self-cleaning blade type contacts,

with pre-arc zones to ensure long term, fault-free energy transmission and coated with silver alloy for long electromechanical life. The jump mechanism provides quick and independent switching due to the accumulation of elastic potential energy, which is transmitted at high speed to the contacts for arc extinction.

The switch - disconnectors S6 DC do not require external bridging links; thus reducing installation time and simplifying subsequent maintenance operations.

### Functional and ergonomic handle

- > Good grip and excellent torque/resistance
- > Padlockable handle in **OFF** position (up to three locks Ø 5-8 mm)
- > Door interlock in **ON I** position
- > When lock in **OFF** position, door is interlocked
- > Defeatable feature in **ON I** position (with the use of a tool for maintenance operations). Handle interlock is restored when closing
- > Self-centering shaft for door handle

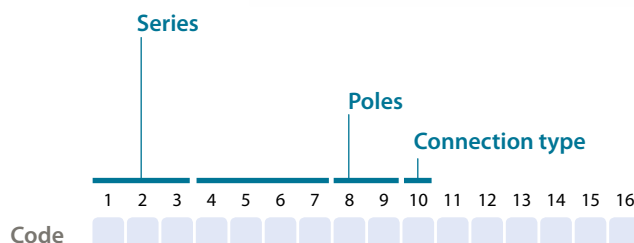


## Relevant characteristics for photovoltaic installations

- >  $U_i$  (V) Rated insulation voltage 1000 Vdc.
- >  $U_{oc}$  (V) Open circuit voltage of the photovoltaic system.
- >  $U_{ef}$  (V) Photovoltaic installation functioning voltage on load.
- >  $I_{ef}$  (A) Installation working current under load.
- >  $I_{sc}$  (A) Short-circuit current of the photovoltaic installation.
- > In certain places of Pv Systems, inductive component must be considered (cables, inverter, etc.).
- > The sizing of the switch must be done considering open circuit voltage as maximum operation voltage.
- > It is necessary to comply with:
  - $U_i \geq U_{oc}$   
We recommend to set  $U_i$  between 10 and 15% over  $U_{oc}$ .
  - $U_e \geq U_{ef}$
  - $I_e \geq I_{ef}$
  - $I_e \geq I_{sc}$

## Range codification:

The DC **ZFC|ZFV|S5|S5M|S5N|S6|S6N|S6R** series, are identified by a code that describes their most important characteristics as described below.



According to:  
IEC 60947-1 y 3  
UL508i  
UL98B  
RoHS



Testing and approvals:

### series ZFC|ZFV



IP66

1 2 3 4 5 6  
Z F C

1 2 3 4 5 6  
Z F V

Small design.  
Base mounting by screws or  
DIN rail.  
Non polarized.  
Up to 1500Vdc.

### series S5 DC



1 2 3 4 5 6  
S 5 -

Wide range of currents.  
Base mounting by screws.  
Non polarized.  
Up to 1000Vdc.

### series S5M DC



1 2 3 4 5 6  
S 5 M

Back to back with operating  
mechanism in side,  
arrangement to increase the  
number of available contacts.  
Base mounting by screws.  
Non polarized.  
4P+4P 1000Vdc.  
4P+4P 1500Vdc.

### series S5N DC



1 2 3 4 5 6  
S 5 N

Back to back with operating  
mechanism in front,  
arrangement to increase the  
number of available contacts.  
Base mounting with screws.  
External or direct handles.  
Non polarized.  
4P+4P 1000Vdc.  
4P+4P 1500Vdc.

### series ZFC|ZFV



IP67

1 2 3 4 5 6  
Z F C

1 2 3 4 5 6  
Z F V

ZFV plastic enclosed switch.  
Non polarized.  
Up to 1500Vdc.

### series S6 DC



1 2 3 4 5 6  
S 6 -

Wide range of currents.  
Different configurations to  
choose.  
Base mounting by screws.  
Non polarized.  
Up to 1000Vdc.

### series S6N DC



1 2 3 4 5 6  
S 6 N

Back to back arrangement.  
Different configurations to  
choose.  
Base mounting by screws.  
Non polarized.  
Up to 1500Vdc.

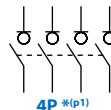
### series S6R DC



1 2 3 4 5 6  
S 6 R

Back to back arrangement.  
Different configurations to  
choose.  
Base mounting by screws.  
Non polarized.  
1500Vdc.

**SERPA** TEC  
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**S5 DC**  
**S5N DC**
**S5 switches 4 poles (40 - 3150A) (O - I)**
**Manual handle**

**S5 DC**

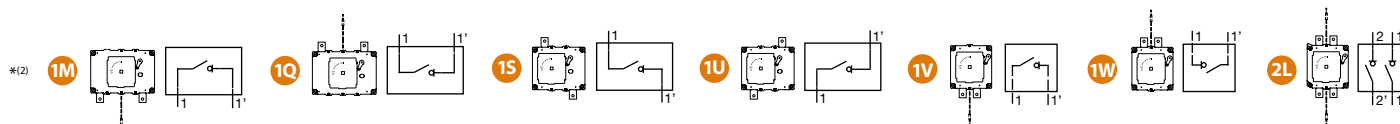
**S5N DC**

|                                   | Rated operational voltage | Rated operational current I <sub>e</sub> (A) | Size        | Connection  | 4 pole (4P) <sup>*(p1)</sup> | External <sup>*(1)</sup> | Direct      |             |
|-----------------------------------|---------------------------|----------------------------------------------|-------------|-------------|------------------------------|--------------------------|-------------|-------------|
|                                   | U <sub>e</sub>            |                                              |             |             | Code                         | Code                     | Code        |             |
| 4P<br><sup>*(p1)</sup>            | 900V DC21B                | 40                                           | 0           |             | S5-01604PB0                  | DS-SA01                  | DS-SI01     |             |
|                                   | 1000V DC21B               | 40                                           | 1           |             | S5-01604PS0                  | DS-SA11                  | DS-SI11     |             |
|                                   |                           | 100                                          |             |             | S5-01254PR0                  |                          |             |             |
|                                   |                           | 160                                          |             |             | S5-02004PR0                  |                          |             |             |
|                                   |                           | 250                                          |             |             | S5-03154PR0                  |                          |             |             |
|                                   |                           | 400                                          | 2           |             | S5-04004PC0                  | DS-LA21                  | DS-LI21     |             |
|                                   |                           | 500                                          |             |             | S5-06304PR0                  |                          |             |             |
|                                   |                           | 630                                          |             |             | S5-06302ER0                  |                          |             |             |
|                                   |                           | 850                                          |             | 3           |                              |                          |             | S5-12504PC0 |
|                                   | 1250                      |                                              | S5-12502EC0 |             |                              |                          |             |             |
| 1250                              | 4                         |                                              | S5-18004PS0 |             | DS-LA41                      | DS-LI41                  |             |             |
| 1800                              |                           |                                              | S5-18002ES0 |             |                              |                          |             |             |
| 2000                              |                           |                                              | S5-20002ED0 |             |                              |                          |             |             |
| 4P<br>+<br>4P<br><sup>*(p1)</sup> |                           | 2000                                         | 5<br>(S5N)  |             |                              |                          | S5N20002ES0 | DS-LA41     |
|                                   | 2500                      |                                              |             | S5N25002ES0 | DS-LA41                      | DS-LI41                  |             |             |
|                                   | 3150                      |                                              |             | S5N31502ES0 | DS-LA41                      | DS-LI41                  |             |             |

**S6 DC**
**S6 switches 1 or 2 poles (125 - 630A) (O - I)**
**Manual handle**

**S6 DC**

|                                        | Rated operational voltage<br>U <sub>e</sub> | Rated operational current I <sub>e</sub> (A) | Size | Connection | Diagram <sup>*(2)</sup> | External <sup>*(1)</sup> | Direct  |
|----------------------------------------|---------------------------------------------|----------------------------------------------|------|------------|-------------------------|--------------------------|---------|
|                                        |                                             |                                              |      |            | Code                    | Code                     | Code    |
| <b>1P</b><br><b>2P</b><br><b>* (2)</b> | 500 Vdc<br>750Vdc DC21B<br>1000Vdc          | 125                                          | 1    |            | S6-0125__S0             | DS-SA11                  | DS-SI11 |
|                                        |                                             | 160                                          |      |            | S6-0160__S0             |                          |         |
|                                        |                                             | 200                                          |      |            | S6-0200__S0             |                          |         |
|                                        |                                             | 250                                          |      |            | S6-0250__S0             |                          |         |
|                                        |                                             | 315                                          |      |            | S6-0315__S0             |                          |         |
|                                        |                                             | 400                                          |      |            | S6-0400__D0             |                          |         |
|                                        | 500 Vdc<br>750Vdc UL98B<br>1000Vdc          | 500                                          | 2    |            | S6-0500__S0             | DS-LA21                  | DS-LI21 |
|                                        |                                             | 630                                          |      |            | S6-0630__S0             |                          |         |
|                                        |                                             | 250                                          |      |            | S6-0250__S00L           |                          |         |
|                                        |                                             | 400                                          |      |            | S6-0400__S00L           |                          |         |


**ZFC DC**
**DIN rail base mounting switches with direct handle - compact model 2 poles (16 - 25 A) (O - I)**


|           | Rated operational voltage<br>U <sub>e</sub> | Rated operational current I <sub>e</sub> (A) | Size | Connection | Code           | Full details in page <b>214</b> |
|-----------|---------------------------------------------|----------------------------------------------|------|------------|----------------|---------------------------------|
|           |                                             |                                              |      |            |                |                                 |
| <b>2P</b> | 1500V DC21B                                 | 16                                           | 00   |            | ZFC16SMAH1NA40 |                                 |
|           |                                             | 25                                           |      |            | ZFC25SMAH1NA40 |                                 |

**ZFC DC**  
**ZFV DC**
**DIN rail base mounting switches with direct handle - compact model 2 poles (16 - 55 A) (O - I)**


|           | Rated operational voltage<br>U <sub>e</sub> | Rated operational current I <sub>e</sub> (A) | Size | Connection | Code          | Full details in page <b>214</b> |
|-----------|---------------------------------------------|----------------------------------------------|------|------------|---------------|---------------------------------|
|           |                                             |                                              |      |            |               |                                 |
| <b>2P</b> | 1500V DC21B                                 | 16                                           | 00   |            | ZFC16VZVH4A40 |                                 |
|           |                                             | 25                                           |      |            | ZFC25VZVH4A40 |                                 |
|           |                                             | 32                                           |      |            | ZFV32VZVH4A40 |                                 |
|           |                                             | 40                                           |      |            | ZFV40VZVH4A40 |                                 |
|           |                                             | 55                                           |      |            | ZFV55VZVH4A40 |                                 |

<sup>\*(1)</sup> Padlockable handle in OFF 0 position. Possibility of unlocking the door in ON I position (with the use of a tool).  
Door interlock by a padlock in OFF 0 position.

<sup>\*(2)</sup> To complete the code according the specific diagram for IEC or UL versions and the possibility or not of grounding, see the full details pages of this catalogue. If you have any doubt about this, please do not hesitate to consult us.

<sup>\*(p1)</sup> To comply with the operation and electrical features, the bridging links must be assembled to the switch. See the full details pages of this catalogue, to choose the configuration needed and the possibility or not of grounding. If you have any doubt about this, please do not hesitate to consult us.



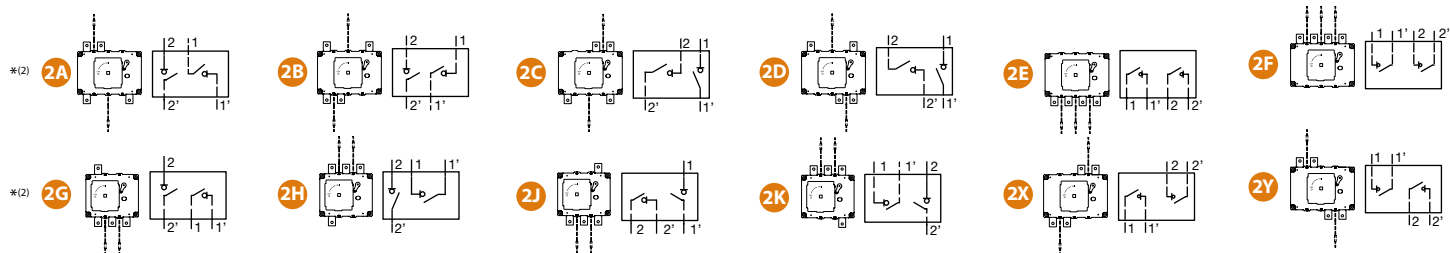
Please indicate in your order the switch code and the handle code, as these both products are managed separately.  
A standard shaft is included with the handle.



| Shaft extensions <sup>*(3)</sup> |    |            |                       | Bridging links <sup>*(p1)</sup> |                                                                  | Auxiliary contacts <sup>*(5)</sup> |              | Terminal protection |         | Terminal shrouds (2 units) <sup>*(4)</sup> | Full details in page |
|----------------------------------|----|------------|-----------------------|---------------------------------|------------------------------------------------------------------|------------------------------------|--------------|---------------------|---------|--------------------------------------------|----------------------|
| Size                             |    | Type 1 & 2 | Code <sup>*(e1)</sup> |                                 | Code                                                             | 1NO+1NC Code                       | 2NO+2NC Code | Connection          | Code    | Code                                       |                      |
| 0                                | 7  | L 250      | DS-EP04               |                                 | DS-PI05<br>DS-PI01                                               | D5LAU01                            | D5LAU02      |                     | DS-CU01 | -                                          | 216                  |
|                                  |    | 387        | DS-EP05               |                                 |                                                                  |                                    |              |                     |         | -                                          |                      |
| 1                                | 10 | 375        | DS-EP14               |                                 | DS-PI11<br>DS-PI11<br>DS-PI11<br>DS-PI14                         | D5LAU01                            | D5LAU02      |                     | DS-CU12 | DS-CU10<br>DS-CU11<br>DS-CU18<br>DS-CU19   | 218                  |
|                                  |    | 536        | DS-EP15               |                                 |                                                                  |                                    |              |                     |         | DS-CU20<br>DS-CU21<br>DS-CU28<br>DS-CU29   |                      |
| 2                                | 14 | 345        | DS-EP23               |                                 | DS-PI21<br>DS-PI2D                                               | D5LAU01                            | D5LAU02      | -                   | DS-CU22 | -                                          | 220                  |
|                                  |    | 535        | DS-EP24               |                                 |                                                                  |                                    |              |                     |         | -                                          |                      |
| 3                                | 14 | 345        | DS-EP23               |                                 | DS-PI31<br>DS-PI3D                                               | D5LAU01                            | D5LAU02      | -                   | -       | DS-CU30<br>DS-CU31<br>DS-CU38<br>DS-CU39   | 222                  |
|                                  |    | 535        | DS-EP24               |                                 |                                                                  |                                    |              |                     |         | -                                          |                      |
| 4                                | 14 | 485        | DS-EP44               |                                 | DS-PI41 (S5-18004P50)<br>DS-PI4D (S5-18002E50-S5-20002ED0)       | D5LAU01                            | D5LAU02      | -                   | -       | DS-CU40<br>DS-CU41<br>DS-CU48<br>DS-CU49   | 224                  |
|                                  |    | 635        | DS-EP45               |                                 |                                                                  |                                    |              |                     |         | -                                          |                      |
| 5 (S5N)                          | -  | -          | -                     |                                 | DS-PI51 + D5LPC45<br>DS-PI51 + D5LPC45<br>DS-PI4D + D5LPC45 (x2) | D5LAU01                            | D5LAU02      | -                   | -       | -                                          | 232                  |
|                                  |    | -          | -                     |                                 |                                                                  |                                    |              |                     |         | -                                          |                      |



| Shaft extensions <sup>*(3)</sup> |    |             |                       | Auxiliary contacts <sup>*(5)</sup> |              | Safety key lock device <sup>*(6)</sup> |                              | Spacers (4 units) | Terminal lug (2 units) | Terminal shrouds (1 unit) <sup>*(4)</sup> |         |         | Phase barriers |              |              | Full details in page |
|----------------------------------|----|-------------|-----------------------|------------------------------------|--------------|----------------------------------------|------------------------------|-------------------|------------------------|-------------------------------------------|---------|---------|----------------|--------------|--------------|----------------------|
| Size                             |    | Type 1 & 2  | Code <sup>*(e1)</sup> | 1NO+1NC Code                       | 2NO+2NC Code | Simple Code <sup>*(e1)</sup>           | Double Code <sup>*(e1)</sup> | Code              | Code                   | Code                                      | Code    | Code    | 1 unit Code    | 2 units Code | 3 units Code |                      |
| 1                                | 10 | 375 DS-EP14 | DS-EP15               | D5LAU01                            | D5LAU02      | DS-CA11                                | DS-CE11                      | DR-EL11           | -                      | DR-CU11                                   | DR-CU12 | DR-CU13 | DR-SF11        | DR-SF12      | DR-SF13      | 234                  |
|                                  |    | 536         |                       |                                    |              |                                        |                              |                   |                        |                                           |         |         |                |              |              |                      |
| 2                                | 14 | 345 DS-EP23 | DS-EP24               | D5LAU01                            | D5LAU02      | DS-CB21                                | DS-CF21                      | DR-EL21           | -                      | DR-CU21                                   | DR-CU22 | DR-CU23 | DR-SF21        | DR-SF22      | DR-SF23      | 238                  |
|                                  |    | 535         |                       |                                    |              |                                        |                              |                   |                        |                                           |         |         |                |              |              |                      |
| 1                                | 10 | 375 DS-EP14 | DS-EP15               | D5LAU01                            | D5LAU02      | -                                      | -                            | DR-EL11           | DR-TL11                | DR-CU11                                   | DR-CU12 | DR-CU13 | DR-SF11        | DR-SF12      | DR-SF13      | 236                  |
|                                  |    | 536         |                       |                                    |              |                                        |                              |                   |                        |                                           |         |         |                |              |              |                      |
| 2                                | 14 | 345 DS-EP23 | DS-EP24               | D5LAU01                            | D5LAU02      | -                                      | -                            | DR-EL21           | DR-TL22                | DR-CU21                                   | DR-CU22 | DR-CU23 | DR-SF21        | DR-SF22      | DR-SF23      | 240                  |
|                                  |    | 535         |                       |                                    |              |                                        |                              |                   |                        |                                           |         |         |                |              |              |                      |

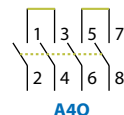


## ZFV DC

### DIN rail base mounting switches with direct handle 2 poles (32 - 55 A) (O - I)



| 2P | Rated operational voltage | Rated operational current I <sub>e</sub> (A) | Size | Connection | Code                                            | Full details in page |
|----|---------------------------|----------------------------------------------|------|------------|-------------------------------------------------|----------------------|
|    | U <sub>e</sub>            | I <sub>e</sub> (A)                           |      |            |                                                 |                      |
|    | 1500 V DC21B / DC-PV1     | 32<br>40<br>55                               | 00   |            | ZFV32SMAH1A4O<br>ZFV40SMAH1A4O<br>ZFV55SMAH1A4O | 214                  |



## ZFC DC ZFV DC

### Plastic enclosed switches IP67 2 poles (16 - 55 A) (O - I)



| 2P | Rated operational voltage | Rated operational current I <sub>e</sub> (A) | Size | Connection | Code                                            | Full details in page |
|----|---------------------------|----------------------------------------------|------|------------|-------------------------------------------------|----------------------|
|    | U <sub>e</sub>            | I <sub>e</sub> (A)                           |      |            |                                                 |                      |
|    | 1000 Vdc DC21B            | 16<br>32<br>55                               | 00   |            | ZFC16PFLH4A4O<br>ZFV32PFLH4A4O<br>ZFV55PFLH4A4O | 214                  |



- <sup>\*(3)</sup> A standard shaft is included with the external handle.
- <sup>\*(4)</sup> One set for input or output. Only for switches . See catalogue to choose the combination required.
- <sup>\*(5)</sup> To be used as signalling or control contacts – I<sub>e</sub> = 16A (resistive loads) 4A (inductive loads) at 250 Vac. Whilst closing, it switches after the main contacts. Whilst opening, it switches before the main contacts.
- <sup>\*(6)</sup> Handle interlock in OFF 0 position by means of a key, that only can be removed when the handle is unlocked. Interlocking in other positions available upon request.
- <sup>\*(e1)</sup> All these codes are related to the new handle , in case of replacements for old design handles, please consult.



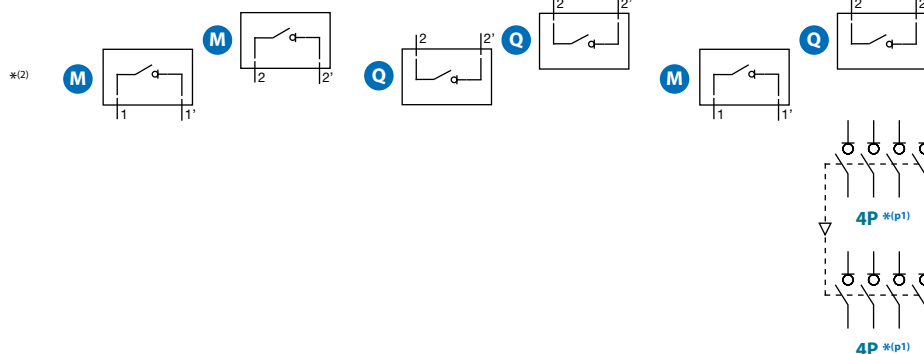
## S6N DC

## S6 switches 2 poles (125 - 400A) (O-I)



S6N DC

| Rated operational voltage | Rated operational current I <sub>e</sub> (A) | Size | Connection | 2P *(2)     |             |             |             |             |             |
|---------------------------|----------------------------------------------|------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                           |                                              |      |            | Code MM     | Code QQ     | Code MQ     | Code US     | Code UU     | Code SS     |
| 1500V DC21B               | 125                                          | 1    |            | S6N0125MMS0 | S6N0125QQS0 | S6N0125MQS0 | S6N0125USS0 | S6N0125UUS0 | S6N0125SSS0 |
|                           | 160                                          |      |            | S6N0160MMS0 | S6N0160QQS0 | S6N0160MQS0 | S6N0160USS0 | S6N0160UUS0 | S6N0160SSS0 |
|                           | 200                                          |      |            | S6N0200MMS0 | S6N0200QQS0 | S6N0200MQS0 | S6N0200USS0 | S6N0200UUS0 | S6N0200SSS0 |
|                           | 250                                          |      |            | S6N0250MMS0 | S6N0250QQS0 | S6N0250MQS0 | S6N0250USS0 | S6N0250UUS0 | S6N0250SSS0 |
|                           | 315                                          |      |            | S6N0315MMS0 | S6N0315QQS0 | S6N0315MQS0 | S6N0315USS0 | S6N0315UUS0 | S6N0315SSS0 |
|                           | 400                                          |      |            | S6N0400MMD0 | S6N0400QD0  | S6N0400MQD0 | S6N0400USD0 | S6N0400UUD0 | S6N0400SSD0 |

S5M DC  
S5N DC

## S5 switches 4+4 poles (500 - 1800 A) (O-I)

## Manual handle



S5M DC



S5N DC

| Rated operational voltage | Rated operational current I <sub>e</sub> (A) | Size    | Connection | 4P + 4P *(p1) | External *(1) | Direct  |
|---------------------------|----------------------------------------------|---------|------------|---------------|---------------|---------|
|                           |                                              |         |            | Code          | Code          | Code    |
| 1500V DC21B               | 500                                          | 2       |            | S5M063044R0   | DS-LA22       | DS-LI22 |
|                           | 630                                          |         |            | S5M080044C0   | DS-LA22       | DS-LI22 |
|                           | 800                                          | 3       |            | S5M080044R0   | DS-LA41       | DS-LI41 |
|                           | 1000                                         |         |            | S5M125044C0   | DS-LA41       | DS-LI41 |
|                           | 1250                                         | 4 (S5N) |            | S5N160044S0   | DS-LA41       | DS-LI41 |
|                           | 1800                                         |         |            | S5N180044S0   | DS-LA41       | DS-LI41 |
| 1000V DC21B               | 2000                                         | 5 (S5N) |            | S5N20002ES0   | DS-LA41       | DS-LI41 |
|                           | 2500                                         |         |            | S5N25002ES0   | DS-LA41       | DS-LI41 |
|                           | 3150                                         |         |            | S5N31502ES0   | DS-LA41       | DS-LI41 |

## S6R DC

## S6 switches 1 or 2 poles (160 - 400A) (O-I)

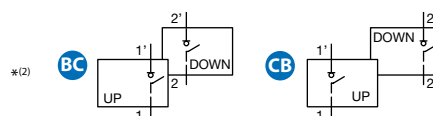


S6R DC

| Rated operational voltage | Rated operational current I <sub>e</sub> (A) | Size | Connection | 2P *(2)       |               |
|---------------------------|----------------------------------------------|------|------------|---------------|---------------|
|                           |                                              |      |            | Code BC       | Code CB       |
| 1500Vdc IEC               | 160                                          | 1    |            | S6R0160BCS0   | S6R0160CBS0   |
|                           | 200                                          |      |            | S6R0200BCS0   | S6R0200CBS0   |
|                           | 250                                          |      |            | S6R0250BCS0   | S6R0250CBS0   |
|                           | 315                                          |      |            | S6R0315BCS0   | S6R0315CBS0   |
|                           | 400                                          |      |            | S6R0400BCS0   | S6R0400CBD0   |
| 1500Vdc UL98B             | 250                                          | 1    |            | S6R0250BCS00L | S6R0250CBS00L |
|                           | 320                                          |      |            | S6R0320BCS00L | S6R0320CBS00L |
|                           | 400                                          |      |            | S6R0400BCD00L | S6R0400CBD00L |



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\*(1) Padlockable handle in OFF 0 position. Possibility of unlocking the door in ON I position (with the use of a tool). Door interlock by a padlock in OFF 0 position.

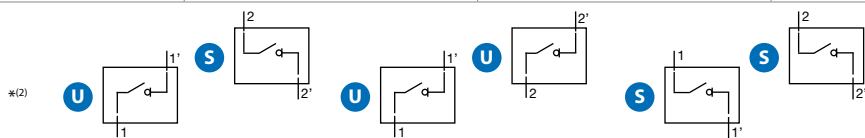
\*(2) See the full details pages in this catalogue to see the possibility or not of grounding the switch selected. If you have any doubt about this, please do not hesitate to consult us.

\*(p1) To comply with the operation and electrical features, the bridging links must be assembled to the switch. See the full details pages of this catalogue, to choose the configuration needed and the possibility or not of grounding. If you have any doubt about this, please do not hesitate to consult us.

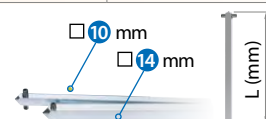
Please indicate in your order the switch code and the handle code, as these both products are managed separately. A standard shaft is included with the handle.



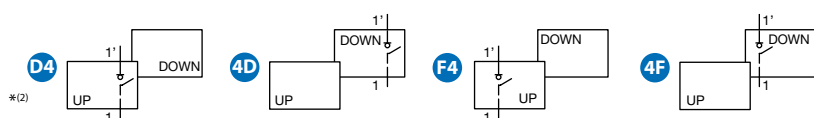
| Manual handle  |                          |         |         | Auxiliary contacts <sup>*(2)</sup> | Full details in page  |
|-------------------------------------------------------------------------------------------------|--------------------------|---------|---------|------------------------------------|----------------------------------------------------------------------------------------------------------|
| Size                                                                                            | External <sup>*(1)</sup> | Direct  | 1NO+1NC | 2NO+2NC                            |                                                                                                          |
|                                                                                                 | Code                     | Code    | Code    | Code                               |                                                                                                          |
| 1                                                                                               | DS-SA11                  | DS-SI11 | D5LAU01 | D5LAU02                            | 242<br>244                                                                                               |



| Bridging links <sup>*(p1)</sup> |                                                                                     |                                                                  | Auxiliary contacts <sup>*(2)</sup> |         | Full details in page  |
|---------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------|------------------------------------|---------|-----------------------------------------------------------------------------------------------------------|
| Size                            |                                                                                     | Code                                                             | 1NO+1NC                            | 2NO+2NC |                                                                                                           |
|                                 |                                                                                     | Code                                                             | Code                               | Code    |                                                                                                           |
| 2                               |  | DS-PI230L<br>DS-PI2D                                             | DS-AU11                            | DS-AU12 | 226                                                                                                       |
| 3                               |  | DS-PI3D                                                          | DS-AU11                            | DS-AU12 | 228                                                                                                       |
| 4 (S5N)                         |  | DS-PI430U<br>DS-PI4D                                             | D5LAU01                            | D5LAU02 | 230                                                                                                       |
| 5 (S5N)                         |  | DS-PI51 + D5LPC45<br>DS-PI51 + D5LPC45<br>DS-PI4D + D5LPC45 (x2) | D5LAU01                            | D5LAU02 | 232                                                                                                       |



| Manual handle  |                                                                         |                                                                         |                                                                         |                                                                         | Shaft extensions <sup>*(4)</sup> |                                                                                       | Auxiliary contacts <sup>*(2)</sup> |                       | <br>Full detail in pag |         |         |
|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------|---------------------------------------------------------------------------------------|------------------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------|---------|---------|
| Size                                                                                               | 1P <sup>*(2)</sup>                                                      |                                                                         |                                                                         |                                                                         | Panel <sup>*(3)</sup>            |  | Type 1 & 2                         |                       |                                                                                                             | 1NO+1NC | 2NO+2NC |
|                                                                                                    | Code <b>D4</b>                                                          | Code <b>4D</b>                                                          | Code <b>F4</b>                                                          | Code <b>4F</b>                                                          | Code                             |                                                                                       | L                                  | Code <sup>*(e1)</sup> |                                                                                                             | Code    | Code    |
| 1                                                                                                  | S6R0160D4S0<br>S6R0200D4S0<br>S6R0250D4S0<br>S6R0315D4S0<br>S6R0400D4D0 | S6R01604DS0<br>S6R02004DS0<br>S6R02504DS0<br>S6R03154DS0<br>S6R04004DD0 | S6R0160F4S0<br>S6R0200F4S0<br>S6R0250F4S0<br>S6R0315F4S0<br>S6R0400F4D0 | S6R01604FS0<br>S6R02004FS0<br>S6R02504FS0<br>S6R03154FS0<br>S6R04004FS0 | DS-SA11                          | 10                                                                                    | 375                                | DS-EP14               | D5LAU01                                                                                                     | D5LAU02 | 246     |
| 1                                                                                                  | S6R0250D4S00L<br>S6R0320D4S00L<br>S6R0400D4D00L                         | S6R02504DS00L<br>S6R03204DS00L<br>S6R04004DD00L                         | S6R0250F4S00L<br>S6R0320F4S00L<br>S6R0400F4D00L                         | S6R02504FS00L<br>S6R03204FS00L<br>S6R04004FD00L                         |                                  |                                                                                       | 536                                | DS-EP15               |                                                                                                             |         | 248     |



<sup>\*(2)</sup> To be used as signalling or control contacts – I<sub>e</sub> = 16A (resistive loads) 4A (inductive loads) at 250 Vac.

Whilst closing, it switches after the main contacts. Whilst opening, it switches before the main contacts.

<sup>\*(3)</sup> Padlockable handle in OFF 0 position. Possibility of unlocking the door in ON I position (with the use of a tool).

Door interlock by a padlock in OFF 0 position.

<sup>\*(4)</sup> A standard shaft is included with the external handle.

<sup>\*(e1)</sup> All these codes are related to the new handle  , in case of replacements for old design handles, please consult.



# ZFC | ZFV

## Switch - disconnecter for DC current 2P

Size 00

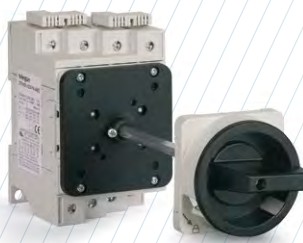
A 16|25|32|40|55



600 - 1000 - 1500Vdc



| CODE 2P |               |
|---------|---------------|
| 16A     | ZFC16SMAH1A40 |
| 25A     | ZFC25SMAH1A40 |
| 32A     | ZFV32SMAH1A40 |
| 40A     | ZFV40SMAH1A40 |
| 55A     | ZFV55SMAH1A40 |

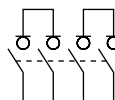


| CODE 2P |               |
|---------|---------------|
| 16A     | ZFC16VZVH4A40 |
| 25A     | ZFC25VZVH4A40 |
| 32A     | ZFV32VZVH4A40 |
| 40A     | ZFV40VZVH4A40 |
| 55A     | ZFV55VZVH4A40 |



| CODE 2P |               |
|---------|---------------|
| 16A     | ZFC16PFLH4A40 |
| 25A     | -             |
| 32A     | ZFV32PFLH4A40 |
| 40A     | -             |
| 55A     | ZFV55PFLH4A40 |

IP67



2P

DO NOT USE IN  
GROUNDED INSTALLATIONS

### Technical information



According to IEC 60947-3  
DC-PV1  
UL508i

IEC 60947-3

IEC 60947-3

|                                                |                      |                                                                                     |     | ZFC16   | ZFC25 | ZFV32    | ZFV40      | ZFV55     |           |           |
|------------------------------------------------|----------------------|-------------------------------------------------------------------------------------|-----|---------|-------|----------|------------|-----------|-----------|-----------|
| Rated operational current                      | le 2 Poles in series |  | IEC | 1000Vdc | A     | 9 DC21A  | 11 DC21A   | 13 DC21B  | 29 DC21B  | 36 DC21B  |
|                                                |                      |                                                                                     |     | 1500Vdc | A     | 3 DC21A  | 4 DC21A    | 6 DC21B   | 7,5 DC21B | 10 DC21B  |
|                                                | le 4 Poles in series |  | IEC | 1000Vdc | A     | 16 DC21A | 25 DC21A   | 32 DC21B  | 40 DC21B  | 55 DC21B  |
|                                                |                      |                                                                                     |     | 1500Vdc | A     | 16 DC21A | 20 DC21A   | 32 DC21B  | 40 DC21B  | 55 DC21B  |
|                                                | le 2 Poles in series |  | IEC | 1000Vdc | A     | 10 DCPV1 | 11,5 DCPV1 | 13 DCPV1  | 29 DCPV1  | 36 DCPV1  |
|                                                |                      |                                                                                     |     | 1500Vdc | A     | 3 DCPV1  | 5 DCPV1    | 6 DCPV1   | 7,5 DCPV1 | 10 DCPV1  |
|                                                | le 4 Poles in series |  | IEC | 1000Vdc | A     | 16 DCPV1 | 25 DCPV1   | 32 DCPV1  | 40 DCPV1  | 55 DCPV1  |
|                                                |                      |                                                                                     |     | 1500Vdc | A     | 16 DCPV1 | 25 DCPV1   | 32 DCPV1  | 40 DCPV1  | 55 DCPV1  |
| Rated conditional short-circuit current        |                      |                                                                                     |     |         | kAeff | 5        | 5          | 5         | 10        | 10        |
| Max. fuse size                                 |                      |                                                                                     |     | gL (gG) | A     | 40       | 63         | 80        | 125       | 160       |
| Maximum cable cross sections (included jumper) |                      |                                                                                     |     |         |       |          |            |           |           |           |
| Solid or stranded                              |                      |                                                                                     |     |         | mm²   | 1,5 - 10 | 1,5 - 10   | 4 - 16    | 2,5 - 25  | 2,5 - 25  |
| Flexible                                       |                      |                                                                                     |     |         | mm²   | 1,5 - 6  | 1,5 - 6    | 4 - 10    | 2,5 - 16  | 2,5 - 16  |
| Flexible (+ multicore cable end)               |                      |                                                                                     |     |         | mm²   | 1,5 - 6  | 1,5 - 6    | 4 - 10    | 1,5 - 16  | 1,5 - 16  |
| Size of terminal screw                         |                      |                                                                                     |     |         |       | M3,5 Pz1 | M3,5 Pz1   | M4 Pz2    | M5Pz2     | M5Pz2     |
| Tightening torque                              |                      |                                                                                     |     |         | Nxm   | 1,4      | 1,4        | 1,7 - 1,8 | 2,5 - 2,8 | 2,5 - 2,8 |

UL508i LISTED  
E362647

| UL508i                                         |  | LISTED<br>E362647 |  |                   |                                                                                     |    |         |           |           |           |           |           |       |   |   |    |    |
|------------------------------------------------|--|-------------------|--|-------------------|-------------------------------------------------------------------------------------|----|---------|-----------|-----------|-----------|-----------|-----------|-------|---|---|----|----|
| Ampere-Rating "General use"                    |  |                   |  | 2 Poles in series |  | UL | 600Vdc  | A         | ZFC16     | ZFC25     | ZFV32     | ZFV40     | ZFV55 |   |   |    |    |
|                                                |  |                   |  |                   |                                                                                     |    |         |           |           |           | 1000Vdc   | A         | -     | - | - | 16 | 20 |
|                                                |  |                   |  | 4 Poles in series |  | UL | 600Vdc  | A         | 16        | 25        | 32        | 40        | 55    |   |   |    |    |
|                                                |  |                   |  |                   |                                                                                     |    | 1000Vdc | A         | -         | -         | -         | 40        | 55    |   |   |    |    |
| Fuse size (RK5) Industrial Control Switch      |  | 5 kA / 600 V      |  |                   |                                                                                     |    | A       | 40        | 60        | 80        | -         | -         |       |   |   |    |    |
| Fuse size (RK5) Industrial Control Switch      |  | 5 kA / 1000 V     |  |                   |                                                                                     |    | A       | -         | -         | -         | 160       | 160       |       |   |   |    |    |
| Maximum cable cross sections (included jumper) |  |                   |  |                   |                                                                                     |    |         |           |           |           |           |           |       |   |   |    |    |
| Solid or stranded                              |  |                   |  |                   |                                                                                     |    | AWG     | 16 - 10   | 16 - 10   | 12 - 10   | 16 - 10   | 16 - 10   |       |   |   |    |    |
| Flexible                                       |  |                   |  |                   |                                                                                     |    | AWG     | 20 - 6    | 20 - 6    | 12 - 6    | 14 - 4    | 14 - 4    |       |   |   |    |    |
| Flexible (+ multicore cable end)               |  |                   |  |                   |                                                                                     |    | AWG     | 20 - 6    | 20 - 6    | 12 - 6    | - -       | - -       |       |   |   |    |    |
| Size of terminal screw                         |  |                   |  |                   |                                                                                     |    |         | M3,5 Pz1  | M3,5 Pz1  | M4 Pz2    | M5Pz2     | M5Pz2     |       |   |   |    |    |
| Tightening torque                              |  |                   |  |                   |                                                                                     |    | Nxm     | 1,7 - 1,8 | 1,7 - 1,8 | 1,7 - 1,8 | 2,5 - 2,8 | 2,5 - 2,8 |       |   |   |    |    |



## Accessories

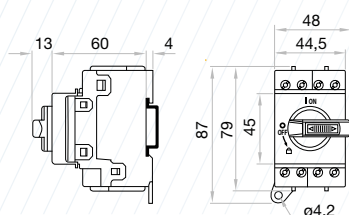


» Insulated bridging links included

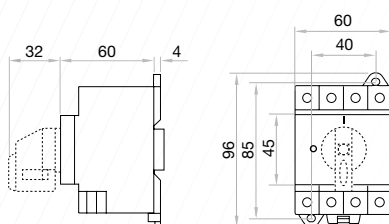
CODE ZTC-B1 16-25 A  
ZFB-B1 32 A  
ZFB-B2 40-55 A

## Dimensions (mm)

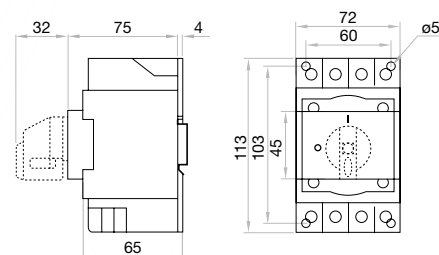
## ZFC16-25



## ZFB32

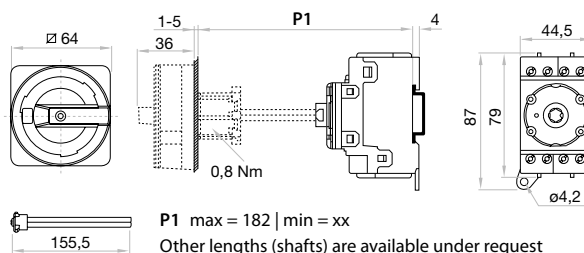


## ZFB40-55



## ZFC16-25

Door drilling for external handle

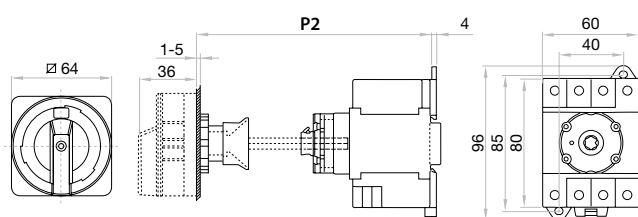


P1 max = 182 | min = xx

Other lengths (shafts) are available under request

## ZFB32

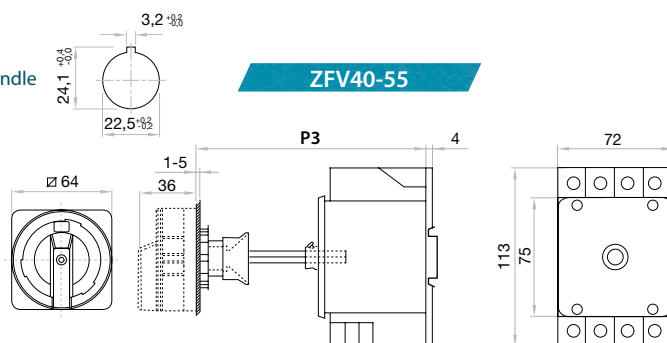
Door drilling for external handle



P2 max = 150 | min = 89

Other lengths (shafts) are available under request

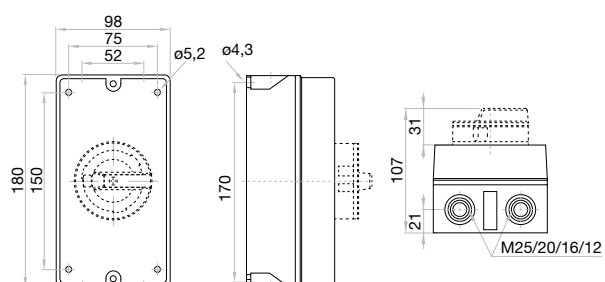
## ZFB40-55



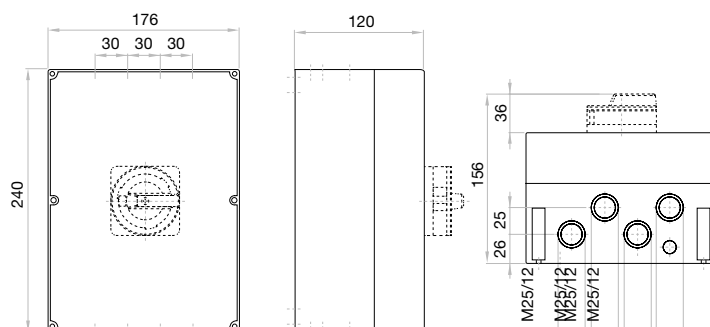
P3 max = 194 | min = 103

Other lengths (shafts) are available under request

## ZFC16 - ZFB32



## ZFB55



series  
**S5 DC**

# S5 DC

## Switch - disconnecter for DC current 4P

Size 0

A

40



900 Vdc



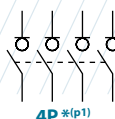
CODE-40A

S5-01604PB0



CODE-40A

S5-01604PS0



tests:

**AIT**  
AUSTRIAN INSTITUTE  
OF TECHNOLOGY  
TOMORROW TODAY

### Technical information



According to IEC 60947-1  
IEC 60947-3

| 40                                              |          |         |      |
|-------------------------------------------------|----------|---------|------|
| Rated thermal current in ambient at             | Ith      | 40° C   | A    |
|                                                 |          | 50° C   | A    |
|                                                 |          | 60° C   | A    |
| Rated insulation voltage DC20                   | Ui       | V       | 1000 |
| Rated impulse withstand voltage                 | Uimp     | kV      | 8    |
| Rated operational current <sup>*(1)</sup> DC21B | Ue<br>Ie | 900 Vdc | A    |
|                                                 |          |         | 40   |

<sup>\*(1)</sup> Other voltages and / or utilization categories. Please consult

<sup>\*(2)</sup> Without limiting protective device (short-circuit maintained 50... 100 ms.)

#### Short - circuit behaviour

|                                                                                               |        |           |       |
|-----------------------------------------------------------------------------------------------|--------|-----------|-------|
| Short - circuit making capacity <sup>*(2)</sup>                                               | Icm    | kA (peak) | 13    |
| Rated short-time withstand current (1sec.)                                                    | Icw    | kA rms    | 7     |
| Number of mechanical operations (according to the standards, for other values please consult) | Cycles |           | 10000 |
| Maximum weight (without bridging links)                                                       | Kg     |           | 1     |



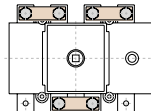
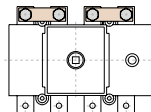
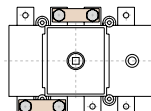
**DO NOT USE IN  
GROUNDED INSTALLATIONS**

### Connection diagram

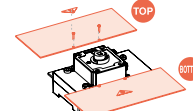
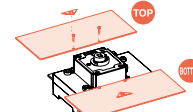
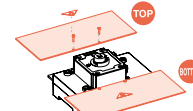
#### Connection diagram



#### Bridging links<sup>\*(p1)</sup>



#### Terminal protection



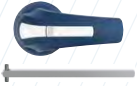


## Accessories



### » Direct handle

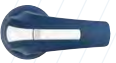
CODE DS-SI01



### » External handle included shaft<sup>\*(e1)</sup>

IP65

CODE DS-SA01



### » External handle without shaft

IP65

CODE DS-SA03

### » Shafts

**Standard shaft** included <sup>\*(e1)</sup>

| L (mm) | P (mm)      |
|--------|-------------|
| 177    | 87... 197,5 |

**Shaft extensions**

| Type 1 |           |         |
|--------|-----------|---------|
| L (mm) | P (mm)    | CODE    |
| 250    | 87... 278 | DS-EP04 |

| Type 2 |           |         |
|--------|-----------|---------|
| L (mm) | P (mm)    | CODE    |
| 387    | 87... 415 | DS-EP05 |



### » Terminal protection

CODE DS-CU01

(1 unit for input or output)



### » Bridging links<sup>\*(p1)</sup>

**A B** CODE DS-PI05 (2 units)

**A B** CODE DS-PI01 (2 units)

**C** CONSULT

<sup>\*(p1)</sup> To comply with the operation and electrical features, the bridging links must be assembled to the switch. Please consult.



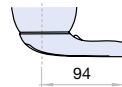
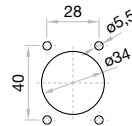
### » DIN rail mounting

CODE DS-DN01

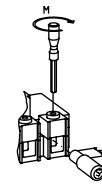
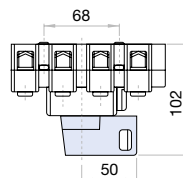
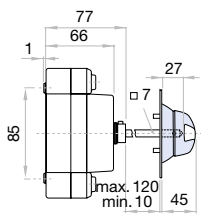
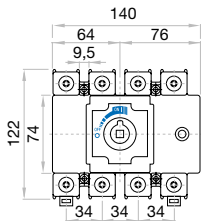
(1 kit)

## Dimensions (mm)

Door drilling for external handle

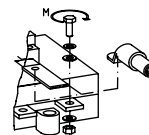
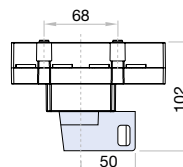
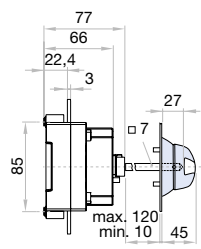
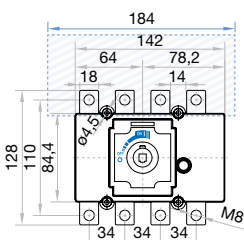


For handle



| S max<br>(Cu)   | M   |
|-----------------|-----|
| mm <sup>2</sup> | Nxm |

|  |    |   |
|--|----|---|
|  | 95 | 4 |
|--|----|---|



| S max<br>(Cu)   | H max<br>(Cu) | L max<br>(Cu) | T | M   |
|-----------------|---------------|---------------|---|-----|
| mm <sup>2</sup> | mm            | mm            |   | Nxm |

|  |    |   |    |    |    |
|--|----|---|----|----|----|
|  | 95 | 5 | 25 | M8 | 13 |
|--|----|---|----|----|----|

series  
S5 DC



# S5 DC Switch - disconnecter for DC current 4P

Size 1

A 100|160|250|400



1000 Vdc



CODE - 100A

S5-01254PR0



CODE - 160A

S5-02004PR0



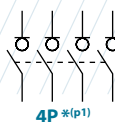
CODE - 250A

S5-03154PR0



CODE - 400A

S5-04004PC0



4P \*(p1)

## Technical information

According to IEC 60947-1  
IEC 60947-3



consult



consult



consult



tests:

|                                                       |      |          | 100  | 160  | 250  | 400  |     |
|-------------------------------------------------------|------|----------|------|------|------|------|-----|
| Rated thermal current<br>in ambient at                | Ith  | 40° C    | A    | 125  | 200  | 315  | 400 |
|                                                       |      | 50° C    | A    | 125  | 200  | 315  | 400 |
|                                                       |      | 60° C    | A    | 125  | 200  | 280  | 320 |
| Rated insulation<br>voltage DC20                      | Ui   | V        | 1500 | 1500 | 1500 | 1500 |     |
| Rated impulse<br>withstand voltage                    | Uimp | kV       | 8    | 8    | 8    | 8    |     |
| Rated operational<br>current <sup>*(1)</sup><br>DC21B | Ie   | Ue       |      |      |      |      |     |
|                                                       |      | 1000 Vdc | A    | 100  | 160  | 250  | 400 |

<sup>\*(1)</sup> Other voltages and / or utilization categories. Please consult

<sup>\*(2)</sup> Without limiting protective device (short-circuit maintained 50... 100 ms.)

|                                                                                               |        |           | 100   | 160  | 250  | 400  |
|-----------------------------------------------------------------------------------------------|--------|-----------|-------|------|------|------|
| <b>Short - circuit behaviour</b>                                                              |        |           |       |      |      |      |
| Short - circuit making capacity <sup>*(2)</sup>                                               | Icm    | kA (peak) | 20    | 20   | 20   | 20   |
| Rated short-time withstand current (1sec.)                                                    | Icw    | kA rms    | 12    | 12   | 12   | 12   |
| Number of mechanical operations (according to the standards, for other values please consult) | Cycles |           | 10000 | 8000 | 8000 | 5000 |
| Maximum weight (without bridging links)                                                       | Kg     |           | 1,9   | 1,9  | 1,9  | 2,1  |



**DO NOT USE IN  
GROUNDED INSTALLATIONS**

## Connection diagram

### Connection diagram

A



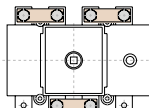
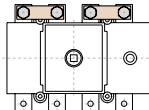
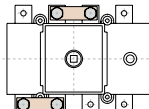
B



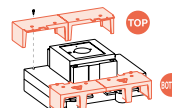
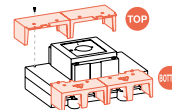
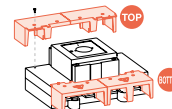
C



### Bridging links <sup>\*(p1)</sup>



### Terminal shrouds



## Accessories



## » Direct handle

CODE DS-SI11

» External handle included shaft <sup>\*(e1)</sup>

IP65

CODE DS-SA11



## » External handle without shaft

IP65

CODE DS-SA14

## » Shafts

Standard shaft included <sup>\*(e1)</sup>

| L (mm) | P (mm)     |
|--------|------------|
| 227    | 103... 256 |

Shaft extensions

Type 1

| L (mm) | P (mm)     | CODE    |
|--------|------------|---------|
| 375    | 103... 415 | DS-EP14 |

Type 2

| L (mm) | P (mm)     | CODE    |
|--------|------------|---------|
| 536    | 103... 576 | DS-EP15 |



## » Auxiliary contacts

1NO+1NC CODE D5LAU01

2NO+2NC CODE D5LAU02

I<sub>e</sub> = 16 A (resistive loads)

4 A (inductive loads) at 250 Vac.



## » Terminal protection

CODE DS-CU12

(1 unit for input or output)



## » Terminal shrouds (2 units)

|        | A       | B       | C       |
|--------|---------|---------|---------|
| TOP    | DS-CU18 | DS-CU10 | DS-CU10 |
| BOTTOM | DS-CU19 | DS-CU11 | DS-CU18 |

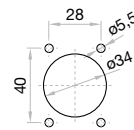
» Bridging links <sup>\*(p1)</sup>

A B CODE DS-PI11 (2 units)

A B CODE DS-PI14 (2 units)

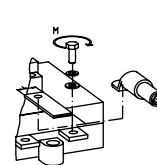
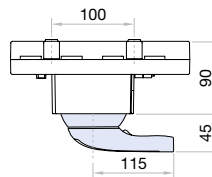
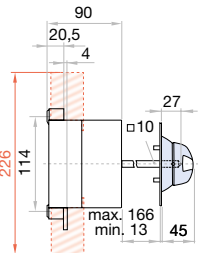
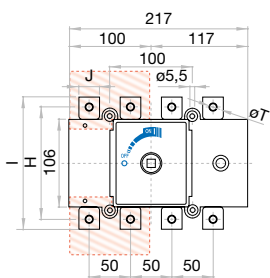
C CODE CONSULT

<sup>\*(p1)</sup> To comply with the operation and electrical features, the bridging links must be assembled to the switch. Please consult.

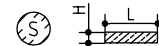


Door drilling for external handle

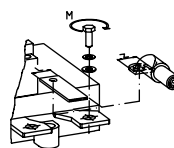
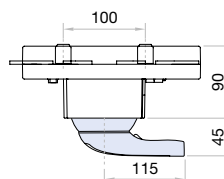
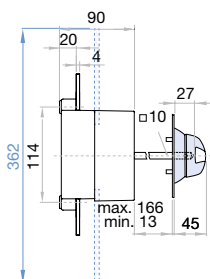
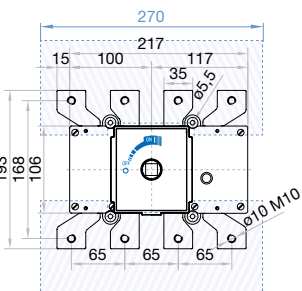
## Dimensions (mm)



|       | H   | I   | J  | øT  |
|-------|-----|-----|----|-----|
| 100 A | 130 | 150 | 20 | M8  |
| 160 A |     |     |    |     |
| 250 A | 143 | 167 | 25 | M10 |



|       | S max<br>(Cu)<br>mm <sup>2</sup> | H max<br>(Cu)<br>mm | L max<br>(Cu)<br>mm | T   | M   |
|-------|----------------------------------|---------------------|---------------------|-----|-----|
| 100 A |                                  |                     |                     |     | Nxm |
| 160 A | 185                              | 7                   | 25                  | M8  | 13  |
| 250 A |                                  |                     |                     | M10 | 18  |



|       | S max<br>(Cu)<br>mm <sup>2</sup> | Z max | H max<br>(Cu)<br>mm | L max<br>(Cu)<br>mm | T   | M  |
|-------|----------------------------------|-------|---------------------|---------------------|-----|----|
| 400 A | 240                              | 44    | 7                   | 40                  | M10 | 24 |

series  
**S5 DC**

# S5 DC

## Switch - disconnecter for DC current 4P

Size 2

A 500|630



1000 Vdc



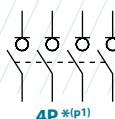
CODE-500A

S5-06304PRO



CODE-630A

S5-06302ERO



### Technical information

According to IEC 60947-1  
IEC 60947-3



consult



consult



consult

tests:



|                                                 |      |                | 500 | 630  |
|-------------------------------------------------|------|----------------|-----|------|
| Rated thermal current in ambient at             | Ith  | 40° C          | A   | 500  |
|                                                 |      | 50° C          | A   | 500  |
|                                                 |      | 60° C          | A   | 400  |
| Rated insulation voltage DC20                   | Ui   |                | V   | 1500 |
| Rated impulse withstand voltage                 | Uimp |                | kV  | 12   |
| Rated operational current <sup>*(1)</sup> DC21B | Ie   | Ue<br>1000 Vdc | A   | 500  |
|                                                 |      |                |     | 630  |

<sup>\*(1)</sup> Other voltages and / or utilization categories. Please consult

<sup>\*(2)</sup> Without limiting protective device (short-circuit maintained 50... 100 ms.)

|                                                                                               |        |           | 500  | 630  |
|-----------------------------------------------------------------------------------------------|--------|-----------|------|------|
| Short - circuit behaviour                                                                     |        |           |      |      |
| Short - circuit making capacity <sup>*(2)</sup>                                               | Icm    | kA (peak) | 26   | 26   |
| Rated short-time withstand current (1sec.)                                                    | Icw    | kA rms    | 16   | 16   |
| Number of mechanical operations (according to the standards, for other values please consult) | Cycles |           | 5000 | 5000 |
| Maximum weight (without bridging links)                                                       | Kg     |           | 4,5  | 4,5  |



**DO NOT USE IN  
GROUNDED INSTALLATIONS**

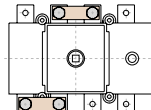
### Connection diagram

Connection diagram

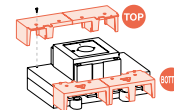
A



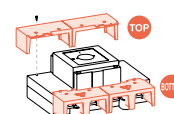
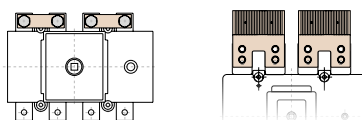
Bridging links <sup>\*(p1)</sup>



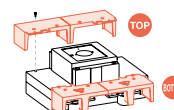
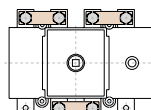
Terminal shrouds



B



C



## Accessories



## » Direct handle

CODE DS-LI21

» External handle included shaft <sup>\*(e1)</sup>

IP65

CODE DS-LA21



## » External handle without shaft

IP65

CODE DS-LA24

## » Shafts

Standard shaft included <sup>\*(e1)</sup>

| L (mm) | P (mm)     |
|--------|------------|
| 195    | 134... 240 |

## Shaft extensions

| Type 1 |            |         |
|--------|------------|---------|
| L (mm) | P (mm)     | CODE    |
| 345    | 134... 400 | DS-EP23 |

| Type 2 |            |         |
|--------|------------|---------|
| L (mm) | P (mm)     | CODE    |
| 535    | 134... 560 | DS-EP24 |



## » Auxiliary contacts

1NO+1NC CODE D5LAU01

2NO+2NC CODE D5LAU02

I<sub>e</sub> = 16 A (resistive loads)

4 A (inductive loads) at 250 Vac.



## » Terminal protection

CODE DS-CU22

(1 unit for input or output)



## » Terminal shrouds (2 units - only for 500A))

|        | A       | B       | C       |
|--------|---------|---------|---------|
| TOP    | DS-CU28 | DS-CU20 | DS-CU20 |
| BOTTOM | DS-CU29 | DS-CU21 | DS-CU28 |

» Bridging links <sup>\*(p1)</sup>

A B 500A CODE DS-PI21 (2 units)

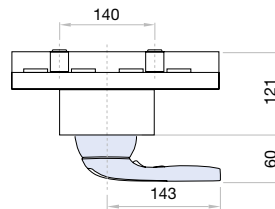
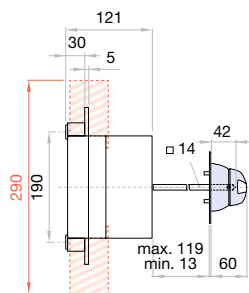
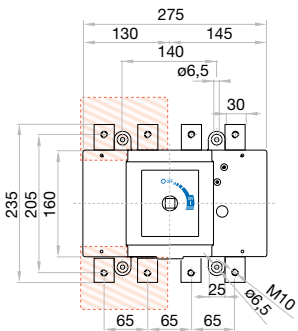
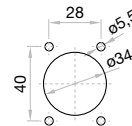
C CODE CONSULT

B 630A CODE DS-PI2D (2 units)

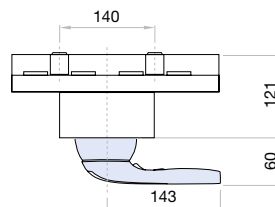
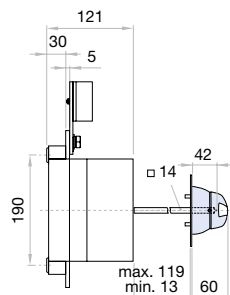
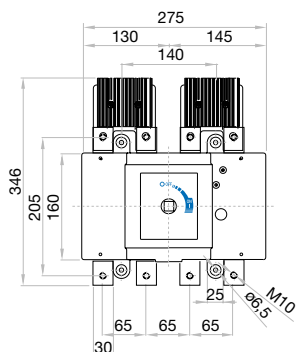
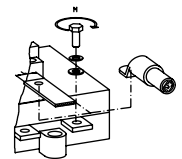
<sup>\*(p1)</sup> To comply with the operation and electrical features, the bridging links must be assembled to the switch. Please consult.

## Dimensions (mm)

Door drilling for external handle



500 A



630 A

|      | S max<br>(Cu)<br>mm <sup>2</sup> | H max<br>(Cu)<br>mm | L max<br>(Cu)<br>mm | M   | M  |
|------|----------------------------------|---------------------|---------------------|-----|----|
|      |                                  |                     |                     | Nxm |    |
| 500A | 2x240                            | 2x5                 | 40                  | M10 | 24 |
| 630A |                                  |                     | 50                  |     |    |

series  
**S5 DC**

# S5 DC

## Switch - disconnecter for DC current 4P

Size 3

A 850|1250



1000 Vdc

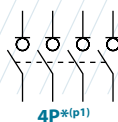


CODE-850A

S5-12504PC0

CODE-1250A

S5-12502EC0



tests:

### Technical information

According to IEC 60947-1  
IEC 60947-3



consult



consult



consult



TOMORROW TODAY

|                                                 |      |          | 850 | 1250 |
|-------------------------------------------------|------|----------|-----|------|
| Rated thermal current in ambient at             | Ith  | 40° C    | A   | 850  |
|                                                 |      | 50° C    | A   | 850  |
|                                                 |      | 60° C    | A   | 700  |
| Rated insulation voltage DC20                   | Ui   |          | V   | 1500 |
| Rated impulse withstand voltage                 | Uimp |          | kV  | 12   |
| Rated operational current <sup>*(1)</sup> DC21B | Ie   | Ue       | A   | 850  |
|                                                 |      | 1000 Vdc | A   | 1250 |

<sup>\*(1)</sup> Other voltages and / or utilization categories. Please consult

<sup>\*(2)</sup> Without limiting protective device (short-circuit maintained 50... 100 ms.)

|                                                                                               |        |           | 850  | 1250 |
|-----------------------------------------------------------------------------------------------|--------|-----------|------|------|
| Short - circuit behaviour                                                                     |        |           |      |      |
| Short - circuit making capacity <sup>*(2)</sup>                                               | Icm    | kA (peak) | 60   | 60   |
| Rated short-time withstand current (1sec.)                                                    | Icw    | kA rms    | 25   | 25   |
| Number of mechanical operations (according to the standards, for other values please consult) | Cycles |           | 3000 | 3000 |
| Maximum weight (without bridging links)                                                       | Kg     |           | 7,6  | 7,6  |



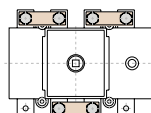
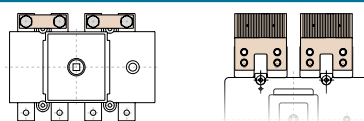
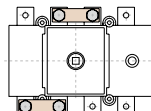
**DO NOT USE IN  
GROUNDED INSTALLATIONS**

### Connection diagram

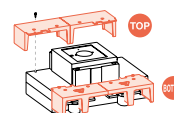
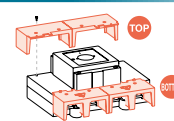
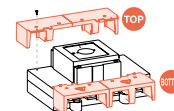
Connection diagram



Bridging links <sup>\*(p1)</sup>



Terminal shrouds



## Accessories



## » Direct handle

CODE DS-LI31

» External handle included shaft <sup>\*(e1)</sup>

IP65

CODE DS-LA31



## » External handle without shaft

IP65

CODE DS-LA33



## » Auxiliary contacts

1NO+1NC CODE D5LAU01

2NO+2NC CODE D5LAU02

I<sub>e</sub> = 16 A (resistive loads)

4 A (inductive loads) at 250 Vac.



## » Terminal shrouds (2 units - only for 850A)

|        | A       | B       | C       |
|--------|---------|---------|---------|
| TOP    | DS-CU38 | DS-CU30 | DS-CU30 |
| BOTTOM | DS-CU39 | DS-CU31 | DS-CU38 |

## » Shafts

Standard shaft included <sup>\*(e1)</sup>

| L (mm) | P (mm)     |
|--------|------------|
| 186    | 145... 242 |

## Shaft extensions

Type 1

| L (mm) | P (mm)     | CODE    |
|--------|------------|---------|
| 345    | 145... 411 | DS-EP23 |

Type 2

| L (mm) | P (mm)     | CODE    |
|--------|------------|---------|
| 535    | 145... 600 | DS-EP24 |

» Bridging links <sup>\*(p1)</sup>

A B 850A CODE DS-PI31 (2 units)

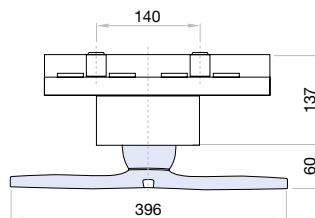
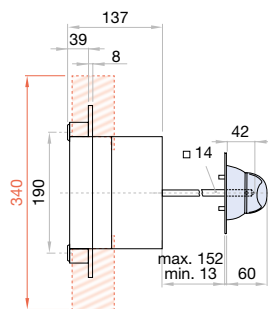
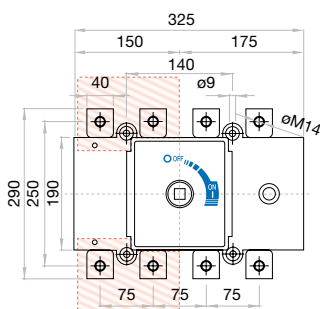
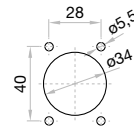
C CODE CONSULT

B 1250A CODE DS-PI3D (2 units)

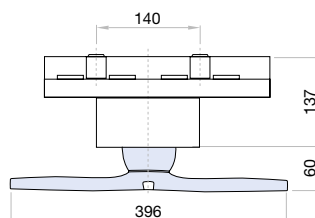
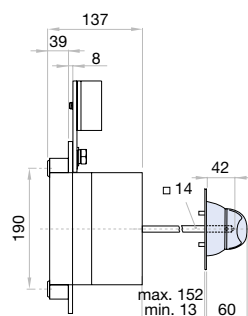
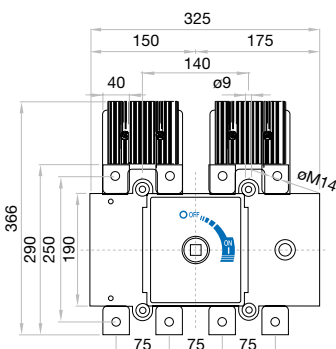
<sup>\*(p1)</sup> To comply with the operation and electrical features, the bridging links must be assembled to the switch. Please consult.

## Dimensions (mm)

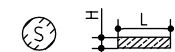
Door drilling for external handle



850 A



1250 A



| S max<br>(Cu)   | H max<br>(Cu) | L max<br>(Cu) | M   | M   |
|-----------------|---------------|---------------|-----|-----|
| mm <sup>2</sup> | mm            | mm            | M14 | Nxm |
| 2x300           | 2x10          | 50            | M14 | 45  |

series  
**S5 DC**

# S5 DC

## Switch - disconnecter for DC current 4P

Size 4

A 1250|1800|2000



1000 Vdc



CODE - 1250A

S5-18004PS0

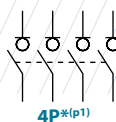


CODE - 1800A

S5-18002ES0

CODE - 2000A

S5-20002ED0



### Technical information

According to IEC 60947-1  
IEC 60947-3



consult



consult



consult

tests:



|                                                 |                   |    | 1250 | 1800 | 2000 |
|-------------------------------------------------|-------------------|----|------|------|------|
| Rated thermal current in ambient at             | Ith 40° C         | A  | 1250 | 1800 | 2000 |
|                                                 | 50° C             | A  | 1250 | 1620 | 1800 |
|                                                 | 60° C             | A  | 1250 | 1400 | 1600 |
| Rated insulation voltage DC20                   | Ui                | V  | 1500 | 1500 | 1500 |
| Rated impulse withstand voltage                 | Uimp              | kV | 12   | 12   | 12   |
| Rated operational current <sup>*(1)</sup> DC21B | Ue<br>Ie 1000 Vdc | A  | 1250 | 1800 | 2000 |

<sup>\*(1)</sup> Other voltages and / or utilization categories. Please consult

<sup>\*(2)</sup> Without limiting protective device (short-circuit maintained 50... 100 ms.)

|                                                                                               |        |           | 1250 | 1800 | 2000 |
|-----------------------------------------------------------------------------------------------|--------|-----------|------|------|------|
| <b>Short - circuit behaviour</b>                                                              |        |           |      |      |      |
| Short - circuit making capacity <sup>*(2)</sup>                                               | Icm    | kA (peak) | 60   | 60   | 60   |
| Number of mechanical operations (according to the standards, for other values please consult) | Cycles |           | 3000 | 3000 | 3000 |
| Maximum weight (without jumpers)                                                              | Kg     |           | 20,8 | 20,8 | 20,8 |



**DO NOT USE IN  
GROUNDED INSTALLATIONS**

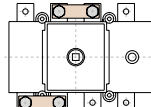
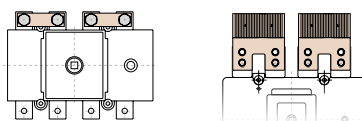
### Connection diagram

#### Connection diagram

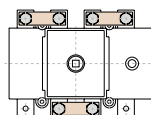
A S5-18004PS0



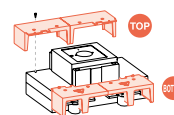
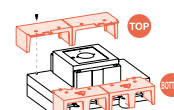
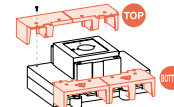
#### Bridging links<sup>\*(p1)</sup>

B S5-18004PS0  
S5-18002ES0  
S5-20002ED0

C S5-18004PS0



#### Terminal shrouds



## Accessories



## » Direct handle

CODE DS-LI41

» External handle included shaft <sup>\*(e1)</sup>

IP65 | UL50E/NEMA 250  
Types: 1, 3R, 4, 4X y 12  
CODE DS-LA41



## » External handle without shaft

IP65 | UL50E/NEMA 250  
Types: 1, 3R, 4, 4X y 12  
CODE DS-LA43

## » Shafts

Standard shaft included <sup>\*(e1)</sup>

| L (mm) | P (mm)     |
|--------|------------|
| 239    | 235... 400 |

## Shaft extensions

## Type 1

| L (mm) | P (mm)     | CODE    |
|--------|------------|---------|
| 485    | 235... 686 | DS-EP44 |

## Type 2

| L (mm) | P (mm)     | CODE    |
|--------|------------|---------|
| 635    | 235... 836 | DS-EP45 |



## » Auxiliary contacts

1NO+1NC CODE D5LAU01  
2NO+2NC CODE D5LAU02

I<sub>e</sub> = 16 A (resistive loads)  
4 A (inductive loads) at 250 Vac.



## » Terminal shrouds (2 units)

|        | A       | B       | C       |
|--------|---------|---------|---------|
| TOP    | DS-CU48 | DS-CU40 | DS-CU40 |
| BOTTOM | DS-CU49 | DS-CU41 | DS-CU48 |

» Bridging links <sup>\*(p1)</sup>

For S5-18004PSO A B CODE DS-PI41 (2 units)  
C CONSULT

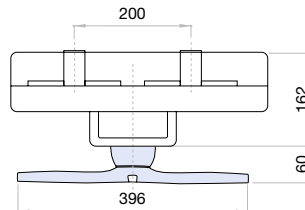
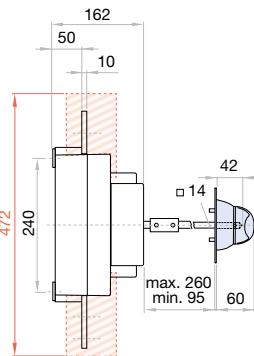
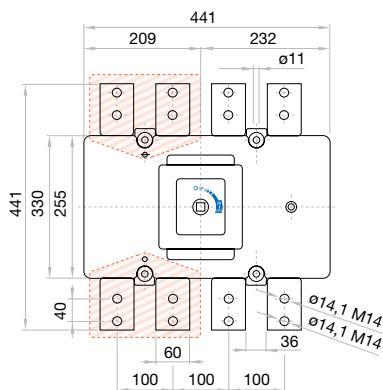
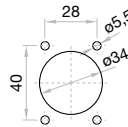
For S5-18002ESO S5-20002EDO B CODE DS-PI4D (2 units)

C CONSULT

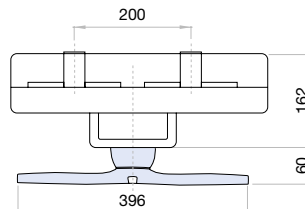
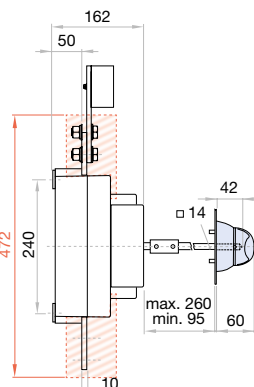
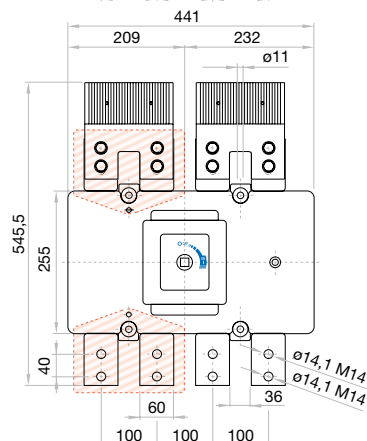
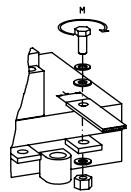
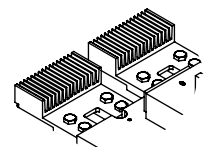
<sup>\*(p1)</sup> To meet the operation and electrical features, the product installed must incorporate these bridging links. Please consult.

## Dimensions (mm)

Door drilling for external handle



1250 A

1800 A  
2000 A

| H max (Cu) | L max (Cu) | M   | M   |
|------------|------------|-----|-----|
| mm         | mm         |     | Nxm |
| 2x7        | 80         | M14 | 55  |



# S5M DC

## Switch - disconnecter for DC current 4P + 4P

Size 2

A 500|630



1500 Vdc

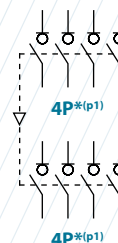


CODE-500A

S5M063044R0

CODE-630A

S5M080044C0



### Technical information



tests:



According to IEC60947-1  
IEC60947-3

|                                     |                   |    | 500  | 630  |
|-------------------------------------|-------------------|----|------|------|
| Rated thermal current in ambient at | Ith 40° C         | A  | 500  | 630  |
|                                     | 50° C             | A  | 500  | 630  |
|                                     | 60° C             | A  | 500  | 630  |
| Rated insulation voltage DC20       | Ui                | V  | 1500 | 1500 |
| Rated impulse withstand voltage     | Uimp              | kV | 12   | 12   |
| Rated operational current DC21B     | Ue<br>Ie 1500 Vdc | A  | 500  | 630  |

\*(1) Without limiting protective device (short-circuit maintained 50... 100 ms.)

#### Short - circuit behaviour

|                                           |     |           |    |
|-------------------------------------------|-----|-----------|----|
| Maximum cut - off current <sup>*(1)</sup> | Icm | kA (peak) | 26 |
| Short - time withstand current (1 sec.)   | Icw | kA rms    | 16 |

#### Mechanical features

|                                                                                               |        |      |
|-----------------------------------------------------------------------------------------------|--------|------|
| Number of mechanical operations (according to the standards, for other values please consult) | Cycles | 5000 |
| Maximum weight (without jumpers)                                                              | Kg     | 13   |



DO NOT USE IN  
GROUNDED INSTALLATIONS

### Connection diagram

#### Connection diagram

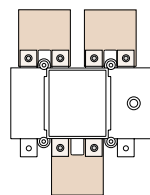
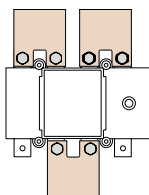
A S5M063044R0



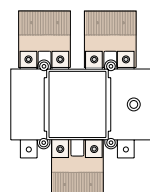
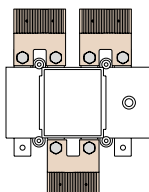
#### Bridging links<sup>\*(p1)</sup>

Front switch

Rear switch



B S5M080044C0

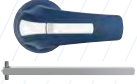


## Accessories



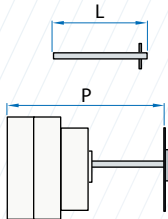
## » Direct handle

CODE DS-LI22

» External handle included shaft <sup>\*(e1)</sup>

IP65

CODE DS-LA22



## » Shafts

Standard shaft included <sup>\*(e1)</sup>

| L (mm) | P (mm)     |
|--------|------------|
| 239    | 325... 490 |



## » Auxiliary contacts

1NO+1NC CODE DS-AU11

2NO+2NC CODE DS-AU12

I<sub>e</sub> = 16 A (resistive loads)

4 A (inductive loads) at 250 Vac.

» Bridging links <sup>\*(p1)</sup>

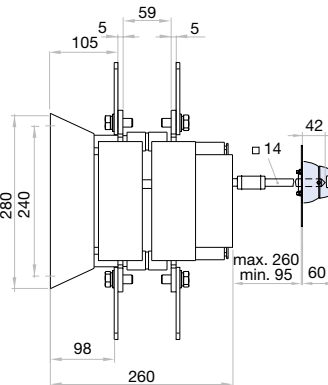
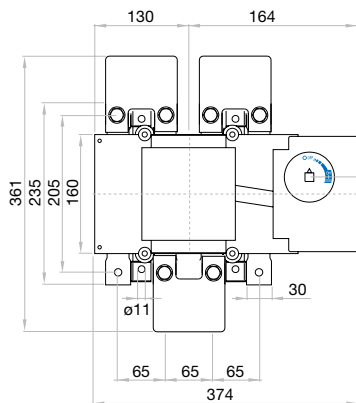
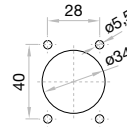
A 500A CODE DS-PI230L (2 units)

B 630A CODE DS-PI2D (2 units)

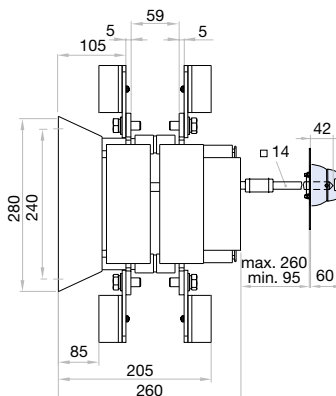
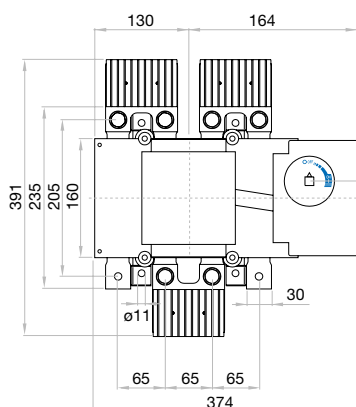
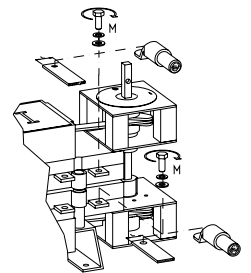
<sup>\*(p1)</sup> To comply with the operation and electrical features, the bridging links must be assembled to the switch. Please consult.

## Dimensions (mm)

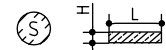
Door drilling for external handle



500A



630A



| S max<br>(Cu)   | H max<br>(Cu) | L max<br>(Cu) | M   | M   |
|-----------------|---------------|---------------|-----|-----|
| mm <sup>2</sup> | mm            | mm            | T   | Nxm |
| 2x240           | 2x5           | 40            | M10 | 24  |



# S5M DC

## Switch - disconnecter

### for DC current 4P+4P

Size 3

A 800|1000



1500 Vdc



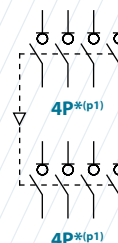
CODE-800A

S5M080044R0



CODE-1000A

S5M125044C0



### Technical information



tests:



According to IEC60947-1  
IEC60947-3

|                                     |      |          | 800 | 1000 |
|-------------------------------------|------|----------|-----|------|
| Rated thermal current in ambient at | Ith  | 40° C    | A   | 800  |
|                                     |      | 50° C    | A   | 800  |
|                                     |      | 60° C    | A   | 800  |
| Rated insulation voltage DC20       | Ui   |          | V   | 1500 |
| Rated impulse withstand voltage     | Uimp |          | kV  | 12   |
| Rated operational current DC21B     | Ue   |          |     |      |
|                                     | Ie   | 1500 Vdc | A   | 800  |
|                                     |      |          |     | 1000 |

\*(1) Without limiting protective device (short-circuit maintained 50... 100 ms.)

#### Short - circuit behaviour

|                                           |     |           |    |
|-------------------------------------------|-----|-----------|----|
| Maximum cut - off current <sup>*(1)</sup> | Icm | kA (peak) | 60 |
| Short - time withstand current (1 sec.)   | Icw | kA rms    | 25 |

#### Mechanical features

|                                                                                               |        |      |
|-----------------------------------------------------------------------------------------------|--------|------|
| Number of mechanical operations (according to the standards, for other values please consult) | Cycles | 3000 |
| Maximum weight (without jumpers)                                                              | Kg     | 28,6 |



DO NOT USE IN  
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### Connection diagram

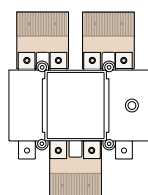
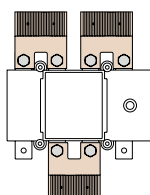
#### Connection diagram



#### Bridging links<sup>\*(p1)</sup>

Front switch

Rear switch



## Accessories



## » Direct handle

CODE DS-LI41

» External handle included shaft <sup>\*(e1)</sup>

IP65

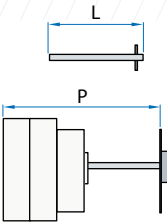
CODE DS-LA41



## » External handle without shaft

IP65

CODE DS-LA43



## » Shafts

Standard shaft included <sup>\*(e1)</sup>

| L (mm) | P (mm)     |
|--------|------------|
| 239    | 408... 573 |



## » Auxiliary contacts

1NO+1NC CODE DS-AU11

2NO+2NC CODE DS-AU12

I<sub>e</sub> = 16 A (resistive loads)

4 A (inductive loads) at 250 Vac.

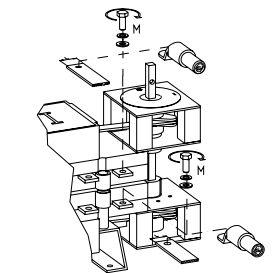
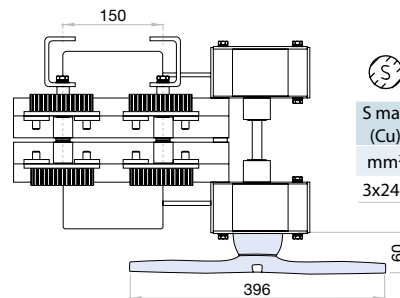
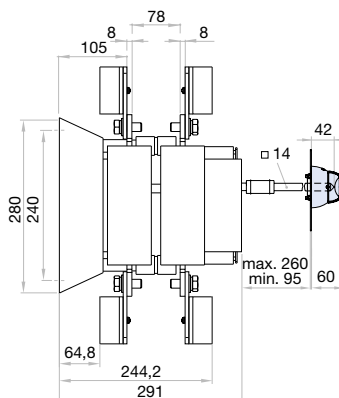
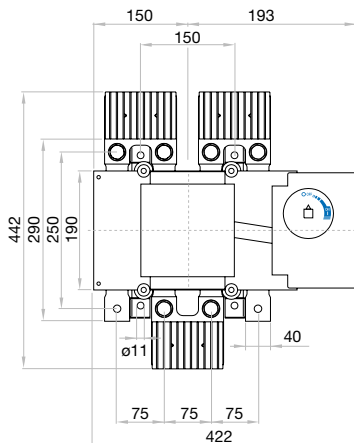
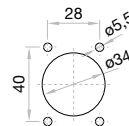
» Bridging links <sup>\*(p1)</sup>

CODE DS-PI3D (2 units)

<sup>\*(p1)</sup> To comply with the operation and electrical features, the bridging links must be assembled to the switch. Please consult.

## Dimensions (mm)

Door drilling for external handle



| S max<br>(Cu)<br>mm <sup>2</sup> | H max<br>(Cu)<br>mm | L max<br>(Cu)<br>mm | M   | M  |
|----------------------------------|---------------------|---------------------|-----|----|
| 3x240                            | 2x10                | 50                  | M14 | 45 |



# S5N DC

## Switch - disconnecter

### for DC current 4P + 4P

Size 4

A 1250|1800



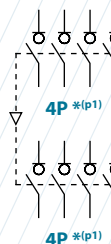
1500 Vdc



CODE - 1250A **S5N160044S0**



CODE - 1800A **S5N180044S0**



### Technical information



According to IEC 60947-1  
IEC 60947-3

|                                                 |      |                | 1250 | 1800 |
|-------------------------------------------------|------|----------------|------|------|
| Rated thermal current in ambient at             | Ith  | 40° C          | A    | 1250 |
|                                                 |      | 50° C          | A    | 1250 |
|                                                 |      | 60° C          | A    | 1250 |
| Rated insulation voltage DC20                   | Ui   | V              | 1500 | 1500 |
| Rated impulse withstand voltage                 | Uimp | kV             | 12   | 12   |
| Rated operational current DC21B <sup>*(1)</sup> | Ie   | Ue<br>1500 Vdc | A    | 1250 |
|                                                 |      |                | 1250 | 1800 |

<sup>\*(1)</sup> Other voltages and / or utilization categories. Please consult

<sup>\*(2)</sup> Without limiting protective device (short-circuit maintained 50... 100 ms.)

#### Short - circuit behaviour

|                                                 |     |           |    |
|-------------------------------------------------|-----|-----------|----|
| Short - circuit making capacity <sup>*(2)</sup> | Icm | kA (peak) | 60 |
| Short - time withstand current (1 sec.)         | Icw | kA rms    | 50 |

#### Mechanical features

|                                                                                               |        |      |
|-----------------------------------------------------------------------------------------------|--------|------|
| Number of mechanical operations (according to the standards, for other values please consult) | Cycles | 600  |
| Maximum weight (without bridging links)                                                       | Kg     | 44,3 |



**DO NOT USE IN  
GROUNDED INSTALLATIONS**

### Connection diagram

#### Connection diagram

**A** S5N160044S0

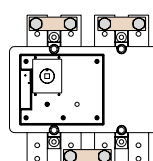


**B** S5N180044S0

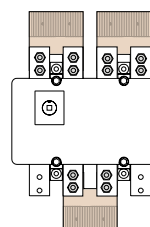
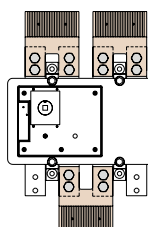
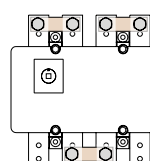


#### Bridging links <sup>\*(p1)</sup>

Front switch



Rear switch





## Accessories



## » Direct handle

CODE DS-LI41

» External handle included shaft <sup>\*(e1)</sup>

IP65

CODE DS-LA41



## » External handle without shaft

IP65

CODE DS-LA43



## » Auxiliary contacts

1NO+1NC CODE D5LAU01

2NO+2NC CODE D5LAU02

I<sub>e</sub> = 16 A (resistive loads)

4 A (inductive loads) at 250 Vac

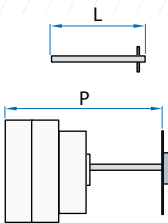
» Bridging links <sup>\*(p1)</sup>

A 1250A CODE DS-PI430U (3 units)



B 1800A CODE DS-PI4D (2 units)

<sup>\*(p1)</sup> To comply with the operation and electrical features, the bridging links must be assembled to the switch. Please consult



## » Shafts

Standard shaft included <sup>\*(e1)</sup>

L (mm)

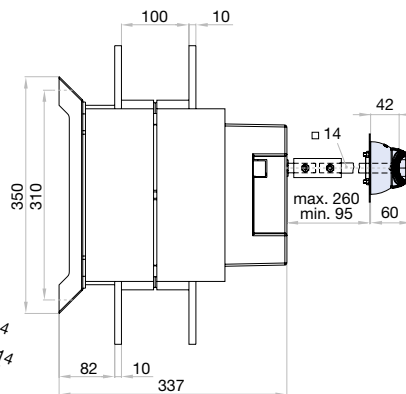
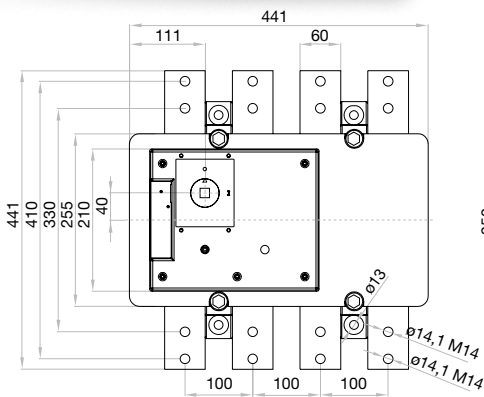
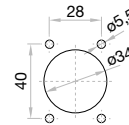
239

P (mm)

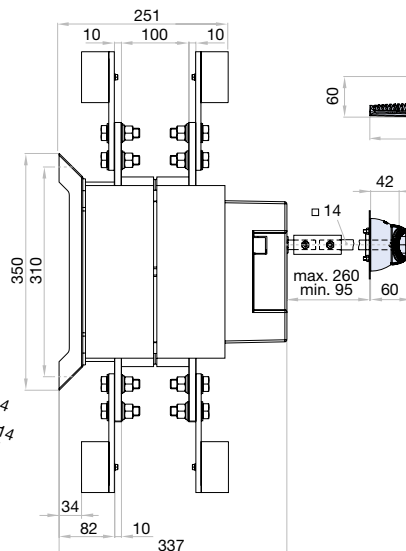
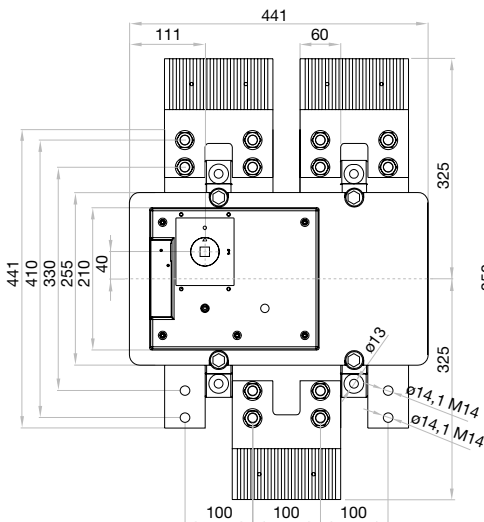
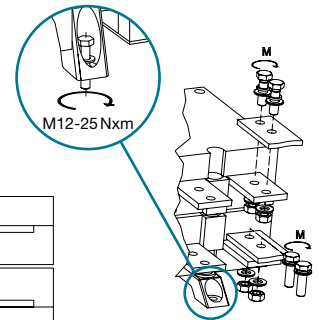
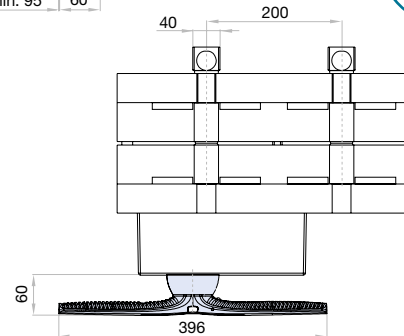
420 ... 580

## Dimensions (mm)

Door drilling for external handle



1250 A



1800 A

| H max<br>(Cu) | L max<br>(Cu) | M   | M   |
|---------------|---------------|-----|-----|
| mm            | mm            |     | Nxm |
| 2x10          | 80            | M14 | 55  |



# S5N DC

## Switch - disconnecter

### for DC current 4P+4P

Size 5

A 2000|2500|3150



1000 Vdc



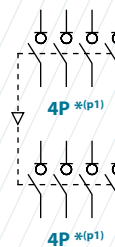
CODE-2000A

S5N2000ES0



CODE-2500A

S5N2500ES0



CODE-3150A

S5N3150ES0

### Technical information



According to IEC 60947-1  
IEC 60947-3

|                                                 |      |                | 2000 | 2500 | 3150 |
|-------------------------------------------------|------|----------------|------|------|------|
| Rated thermal current in ambient at             | Ith  | 40° C          | A    | 2000 | 2500 |
|                                                 |      | 50° C          | A    | 2000 | 2500 |
|                                                 |      | 60° C          | A    | 2000 | 2500 |
| Rated insulation voltage DC20                   | Ui   | V              | 1500 | 1500 | 1500 |
| Rated impulse withstand voltage                 | Uimp | kV             | 12   | 12   | 12   |
| Rated operational current DC21B <sup>*(1)</sup> | Ie   | Ue<br>1000 Vdc | A    | 2000 | 2500 |
|                                                 |      |                |      | 2500 | 3150 |

<sup>\*(1)</sup> Other voltages and / or utilization categories. Please consult

<sup>\*(2)</sup> Without limiting protective device (short-circuit maintained 50... 100 ms.)

#### Short - circuit behaviour

|                                                 |     |           |    |
|-------------------------------------------------|-----|-----------|----|
| Short - circuit making capacity <sup>*(2)</sup> | Icm | kA (peak) | 60 |
| Rated short-time withstand current (1sec.)      | Icw | kA rms    | 50 |

#### Mechanical features

|                                                                                               |        |     |
|-----------------------------------------------------------------------------------------------|--------|-----|
| Number of mechanical operations (according to the standards, for other values please consult) | Cycles | 600 |
| Maximum weight (without bridging links)                                                       | Kg     | 55  |



DO NOT USE IN  
GROUNDED INSTALLATIONS

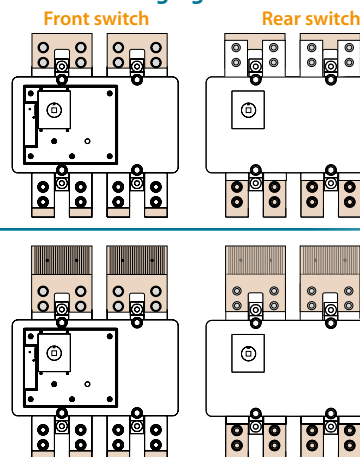
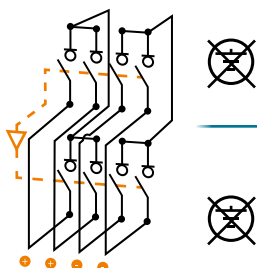
### Connection diagram

#### Connection diagram

#### Bridging links <sup>\*(p1)</sup>

A S5N2000ES0  
S5N2500ES0

B S5N3150ES0





## Accessories



## » Direct handle

CODE DS-LI41

» External handle included shaft <sup>\*(e1)</sup>

IP65

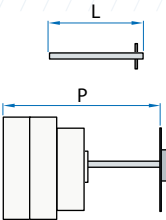
CODE DS-LA41



## » External handle without shaft

IP65

CODE DS-LA43



## » Shafts

Standard shaft included <sup>\*(e1)</sup>

| L (mm) | P (mm)      |
|--------|-------------|
| 239    | 420 ... 580 |



## » Auxiliary contacts

1NO+1NC CODE D5LAU01

2NO+2NC CODE D5LAU02

I<sub>e</sub> = 16 A (resistive loads)

4 A (inductive loads) at 250 Vac

» Bridging links <sup>\*(p1)</sup>

A 2000A CODE DS-PI51 (2 units) + D5LPC45 (4 units)

2500A CODE DS-PI51 (2 units) + D5LPC45 (4 units)

B 3150A CODE x2 DS-PI4D (2 units) + x2 D5LPC45 (4 units)



DS-PI4D



DS-PI51

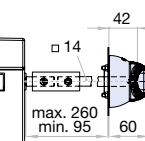
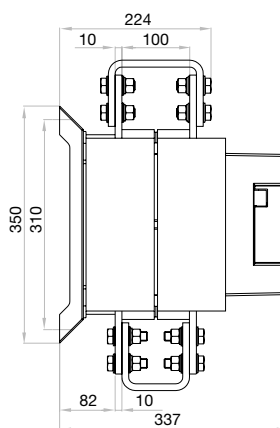
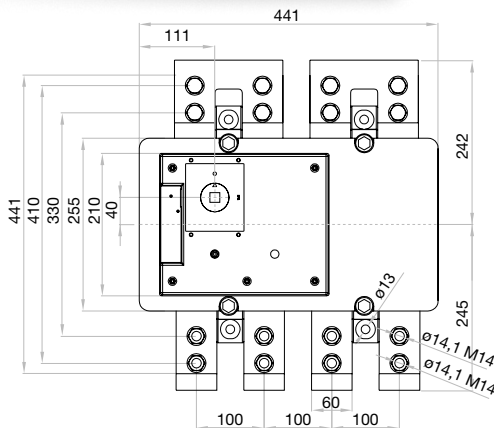
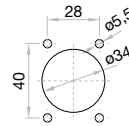
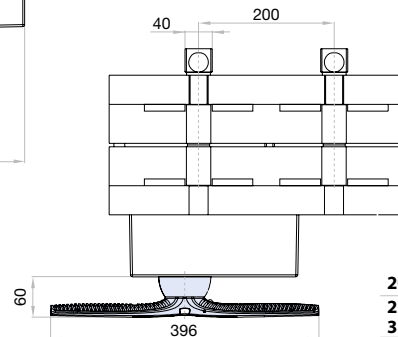


D5LPC45

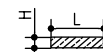
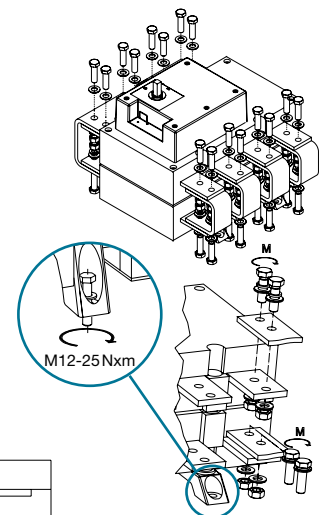
<sup>\*(p1)</sup> To comply with the operation and electrical features, the bridging links must be assembled to the switch. Please consult

## Dimensions (mm)

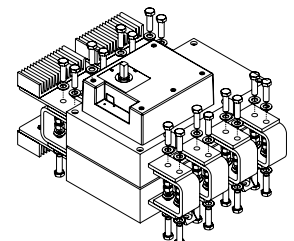
Door drilling for external handle

2000 A  
2500 A

3150 A



|        | H max<br>(Cu)<br>mm | L max<br>(Cu)<br>mm | T<br>mm | M<br>Nxm |
|--------|---------------------|---------------------|---------|----------|
| 2000 A | 2x10                | 80                  | M14     | 55       |
| 2500 A | 4x10                | 80                  | M14     | 55       |
| 3150 A | 4x10                | 80                  | M14     | 55       |





# S6 DC

## Switch - disconnecter for DC current 1P - 2P

Size 1

A 125|160|200|250|315|400



500 - 750 - 1000Vdc



CODE - 500 Vdc

|      |              |
|------|--------------|
| 125A | S6-0125 _ S0 |
| 160A | S6-0160 _ S0 |
| 200A | S6-0200 _ S0 |
| 250A | S6-0250 _ S0 |
| 315A | S6-0315 _ S0 |
| 400A | S6-0400 _ D0 |



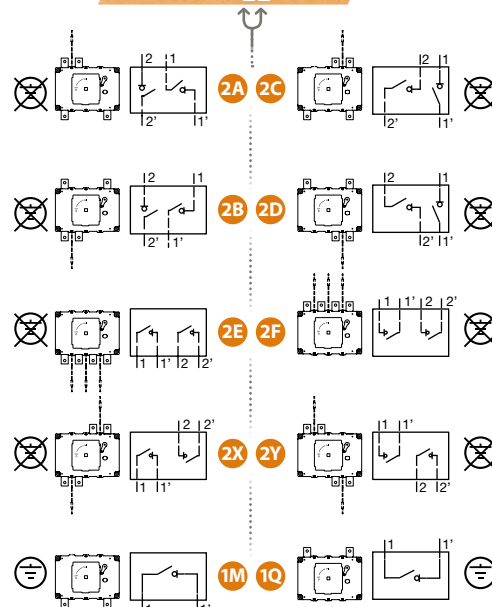
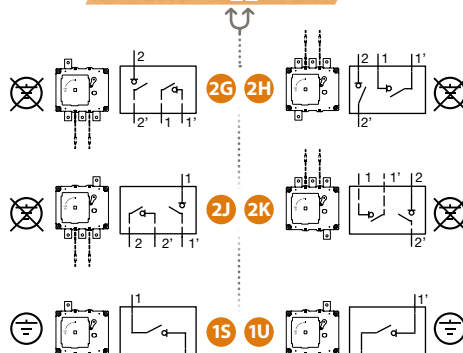
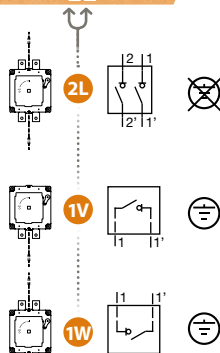
CODE - 750 Vdc

|      |              |
|------|--------------|
| 125A | S6-0125 _ S0 |
| 160A | S6-0160 _ S0 |
| 200A | S6-0200 _ S0 |
| 250A | S6-0250 _ S0 |
| 315A | S6-0315 _ S0 |
| 400A | S6-0400 _ D0 |



CODE - 1000 Vdc

|      |              |
|------|--------------|
| 125A | S6-0125 _ S0 |
| 160A | S6-0160 _ S0 |
| 200A | S6-0200 _ S0 |
| 250A | S6-0250 _ S0 |
| 315A | S6-0315 _ S0 |
| 400A | S6-0400 _ D0 |

DO NOT USE IN  
GROUNDED INSTALLATIONS

### Technical information



tests:



According to IEC 60947-1  
IEC 60947-3

|                                           |      |              |       | 125  | 160  | 200  | 250  | 315  | 400  |     |
|-------------------------------------------|------|--------------|-------|------|------|------|------|------|------|-----|
| Rated thermal current in ambient at       | Ith  | 40° C        | A     | 125  | 160  | 200  | 250  | 315  | 400  |     |
|                                           |      | 50° C        | A     | 125  | 160  | 200  | 250  | 315  | 400  |     |
|                                           |      | 60° C        | A     | 125  | 160  | 200  | 250  | 315  | 400  |     |
| Rated insulation voltage (DC)             | Ui   |              | V     | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |     |
| Rated impulse withstand voltage           | Uimp |              | kV    | 12   | 12   | 12   | 12   | 12   | 12   |     |
| Rated operational current <sup>*(1)</sup> | Ie   | Code 500Vdc  | DC21B | A    | 125  | 160  | 200  | 250  | 315  | 400 |
|                                           |      | Code 750Vdc  |       | A    | 125  | 160  | 200  | 250  | 315  | 400 |
|                                           |      | Code 1000Vdc |       | A    | 125  | 160  | 200  | 250  | 315  | 400 |

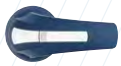
|                                                                                               |                           |           | 125  | 160  | 200  | 250  | 315  | 400  |
|-----------------------------------------------------------------------------------------------|---------------------------|-----------|------|------|------|------|------|------|
| <b>Short - circuit behaviour</b>                                                              |                           |           |      |      |      |      |      |      |
| Rated short-circuit making capacity <sup>*(2)</sup>                                           | Icm                       | kA (peak) | 10   | 10   | 10   | 10   | 10   | 10   |
| Rated short-time withstand current (1sec)                                                     | Icw                       | kA rms    | 10   | 10   | 10   | 10   | 10   | 10   |
| <b>Mechanical features</b>                                                                    |                           |           |      |      |      |      |      |      |
| Number of mechanical operations (according to the standards, for other values please consult) | Cycles                    |           | 8000 | 8000 | 8000 | 8000 | 8000 | 5000 |
| Maximum weight                                                                                | Consult according to code |           |      |      |      |      |      |      |

<sup>\*(1)</sup> Other voltages and / or utilization categories. Please consult

<sup>\*(2)</sup> Without limiting protective device (short-circuit maintained 50... 100 ms.)



## Accessories



### » Direct handle

CODE DS-SI11



### » External handle included shaft <sup>\*(e1)</sup>

IP65

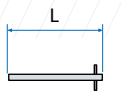
CODE DS-SA11



### » External handle without shaft

IP65

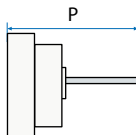
CODE DS-SA14



### » Shafts

Standard shaft included <sup>\*(e1)</sup>

L (mm) 227 P (mm) 103... 256



### » Shaft extensions

Type 1  
L (mm) 375 P (mm) 103... 415 CODE DS-EP14

Type 2  
L (mm) 536 P (mm) 103... 576 CODE DS-EP15



### » Auxiliary contacts

1NO+1NC CODE D5LAU01  
2NO+2NC CODE D5LAU02

I<sub>e</sub> = 16 A (resistive loads)

4 A (inductive loads) at 250 Vac.



### » Terminal shrouds

CODE DR-CU11 (1 unit)

CODE DR-CU12 (1 unit)

CODE DR-CU13 (1 unit)



### » Phase barriers

CODE DR-SF11 (1 unit)

CODE DR-SF12 (2 units)

CODE DR-SF13 (3 units)



### » Spacers

CODE DR-EL11 (4 units)



### » Safety key lock device

Simple CODE DS-CA11

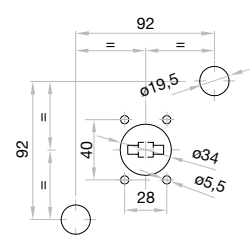
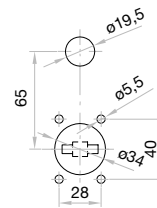
Double CODE DS-CE11

For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Door drilling for handle and key lock device

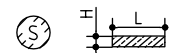
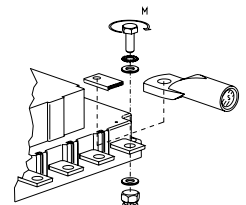
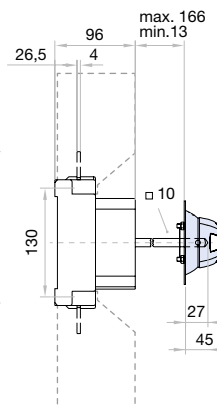
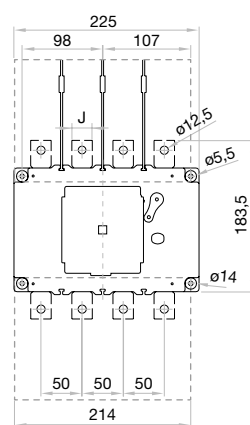
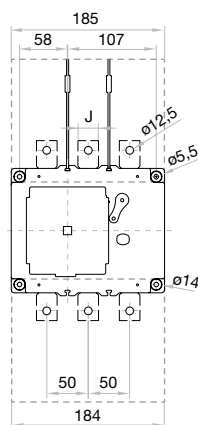
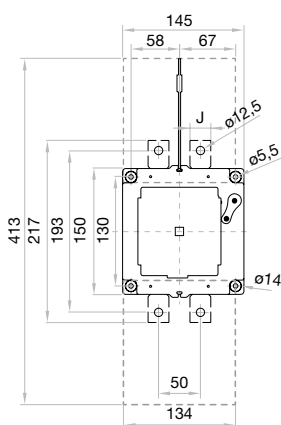
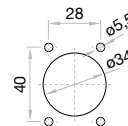
Simple

Double



## Dimensions (mm)

Door drilling for external handle



|       | S max<br>(Cu)<br>mm <sup>2</sup> | H max<br>(Cu)<br>mm | L max<br>(Cu)<br>mm | T   | M  |
|-------|----------------------------------|---------------------|---------------------|-----|----|
|       |                                  |                     |                     | Nxm |    |
| 125 A | 185                              | 8                   | 25                  | M12 | 24 |
| 160 A | 185                              | 8                   | 25                  | M12 | 24 |
| 200 A | 185                              | 8                   | 25                  | M12 | 24 |
| 250 A | 185                              | 8                   | 25                  | M12 | 24 |
| 315 A | 185                              | 8                   | 25                  | M12 | 24 |
| 400 A | 240 <sup>*(t1)</sup>             | 8                   | 30                  | M12 | 24 |

<sup>\*(t1)</sup> Using phase barriers DR-SF\_\_ to maintain the required clearance.

# S6 DC UL

## Switch - disconnecter for DC current 1P - 2P

Size 1

A

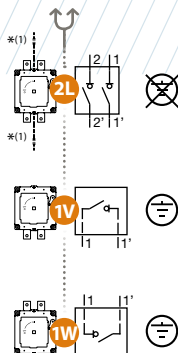
250



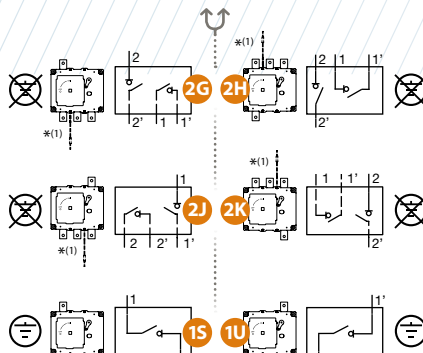
500 - 750 - 1000 Vdc



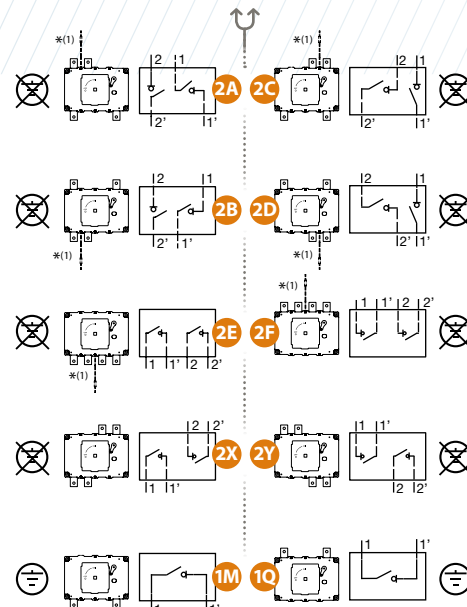
250A CODE-500 Vdc **S6-0250 S00L**



250A CODE-750 Vdc **S6-0250 S00L**



250A CODE-1000 Vdc **S6-0250 S00L**



**DO NOT USE IN  
GROUNDED INSTALLATIONS**

### Technical information



tests:

**AIT**  
AUSTRIAN INSTITUTE  
OF TECHNOLOGY  
TOMORROW TODAY

According to UL98B

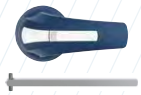
|                                   |                 |                |                           |     |
|-----------------------------------|-----------------|----------------|---------------------------|-----|
| LISTED<br>E333311                 |                 |                | 250                       |     |
| Rated thermal current             | I <sub>th</sub> | -20°C to +50°C | A                         | 250 |
| Rated operational<br>current      | I <sub>e</sub>  | Code 500Vdc    | A                         | 250 |
|                                   |                 | Code 750Vdc    | A                         | 250 |
|                                   |                 | Code 1000Vdc   | A                         | 250 |
| Rated short-circuit<br>current    | I <sub>cc</sub> |                | kA                        | 10  |
| Maximum weight                    |                 |                | Consult according to code |     |
| Wiring capacity                   |                 |                |                           |     |
| Minimum connection wire range/AWG |                 |                | MCM                       | 400 |
| Maximum connection wire range/AWG |                 |                | MCM                       | 400 |

### 250 A

Conforms to UL98B. Minus 20 to +50°C. PV disconnects switch. Location Category B 1000Vdc 250 A Torque: 159 lbf-in. Short circuit rating: 10 kA

Suitable for Use in PV Systems in accordance with Article 690 of the NEC IEC-60947-3 Uimp 12 kV DC21B-1000Vdc-250 A Ui 1500Vdc Ith 250 A

## Accessories



» **External handle** included shaft <sup>\*(e1)</sup>  
**IP65**  
 CODE DS-SA11



» **Terminal shrouds**  
 CODE DR-CU11 (1 unit)  
 CODE DR-CU12 (1 unit)  
 CODE DR-CU13 (1 unit)



» **External handle** without shaft  
**IP65**  
 CODE DS-SA14



» **Phase barriers**  
 CODE DR-SF11 (1 unit)  
 CODE DR-SF12 (2 units)  
 CODE DR-SF13 (3 units)

» **Shafts**

**Standard shaft** included <sup>\*(e1)</sup>

| L (mm) | P (mm)     |
|--------|------------|
| 227    | 103... 256 |

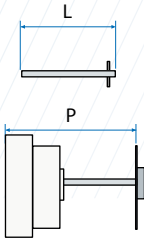
**Shaft extensions**

**Type 1**

| L (mm) | P (mm)     | CODE    |
|--------|------------|---------|
| 375    | 103... 415 | DS-EP14 |

**Type 2**

| L (mm) | P (mm)     | CODE    |
|--------|------------|---------|
| 536    | 103... 576 | DS-EP15 |

» **Spacers**

CODE DR-EL11 (4 units)

» **Auxiliary contacts**

**1NO+1NC** CODE D5LAU01  
**2NO+2NC** CODE D5LAU02

I<sub>e</sub> = 16 A (resistive loads)  
 4 A (inductive loads) at 250 Vac.

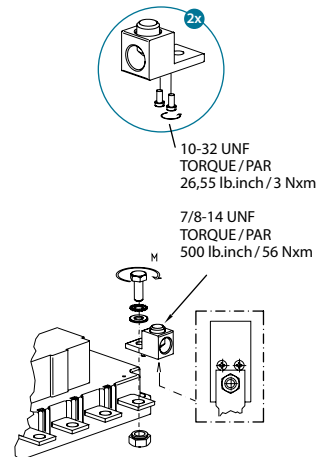
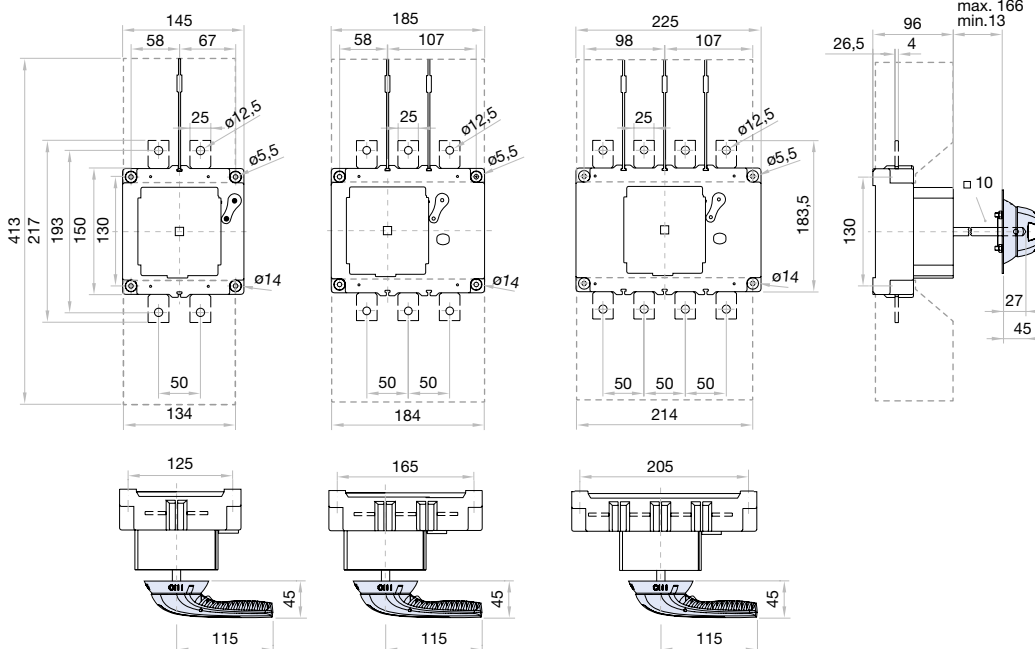
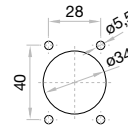
» **Terminal lug**

CODE DR-TL11 (2 units)

\* <sup>(1)</sup> With Terminal lug use phase barriers DR-SF\_ \_ to maintain the required clearance. Mandatory in these models

## Dimensions (mm)

Door drilling for external handle



| 3/0<br>85 mm <sup>2</sup><br>min<br>-<br>400 kcmil<br>240 mm <sup>2</sup><br>max | Temperature<br>rating | Copper wire<br>only<br>M<br>+5%<br>-10% | Nxm lb.inch |
|----------------------------------------------------------------------------------|-----------------------|-----------------------------------------|-------------|
|                                                                                  | 75 °C                 | M10                                     | 18 159      |



# S6 DC

## Switch - disconnecter

### for DC current 1P - 2P

Size 2

A 500|630



500 - 750 - 1000 Vdc



CODE-500 Vdc

500A S6-0500 \_\_ S0  
630A S6-0630 \_\_ S0



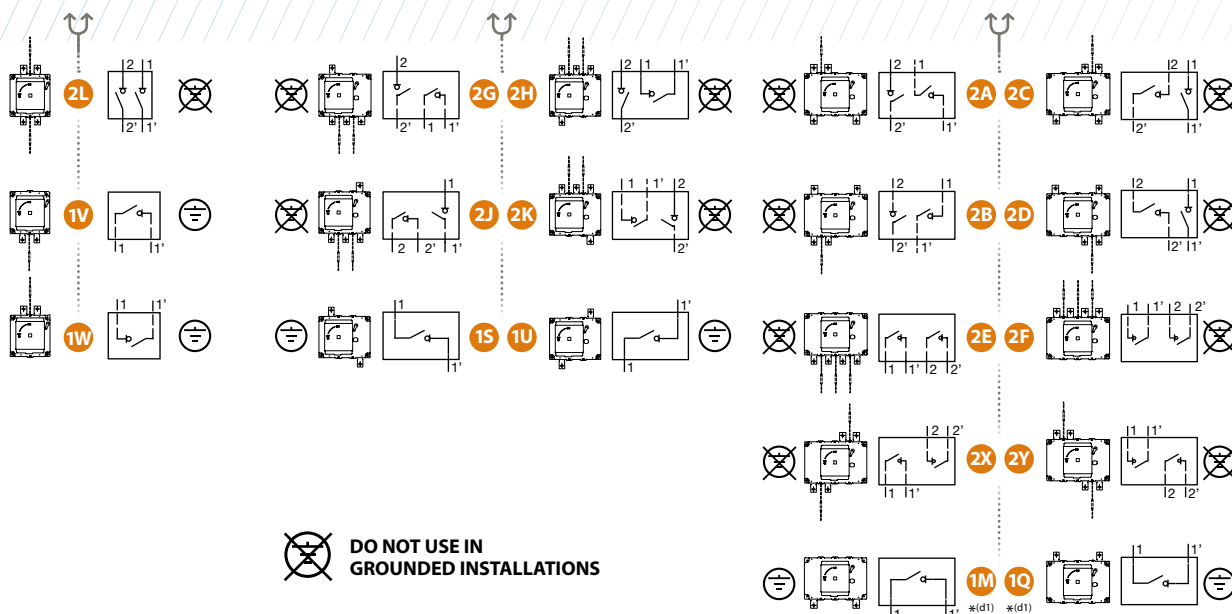
CODE-750 Vdc

500A S6-0500 \_\_ S0  
630A S6-0630 \_\_ S0



CODE-1000 Vdc

500A S6-0500 \_\_ S0  
630A S6-0630 \_\_ S0



DO NOT USE IN  
GROUNDED INSTALLATIONS

\*(d1) Only for 500 A.

### Technical information



tests:



According to IEC 60947-1  
IEC 60947-3

|                                           |      |              | 500    | 630  |
|-------------------------------------------|------|--------------|--------|------|
| Rated thermal current in ambient at       | Ith  | 40° C        | A 500  | 630  |
|                                           |      | 50° C        | A 500  | 630  |
|                                           |      | 60° C        | A 500  | 630  |
| Rated insulation voltage (DC)             | Ui   |              | V 1500 | 1500 |
| Rated impulse withstand voltage           | Uimp |              | kV 12  | 12   |
| Rated operational current <sup>*(1)</sup> | Ie   | Code 500Vdc  | A 500  | 630  |
|                                           |      | Code 750Vdc  | A 500  | 630  |
|                                           |      | Code 1000Vdc | A 500  | 630  |

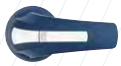
DC21B

|                                                                                               |        |           | 500                       | 630  |
|-----------------------------------------------------------------------------------------------|--------|-----------|---------------------------|------|
| <b>Short - circuit behaviour</b>                                                              |        |           |                           |      |
| Rated short-circuit making capacity <sup>*(2)</sup>                                           | Icm    | kA (peak) | 10                        | 10   |
| Rated short-time withstand current (1 sec)                                                    | Icw    | kA rms    | 10                        | 10   |
| <b>Mechanical features</b>                                                                    |        |           |                           |      |
| Number of mechanical operations (according to the standards, for other values please consult) | Cycles |           | 5000                      | 5000 |
| Maximum weight                                                                                |        |           | Consult according to code |      |

\*(1) Other voltages and / or utilization categories. Please consult

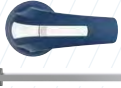
\*(2) Without limiting protective device (short-circuit maintained 50... 100 ms.)

## Accessories



## » Direct handle

CODE DS-LI21

» External handle included shaft <sup>\*(e1)</sup>

IP65

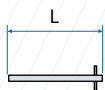
CODE DS-LA21



## » External handle without shaft

IP65

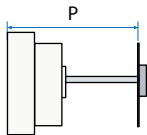
CODE DS-LA24



## » Shafts

Standard shaft included <sup>\*(e1)</sup>

| L (mm) | P (mm)     |
|--------|------------|
| 195    | 134... 240 |



## Shaft extensions

Type 1

| L (mm) | P (mm)     | CODE    |
|--------|------------|---------|
| 345    | 134... 400 | DS-EP23 |

Type 2

| L (mm) | P (mm)     | CODE    |
|--------|------------|---------|
| 535    | 134... 560 | DS-EP24 |



## » Auxiliary contacts

1NO+1NC CODE D5LAU01

2NO+2NC CODE D5LAU02

I<sub>e</sub> = 16 A (resistive loads)

4 A (inductive loads) at 250 Vac.



## » Terminal shrouds

CODE DR-CU21 (1 unit)

CODE DR-CU22 (1 unit)

CODE DR-CU23 (1 unit)



## » Phase barriers

CODE DR-SF21 (1 unit)

CODE DR-SF22 (2 units)

CODE DR-SF23 (3 units)



## » Spacers

CODE DR-EL21 (4 units)



## » Safety key lock device

Simple CODE DS-CB21

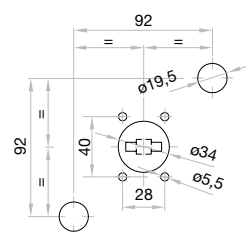
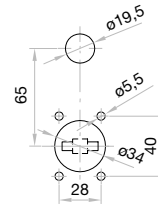
Double CODE DS-CF21

(Using phase barriers DR-SF\_ to maintain the required clearance)

Door drilling for handle and key lock device

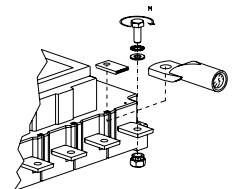
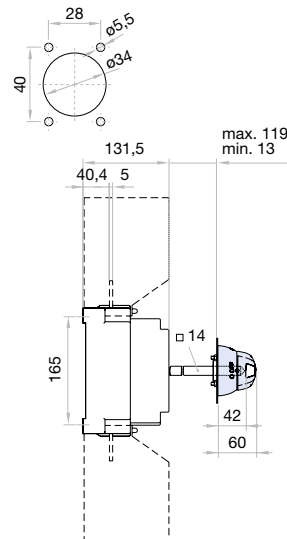
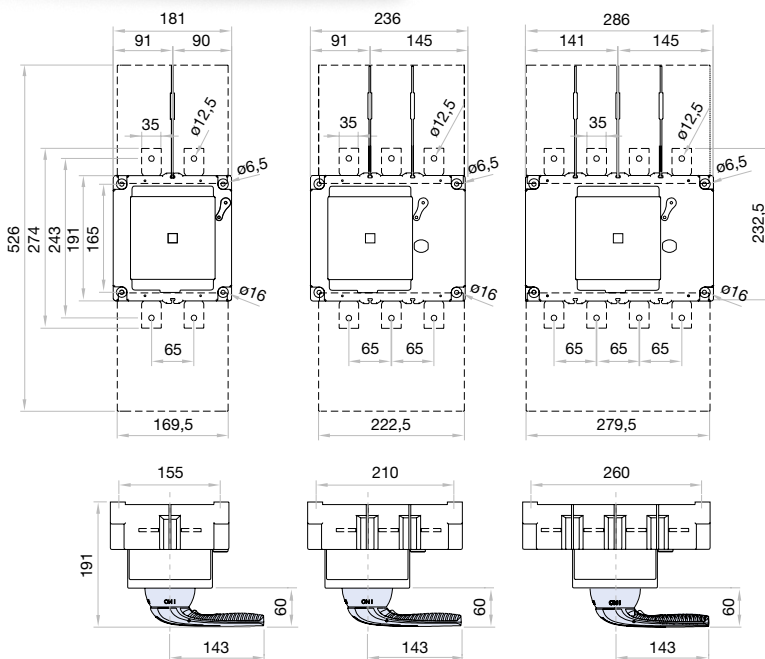
Simple

Double



## Dimensions (mm)

Door drilling for external handle



|       | S max<br>(Cu)<br>mm <sup>2</sup> | H max<br>(Cu)<br>mm | L max<br>(Cu)<br>mm | T   | M  |
|-------|----------------------------------|---------------------|---------------------|-----|----|
| 500 A | 2x150                            | 2x5                 | 35                  | M12 | 24 |
| 630 A | 2x185                            | 2x6                 | 35                  | M12 | 24 |

# S6 DC UL

## Switch - disconnecter for DC current 1P - 2P

Size 2

A

400

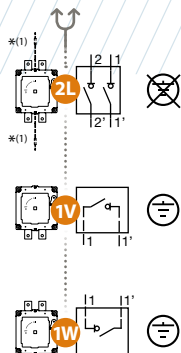


500 - 750 - 1000 Vdc



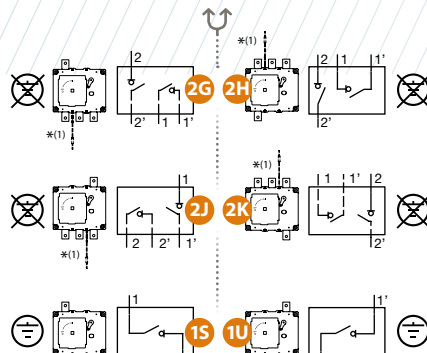
CODE-500 Vdc **S6-0400 S00L**

400A



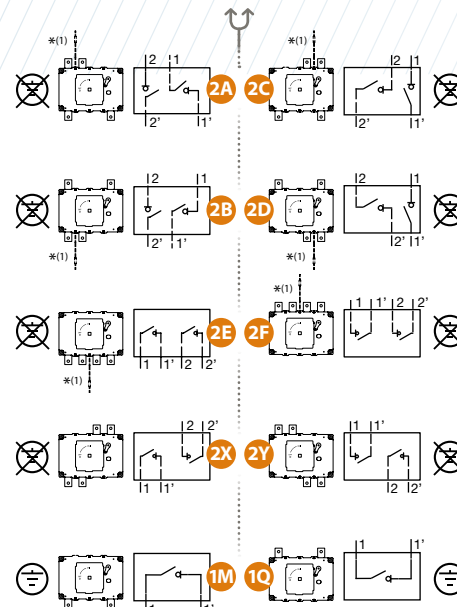
CODE-750 Vdc **S6-0400 S00L**

400A



CODE-1000 Vdc **S6-0400 S00L**

400A



**DO NOT USE IN  
GROUNDED INSTALLATIONS**

### Technical information



tests:



According to UL98 B

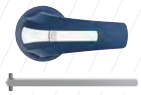
|                                   |                           |                |     |
|-----------------------------------|---------------------------|----------------|-----|
| LISTED<br>E333311                 |                           |                | 400 |
| Rated thermal current             | I <sub>th</sub>           | -20°C to +50°C | A   |
| Rated operational<br>current      | I <sub>e</sub>            | Code 500Vdc    | A   |
|                                   |                           | Code 750Vdc    | A   |
|                                   |                           | Code 1000Vdc   | A   |
| Rated short-circuit<br>current    | I <sub>cc</sub>           | kA             | 10  |
| Maximum weight                    | Consult according to code |                |     |
| Wiring capacity                   |                           |                |     |
| Minimum connection wire range/AWG |                           |                | MCM |
| Maximum connection wire range/AWG |                           |                | MCM |

#### 400 A

Conforms to UL98B. Minus 20 to +50°C. PV disconnects switch. Location Category B 1000 Vdc 400 A Torque: 212 lbf-in. Short circuit rating: 10 kA

Suitable for Use in PV Systems in accordance with Article 690 of the NEC IEC-60947-3 Uimp 12 kV DC21B - 1000 Vdc - 400 A Ui 1500 Vdc Ith 400 A

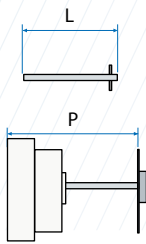
## Accessories



» **External handle** included shaft <sup>\*(e1)</sup>  
**IP65**  
 CODE DS-LA21



» **External handle** without shaft  
**IP65**  
 CODE DS-LA24

» **Shafts**

**Standard shaft** included <sup>\*(e1)</sup>  
 L (mm) P (mm)  
 195 134... 240

» **Shaft extensions**

**Type 1**  
 L (mm) P (mm) CODE  
 345 134... 400 DS-EP23

**Type 2**  
 L (mm) P (mm) CODE  
 535 134... 560 DS-EP24

» **Terminal shrouds**

CODE DR-CU21 (1 unit)  
 CODE DR-CU22 (1 unit)  
 CODE DR-CU23 (1 unit)

» **Phase barriers**

CODE DR-SF21 (1 unit)  
 CODE DR-SF22 (2 units)  
 CODE DR-SF23 (3 units)

» **Spacers**

CODE DR-EL21 (4 units)

» **Terminal lug**

CODE DR-TL22 (2 units)

\* <sup>(1)</sup> With Terminal lug use phase barriers DR-SF\_\_ to maintain the required clearance. Mandatory in these models

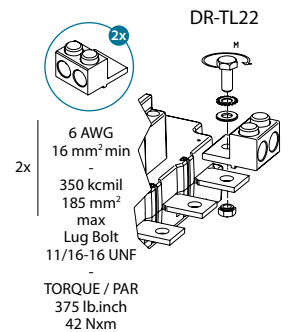
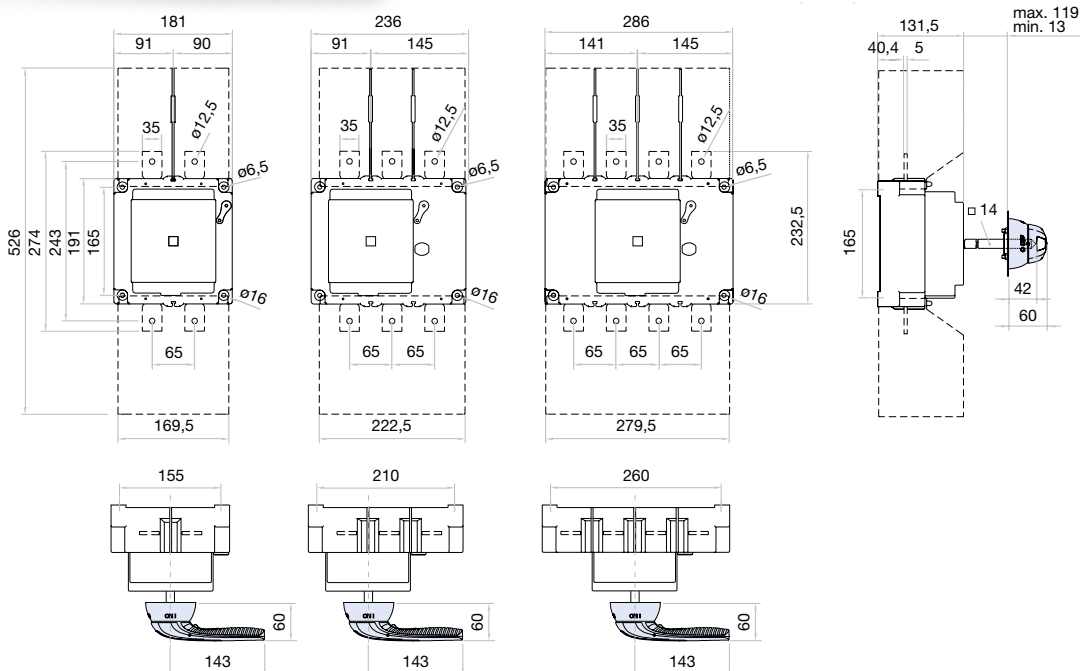
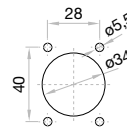
» **Auxiliary contacts**

1NO+1NC CODE D5LAU01  
 2NO+2NC CODE D5LAU02

I<sub>e</sub> = 16 A (resistive loads)  
 4 A (inductive loads) at 250 Vac.

## Dimensions (mm)

Door drilling for external handle



| Temperature rating |     | Copper wire only<br>M <sub>1</sub> <sup>+5%</sup> <sub>-10%</sub> |     |
|--------------------|-----|-------------------------------------------------------------------|-----|
| 75 °C              | M10 | 24                                                                | 212 |
|                    |     | Nxm lb.inch                                                       |     |



# S6N DC

## Switch - disconnecter

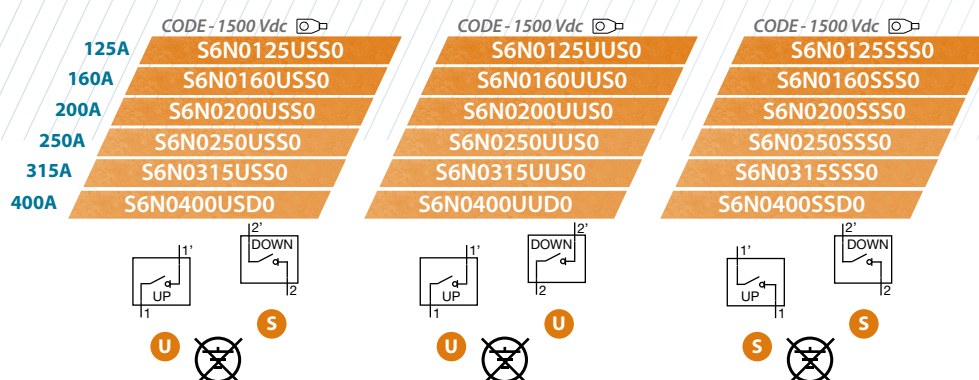
### for DC current 2P

Size 1

A 125|160|200|250|315|400



1500Vdc



### Technical information



DO NOT USE IN GROUNDING INSTALLATIONS

According to IEC 60947-1  
IEC 60947-3

|                                                       |      |         |      | 125  | 160  | 200  | 250  | 315  | 400 |
|-------------------------------------------------------|------|---------|------|------|------|------|------|------|-----|
| Rated thermal current<br>in ambient at                | Ith  | 40°C    | A    | 125  | 160  | 200  | 250  | 315  | 400 |
|                                                       |      | 50°C    |      | 125  | 160  | 200  | 250  | 315  | 400 |
|                                                       |      | 60°C    |      | 125  | 160  | 200  | 250  | 315  | 360 |
|                                                       |      | 70°C    |      | 125  | 160  | 200  | 250  | 315  | 315 |
| Rated insulation voltage<br>(DC)                      | Ui   | V       | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |     |
| Rated impulse<br>withstand voltage                    | Uimp | kV      | 12   | 12   | 12   | 12   | 12   | 12   |     |
| Rated operational<br>current <sup>*(1)</sup><br>DC21B | Ie   | Ue      |      |      |      |      |      |      |     |
|                                                       |      | 1500Vdc | A    | 125  | 160  | 200  | 250  | 315  | 400 |

### Short - circuit behaviour

|                                                     |     |           |    |
|-----------------------------------------------------|-----|-----------|----|
| Rated short-circuit making capacity <sup>*(2)</sup> | Icm | kA (peak) | 10 |
| Rated short-time withstand current (1sec)           | Icw | kA rms    | 10 |

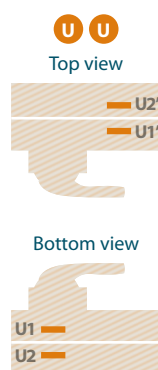
### Mechanical features

|                                                                                               |        |      |
|-----------------------------------------------------------------------------------------------|--------|------|
| Number of mechanical operations (according to the standards, for other values please consult) | Cycles | 8000 |
| Maximum weight                                                                                | kg     | 4,25 |

<sup>\*(1)</sup> Other voltages and / or utilization categories. Please consult

<sup>\*(2)</sup> Without limiting protective device (short-circuit maintained 50... 100 ms.)

### Terminals location



## Accessories



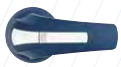
## » Direct handle

CODE DS-SI11

» External handle included shaft<sup>\*(e1)</sup>

IP65

CODE DS-SA11



## » External handle without shaft

IP65

CODE DS-SA14



## » Auxiliary contacts

1NO+1NC CODE D5LAU01

2NO+2NC CODE D5LAU02

I<sub>e</sub> = 16 A (resistive loads)

4 A (inductive loads) at 250 Vac.



## » Shafts

Standard shaft included<sup>\*(e1)</sup>

| L (mm) | P (mm)     |
|--------|------------|
| 227    | 185... 336 |

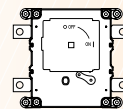
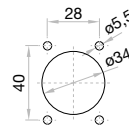
## Shaft extensions

| Type 1 |              | CODE    |
|--------|--------------|---------|
| L (mm) | P (mm)       |         |
| 375    | 185... 497,5 | DS-EP14 |

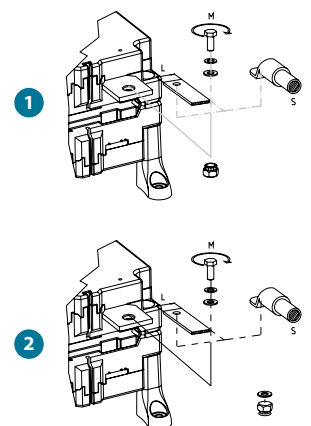
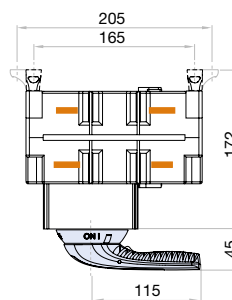
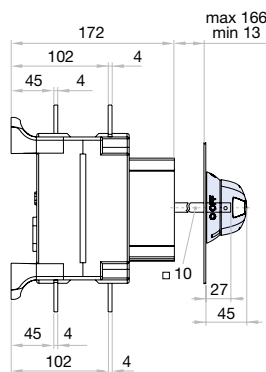
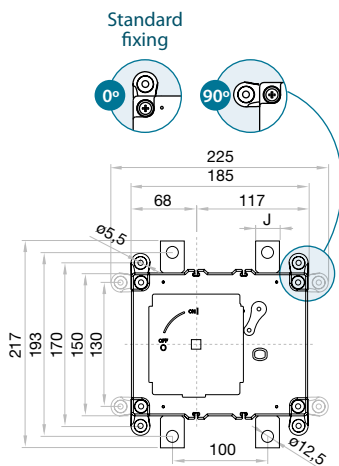
| Type 2 |            | CODE    |
|--------|------------|---------|
| L (mm) | P (mm)     |         |
| 536    | 185... 647 | DS-EP15 |

## Dimensions (mm)

Door drilling for external handle



For rotated mounting there are **S6N** references with front plate rotated (supply under request).



|       |          | S max<br>(Cu)<br>mm <sup>2</sup> | H max<br>(Cu)<br>mm | L max<br>(Cu)<br>mm | T   | M   |
|-------|----------|----------------------------------|---------------------|---------------------|-----|-----|
|       |          |                                  |                     |                     |     | Nxm |
|       | <b>J</b> |                                  |                     |                     |     |     |
| 125 A | 25       | 185                              | 8                   | 25                  | M10 | 18  |
| 315 A |          | 185                              | 8                   | 25                  | M10 | 18  |
| 400 A | 30       | 185                              | 8                   | 25                  | M10 | 18  |
|       |          | 240                              | 8                   | 30                  | M10 | 18  |

# S6N DC

## Switch - disconnecter for DC current 2P

Size 1

A 125|160|200|250|315|400



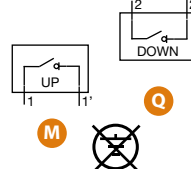
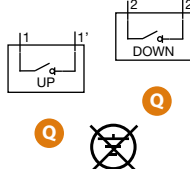
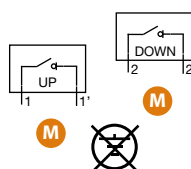
1500Vdc



|      |                 |  |
|------|-----------------|--|
|      | CODE - 1500 Vdc |  |
| 125A | S6N0125MMS0     |  |
| 160A | S6N0160MMS0     |  |
| 200A | S6N0200MMS0     |  |
| 250A | S6N0250MMS0     |  |
| 315A | S6N0315MMS0     |  |
| 400A | S6N0400MMD0     |  |

|  |                 |  |
|--|-----------------|--|
|  | CODE - 1500 Vdc |  |
|  | S6N0125QQS0     |  |
|  | S6N0160QQS0     |  |
|  | S6N0200QQS0     |  |
|  | S6N0250QQS0     |  |
|  | S6N0315QQS0     |  |
|  | S6N0400QQD0     |  |

|  |                 |  |
|--|-----------------|--|
|  | CODE - 1500 Vdc |  |
|  | S6N0125MQS0     |  |
|  | S6N0160MQS0     |  |
|  | S6N0200MQS0     |  |
|  | S6N0250MQS0     |  |
|  | S6N0315MQS0     |  |
|  | S6N0400MQD0     |  |



### Technical information



tests:  
**AIT**  
AUSTRIAN INSTITUTE  
OF TECHNOLOGY  
TOMORROW TODAY

According to IEC 60947-1  
IEC 60947-3



**DO NOT USE IN  
GROUNDED INSTALLATIONS**

|                                                       |      |      |      | 125  | 160  | 200  | 250  | 315  | 400 |
|-------------------------------------------------------|------|------|------|------|------|------|------|------|-----|
| Rated thermal current<br>in ambient at                | Ith  | 40°C | A    | 125  | 160  | 200  | 250  | 315  | 400 |
|                                                       |      | 50°C |      | 125  | 160  | 200  | 250  | 315  | 400 |
|                                                       |      | 60°C |      | 125  | 160  | 200  | 250  | 315  | 360 |
|                                                       |      | 70°C |      | 125  | 160  | 200  | 250  | 315  | 315 |
| Rated insulation voltage<br>(DC)                      | Ui   | V    | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |     |
| Rated impulse<br>withstand voltage                    | Uimp | kV   | 12   | 12   | 12   | 12   | 12   | 12   |     |
| Rated operational<br>current <sup>*(1)</sup><br>DC21B | Ie   | Ue   |      |      |      |      |      |      |     |
| 1500Vdc                                               |      | A    | 125  | 160  | 200  | 250  | 315  | 400  |     |

#### Short - circuit behaviour

|                                                     |     |           |    |
|-----------------------------------------------------|-----|-----------|----|
| Rated short-circuit making capacity <sup>*(2)</sup> | Icm | kA (peak) | 10 |
| Rated short-time withstand current (1sec)           | Icw | kA rms    | 10 |

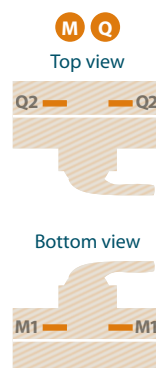
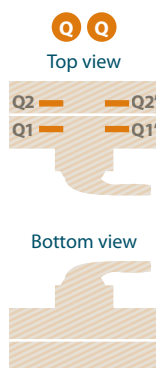
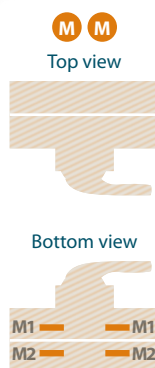
#### Mechanical features

|                                                                                               |        |      |
|-----------------------------------------------------------------------------------------------|--------|------|
| Number of mechanical operations (according to the standards, for other values please consult) | Cycles | 8000 |
| Maximum weight                                                                                | kg     | 4,29 |

<sup>\*(1)</sup> Other voltages and / or utilization categories. Please consult

<sup>\*(2)</sup> Without limiting protective device (short-circuit maintained 50... 100 ms.)

### Terminals location

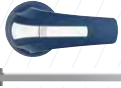


## Accessories



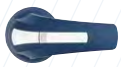
## » Direct handle

CODE DS-SI11

» External handle included shaft <sup>\*(e1)</sup>

IP65

CODE DS-SA11



## » External handle without shaft

IP65

CODE DS-SA14



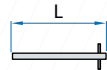
## » Auxiliary contacts

1NO+1NC CODE D5LAU01

2NO+2NC CODE D5LAU02

I<sub>e</sub> = 16 A (resistive loads)

4 A (inductive loads) at 250 Vac.



## » Shafts

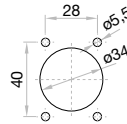
Standard shaft included <sup>\*(e1)</sup>

| L (mm) | P (mm)     |
|--------|------------|
| 227    | 185... 336 |

## Shaft extensions

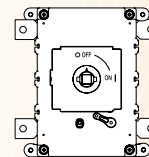
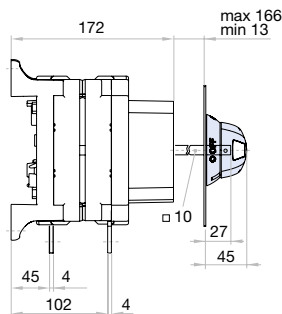
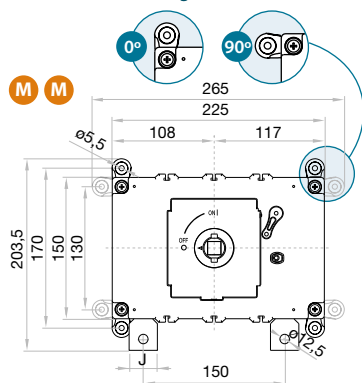
| Type 1 |              | CODE    |
|--------|--------------|---------|
| L (mm) | P (mm)       |         |
| 375    | 185... 497,5 | DS-EP14 |

| Type 2 |            | CODE    |
|--------|------------|---------|
| L (mm) | P (mm)     |         |
| 536    | 185... 647 | DS-EP15 |

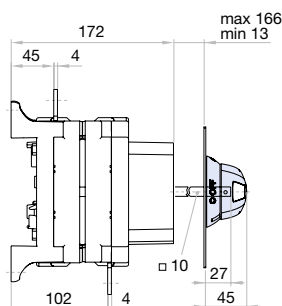
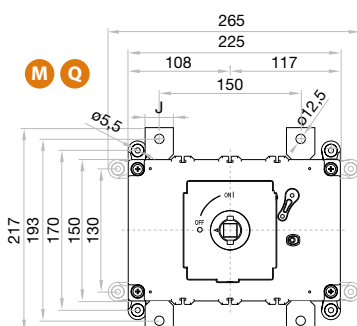
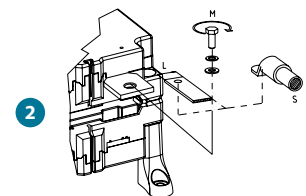
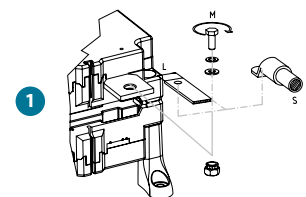
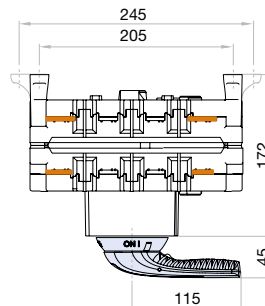
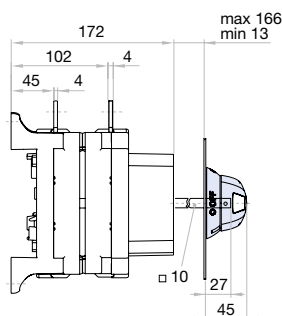
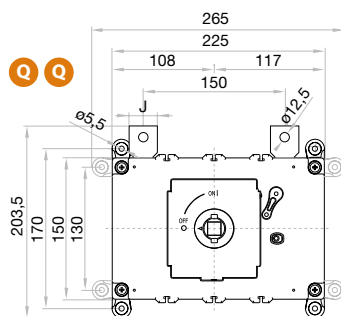


Door drilling for external handle

## Dimensions (mm)

Standard  
fixing

For rotated mounting  
there are **S6N** references  
with front plate rotated  
(supply under request).



|       | S max<br>(Cu)<br>mm <sup>2</sup> | H max<br>(Cu)<br>mm | L max<br>(Cu)<br>mm | T   | M   |
|-------|----------------------------------|---------------------|---------------------|-----|-----|
|       |                                  |                     |                     |     | Nxm |
| 125 A | 185                              | 8                   | 25                  | M10 | 18  |
| 160 A | 185                              | 8                   | 25                  | M10 | 18  |
| 200 A | 185                              | 8                   | 25                  | M10 | 18  |
| 250 A | 185                              | 8                   | 25                  | M10 | 18  |
| 315 A | 185                              | 8                   | 25                  | M10 | 18  |
| 400 A | 240                              | 8                   | 30                  | M10 | 18  |

|       | J  |
|-------|----|
| 125 A | 25 |
| 315 A | 30 |
| 400 A | 30 |



# S6R DC

## Switch - disconnecter

### base mounting 1P - 2P

Size 1

A 160|200|250|315|400

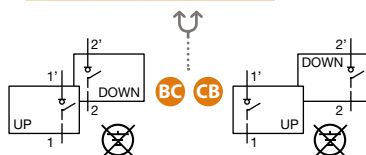


1500Vdc



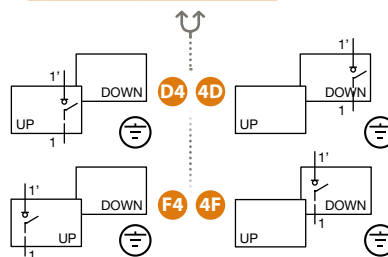
CODE-2P

|       |             |
|-------|-------------|
| 160 A | S6R0160 _S0 |
| 200 A | S6R0200 _S0 |
| 250 A | S6R0250 _S0 |
| 315 A | S6R0315 _S0 |
| 400 A | S6R0400 _D0 |



CODE-1P

|       |             |
|-------|-------------|
| 160 A | S6R0160 _S0 |
| 200 A | S6R0200 _S0 |
| 250 A | S6R0250 _S0 |
| 315 A | S6R0315 _S0 |
| 400 A | S6R0400 _D0 |



### Technical information



According to IEC 60947-1  
IEC 60947-3



**DO NOT USE IN  
GROUNDED INSTALLATIONS**

|                                                     |          |           | 160  | 200  | 250  | 315  | 400  |
|-----------------------------------------------------|----------|-----------|------|------|------|------|------|
| Rated thermal current in ambient at 40°C up to 80°C | Ith      | A         | 160  | 200  | 250  | 315  | 400  |
| Rated insulation voltage (DC)                       | Ui       | V         | 1500 | 1500 | 1500 | 1500 | 1500 |
| Rated impulse withstand voltage                     | Uimp     | kV        | 12   | 12   | 12   | 12   | 12   |
| Rated operational current <sup>*(1)</sup> DC21B     | Ue<br>Ie | 1500Vdc A | 160  | 200  | 250  | 315  | 400  |

<sup>\*(1)</sup> Other voltages and / or utilization categories. Please consult

<sup>\*(2)</sup> Without limiting protective device (short-circuit maintained 50... 100 ms.)

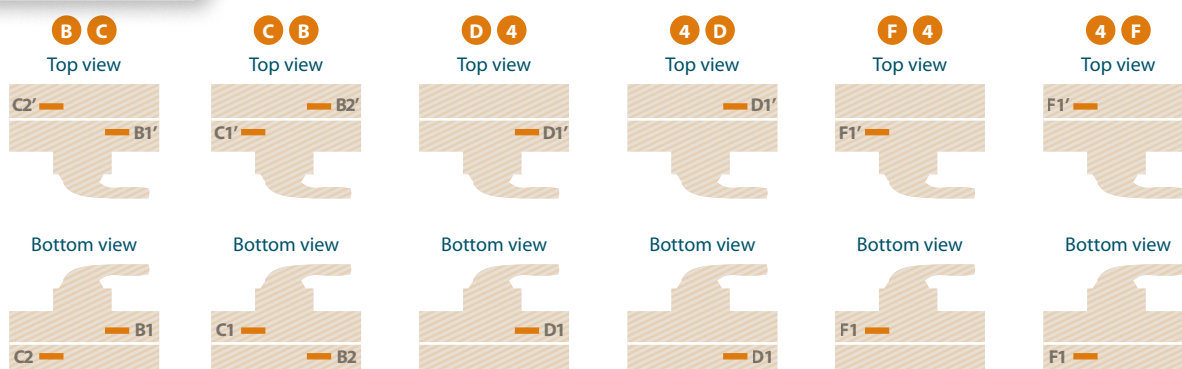
### Short - circuit behaviour

|                                                     |     |           |    |
|-----------------------------------------------------|-----|-----------|----|
| Rated short-circuit making capacity <sup>*(2)</sup> | Icm | kA (peak) | 10 |
| Rated short-time withstand current (1sec)           | Icw | kA rms    | 10 |

### Mechanical features

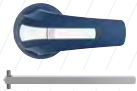
|                                                                                               |        |      |
|-----------------------------------------------------------------------------------------------|--------|------|
| Number of mechanical operations (according to the standards, for other values please consult) | Cycles | 8000 |
|-----------------------------------------------------------------------------------------------|--------|------|

### Terminals location



**Accessories****>> Direct handle**

CODE DS-SI11

**>> External handle** included shaft <sup>\*(e1)</sup>

IP65

CODE DS-SA11

**>> Auxiliary contacts**

1NO+1NC CODE D5LAU01

2NO+2NC CODE D5LAU02

I<sub>e</sub> = 16 A (resistive loads)

4 A (inductive loads) at 250 Vac.

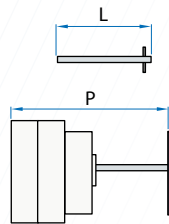
**>> Shafts****Standard shaft** included <sup>\*(e1)</sup>

| L (mm) | P (mm)       |
|--------|--------------|
| 227    | 179... 398,5 |

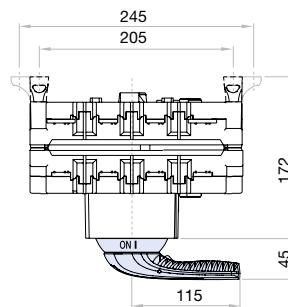
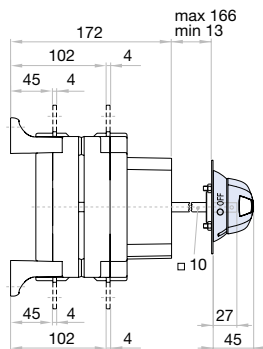
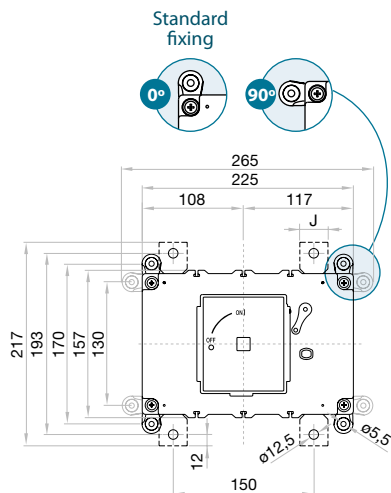
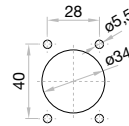
**Shaft extensions**

| Type 1 |              | CODE    |
|--------|--------------|---------|
| L (mm) | P (mm)       |         |
| 375    | 179... 546,5 | DS-EP14 |

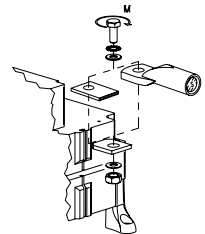
| Type 2 |              | CODE    |
|--------|--------------|---------|
| L (mm) | P (mm)       |         |
| 536    | 179... 707,5 | DS-EP15 |

**Dimensions (mm)**

Door drilling for external handle



For rotated mounting there are **S6R** references with front plate rotated (supply under request).



|       | J  | S max<br>(Cu)<br>mm <sup>2</sup> | H max<br>(Cu)<br>mm | L max<br>(Cu)<br>mm | M   | M <sup>+5%/-10%</sup><br>Nxm |
|-------|----|----------------------------------|---------------------|---------------------|-----|------------------------------|
| 160 A | 25 | 185                              | 8                   | 25                  | M12 | 24                           |
| 200 A | 25 | 185                              | 8                   | 25                  | M12 | 24                           |
| 250 A | 25 | 185                              | 8                   | 25                  | M12 | 24                           |
| 315 A | 25 | 185                              | 8                   | 25                  | M12 | 24                           |
| 400 A | 30 | 240                              | 8                   | 30                  | M12 | 24                           |

# S6R DC UL

## Switch - disconnecter for DC current 1P - 2P

Size 1

A 250|320|400

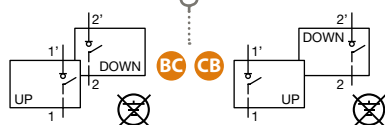


1500Vdc



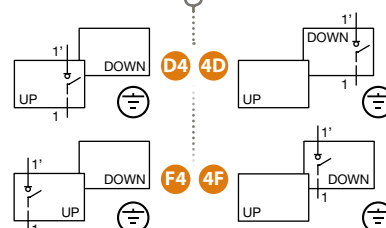
CODE - 2P

250 A S6R0250 \_ S00L  
320 A S6R0320 \_ S00L  
400 A S6R0400 \_ D00L



CODE - 1P

250 A S6R0250 \_ S00L  
320 A S6R0320 \_ S00L  
400 A S6R0400 \_ D00L



### Technical information



tests:

**AIT**  
AUSTRIAN INSTITUTE  
OF TECHNOLOGY  
TOMORROW TODAY

According to UL98 B

| LISTED<br>E333311                             |                               |            | 250        | 320        | 400 |
|-----------------------------------------------|-------------------------------|------------|------------|------------|-----|
| Rated thermal current                         | I <sub>th</sub> -20°C to 50°C | A          | 250        | 320        | 400 |
| Rated operational current                     | I <sub>e</sub> 1500Vdc        | A          | 250        | 320        | 400 |
| Rated short-time withstand current (0,05 sec) | I <sub>cw</sub>               | kA         | 10         | 10         | 10  |
| Maximum weight                                | Consult according to code     |            |            |            |     |
| Wiring capacity                               |                               |            |            |            |     |
| Minimum busbar connection range               | mm <sup>2</sup>               | 2x<br>4x30 | 2x<br>4x32 | 2x<br>4x32 |     |

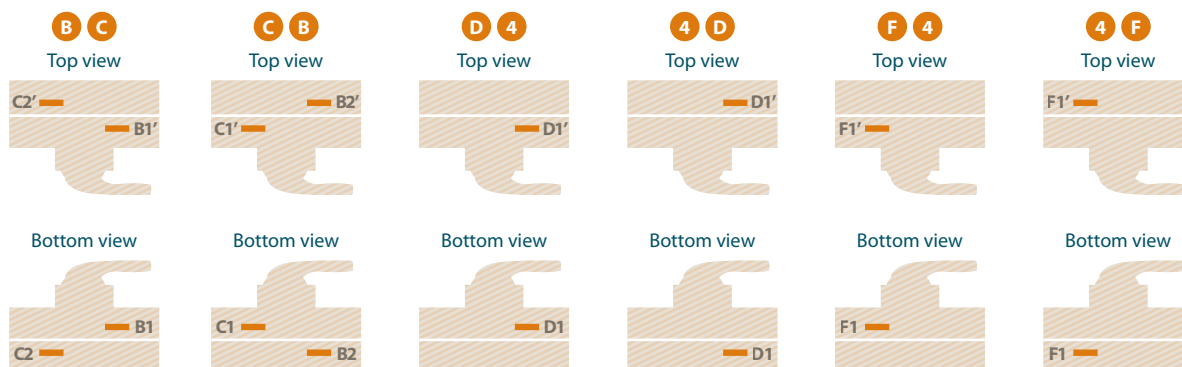


**DO NOT USE IN  
GROUNDED INSTALLATIONS**

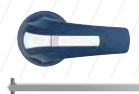
Conforms to UL98B. Minus -20 to 50°C. PV disconnect switch. Location Category B  
Suitable for use in PV Systems in accordance with Article 690 of the NEC

Patent USA  
N.º 9,899,159 B2

### Terminals location



## Accessories



» **External handle** included shaft <sup>\*(e1)</sup>

**IP65**

CODE DS-SA11



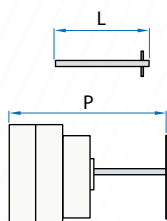
## » Auxiliary contacts

1NO+1NC CODE D5LAU01

2NO+2NC CODE D5LAU02

$I_e = 16 \text{ A}$  (resistive loads)

4 A (inductive loads) at 250 Vac.



## » Shafts

**Standard shaft** included \*(e1)

| L (mm) | P (mm)     |
|--------|------------|
| 227    | 185... 336 |

## Shaft extensions

Type 1

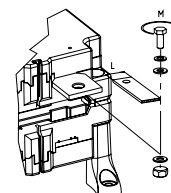
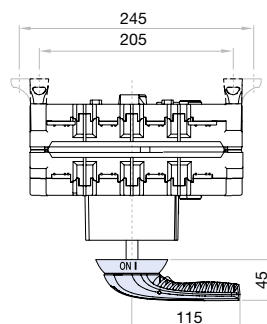
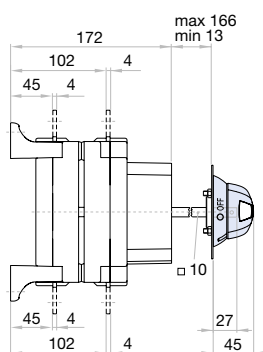
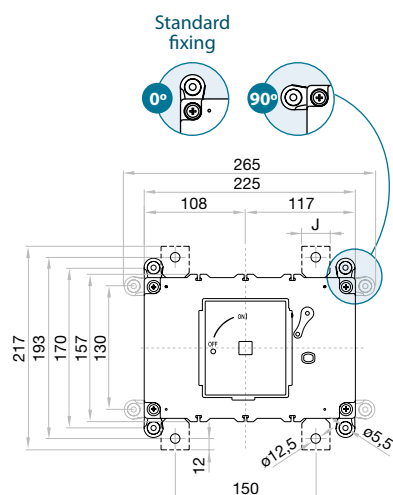
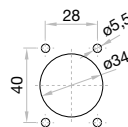
|               |               |         |
|---------------|---------------|---------|
| <i>L</i> (mm) | <i>P</i> (mm) | CODE    |
| 375           | 185... 486    | DS-EP14 |

Type 2

|               |               |         |
|---------------|---------------|---------|
| <i>L</i> (mm) | <i>P</i> (mm) | CODE    |
| 536           | 185... 647    | DS-EP15 |

### Dimensions (mm)

## Door drilling for external handle



|       |    | H max<br>(Cu)                                                                         |            | L max<br>(Cu) |             |  | M   |  |
|-------|----|---------------------------------------------------------------------------------------|------------|---------------|-------------|---------------------------------------------------------------------------------------|-----|--|
|       | J  |  | mm lb.inch | mm lb.inch    | Nxm lb.inch |                                                                                       |     |  |
| 250 A | 25 | 250 A                                                                                 | 4 5/32     | 30 1-3/16     | M12         | 24                                                                                    | 212 |  |
| 320 A |    | 320 A                                                                                 |            |               |             |                                                                                       |     |  |
| 400 A | 30 | 400 A                                                                                 | 4 5/32     | 32 1-1/4      | M12         | 24                                                                                    | 212 |  |