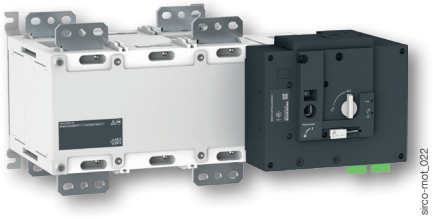
SIRCO MAN and MOT DC / DC ESS

Manual or motorized load break switches for DC applications

2000 A, up to 1500 VDC

SIRCO MAN DC / DC ESS
4 x 2000 A



SIRCO MOT DC / DC ESS
4 x 2000 A

The solution for

- Photovoltaic inverters and recombiner boxes (PV)
- Energy Storage System (ESS)
- Rail Infrastructure
- Marine Distribution and microgrids
- Data center

Strong points

- High performance switching
- Application tested design
- Reduced total cost of ownership

Conformity to standards

- UL 98B
- IEC 60947-3
- GB/T 14048.3

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Function

SIRCO MAN DC / DC ES are manually operated multipolar load break switches, while **SIRCO MOT DC / DC ESS** are motorized. Both switches make and break under load conditions and provide safety isolation for any low voltage circuit dedicated to DC applications up to 1500 VDC.

Advantages

High performance switching

SIRCO MOT DC and SIRCO MOT DC ESS motorized load break switches incorporate patented technology, providing a breaking capacity at 1500 VDC with just 2 poles, significantly limiting power dissipation.

Application tested design

Designed and tested for several DC applications, with proven performance in the harshest of environments. The arc extinguishing system provides safe disconnection, rapid arc extinguishing and current interruption.

- Tested against high short circuit systems with and without fuse protection to ensure complete system protection above 210 kA.
- Proven against severe environmental factors including: “Annex Q level C according to IEC” salt spray tested, high temperature and altitude, humidity cycle tested.

Reduced total cost of ownership

Developed with user cost savings in mind, the product features improvements which ensure a lower total cost of ownership.

- Flexible wiring configurations allow for simple in and out wiring, and by not using series bridging bars, cost savings can be achieved.
- Compact solution with reduced footprint and weight improves sustainability with reduced packaging, transportation and installation costs.

General characteristics

- Up to 1500 VDC.
- Patented switching technology up to 1500 VDC in 2 poles.
- Remotely operated product (motor control) - SIRCO MOT only.
- 2 stable positions (I, 0).
- High short-circuit option available.

References

1500 VDC MANUAL

Rating (A) / Frame size	No. of poles No. of circuits	Switch body	Bridging bars for series or parallel pole connection(1)
2000 A / B7ds (UL)	-	27DC **4200**	1909 **0001**

1500 VDC MOTORIZED

Rating (A) / Frame size	No. of poles No. of circuits	Switch body	Bridging bars for series or parallel pole connection(1)
2000 A / B7ds (UL)	-	19DC **4200**	1909 **0001**

1500 VDC ESS MANUAL

Rating (A) / Frame size	No. of poles No. of circuits	Switch body	Bridging bars for series or parallel pole connection(1)
2000 A / B7ds (UL)	-	27ES **4200**	1909 **0001**

1500 VDC ESS MOTORIZED

Rating (A) / Frame size	No. of poles No. of circuits	Switch body	Bridging bars for series or parallel pole connection(1)
2000 A / B7ds (UL)	-	19ES **4200**	1909 **0001**

Accessories

Bridging bars

Use

The bridging bars will easily connect the poles in parallel, allowing the following configurations:
- Bottom/Bottom
- Top/Top

Connection diagrams:
see “Pole parallel connections”.

Rating (A) /Frame size	Number of poles of the device in parallel	Pack	Reference
2000 (UL) / B7ds (1)	2	1 piece	reference upon request

(1) UL B7ds requires 4 pcs

Auxiliary contact

Use

Pre-break and signalisation of position I:
1 to 2 NO/NC auxiliary contacts (1 as standard).
Low level auxiliary contacts: please consult us.

Connection to the control circuit

By 6.35 mm fast-on terminal.

Electrical characteristics

30 000 operations.

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Characteristics		Operating current I_e (A)			
Rating (A)	Nominal current (A)	250 VAC AC-13	400 VAC AC-13	24 VDC AC-13	48 VDC AC-13
2000	16	12	8	14	6

References

NO/NC changeover contact			
Frame size	Rating (A)	Contact(s)	Reference
B7ds	2000	2nd	1999 **1032**


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Accessories (continued)

2 position padlocking (I - 0)

Use

Enables padlocking in position I (product can be padlocked in position 0 as standard).
Factory fitted.

Frame size	Rating (A)	Reference
B7ds	2000	9599 **0004**

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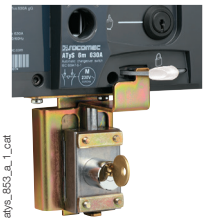
Key handle interlocking system (motorized version only)

Use

Motorized and manual operations can be locked in position 0 using a RONIS EL11AP lock.
Factory fitted.

As standard, locking in position 0.
Optional padlocking in 2 positions: Locking in position 0 and I.

Frame size	Rating (A)	Reference
B7ds	2000	9599 **1004**



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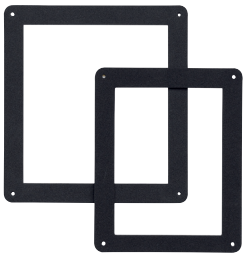
Door protective surround (motorized version only)

Use

When direct access to the SIRCO MOT front face (mode selection, manual operation, display…) is required, the door surround can be utilised to provide a clean and safe finish to the panel's cut-out.

Frame size	Rating (A)	Reference
B7ds	2000	1529 **0080**



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Characteristics according to UL 98B and IEC 60947-3

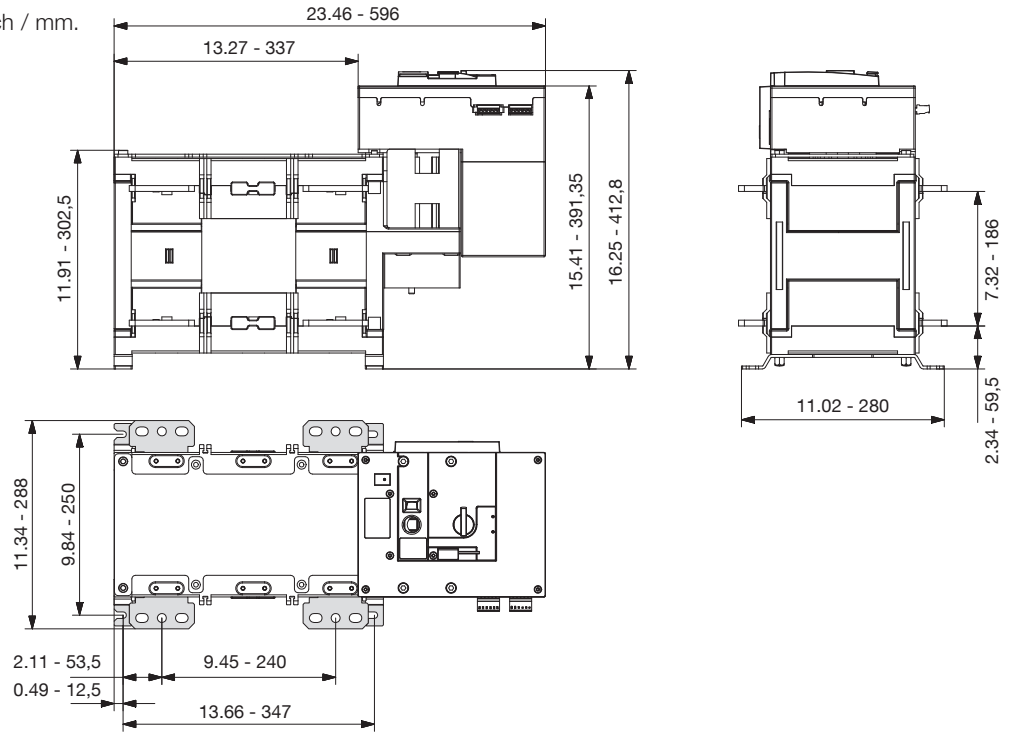
2000 A at 1500 VDC (B7ds UL)

Thermal current Ith at 104°F*			**2000**
Rated voltage	**Utilization category**	**Ambient temperature (°F)**	**(A)**
1500 VDC	UL 98B	104	2000
** for higher ambient temperature values, consult us*			
Short circuit capacity			
Prospective short-circuit current (kA)	UL 98B	-	10
Short circuit capacity (ESS range)			
Rated conditional short-circuit current I_q (kA)	IEC 60947-3, GB/T 14048.3	-	210

Dimensions

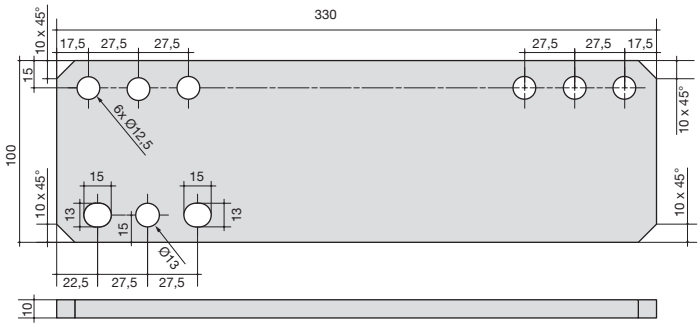
2000 A / B7ds / 1500 VDC

Dimensions in inch / mm.

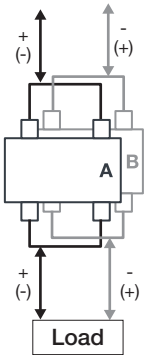


2000 A (1500 V) - UL

Dimensions in inch / mm.



2 + 2 Pole (4 Pole) connections



One circuit up to 2000 A (UL)