Motorized Load Break Disconnect Switches for DC applications 2000 A up to 1500 VDC



SIRCO MOT DC 2000 A

Function

SIRCO MOT DC and SIRCO MOT DC ESS are remotely operated multipolar load break switches. They 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 (-4°F to +122°F) 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
- One design for both UL and IEC products providing the same base design for customers with UL or IEC machines.
- Compact solution with reduced footprint and weight improves sustainability with reduced packaging, transportation and installation costs.

General characteristics

- Up to 1500 VDC, 2000 A.
- Patented switching technology up to 1500 VDC in 2 poles.
- Remotely operated product (motor control).
- 2 stable positions (I, 0).
- High short-circuit option available.

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 Guide WHVA File E346418
- > IEC 606947-3 GB/T 14048.3





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Accessories

Bridging bars

Use

The bridging bars will easily connect the poles in parallel, allowing the following configurations:

Connection diagrams: see "Pole parallel connections".

- Bottom/Bottom
- Top/Top

Rating (A) /Frame size	Number of poles of the device in parallel	Pack	Reference
2000 (UL) / B7ds (1)	2	1 piece	draw ing 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 0.25in fast-on terminal. Electrical characteristics 30 000 operations.

Characteristics

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	



ses_065_a_1_cat

References

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



OSR a 1 cat

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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Accessories (continued)

Key handle interlocking system

Use

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

Rating (A)

2000

Factory fitted.

Frame size

B7ds

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

king in position 0 and I.		110.	a_1_cat	
	Reference		853	1 1 16
	0500 1004		s,	1



Door protective surround

Use

When direct access to the SIRCO MOT front face (mode selection, manual operation, display, etc. 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



ys_595_a_2_cat

Characteristics according to UL 98B and IEC 60947-3

2000A at 1500 VDC (B7ds UL)

Thermal current I _{th} 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)

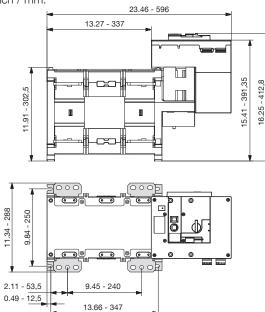
Rated conditional short-circuit current I_q (kA)	IEC 60947-3, GB/T 14048.3	-	210

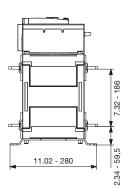
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Dimensions

2000 A / B7ds / 1500 VDC

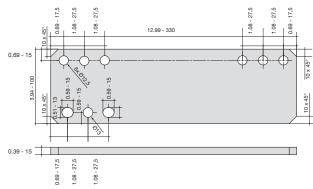
Dimensions in inch / mm.





2000 A (1500 V) - UL

Dimensions in inch / mm.



Pole connections 1500 VDC

2 + 2 Pole (4 Pole) connections

