

DC Disconnectors - ISOLATION ONLY 1500 Vdc

DC disconnectors with high level of insulation and safety, available in different construction models, with a wide range of currents and variety of accessories

series
S5-S6

According to:
IEC 60947- 1 & 3
UL98
RoHS



Testing and approvals:



Main advantages

Modular and flexible solution

Multi-circuit switching (from 1 up to 8 circuits can be isolated with only one handle), a great solution for recombinaer and inverter applications

Single or dual polarity switching, for grounded or floating networks

Wide range of accessories, including additional safety devices like:

Auxiliary contacts (late close, early break)

Padlockable handle

Lock device by electric coil

Optimized dimensions and weight,
To reduce the cost and the environmental impact

Easy to install
Time saving

Customised solutions
For specific OEM applications

Motorised control
For remote or automatic operation

Suitable for isolation (disconnecter)
As per IEC 60947-3

The range

	Amp.	Size	Code	Diagram	Direct handle	External handle	Bridging links ^{*(p2)}
	1 Pole 160	1	S6-01601VS0P38	1V	DS-SI11T	DS-SA14T	*
	1 Pole 200	1	S6-02001VS0P38	1V	DS-SI11T	DS-SA14T	*
	1 Pole 250	1	S6-02501VS0P38	1V	DS-SI11T	DS-SA14T	*
	1 Pole 400	1	S6-04001VD0P38	1V	DS-SI11T	DS-SA14T	*
	1 Pole 630	2	S6-06301VS0P38	1V	DS-LI21T	DS-LA24T	*
	1 Pole 800	1	S5-04003ZC0P38	3Z	DS-SI11T	DS-SA14T	DS-PI1G
	1 Pole 1000	1	S5-04004ZC0P38	4Z	DS-SI11T	DS-SA14T	DS-PI1H
	1 Pole 1600	2	S5-08004ZC0P38	4Z	DS-LI21T	DS-LA24T	DS-PI2H
	1 Pole 2000	3	S5-12504ZC0P38	4Z	DS-LI31T	DS-LA33T	DS-PI3H
	Amp.	Size	Code	Diagram	Direct handle	External handle	Bridging links ^{*(p2)}
	2 Poles 160	1	S6-01602LS0P38	2L	DS-SI11T	DS-SA14T	*
	2 Poles 200	1	S6-02002LS0P38	2L	DS-SI11T	DS-SA14T	*
	2 Poles 250	1	S6-02502LS0P38	2L	DS-SI11T	DS-SA14T	*
	2 Poles 400	1	S6-04002LD0P38	2L	DS-SI11T	DS-SA14T	*
	2 Poles 630	2	S6-06302LS0P38	2L	DS-LI21T	DS-LA24T	*
	2 Poles 800	2	S6-08002LD0P38	2L	DS-LI21T	DS-LA24T	*
	2 Poles 1600	3	S5-12504ZC0P38	2Z	DS-LI31T	DS-LA33T	DS-PI3L x 2
	2 Poles 2500	4	S5-16004ZS0P38	2Z	DS-LI41T	DS-LA43T	DS-PI4K x 2
	2 Poles 3150	4	S5-18004ZS0P38	2Z	DS-LI41T	DS-LA43T	DS-PI4K x 2

^{*(p2)} To comply with the operation and electrical features, the bridging links must be assembled to the switch. Please consult.

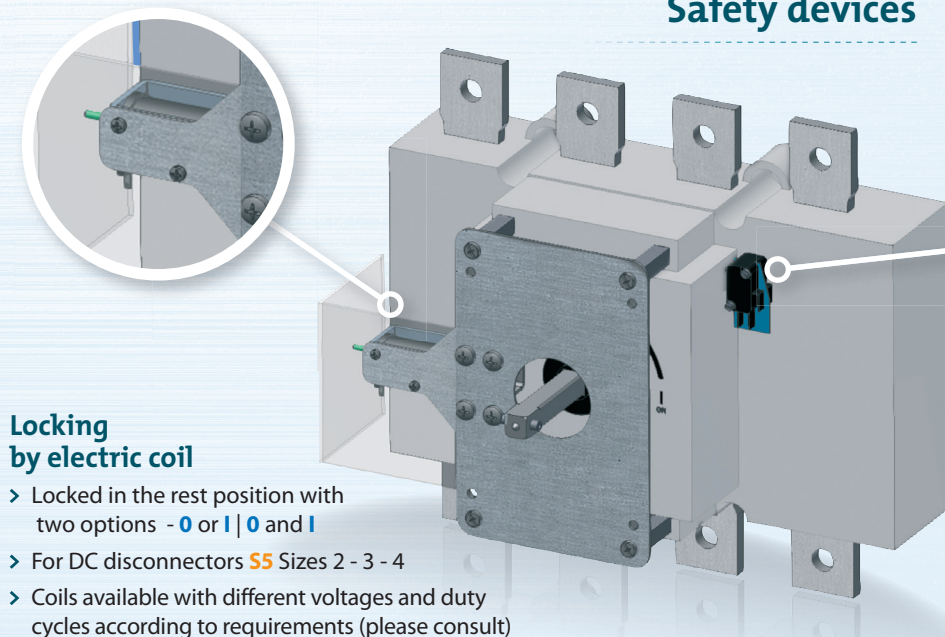


Functional and ergonomic handle

- > Good grip and excellent torque/resistance balance
- > Padlockable handle in **O OFF** position (up to three locks Ø 5-8 mm)
- > Door interlock in **ON I** position
- > When lock in **O OFF** position, door is interlocked
- > Possibility of unlocking the door 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



Safety devices



Locking by electric coil

- > Locked in the rest position with two options - **O** or **I | O** and **I**
- > For DC disconnectors **S5** Sizes 2 - 3 - 4
- > Coils available with different voltages and duty cycles according to requirements (please consult)

Signaling and control by auxiliary contacts According to IEC 60947-1 section 7.1.7.2

- > 1NO + 1 NC (up to two micros can be installed)
- > In the closing operation, switching after the main contacts
- > In the opening operation, switching before the main contacts
- > Ie= 16 (4) A (250 V)

The DC Disconnectors in their 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 con-

tacts, 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 DC Disconnectors S6 DC do not require external bridging links.

DISCONNECTORS ISOLATION ONLY | QUICK SELECTION GUIDE



1P



S5 DC
S6 DC

Disconnectors 1 pole (160 - 2000A) (O-I) ISOLATION ONLY

Manual handle
ISOLATION ONLY

Shaft extensions ^{*(3)}

Bridging links ^{*(p1)}

Auxiliary contacts ^{*(4)}

Phase barriers

Spacers
(4 units)

Terminal
protection ^{*(5)}

Terminal shrouds
^{*(5)}



S5 DC
ISOLATION ONLY

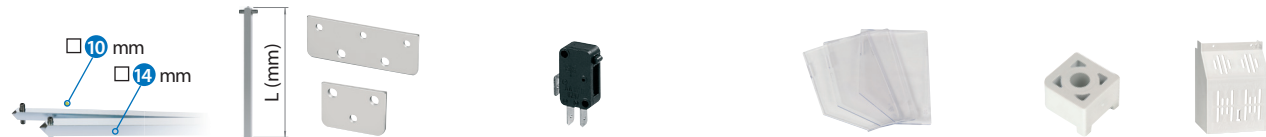


S6 DC
ISOLATION ONLY

1P ^{*(p1)}	Rated operational voltage	Rated operational current I _e (A)	Size	Connection	Unipolar (1P) ^{*(p1)}		External ^{*(1)}	Direct	Size		Type 1 & 2		Code	1NO+1NC	2NO+2NC	1 unit	2 units	Code	Code	Code
	U _e				Code	Diagram	Code	Code			L	Code		Code	Code	Code	Code			
1500V DC20A		160	1		S6-01601VS0P38	1V	DS-SA11T	DS-SI11T	1	10	375	DS-EP14	-	D5LAU01	D5LAU02	DR-SF11	DR-SF12	DR-EL11	-	DR-CU11
		200			S6-02001VS0P38	1V					536	DS-EP15								
		250			S6-02501VS0P38	1V														
		400			S6-04001VD0P38	1V														
		800	1		S5-04003ZC0P38	3Z	DS-SA11T	DS-SI11T	1	10	375	DS-EP14	DS-P11G DS-P11H	D5LAU01	D5LAU02	-	-	-	DS-CU12	-
		1000			S5-04004ZC0P38	4Z					536	DS-EP15								
		630	2		S6-06301VS0P38	1V	DS-LA21T	DS-LI21T	2	14	345	DS-EP23	-	D5LAU01	D5LAU02	DR-SF21	DR-SF22	DR-EL21	-	DR-CU21
		1600			S5-08004ZC0P38	4Z					535	DS-EP24								
		2000	3		S5-12504ZC0P38	4Z	DS-LA31T	DS-LI31T	3	14	345 535	DS-EP23 DS-EP24	DS-PI3H	D5LAU01	D5LAU02	-	-	-	-	-



2P



S5 DC
S6 DC

Disconnectors 2 poles (160 - 3150A) (O-I) ISOLATION ONLY

Manual handle
ISOLATION ONLY

Shaft extensions ^{*(3)}

Bridging links ^{*(p1)}

Auxiliary contacts ^{*(4)}

Phase barriers

Spacers
(4 units)

Terminal
protection ^{*(5)}

Terminal shrouds
^{*(5)}



S5 DC
ISOLATION ONLY



S6 DC
ISOLATION ONLY

2P ^{*(p1)}	Rated operational voltage	Rated operational current I _e (A)	Size	Connection	Bipolar (2P) ^{*(p1)}		External ^{*(1)}	Direct	Size		Type 1 & 2		Code	1NO+1NC	2NO+2NC	1 unit	2 units	Code	Code
	U _e				Code	Diagram	Code	Code			L	Code		Code	Code	Code	Code		
1500V DC20A		160	1		S6-01602LS0P38	2L	DS-SA11T	DS-SI11T	1	10	375	DS-EP14	-	D5LAU01	D5LAU02	DR-SF11	DR-SF12	DR-EL11	DR-CU11
		200			S6-02002LS0P38	2L					536	DS-EP15							
		250			S6-02502LS0P38	2L													
		400			S6-04002LD0P38	2L													
		630	2		S6-06302LS0P38	2L	DS-LA21T	DS-LI21T	2	14	345	DS-EP23	-	D5LAU01	D5LAU02	DR-SF21	DR-SF22	DR-EL21	DR-CU21
		800			S6-08002LD0P38	2L					535	DS-EP24							
		1600	3		S5-12504ZC0P38	2Z	DS-LA31T	DS-LI31T	3	14	345 535	DS-EP23 DS-EP24	DS-PI3L x 2	D5LAU01	D5LAU02	-	-	-	-
		2500 3150	4		S5-16004ZS0P38 S5-18004ZS0P38	2Z 2Z	DS-LA41T	DS-LI41T	4	14	485 635	DS-EP44 DS-EP45	DS-PI4K x 2	D5LAU01	D5LAU02	-	-	-	-



^{*(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)} Other configurations are available, please consult.

^{*(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.

^{*(3)} A standard shaft is included with the external handle.

^{*(4)} To be used as signalling or control contacts - I_e = 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.

^{*(5)} One unit for input or output.