

# DC switch-disconnectors

Testing and approvals:     



All the DC series offer accurate specifications for photovoltaic applications, as well as a high level of insulation and safety.

**According to:**

IEC 60947-1&3 | UL508i\* | UL98B\* | RoHS  
\* under request

All of them present an easy assembly, which allows a faster installation, while the dimensions and weight are in all cases fully optimized.

## Ergonomic handle

with specific identification for the isolation only models



## S7 series

High performance switch-disconnector capable of reaching 500A - 1500 Vdc (750 Vdc per pole)

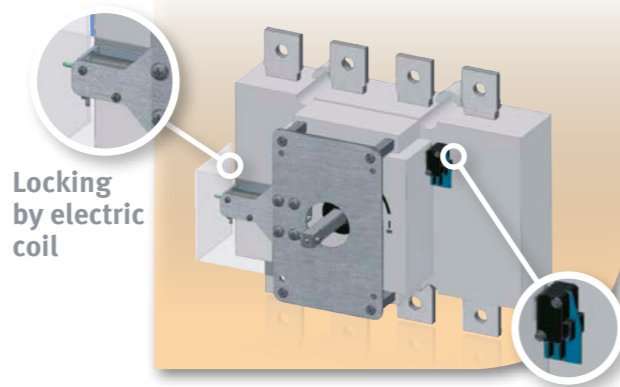


## Diverse sizes & models



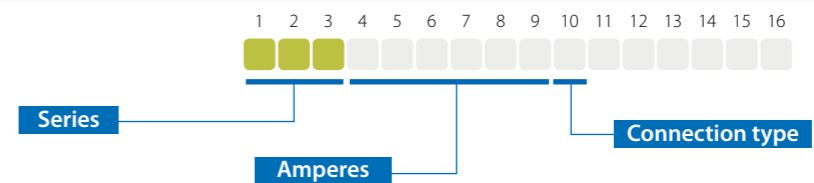
## Safety devices

Quick and easy installation



Locking by electric coil

Signaling and control by auxiliary contacts



## ZFC & ZFV series

U<sub>e</sub> MAX 1000 | 1500 Vdc I<sub>e</sub> MAX 65 A DC 21B.  
Modular switches and small design.  
Multi-string options (multi-MPP).

Base mounting by screws or DIN rail.  
Non polarized.

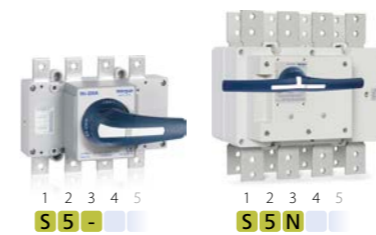


## S6 DC series

U<sub>e</sub> MAX 1000 Vdc I<sub>e</sub> MAX 630 A DC 21B.  
1P & 2P.

Different configurations input/output.  
Non polarized.

1000V DC



## S5 & S5N DC series

U<sub>e</sub> MAX 1000 Vdc I<sub>e</sub> MAX 3150 A DC 21B.  
4P.  
Non polarized.

**S5N:** Back to back arrangement with operating mechanism in front (4P +4P).  
From 2000A up to 3150A.

1000V DC



## S7 DC series

U<sub>e</sub> MAX 1500 Vdc I<sub>e</sub> MAX 500 A DC 21B pure 2P.  
Maximized electrical performance.

Easy to install and maintain.

1500V DC



## S5M series

U<sub>e</sub> MAX 1500 Vdc I<sub>e</sub> MAX 1800A DC 21B.  
4P+4P.

Back to back with operating mechanism in side.

1500V DC

1000V DC



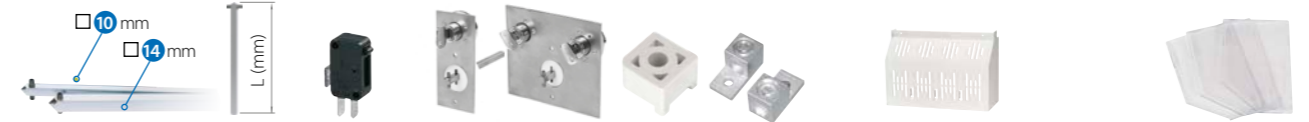
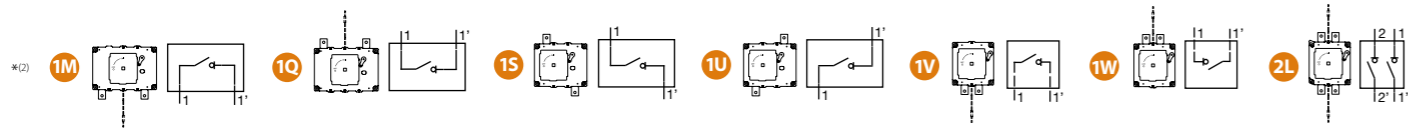
### DC switch-disconnectors

#### S6 DC SERIES | SWITCHES | 1P & 2P | 125A-630A

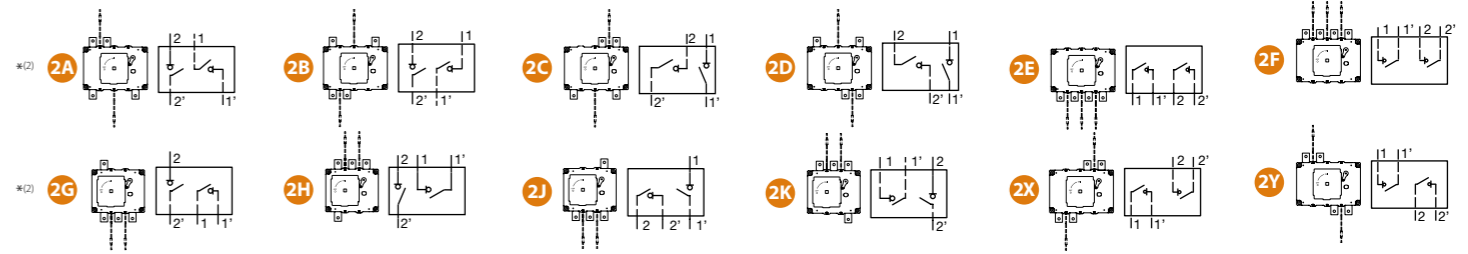


1P 2P *(2)	Rated operational voltage Ue	Rated operational current Ie (A)	Size	Connection	Diagram *(2)	Manual handle	
						External*(1) Code	Direct Code
					Code		
500V - 750V - 1000V DC21B			1		S6-0125_S0	DS-SA11	DS-SI11
					S6-0160_S0		
					S6-0200_S0		
					S6-0250_S0		
					S6-0315_S0		
					S6-0400_D0		
					S6-0500_S0		
500V - 750V - 1000V DC21B		250	2		S6-0630_S0	DS-LA21	DS-LI21
					S6-0250_S00L*		
		400	2		S6-0400_S00L*	DS-LA21	-

\*References only UL.



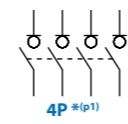
Size	Shaft extensions *(3) L (mm)	Auxiliary contacts *(5)		Safety key lock device *(6)		Spacers (4 units) Code	Terminal lug (2 units) Code	Terminal shrouds (1 unit) *(4)			Phase barriers					
		Type 1 & 2 Code *(e1)	1NO+1NC Code	2NO+2NC Code	Simple Code *(e1)			Double Code *(e1)	Code	Code	Code	1 unit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



#### S5 & S5N SERIES | SWITCHES | 4P | 850A-3150A



4P *(p1)	Rated operational voltage Ue	Rated operational current Ie (A)	Size	Connection	4 pole (4P) *(p1) Code	Manual handle	
						External*(1) Code	Direct Code
					Code		
1000V DC21B		850	3		S5-12504PC0	DS-LA31	DS-LI31
					S5-12502EC0		
					S5-18004PS0		
					S5-18002ES0		
					S5-20002ED0		
1000V DC21B		2000	4		S5N20002ES0	DS-LA41	DS-LI41
					S5N25002ES0		
					S5N31502ES0		
					S5N20002ED0		
4P + 4P *(p1)		2500	5 (S5N)		S5N25002ES0	DS-LA41	DS-LI41
					S5N31502ES0		



Size	Shaft extensions *(3) L (mm)	Bridging links *(p1)		Auxiliary contacts *(5)		Terminal protection		Terminal shrouds (2 units) *(4) Code		
		Type 1 & 2 Code *(e1)	Code	1NO+1NC Code	2NO+2NC Code	Connection	Code			
		L								
3	14	345	DS-EP23		DS-PI31	D5LAU01	D5LAU02	-	-	DS-CU30
		535	DS-EP24		DS-PI3D					DS-CU31
										DS-CU38
4	14	485	DS-EP44		DS-PI41 (S5-18004PS0)	D5LAU01	D5LAU02	-	-	DS-CU39
		635	DS-EP45		DS-PI4D (S5-18002ES0 - S5-20002ED0)					DS-CU40
										DS-CU41
5 (S5N)	-	-	-		DS-PI51 + D5LPC45	D5LAU01	D5LAU02	-	-	DS-CU48
		-	-		DS-PI51 + D5LPC45					DS-CU49
		-	-		DS-PI4D + D5LPC45 (x2)					

1500V DC



## DC switch-disconnectors

### ► S7 DC SERIES | HIGH-PERFORMANCE SWITCHES | 2P | 160A-500A



Rated operational voltage Ue	Rated operational current Ie (A)	Size	Connection	2P	
				Code	
1500 V DC21B	160	1		S7-01602PS0	
	200			S7-02002PS0	
	250			S7-02502PS0	
	315			S7-03152PS0	
	400			S7-04002PS0	
1500 V DC UL98B	500			S7-05002PS0	
	250			S7-02502PS00L*	
	320			S7-03202PS00L*	
	400			S7-04002PS00L*	
	500			S7-05002PS00L*	

\* References only UL.

\* For side operation, please consult.



### ► S5M & S5N SERIES | SWITCHES | 4P+4P | 630A-1800A

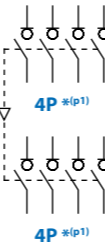


S5M DC

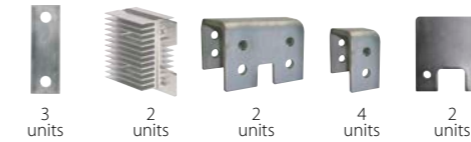


S5N DC

Rated operational voltage Ue	Rated operational current Ie (A)	Size	Connection	4P + 4P <sup>*(p1)</sup>	Manual handle	
					External <sup>*(1)</sup>	Direct
					Code	Code
1500V DC21B	630	2		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



Size	Manual handle		Auxiliary contacts <sup>*(5)</sup>		Captive Nut	Spacer Fixing Brackets
	External <sup>*(1)</sup>	Direct	1NO+1NC	2NO+2NC	Code <sup>*(e2)</sup>	2 units
	Code	Code	Code	Code		Code
1	DS-SA11	DS-SI11	DM-AU11	DM-AU12	-	DM-EL11
					DM-PT11	
					DM-PT12	
					-	
					-	



Size	Bridging links <sup>*(p1)</sup>		Auxiliary contacts <sup>*(2)</sup>			
	Code		1NO+1NC	2NO+2NC		
					Code	Code
2		DS-PI230L	DS-AU11	DS-AU12		
					DS-PI2D	
3		DS-PI3D	DS-AU11	DS-AU12		
4 (S5N)		DS-PI430U	D5LAU01	D5LAU02		
					DS-PI4D	

### ► ZFC DC & ZFV DC SERIES | SWITCHES | 2P | 16A-55A

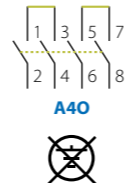


ZFC DC



ZFV DC

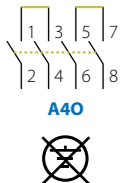
Rated operational voltage Ue	Rated operational current Ie (A)	Size	Connection	Code
1500V DC21B	16	00		ZFC16SMAH1A40
	25			ZFC25SMAH1A40
	32			ZFV32SMAH1A40
1500V DC21B / DC-PV1	40	00 (ZFV)		ZFV40SMAH1A40
	55			ZFV55SMAH1A40



### ► ZFC & ZFV DC SERIES | SWITCHES | 2P | 16A-55A



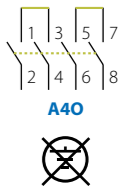
Rated operational voltage Ue	Rated operational current Ie (A)	Size	Connection	Code
1500V DC21B	16	00		ZFC16ZVH4A40
	25			ZFC25ZVH4A40
	32			ZFV32ZVH4A40
	40			ZFV40ZVH4A40
	55			ZFV55ZVH4A40



### ► ZFC - ZFV DC SERIES | SWITCHES | 2P | 16A-55A



Rated operational voltage Ue	Rated operational current Ie (A)	Size	Connection	Code
1000V DC21B	16	00		ZFC16PFLH4A40
	32			ZFV32PFLH4A40
	55			ZFV55PFLH4A40



<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 interlocked by a padlock in OFF 0 position.

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

For references S6N | 2P, S6R | 1P & 2P, please consult Commercial Department.

Please indicate in your order the switch code and the handle code, as these both products are managed separately.

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

Whilst closing, it closes after the main contacts. Whilst opening, it opens 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 interlocked 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.

<sup>\*(e2)</sup> Only IEC.