



**telergon**  
gorlan team

**Telergon DC-afbrydere**

AC DC



gorlan  
team

## 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



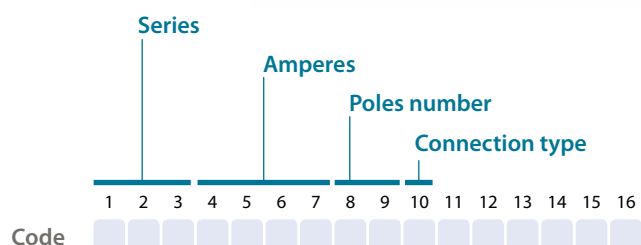
## Relevant characteristics for photovoltaic installations

- >  $U_i$  (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 coding:

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

telergon



According to:

IEC/EN 60947-1 y 3

UL508i

UL98B

RoHS



Testing and approvals:



series  
**ZFV**



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 arrangement.  
Base mounting by screws.  
Non polarized.  
4P+4P 1000Vdc.  
4P+4P 1500Vdc.

series  
**ZFV**



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**



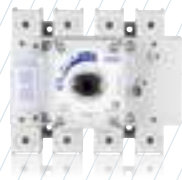
1 2 3 4 5 6  
**S 6 N**

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



# S5000 DC Switch - disconnecter for DC current 4P

	Size 0
A	40
	900 Vdc

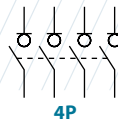


CODE-40A

S5-01604PB0

CODE-40A

S5-01604PS0



## Technical information



According to IEC/EN 60947-1  
IEC/EN 60947-3

		40	
Rated thermal current in ambient at	I <sub>th</sub> 40° C	A	40
	50° C	A	40
	60° C	A	40
Rated insulation voltage DC20	U <sub>i</sub>	V	1000
Rated dielectric strength	50 Hz., 1 min.	V	4000
Rated impulse withstand voltage	U <sub>imp</sub>	kV	8
Rated operational current <sup>*(1)</sup> DC21B	U <sub>e</sub>		
	900 Vdc	A	40

### Short - circuit behaviour

Short - circuit making capacity <sup>*(2)</sup>	I <sub>cm</sub> kA (peak)	13
Maximum power dissipation	A <sup>2</sup> s (x 10 <sup>3</sup> )	198
Minimum number of mechanical operations <sup>*(3)</sup>	Cycles	30000
Minimum number of electrical operations	DC21B	Cycles
	900V	300
Maximum weight (without jumpers)	Kg	1

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

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

<sup>\*(3)</sup> Please consult us for more operations

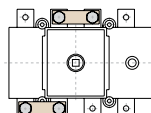
## Connection diagram

### Connection diagram

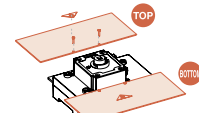
A



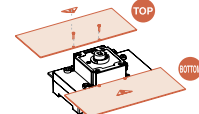
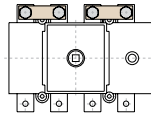
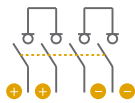
### Bridging links



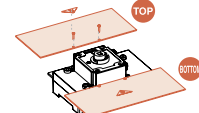
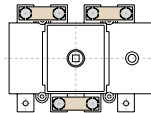
### Terminal protection



B



C

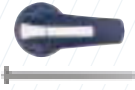


Accessories



» 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

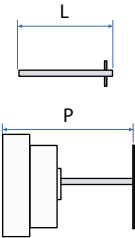
Standard shaft included <sup>\*(e1)</sup>

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



» 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-CU01  
(1 unit for input or output)



» Bridging links (2 units)

- A B CODE DS-PI05
- CODE DS-PI01
- C CONSULT

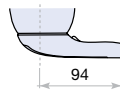
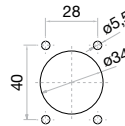


» DIN rail mounting

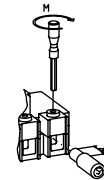
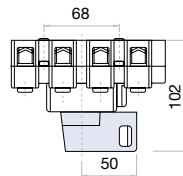
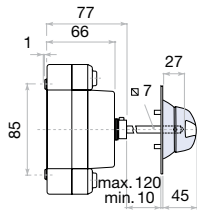
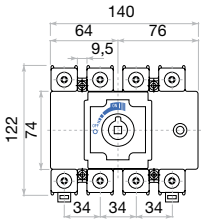
CODE DS-DN01  
(1 kit )

Dimensions (mm)

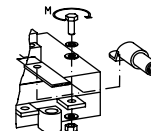
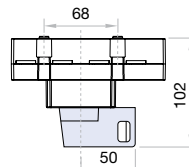
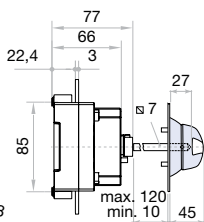
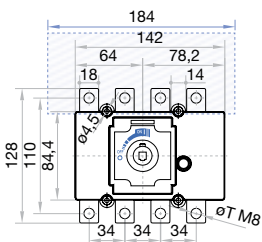
Door drilling for external handle



For handle



S max (Cu)	M
mm <sup>2</sup>	Nxm
95	4



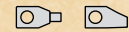
S max (Cu)	H max (Cu)	L max (Cu)	T	M
mm <sup>2</sup>	mm	mm		Nxm
95	5	25	M8	13



# S5000 DC Switch - disconnecter for DC current 4P

Size 1

A 100|160|250|400



1000Vdc



CODE-100A

S5-01254PRO



CODE-160A

S5-02004PRO



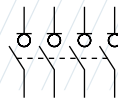
CODE-250A

S5-03154PRO



CODE-400A

S5-04004PCO



4P

## Technical information

According to IEC/EN 60947-1  
IEC/EN 60947-3



consult



consult



consult

tests:



			100	160	250	400	
Rated thermal current 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 voltage DC20	Ui	V	1500	1500	1500	1500	
Rated dielectric strength	50 Hz., 1 min.	V	5000	5000	5000	5000	
Rated impulse withstand voltage	Uimp	kV	8	8	8	8	
Rated operational current <sup>*(1)</sup>	Ie	Ue					
		1000Vdc	A	100	160	250	400

			100	160	250	400
<b>Short - circuit behaviour</b>						
Short - circuit making capacity <sup>*(2)</sup>	Icm	kA (peak)	20	20	20	20
Maximum power dissipation		A <sup>2</sup> s (x 10 <sup>3</sup> )	1000	1000	1000	1000
Minimum number of mechanical operations <sup>*(3)</sup>		Cycles	20000	20000	20000	20000
Minimum number of electrical operations	DC21B 1000V	Cycles	200	200	200	200
Maximum weight (without jumpers)		Kg	1,9	1,9	1,9	1,9

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

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

<sup>\*(3)</sup> Please consult us for more operations

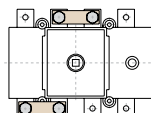
## Connection diagram

### Connection diagram

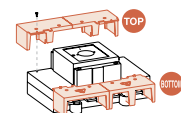
A



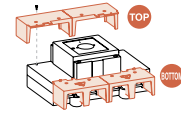
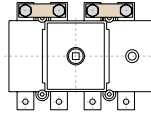
### Bridging links



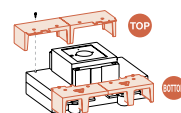
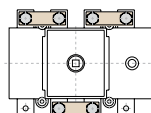
### Terminal shrouds



B



C



Accessories



» Direct handle

CODE DS-SI1



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

IP65 | UL50E/NEMA 250  
Types: 1, 3R, 4, 4X y 12  
CODE DS-SA11



» External handle without shaft

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

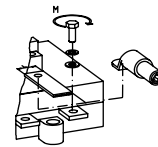
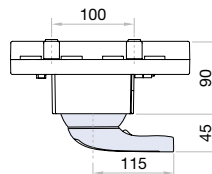
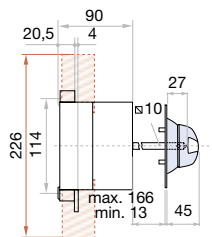
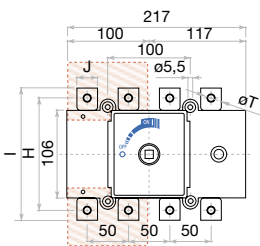
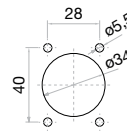


» Bridging links (2 units)

A	B	CODE
		DS-PI11
C	CONSULT	CODE DS-PI14

Dimensions (mm)

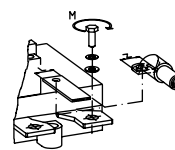
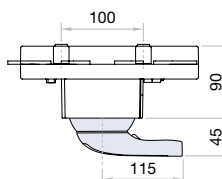
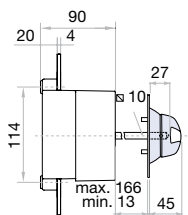
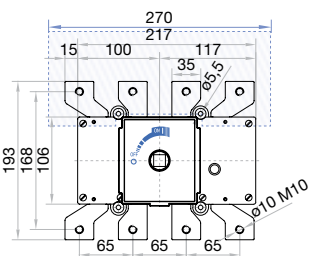
Door drilling for external handle



	H	I	J	ØT
100 A	130	150	20	M8
160 A	143	167	25	M10



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



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

# S5000 DC Switch - disconnecter for DC current 4P - 2P

Size 2

A 500|630



1000Vdc

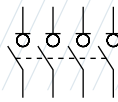


CODE-500A

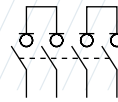
**S5-06304PRO**

CODE-630A

**S5-08004PC0**



4P



2P

## Technical information

According to IEC/EN 60947-1  
IEC/EN 60947-3



consult



consult



consult

tests:



			500	630
Rated thermal current in ambient at	Ith	40° C	A 500	630
		50° C	A 500	630
		60° C	A 400	500
Rated insulation voltage DC20	Ui	V	1500	1500
Rated dielectric strength	50 Hz., 1 min.	V	8000	8000
Rated impulse withstand voltage	Uimp	kV	12	12
Rated operational current <sup>*(1)</sup>	Ie	Ue		
		DC21B 1000 Vdc	A 500	630

			500	630
<b>Short - circuit behaviour</b>				
Short - circuit making capacity <sup>*(2)</sup>	Icm	kA (peak)	26	26
Maximum power dissipation		A <sup>2</sup> s (x 10 <sup>3</sup> )	1600	1600
Minimum number of mechanical operations <sup>*(3)</sup>		Cycles	10000	10000
Minimum number of electrical operations	DC21B 1000V	Cycles	200	200
Maximum weight (without jumpers)		Kg	4,5	4,5

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

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

<sup>\*(3)</sup> Please consult us for more operations

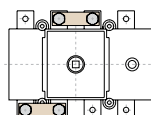
## Connection diagram

### Connection diagram

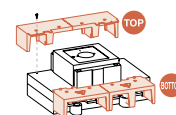
A S5-06304PRO



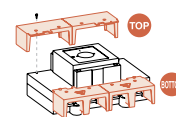
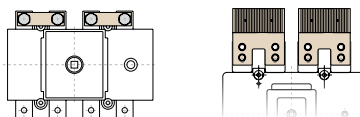
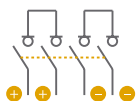
### Bridging links



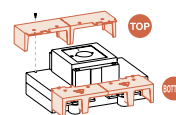
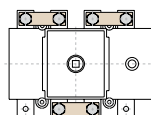
### Terminal shrouds



B S5-06304PRO  
S5-08004PC0



C





Accessories



» Direct handle

CODE DS-LI21



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

IP65 | UL50E/NEMA 250  
Types: 1, 3R, 4, 4X y 12  
CODE DS-LA21



» External handle without shaft

IP65 | UL50E/NEMA 250  
Types: 1, 3R, 4, 4X y 12  
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 for 4P)

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



» Bridging links (2 units)

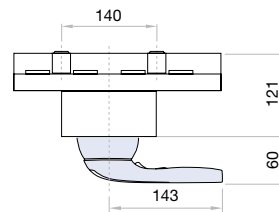
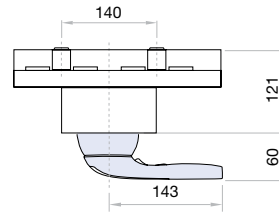
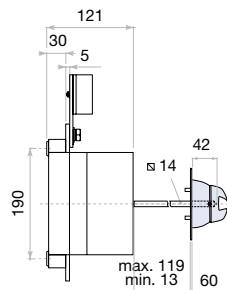
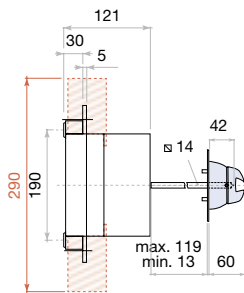
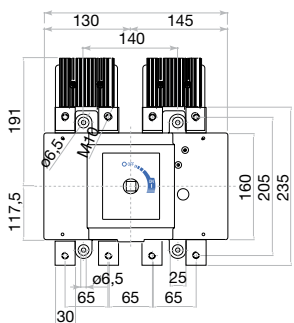
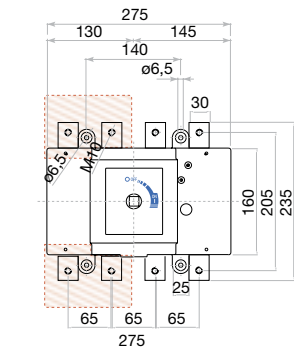
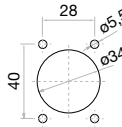
For S5-06304PRO B CODE DS-PI21 (2 units)  
A C CONSULT

\*(P2) For S5-08004PCO B CODE DS-PI2D (2 units)  
A C CONSULT

\*(P2) To meet the operation and electrical features, the product installed must be incorporate these bridging links. Please consult.

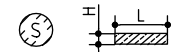
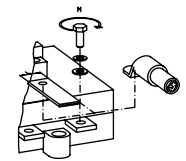
Dimensions (mm)

Door drilling for external handle



500 A

630 A



S max (Cu)	H max (Cu)	L max (Cu)	T	M
mm <sup>2</sup>	mm	mm		Nxm
2x240	2x5	40 50	M10	24

# S5000 DC Switch - disconnecter for DC current 4P - 2P

Size 3

A 850|1250



1000Vdc

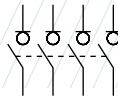


CODE-850A

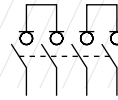
**S5-12504PC0**

CODE-1250A

**S5-12502EC0**



4P



2P

## Technical information

According to IEC/EN 60947-1  
IEC/EN 60947-3



consult



consult



consult

tests:



				850	1250
Rated thermal current in ambient at	I <sub>th</sub>	40° C	A	850	1250
		50° C	A	850	1250
		60° C	A	700	1000
Rated insulation voltage DC20	U <sub>i</sub>	V	1500	1500	
Rated dielectric strength	50 Hz, 1 min.	V	8000	8000	
Rated impulse withstand voltage	U <sub>imp</sub>	kV	12	12	
Rated operational current <sup>*(1)</sup>	I <sub>e</sub>	U <sub>e</sub>			
		1000 Vdc	A	850	1250

				850	1250
<b>Short - circuit behaviour</b>					
Short - circuit making capacity <sup>*(2)</sup>	I <sub>cm</sub>	kA (peak)	60	60	
Maximum power dissipation		A <sup>2</sup> s (x 10 <sup>3</sup> )	4900	4900	
Minimum number of mechanical operations <sup>*(3)</sup>		Cycles	10000	10000	
Minimum number of electrical operations	DC21B 1000V	Cycles	100	100	
Maximum weight (without jumpers)		Kg	7,6	7,6	

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

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

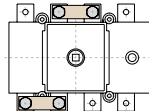
<sup>\*(3)</sup> Please consult us for more operations

## Connection diagram

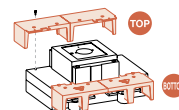
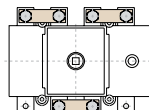
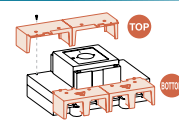
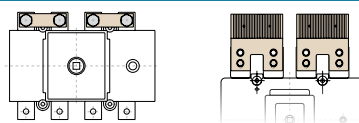
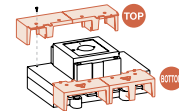
### Connection diagram



### Bridging links



### Terminal shrouds



Accessories



» Direct handle

CODE DS-LI31



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

IP65 | UL50E/NEMA 250  
Types: 1, 3R, 4, 4X y 12  
CODE DS-LA31



» External handle without shaft

IP65 | UL50E/NEMA 250  
Types: 1, 3R, 4, 4X y 12  
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 for 4P)

	<b>A</b>	<b>B</b>	<b>C</b>
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 (2 units)

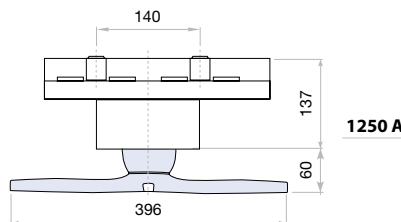
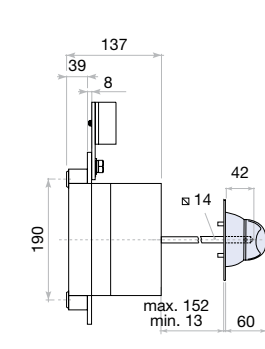
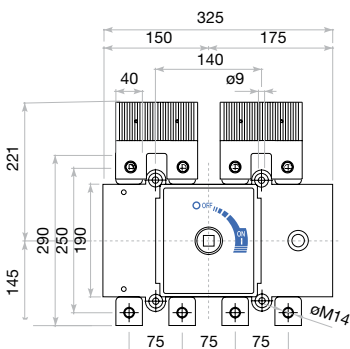
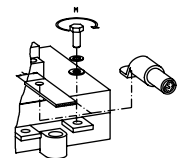
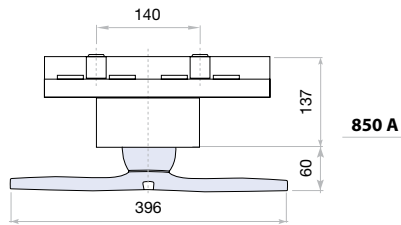
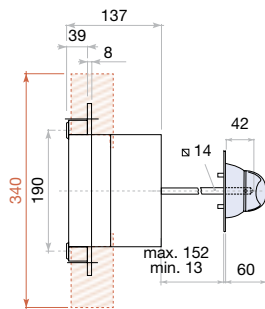
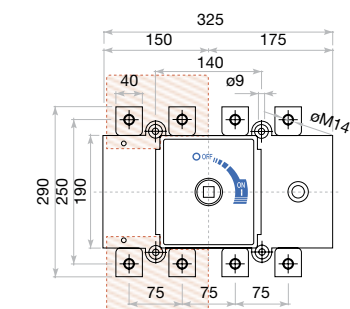
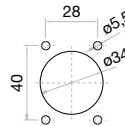
For S5-12504PCO **A B** CODE DS-PI31 (2 units)  
**C** CONSULT

<sup>\*(P2)</sup> For S5-12502ECO **B** CODE DS-PI3D (2 units)  
**A C** CONSULT

<sup>\*(P2)</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



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

# S5000 DC Switch - disconnecter for DC current 4P - 2P

Size 4

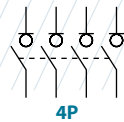
A 1250|1800|2000



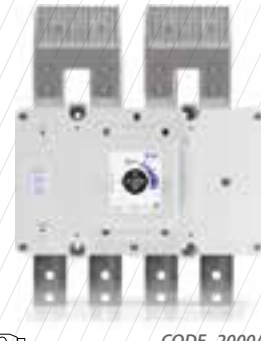
1000Vdc



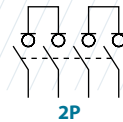
CODE-1250A **4P**  
**S5-18004PS0**



4P



CODE-1800A **2P**  
**S5-18002ES0**      CODE-2000A **S5-20002ED0**



2P

## Technical information

According to IEC/EN 60947-1  
IEC/EN 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 dielectric strength	50 Hz., 1 min.	V	10000	10000	10000
Rated impulse withstand voltage	Uimp	kV	12	12	12
Rated operational current <sup>*(1)</sup>	Ie	Ue			
		DC21B	1000 Vdc	A 1250	1800

			1250	1800	2000
<b>Short - circuit behaviour</b>					
Short - circuit making capacity <sup>*(2)</sup>	Icm	kA (peak)	60	60	60
Minimum number of mechanical operations <sup>*(3)</sup>		Cycles	10000	10000	10000
Minimum number of electrical operations	DC21B 1000V	Cycles	100	100	100
Maximum weight (without jumpers)		Kg	20,8	20,8	20,8

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

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

<sup>\*(3)</sup> Please consult us for more operations

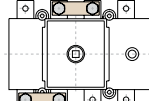
## Connection diagram

### Connection diagram

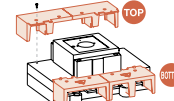
A S5-18004PS0



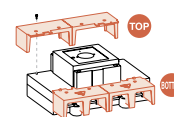
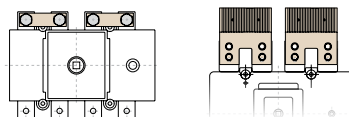
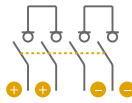
### Bridging links



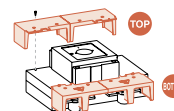
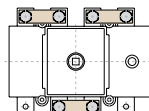
### Terminal shrouds



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



C



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

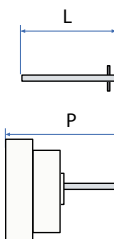
Standard shaft included <sup>\*(e1)</sup>

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

Ie = 16 A (resistive loads)  
4 A (inductive loads) at 250 Vac.



>> Terminal shrouds (2 units for 4P)

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



>> Bridging links (2 units)

For S5-18004PS0 A B CODE DS-PI41 (2 units)  
C CONSULT

<sup>\*(P2)</sup> For S5-18002ES0 B CODE DS-PI4D (2 units)  
S5-20002ED0

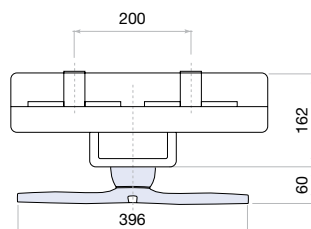
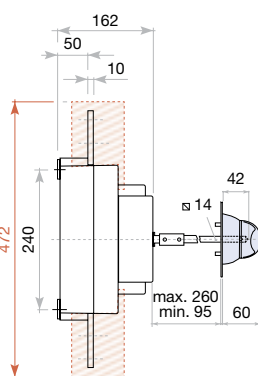
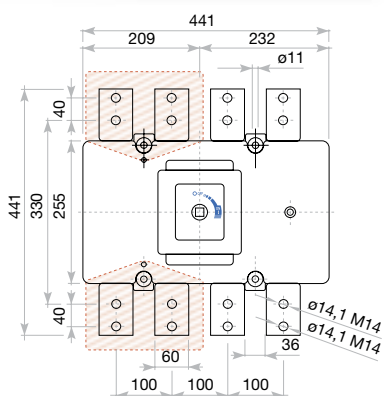
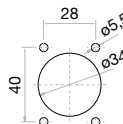
C CONSULT



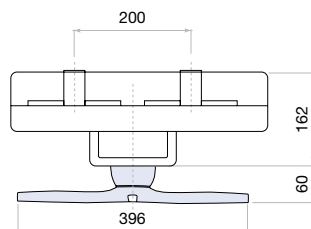
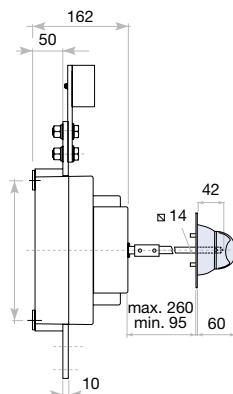
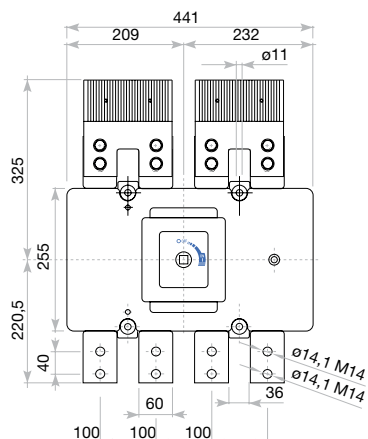
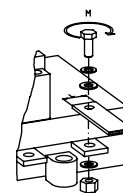
<sup>\*(P2)</sup> To meet the operation and electrical features, the product installed must incorporate these bridging links. Please consult.

Dimensions (mm)

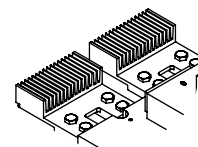
Door drilling for external handle



1250 A



1800 A  
2000 A



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

series  
**S5 DC**



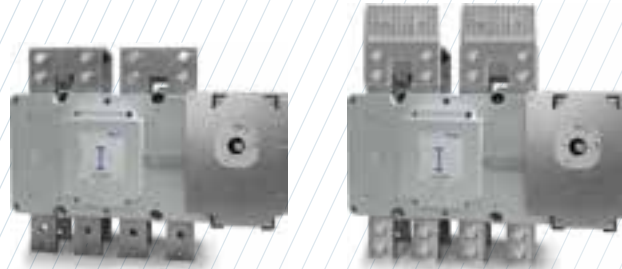
# S5000 DC Switch - disconnecter for DC current 2P

Size 5

A 2000|2500|3150



1000Vdc



CODE-2000A

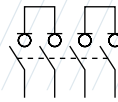
S5-20002ES0

CODE-2500A

S5-25002ES0

CODE-3150A

S5-31502ES0



2P

## Technical information

According to IEC/EN 60947-1  
IEC/EN 60947-3



consult

tests:



				2000	2500	3150
Rated thermal current in ambient at	I <sub>th</sub>	40° C	A	2000	2500	3150
		50° C	A	2000	2500	2850
		60° C	A	2000	2205	2500
Rated insulation voltage DC20	U <sub>i</sub>	V	1500	1500	1500	
Rated dielectric strength	50 Hz, 1 min.	V	10000	10000	10000	
Rated impulse withstand voltage	U <sub>imp</sub>	kV	8	8	8	
Rated operational current DC21B <sup>*(1)</sup>	I <sub>e</sub>	U <sub>e</sub>				
		1000 Vdc	A	2000	2500	3150

				2000	2500	3150
<b>Short - circuit behaviour</b>						
Short - circuit making capacity <sup>*(2)</sup>	I <sub>cm</sub>	kA (peak)		80	80	80
Minimum number of mechanical operations <sup>*(3)</sup>		Cycles		2500	2500	2500
Minimum number of electrical operations	DC21B 1000V	Cycles		100	100	100
Maximum weight (without jumpers)		Kg		58	58	58

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

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

<sup>\*(3)</sup> Please consult us for more operations

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



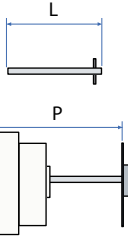
» External handle without shaft

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	420... 580



» Auxiliary contacts

1NO+1NC CODE DS-AU11  
2NO+2NC CODE DS-AU12

Ie = 16 A (resistive loads)  
4 A (inductive loads) at 250 Vac.



» Bridging links<sup>\*(P2)</sup>

2000A CODE DS-PI51 (2 units)  
2500A CODE DS-PI51 (2 units)  
3150A CODE x2 DS-PI4D (2 units) + x2 D5LPC45 (4 units)



DS-PI4D



DS-PI51

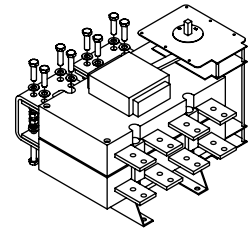
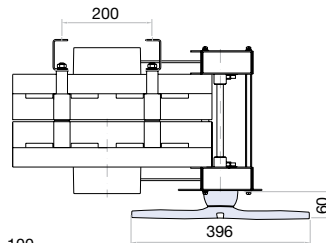
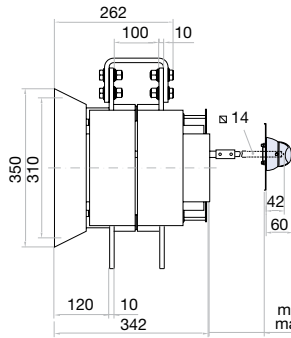
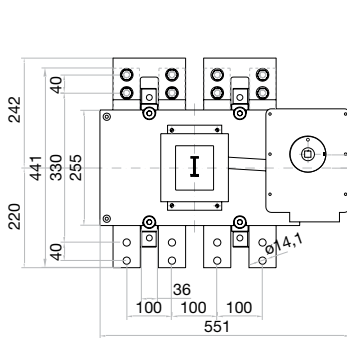
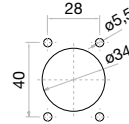


D5LPC45

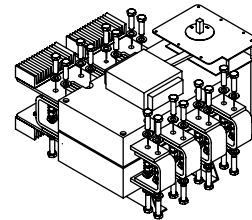
<sup>\*(P2)</sup> To meet the operation and electrical features, the product installed must be incorporate these bridging links. Please consult.

Dimensions (mm)

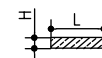
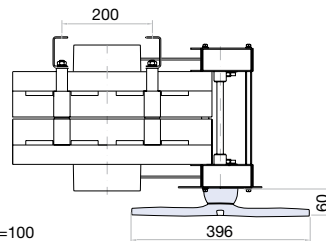
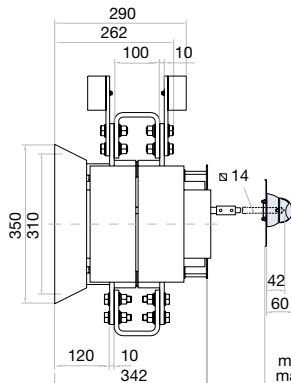
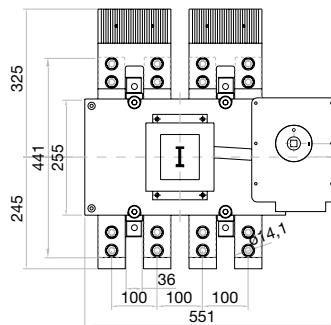
Door drilling for external handle



2000 A  
2500 A



3150 A



H max (Cu)	L max (Cu)	M	M
mm	mm	T	Nxm
3x12	80	M14	45

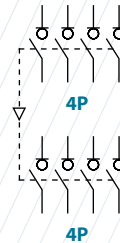
series  
**S5M DC**

# S5000M DC Switch - disconnecter for DC current 4P+4P

**Size 2**  
**A 630**  
1000Vdc



CODE - 630A **S5M063044R0**



## Technical information



According to IEC60947-3  
GB14048.3

tests:

		<b>630</b>	
Rated thermal current in ambient at	lth	40° C	A 630
		50° C	A 630
		60° C	A 630
Rated insulation voltage DC20	Ui	V	1500
Rated dielectric strength	50 Hz., 1 min.	V	8000
Rated impulse withstand voltage	Uimp	kV	12
Rated operational current <sup>*(1)</sup> DC21B	le	Ue	
		1000 Vdc	A 630

<b>Short - circuit behaviour</b>			
Short - circuit making capacity <sup>*(2)</sup>	lcm	kA (peak)	26
Short - time withstand current (1 sec.)	lcw	kA rms	16
Minimum number of mechanical operations <sup>*(3)</sup>		Cycles	10000
Minimum number of electrical operations	DC21B 1000Vdc	Cycles	200
Maximum weight (without jumpers)		Kg	17,5

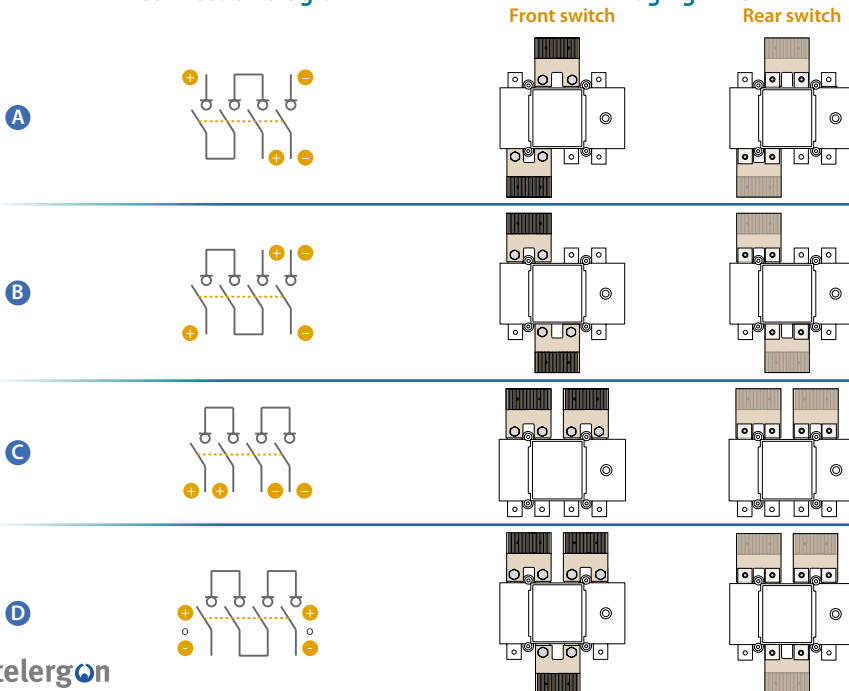
<sup>\*(1)</sup> Other voltages and / or utilization categories. Please consult  
<sup>\*(2)</sup> Without limiting protective device (short-circuit maintained 50... 100 ms.)  
<sup>\*(3)</sup> Please consult us for more operations

PV disconnect switch. Location category B. Minus 20 to +50°C.  
 Short circuit rating: 10kA 1000Vdc Photovoltaic Fuse.

## Connection diagram

### Connection diagram

### Bridging links





Accessories



» Direct handle

CODE DS-LI22



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

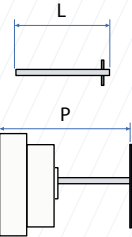
IP65 | UL50E/NEMA 250  
Types: 1, 3R, 4, 4X y 12  
CODE DS-LA22



» 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.



» Shafts

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

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



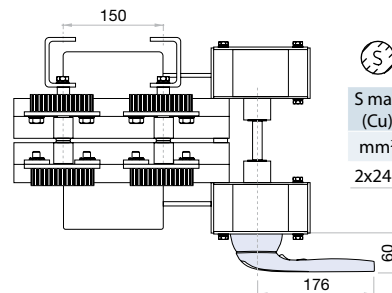
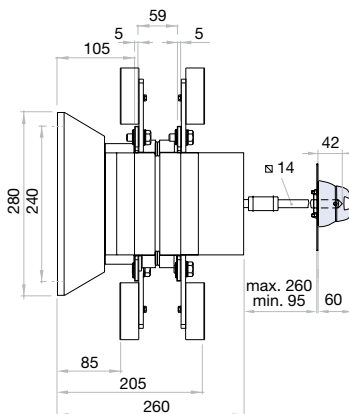
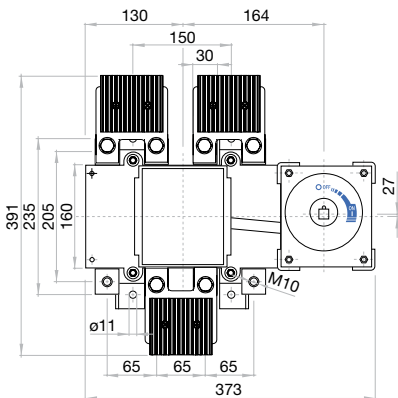
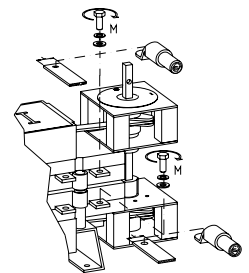
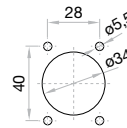
» Bridging links <sup>\*(P2)</sup>

CODE DS-PI2D (2 units)

<sup>\*(P2)</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



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

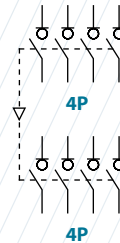
series  
**S5M DC**

# S5000M DC Switch - disconnecter for DC current 4P+4P

**Size 3**  
**A 1250**  
1000Vdc



CODE - 1250A **S5M125044C0**



## Technical information



According to IEC60947-3  
GB14048.3

tests:

		<b>1250</b>	
Rated thermal current in ambient at	lth	40° C	A 1250
		50° C	A 1250
		60° C	A 1250
Rated insulation voltage DC20	Ui	V	1500
Rated dielectric strength	50 Hz., 1 min.	V	8000
Rated impulse withstand voltage	Uimp	kV	12
Rated operational current <sup>*(1)</sup> DC21B	le Ue	1000 Vdc	A 1250

<b>Short - circuit behaviour</b>			
Short - circuit making capacity <sup>*(2)</sup>	lcm	kA (peak)	60
Short - time withstand current (1 sec.)	lcw	kA rms	25
Minimum number of mechanical operations <sup>*(3)</sup>		Cycles	10000
Minimum number of electrical operations	DC21B 1000Vdc	Cycles	200
Maximum weight (without jumpers)		Kg	28,6

<sup>\*(1)</sup> Other voltages and / or utilization categories. Please consult  
<sup>\*(2)</sup> Without limiting protective device (short-circuit maintained 50... 100 ms.)  
<sup>\*(3)</sup> Please consult us for more operations

PV disconnect switch. Location category B. Minus 20 to +50°C.  
 Short circuit rating: 10kA 1000Vdc Photovoltaic Fuse.

## Connection diagram

### Connection diagram

### Bridging links

		Front switch	Rear switch
<b>A</b>			
<b>B</b>			
<b>C</b>			
<b>D</b>			



**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



**Auxiliary contacts**

1NO+1NC CODE DS-AU11  
2NO+2NC CODE DS-AU12

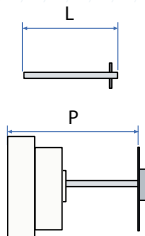
Ie = 16 A (resistive loads)  
4 A (inductive loads) at 250 Vac.



**Bridging links** <sup>\*(P2)</sup>

CODE DS-PI3D (2 units)

<sup>\*(P2)</sup> To meet the operation and electrical features, the product installed must be incorporate these bridging links. Please consult.



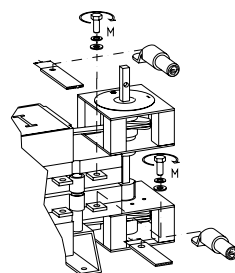
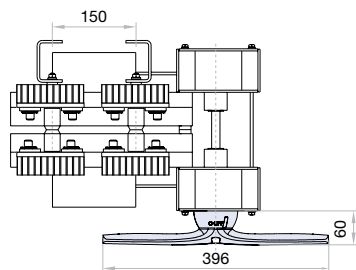
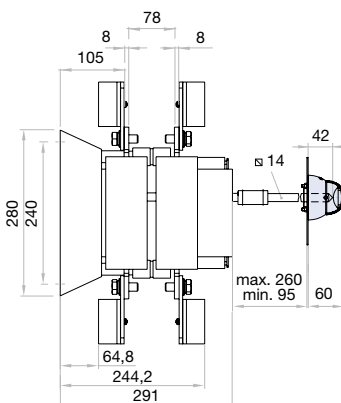
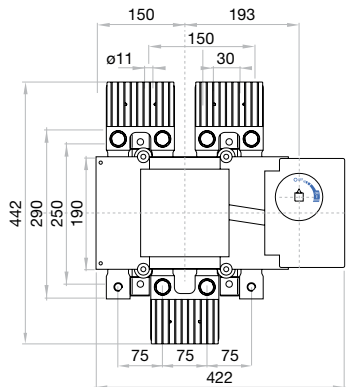
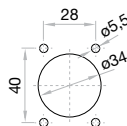
**Shafts**

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

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

**Dimensions (mm)**

Door drilling for external handle

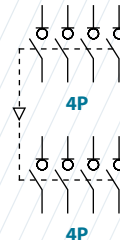
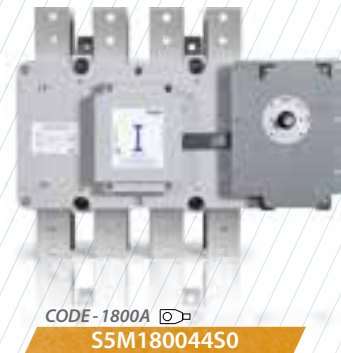


S max (Cu) mm <sup>2</sup>	H max (Cu) mm	L max (Cu) mm	T T	M Nxm
2x240	2x10	50	M14	45

series  
**S5M DC**

# S5000M DC Switch - disconnecter for DC current 4P+4P

**Size 4**  
**A 1800**  
1000Vdc



## Technical information



According to IEC60947-3  
GB14048.3

		<b>1800</b>	
Rated thermal current in ambient at	lth	40° C	A <b>1800</b>
		50° C	A <b>1800</b>
		60° C	A <b>1800</b>
Rated insulation voltage DC20	Ui	V	<b>1500</b>
Rated dielectric strength	50 Hz., 1 min.	V	<b>10000</b>
Rated impulse withstand voltage	Uimp	kV	<b>12</b>
Rated operational current <sup>*(1)</sup> DC21B	le	Ue	
		1000 Vdc	A <b>1800</b>

### Short - circuit behaviour

Short - circuit making capacity <sup>*(2)</sup>	lcm	kA (peak)	<b>75</b>
Short - time withstand current (1 sec.)	lcw	kA rms	<b>50</b>
Minimum number of mechanical operations <sup>*(3)</sup>		Cycles	<b>10000</b>
Minimum number of electrical operations	DC21B 1000Vdc	Cycles	<b>100</b>
Maximum weight (without jumpers)		Kg	<b>72,1</b>

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

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

<sup>\*(3)</sup> Please consult us for more operations

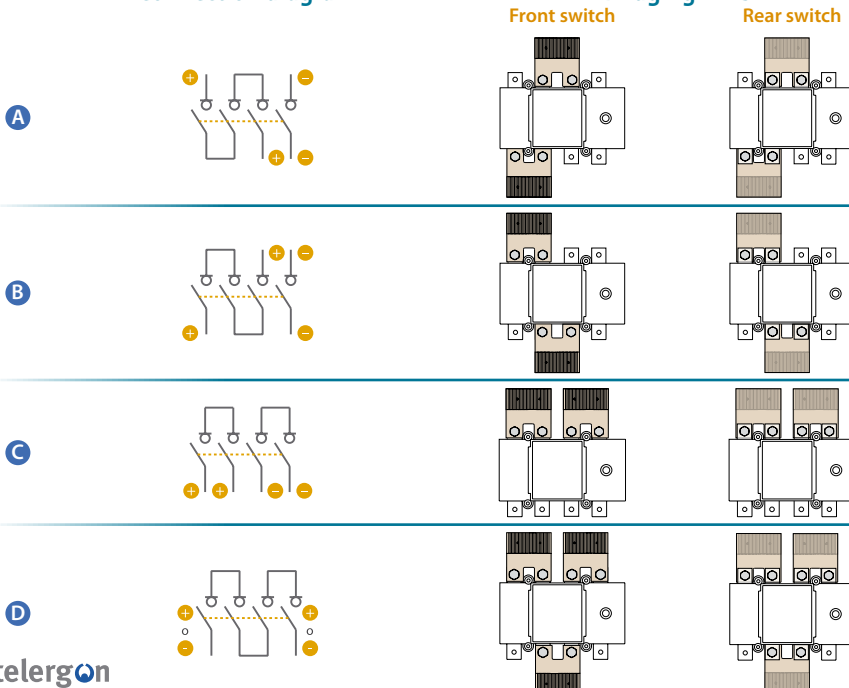
PV disconnect switch. Location category B. Minus 20 to +50°C.

Short circuit rating: 10kA 1000Vdc Photovoltaic Fuse.

## Connection diagram

### Connection diagram

### Bridging links



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



» Auxiliary contacts

1NO+1NC CODE DS-AU11  
2NO+2NC CODE DS-AU12

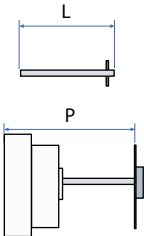
I<sub>e</sub> = 16 A (resistive loads)  
4 A (inductive loads) at 250 Vac.



» Bridging links <sup>\*(P2)</sup>

CODE DS-PI4D (2 units)

<sup>\*(P2)</sup> To meet the operation and electrical features, the product installed must incorporate these bridging links. Please consult.



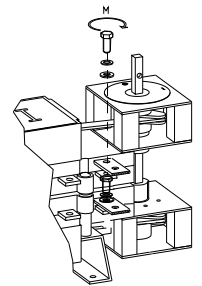
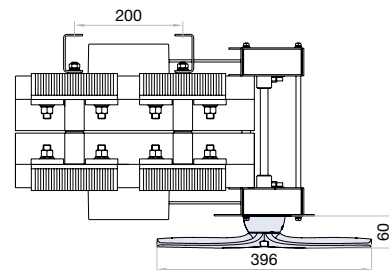
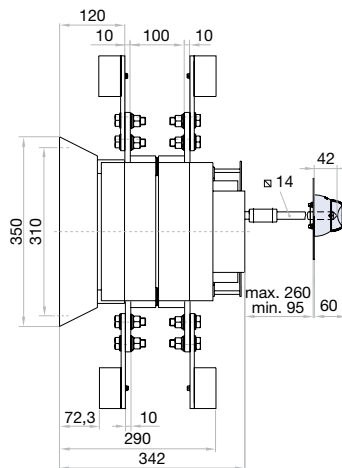
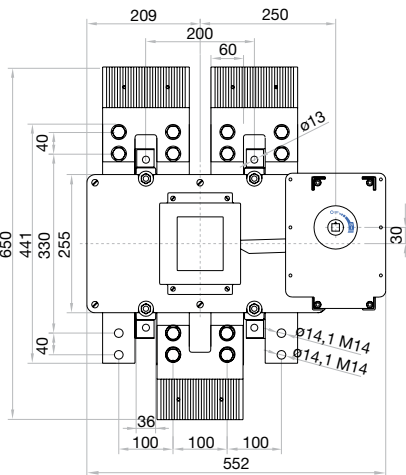
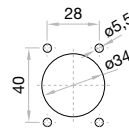
» Shafts

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

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

Dimensions (mm)

Door drilling for external handle




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


series  
**S5M DC**

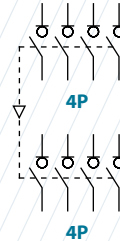


# S5000M DC Switch - disconnecter for DC current 4P+4P

Size 2
A 500

1500Vdc



CODE - 500A   
**S5M063044R0**



## Technical information



tests:



According to IEC60947-1  
IEC60947-3

		500	
Rated thermal current in ambient at	I <sub>th</sub>	40° C	A 500
		50° C	A 500
		60° C	A 500
Rated insulation voltage DC20	U <sub>i</sub>	V	1500
Rated dielectric strength	50 Hz, 1 min.	V	8000
Rated impulse withstand voltage	U <sub>imp</sub>	kV	12
Rated operational current DC21B	I <sub>e</sub>	U <sub>e</sub>	
		1500 Vdc	A 500
Rated making capacity DC21B	U <sub>e</sub>		
		1500 Vdc	A 500

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

Short - circuit behaviour			
Maximum cut - off current * <sup>(1)</sup>	I <sub>cm</sub>	kA (peak)	26
Short - time withstand current (1 sec.)	I <sub>cw</sub>	kA rms	16
Minimum number of mechanical operations		Cycles	10000
Minimum number of electrical operations	DC21B	Cycles	200
	1500 Vdc		
Maximum weight (without jumpers)		Kg	13

PV disconnect switch. Location category B. Minus 20 to +50°C.  
Short circuit rating: 10kA 1000Vdc Photovoltaic Fuse.

## Connection diagram

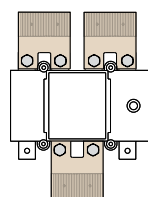
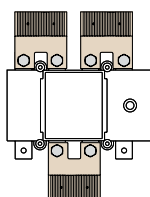
### Connection diagram



### Bridging links

Front switch

Rear switch



Accessories



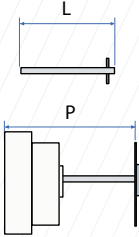
» Direct handle

CODE DS-LI22



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

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

Ie = 16 A (resistive loads)  
4 A (inductive loads) at 250 Vac.



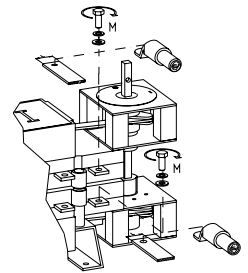
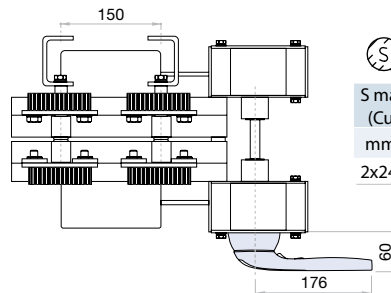
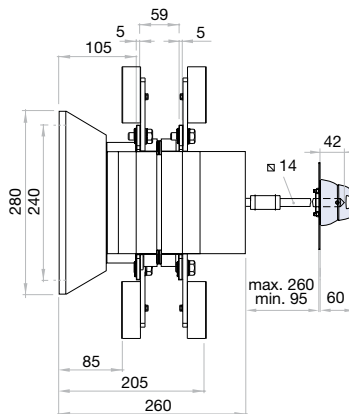
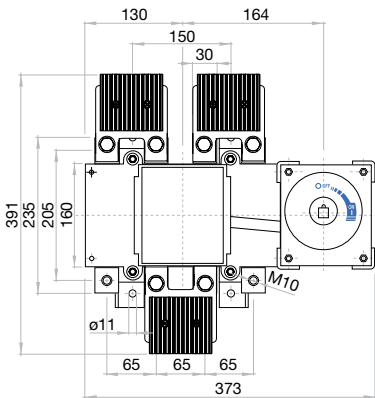
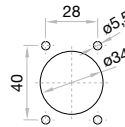
» Bridging links <sup>\*(P2)</sup>

CODE DS-PI2D (2 units)

<sup>\*(P2)</sup> To meet the operation and electrical features, the product installed must be incorporate these bridging links. Please consult.

Dimensions (mm)

Door drilling for external handle



S max (Cu)	H max (Cu)	L max (Cu)	M
2x240 mm <sup>2</sup>	2x5 mm	40 mm	M10 Nm 24

series  
**S5M DC**

# S5000M DC Switch - disconnecter for DC current 4P+4P

Size 3

A 800|1000



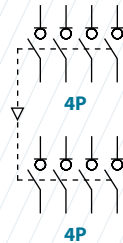
1500Vdc



CODE-800A **S5M080044R0**



CODE-1000A **S5M125044C0**



## Technical information



tests:



According to IEC60947-1  
IEC60947-3

				800	1000
Rated thermal current in ambient at	I <sub>th</sub>	40° C	A	800	1000
		50° C	A	800	1000
		60° C	A	800	1000
Rated insulation voltage DC20	U <sub>i</sub>	V	1500	1500	
Rated dielectric strength	50 Hz., 1 min.	V	8000	8000	
Rated impulse withstand voltage	U <sub>imp</sub>	kV	12	12	
Rated operational current DC21B	I <sub>e</sub>	U <sub>e</sub>			
		1500 Vdc	A	800	1000
Rated making capacity DC21	U <sub>e</sub>				
		1500 Vdc	A	800	1000

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

\*<sup>(2)</sup> Please consult us for more operations

### Short - circuit behaviour

Maximum cut - off current * <sup>(1)</sup>	I <sub>cm</sub>	kA (peak)	60
Short - time withstand current (1 sec.)	I <sub>cw</sub>	kA rms	25
Minimum number of mechanical operations		Cycles	10000
Minimum number of electrical operations	DC21B 1500Vdc	Cycles	200
Maximum weight (without jumpers)		Kg	28,6

PV disconnect switch. Location category B. Minus 20 to +50°C.  
Short circuit rating: 10kA 1000Vdc Photovoltaic Fuse.

## Connection diagram

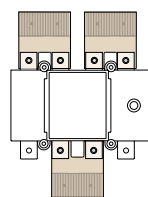
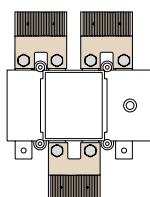
### Connection diagram



### Bridging links

Front switch

Rear switch





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



» Auxiliary contacts

1NO+1NC CODE DS-AU11  
2NO+2NC CODE DS-AU12

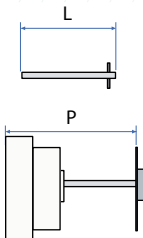
I<sub>e</sub> = 16 A (resistive loads)  
4 A (inductive loads) at 250 Vac.



» Bridging links <sup>\*(P2)</sup>

CODE DS-PI3D (2 units)

<sup>\*(P2)</sup> To meet the operation and electrical features, the product installed must be incorporate these bridging links. Please consult.



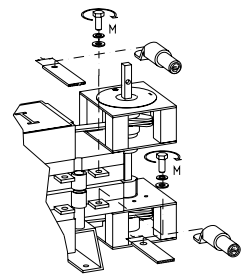
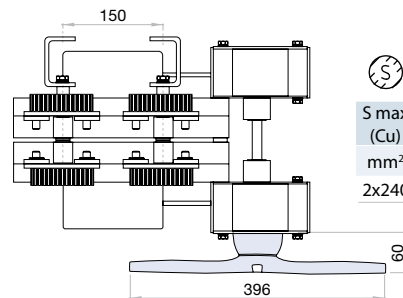
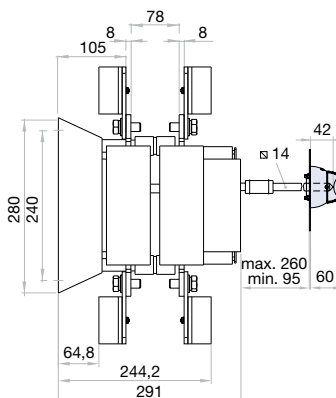
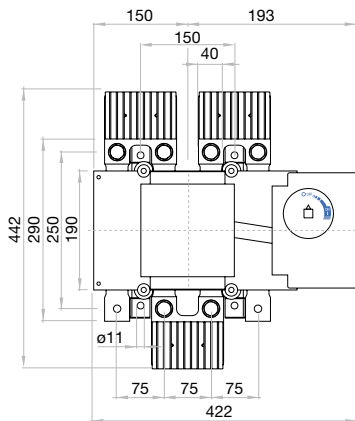
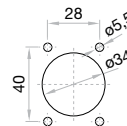
» Shafts

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

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

Dimensions (mm)

Door drilling for external handle

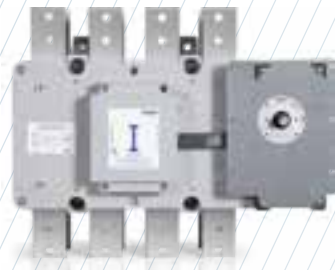


S max (Cu)	H max (Cu)	L max (Cu)	M
mm <sup>2</sup>	mm	mm	Nxm
2x240	2x10	50	M14 45

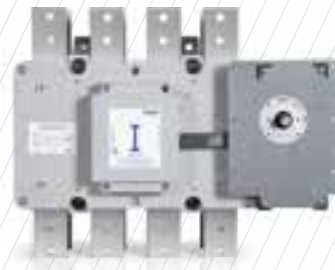


# S5000M DC Switch - disconnecter for DC current 4P+4P

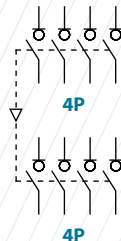
**Size 4**  
**A 1250|1800**  
  
**1500Vdc**



CODE- 1250A **S5M160044S0**



CODE- 1800A **S5M180044S0**



## Technical information



According to IEC60947-1  
IEC60947-3

		1250		1800	
Rated thermal current in ambient at	Ith	40° C	A	1250	1800
		50° C	A	1250	1800
		60° C	A	1250	1800
Rated insulation voltage DC20	Ui	V	1500	1500	
Rated dielectric strength	50 Hz., 1 min.	V	10000	10000	
Rated impulse withstand voltage	Uimp	kV	12	12	
Rated operational current DC21B	Ie	Ue			
		1500 Vdc	A	1250	1800
Rated making capacity DC21		Ue			
		1500 Vdc	A	1250	1800

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

### Short - circuit behaviour

Maximum cut - off current * <sup>(1)</sup>	Icm	kA (peak)	75
Short - time withstand current (1 sec.)	Icw	kA rms	50
Minimum number of mechanical operations		Cycles	10000
Minimum number of electrical operations	DC21B 1500V	Cycles	100
Maximum weight (without jumpers)		Kg	72,1

PV disconnect switch. Location category B. Minus 20 to +50°C.  
Short circuit rating: 10kA 1000Vdc Photovoltaic Fuse.

## Connection diagram

### Connection diagram

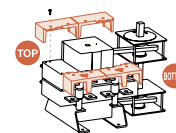
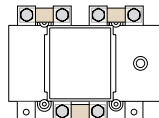
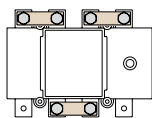
### Bridging links

### Terminal shrouds (On front switch only)

S5M160044S0



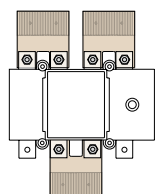
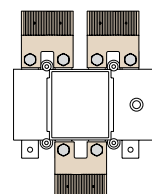
D1



S5M180044S0



D2



Accessories



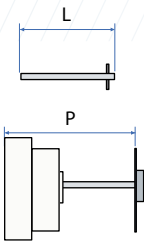
» Direct handle  
CODE DS-LI41



» External handle included shaft\*(e1)  
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 \*(e1)  
L (mm) | P (mm)  
239 | 408... 573



» Auxiliary contacts  
1NO+1NC CODE DS-AU11  
2NO+2NC CODE DS-AU12  
Ie = 16 A (resistive loads)  
4 A (inductive loads) at 250 Vac.



» Terminal shrouds (2 units)  
D1  
TOP DS-CU400U  
BOTTOM DS-CU480U

The shrouds can only be fitted in the front switch.

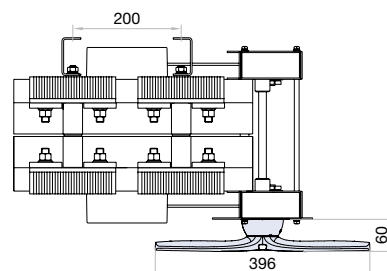
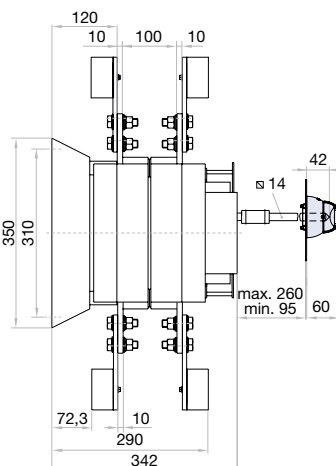
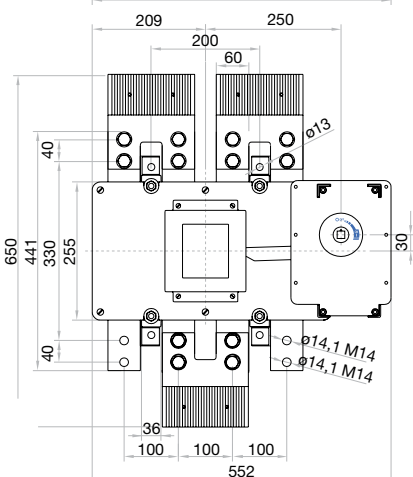
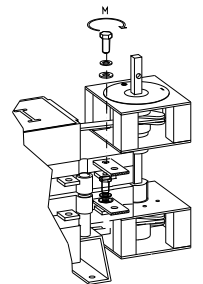
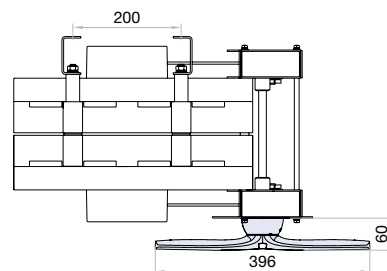
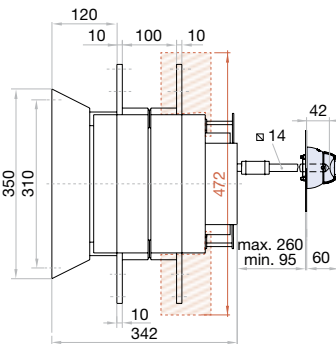
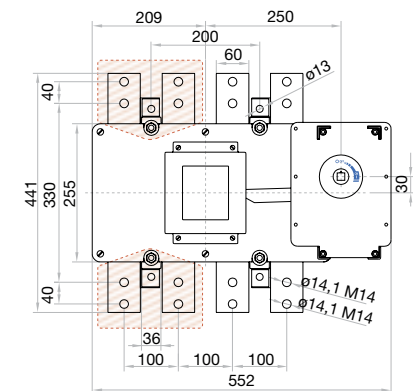
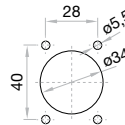


» Bridging links \*(P2)  
C D CODE DS-PI430U (3 units)  
E F CODE DS-PI4D (2 units)

\*(P2) To meet the operation and electrical features, the product installed must be incorporate these bridging links. Please consult.

Dimensions (mm)

Door drilling for external handle



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




# S6000 DC Switch - disconnecter base mounting 1P - 2P




**Size 1**

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




500 - 750 - 1000Vdc




CODE-500Vdc 

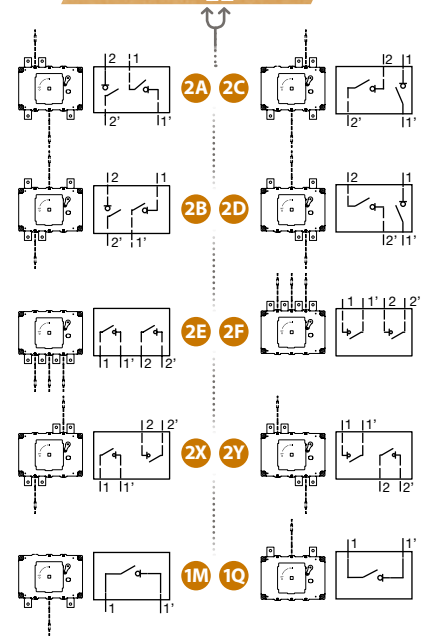
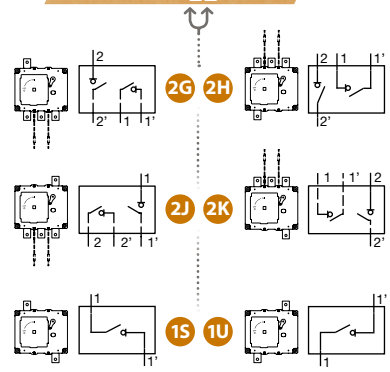
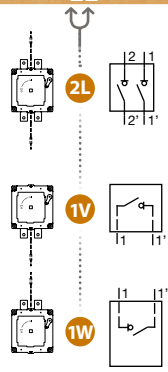
125A	S6-0125 __ S0
160A	S6-0160 __ S0
200A	S6-0200 __ S0
250A	S6-0250 __ S0
315A	S6-0315 __ S0
400A	S6-0400 __ D0

CODE-750Vdc 

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-1000Vdc 

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



## Technical information



According to IEC/EN 60947-1  
IEC/EN 60947-3

		125	160	200	250	315	400	
Rated thermal Ith current in ambient at	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 dielectric strength	50 Hz., 1 min.	V	5000	5000	5000	5000	5000	5000
Rated impulse withstand voltage	Uimp	kV	12	12	12	12	12	12
Rated operational current <sup>*(1)</sup>	Code 500Vdc	A	125	160	200	250	315	400
	Code 750Vdc DC21B	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
Conditional short - circuit current <sup>*(3)</sup>	kA rms	100	100	100	100	100	100
<b>Mechanical features</b>							
Minimum number of mechanical operations <sup>*(4)</sup>	Cycles	20000	20000	20000	20000	20000	20000
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.)  
<sup>\*(3)</sup> With limiting protective device which set a limit to peak value short-circuit making  
 capacity and maximum power dissipation to indicated values  
<sup>\*(4)</sup> Please consult us for more operations

Accessories



» Direct handle

CODE DS-SI11



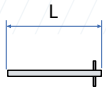
» External handle included shaft<sup>\*(e1)</sup>

IP65 | UL50E/NEMA 250  
Types: 1, 3R, 4, 4X y 12  
CODE DS-SA11



» External handle without shaft

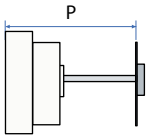
IP65 | UL50E/NEMA 250  
Types: 1, 3R, 4, 4X y 12  
CODE DS-SA14



» 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

Ie = 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)

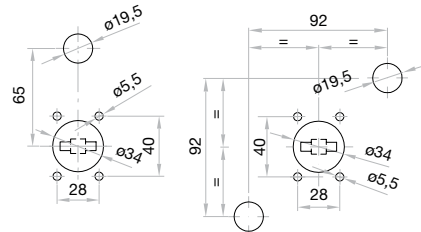


» Safety key lock device

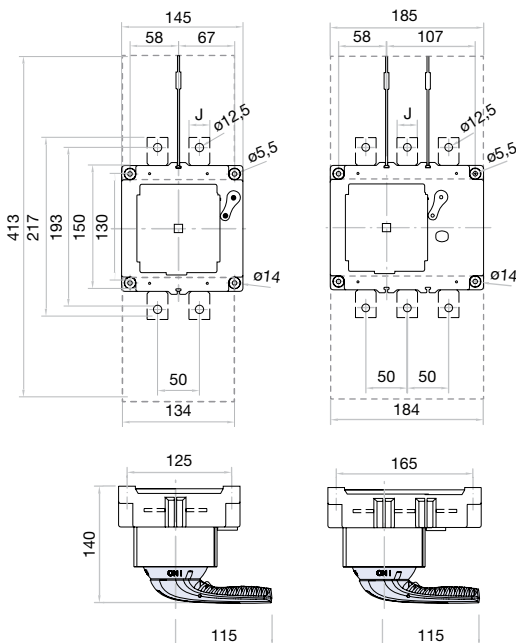
Simple CODE DS-CA11  
Double CODE DS-CE11

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

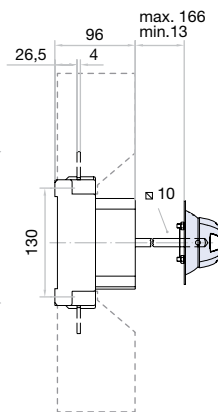
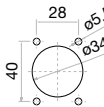
Door drilling for handle and keylock device



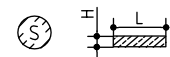
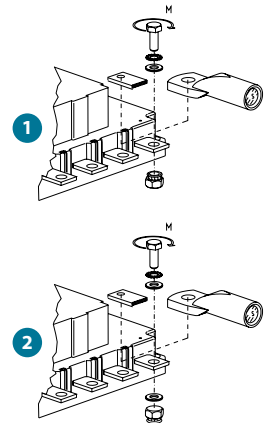
Dimensions (mm)



Door drilling for external handle



J	mm
125 A	25
160 A	25
200 A	25
250 A	25
315 A	25
400 A	30 <sup>*(5)</sup>



	S max (Cu) mm <sup>2</sup>	H max (Cu) mm	L max (Cu) mm	T	M
125 A	95	5	25	M10	18
160 A	95	5	25	M10	18
200 A	120	7	25	M10	18
250 A	150	7	25	M10	18
315 A	185	7	25	M10	18
400 A	240 <sup>*(5)</sup>	7	35 <sup>*(5)</sup>	M10	18

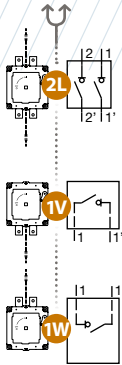
<sup>\*(5)</sup> Using phase barriers DR-SF\_\_ to maintain the required clearance.

# S6000 DC UL Switch - disconnecter base mounting 1P - 2P

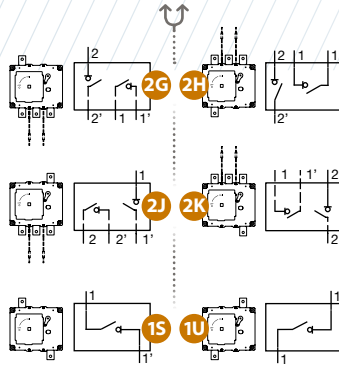
**Size 1**  
**A** 250  
500 - 750 - 1000Vdc



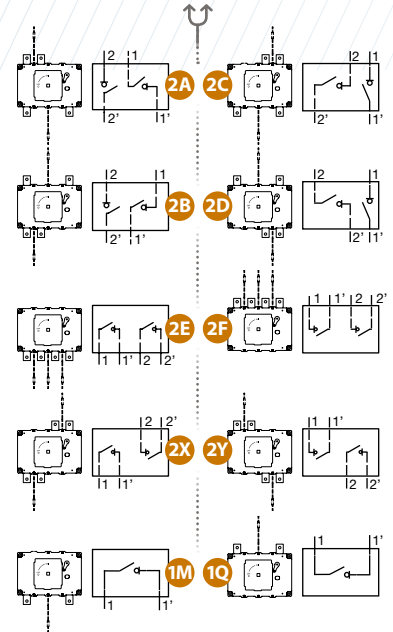
250A CODE-500 Vdc **S6-0250 \_\_ S00L**



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



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



## Technical information



tests:



According to UL98B

LISTED E333311				<b>250</b>
Rated thermal current	I <sub>th</sub>	-20°C to +50°C	A	250
Rated operational current	I <sub>e</sub>	Code 500Vdc	A	250
		Code 750Vdc	A	250
		Code 1000Vdc	A	250
Rated short-circuit current	I <sub>cc</sub>		kA	10
Maximum weight			Consult according to code	
<b>Wiring capacity</b>				
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 12kV DC21B-1000Vdc-250A Ui 1500Vdc Ith 250A

Accessories



» Direct handle

CODE DS-SI11



» Terminal shrouds

- CODE DR-CU11 (1 unit)
- CODE DR-CU12 (1 unit)
- CODE DR-CU13 (1 unit)



» External handle included shaft\*(e1)

IP65 | UL50E/NEMA 250  
Types: 1, 3R, 4, 4X y 12  
CODE DS-SA11



» Phase barriers

- CODE DR-SF11 (1 unit)
- CODE DR-SF12 (2 units)
- CODE DR-SF13 (3 units)



» External handle without shaft

IP65 | UL50E/NEMA 250  
Types: 1, 3R, 4, 4X y 12  
CODE DS-SA14



» Spacers

CODE DR-EL11 (4 units)

» Shafts

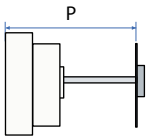
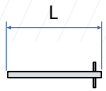
Standard shaft included \*(e1)

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

Ie = 16 A (resistive loads)  
4 A (inductive loads) at 250 Vac.

» Terminal lug

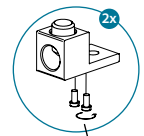
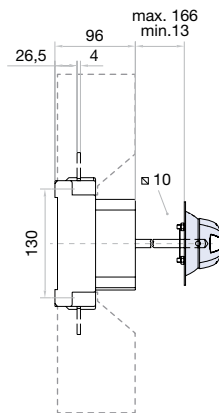
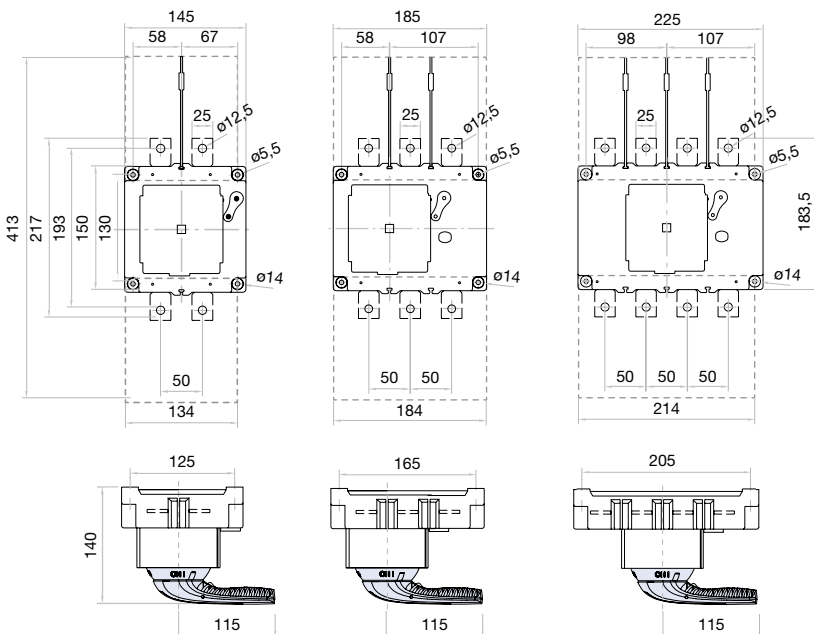
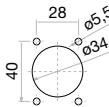
CODE DR-TL11 (2 units)

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

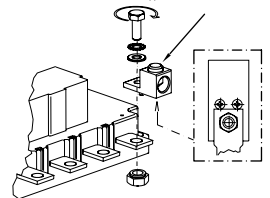


Dimensions (mm)

Door drilling for external handle



10-32 UNF TORQUE/PAR 26,55 lbf·in / 3 N·m  
7/8-14 UNF TORQUE/PAR 500 lbf·in / 56 N·m



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



# S6000 DC Switch - disconnecter base mounting 1P - 2P

**Size 2**  
**A** 500|630  
500 - 750 - 1000Vdc



CODE - 500 Vdc

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



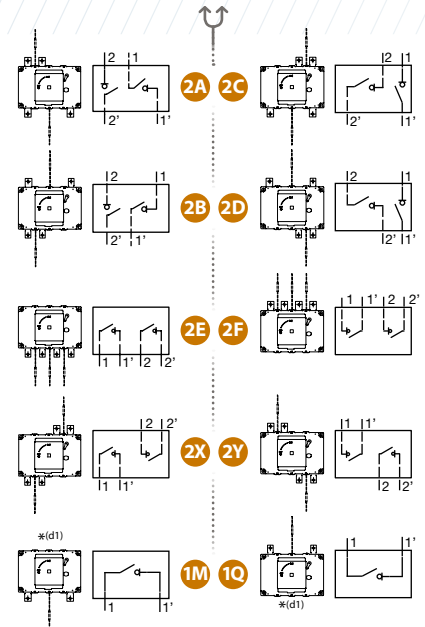
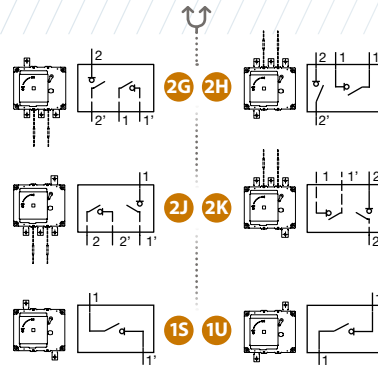
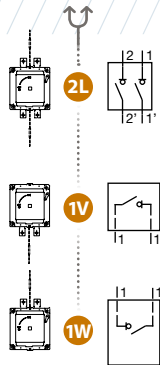
CODE - 750 Vdc

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



CODE - 1000 Vdc

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



\*(d1) Only for 500 A.

## Technical information



According to IEC/EN 60947-1  
IEC/EN 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 dielectric strength		V	8000	8000
Rated impulse withstand voltage	Uimp	kV	12	12
Rated operational current <sup>*(1)</sup> Ie	Code	500Vdc	A 500	630
		750Vdc DC21B	A 500	630
		1000Vdc	A 500	630

			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 (1sec)	Icw	kA rms	10	10
Conditional short - circuit current <sup>*(3)</sup>		kA rms	100	100
<b>Mechanical features</b>				
Minimum number of mechanical operations <sup>*(4)</sup>	Cycles		10000	10000
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.)  
<sup>\*(3)</sup> With limiting protective device which set a limit to peak value short-circuit making capacity and maximum power dissipation to indicated values  
<sup>\*(4)</sup> Please consult us for more operations



Accessories



» Direct handle

CODE DS-LI21



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

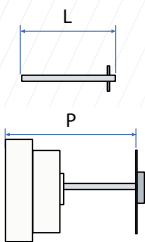
IP65 | UL50E/NEMA 250  
Types: 1, 3R, 4, 4X y 12  
CODE DS-LA21



» External handle without shaft

IP65 | UL50E/NEMA 250  
Types: 1, 3R, 4, 4X y 12  
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 V<sub>ac</sub>.



» 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)

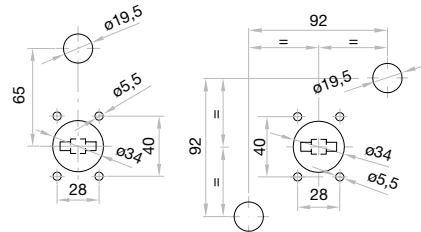


» Safety key lock device

Simple CODE DS-CB21  
Double CODE DS-CF21

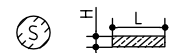
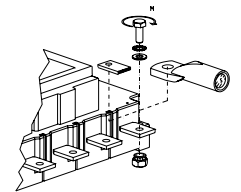
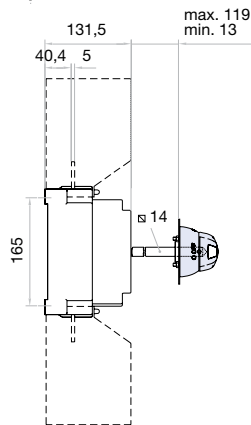
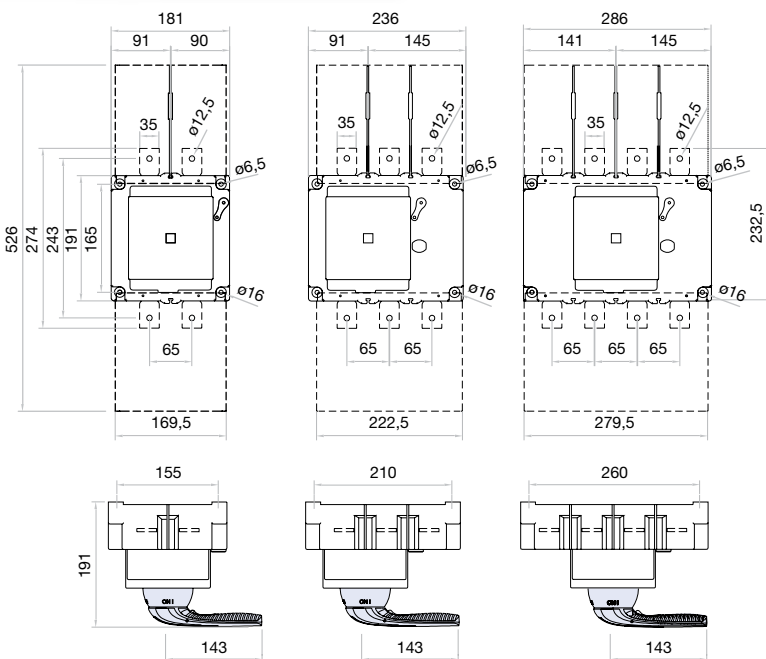
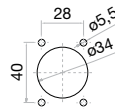
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

Door drilling for handle and keylock device



Dimensions (mm)

Door drilling for external handle



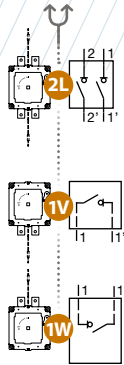
	S max (Cu) mm <sup>2</sup>	H max (Cu) mm	L max (Cu) mm	T	M
500 A	2x150	6	40	M10	24
630 A	2x185	2x5	40	M10	24

# S6000 DC UL Switch - disconnecter base mounting 1P - 2P

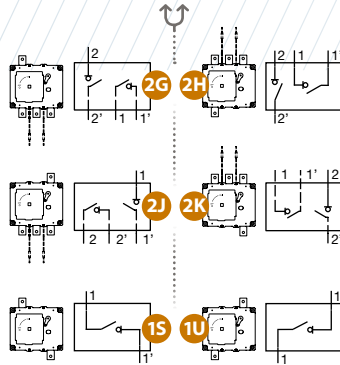
**Size 2**  
**A**  
**400**  
500 - 750 - 1000Vdc



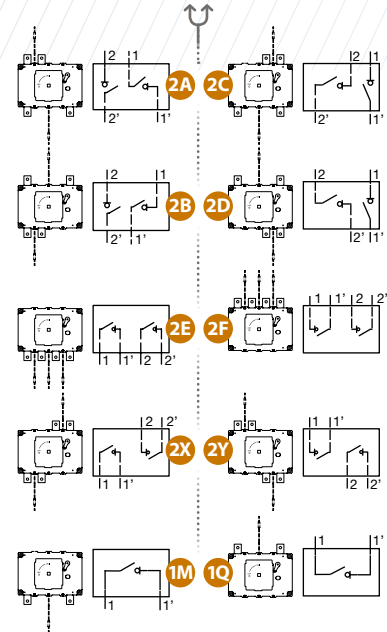
400A CODE-500Vdc S6-0400 S00L



400A CODE-750Vdc S6-0400 S00L



400A CODE-1000Vdc S6-0400 S00L



## Technical information



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

According to UL98 B

LISTED  
E333311

Rated thermal current	I <sub>th</sub>	-20°C to +50°C	A	400
Rated operational current	I <sub>e</sub>	Code 500Vdc	A	400
		Code 750Vdc	A	400
		Code 1000Vdc	A	400
Rated short-circuit current	I <sub>cc</sub>		kA	10
<b>Overload</b>				
Maximum weight	Consult according to code			
<b>Wiring capacity</b>				
Minimum connection wire range/AWG	MCM	2x300		
Maximum connection wire range/AWG	MCM	2x350		

### 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



» Direct handle

CODE DS-LI21



» External handle included shaft\*(e1)

IP65 | UL50E/NEMA 250  
Types: 1, 3R, 4, 4X y 12  
CODE DS-LA21



» External handle without shaft

IP65 | UL50E/NEMA 250  
Types: 1, 3R, 4, 4X y 12  
CODE DS-LA24



» 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-TL21 (2 units)  
CODE DR-TL22 (2 units)

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

» Shafts

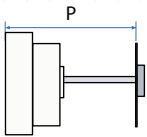
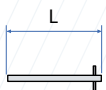
Standard shaft included \*(e1)

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



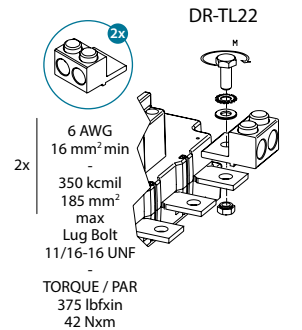
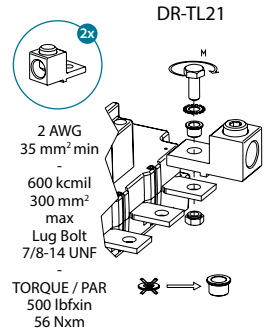
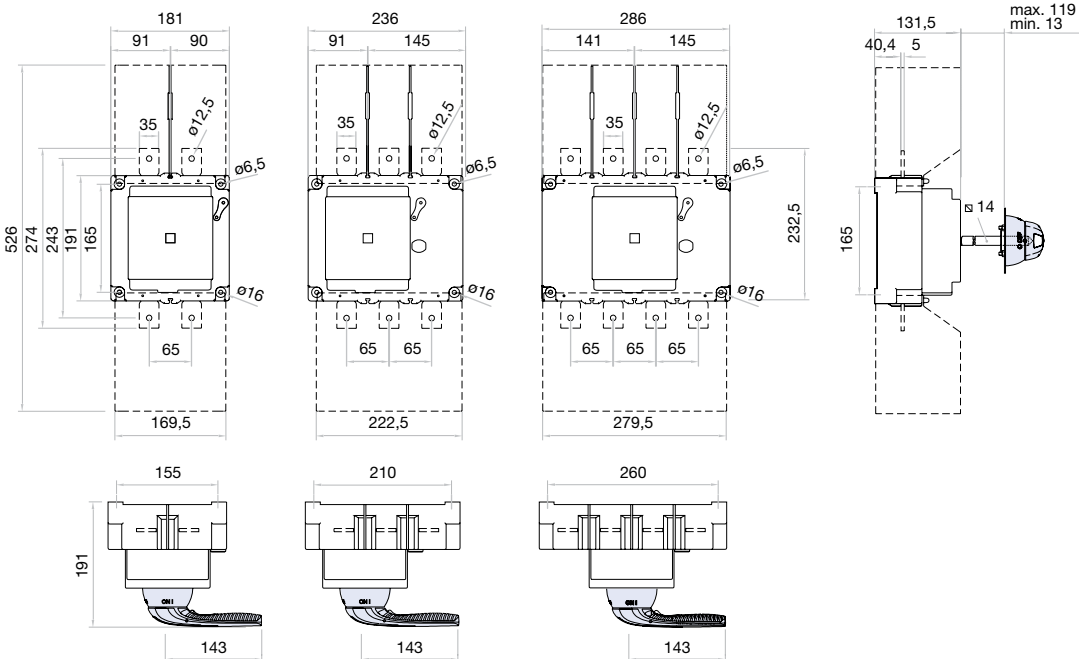
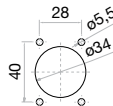
» Auxiliary contacts

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

Ie = 16 A (resistive loads)  
4 A (inductive loads) at 250 Vac.

Dimensions (mm)

Door drilling for external handle

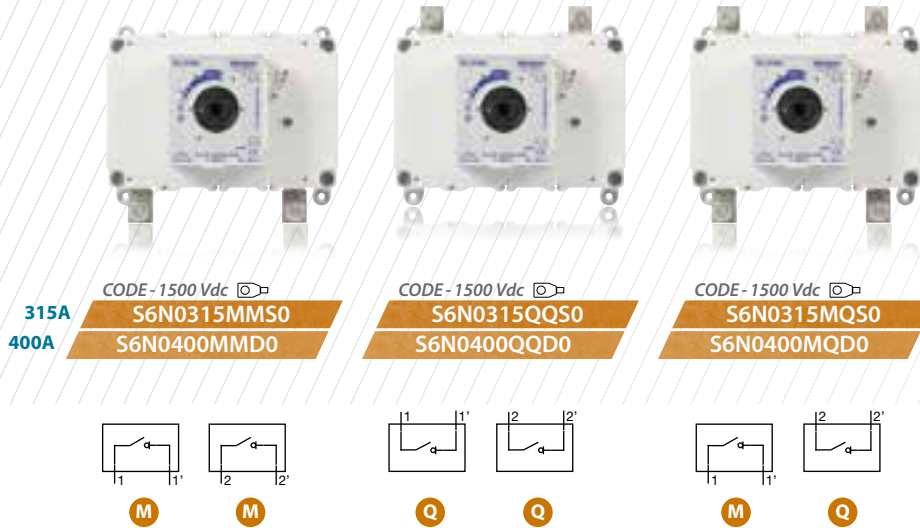


Temperature rating		Copper wire only	
		M <sup>+5%</sup> <sub>-10%</sub>	Nxm lbf <sub>in</sub>
75 °C	M10	24	212



# S6000N DC Switch - disconnecter base mounting 1P - 1P

**Size 1**  
**A** 315|400  
  
 1500Vdc



## Technical information



According to IEC/EN 60947-1  
IEC/EN 60947-3

		315		400	
Rated thermal current in ambient at	I <sub>th</sub>	40° C	A	315	400
		50° C	A	315	400
		60° C	A	315	360
Rated insulation voltage (DC)	U <sub>i</sub>	V	1500	1500	
Rated dielectric strength		50 Hz., 1 min.	V	5000	5000
Rated impulse withstand voltage		U <sub>imp</sub>	kV	12	12
Rated operational current <sup>*(1)</sup>	I <sub>e</sub>	1500Vdc DC21B	A	315	400

		315		400	
<b>Short - circuit behaviour</b>					
Rated short-circuit making capacity <sup>*(2)</sup>	I <sub>cm</sub>	kA (peak)	10	10	
Rated short-time withstand current (1sec)	I <sub>cw</sub>	kA rms	10	10	
Conditional short - circuit current <sup>*(3)</sup>		kA rms	100	100	
<b>Mechanical features</b>					
Minimum number of mechanical operations <sup>*(4)</sup>		Cycles	8000	8000	
Maximum weight			4,25	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.)

<sup>\*(3)</sup> With limiting protective device which set a limit to peak value short-circuit making capacity and maximum power dissipation to indicated values

<sup>\*(4)</sup> Please consult us for more operations

Accessories



» Direct handle

CODE DS-SI11



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

IP65 | UL50E/NEMA 250  
Types: 1, 3R, 4, 4X y 12  
CODE DS-SA11



» External handle without shaft

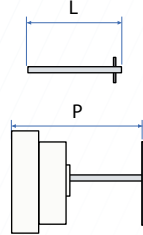
IP65 | UL50E/NEMA 250  
Types: 1, 3R, 4, 4X y 12  
CODE DS-SA14



» Auxiliary contacts

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

Ie = 16 A (resistive loads)  
4 A (inductive loads) at 250 Vac.



» Shafts

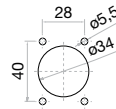
Standard shaft included <sup>\*(e1)</sup>

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

Shaft extensions

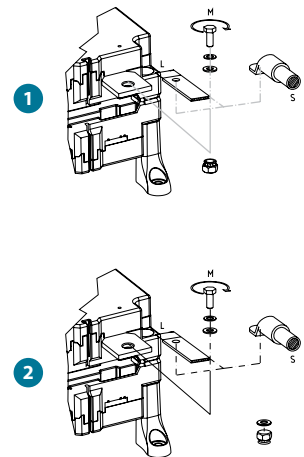
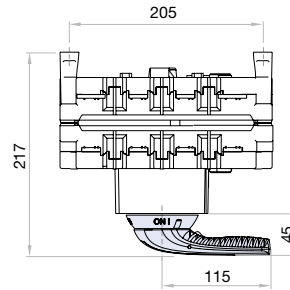
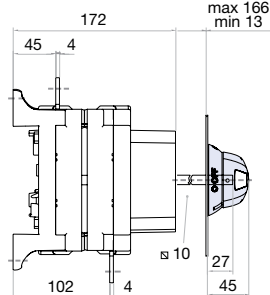
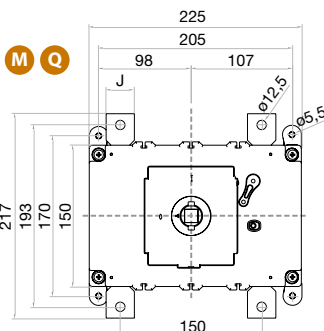
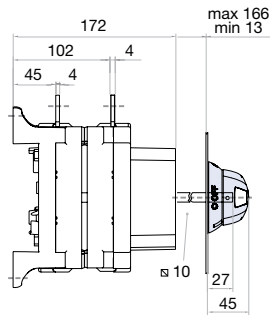
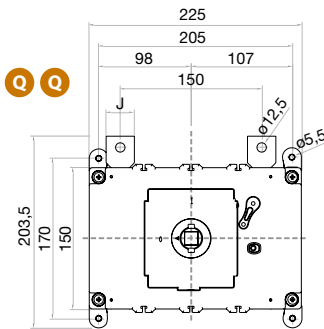
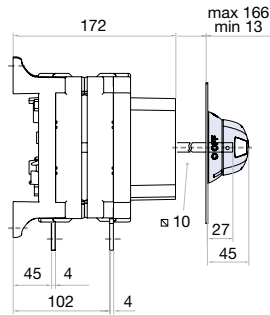
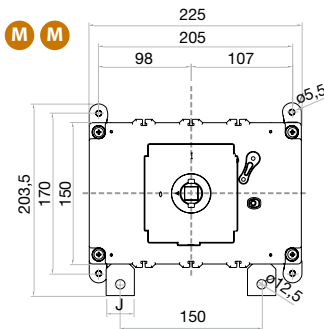
Type 1		
L (mm)	P (mm)	CODE
375	179... 398,5	DS-EP14

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



Door drilling for external handle

Dimensions (mm)



	J	S			M	
		S max (Cu) mm <sup>2</sup>	H max (Cu) mm	L max (Cu) mm	T	Nxm
315 A	25	185	7	25	M10	18
400 A	30	240	7	35	M10	18