



# INOSYS *LBS* UL 98B

Load Break Switches for DC & PV applications

from 100 to 600 A, up to 1500 VDC incorporating tripping function

Load break switches



inosy\_120\_a.psd

**INOSYS LBS**  
2-poles with tripping function



inosy\_082\_a.psd

**INOSYS LBS**  
2-poles without tripping function

## The solution for

- > Disconnection within PV installation
- > Battery protection
- > Rapid shutdown for firefighter safety
- > Isolation of DC processes

## Strong points

- > High-performance switching in a compact frame
- > Safe & reliable operation
- > Tripping function
- > Easy to install
- > Modular solution
- > Visible contact indication

## Conformity to standards

- > IEC 60947-3
- > UL 98B



Compatible with requirements:

- > IEC 60364-7-712
- > NEC art. 690



## Function

INOSYS LBS are load break switches which are available with integrated tripping function. They can be operated manually using the handle or remotely (via tripping coils) to disconnect part or all of the electrical installation.

They make and break under load conditions, provide safety isolation for any low voltage circuits up to 1500 VDC and are suitable for emergency switching.

## Advantages

### High-performance switching in a compact frame

INOSYS LBS switches integrate a patented technology that offers high switching capacity of 500 and 750 VDC per pole with optimum arc containment and significant power loss reduction - all within a compact device.

### Safe & reliable operation

- Reliable position indication through visible contacts.
- ON, OFF and TRIP positions are stable: resistant to voltage fluctuations.
- The trip position provides complete disconnection and isolation.
- The opening and closing of the switch is fully independent from the speed of operation, ensuring safe operation under all conditions.
- High temperature withstand: no derating up to 55 °C (131° F).

### Tripping function: flexible and robust

- Fully immune to external disturbances: no nuisance tripping.
- Shunt-trip or undervoltage release from 24 to 220 VDC and from 24 to 230 VAC.
- Wide operating temperature range: -15 to +122 °F (-25 to +50 °C).
- Fast disconnection (<50 ms) for rapid firefighter shutdown, compliant with installation standards.
- Compatible with virtually any Arc-Fault Detection System.

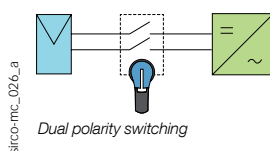
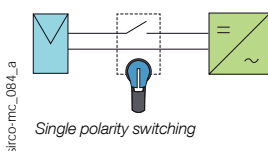
### Easy to install

- Mechanism can be centred or left aligned (in the factory) to accommodate installation requirements.
- Wiring: as the switch is non-polarised all types of wiring and connections are possible.
- Easy access without tools to integrate auxiliary contacts and tripping coil (both located within the switch footprint).

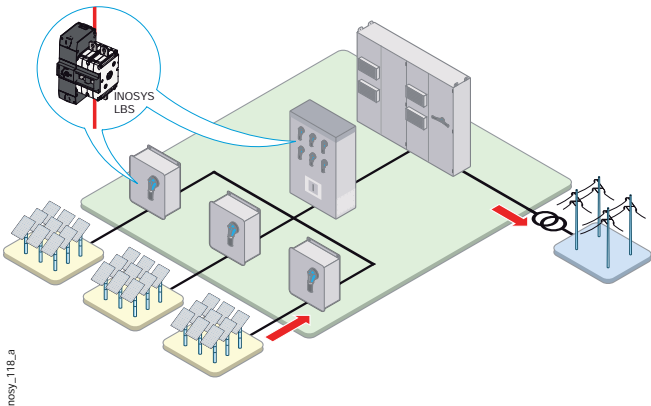
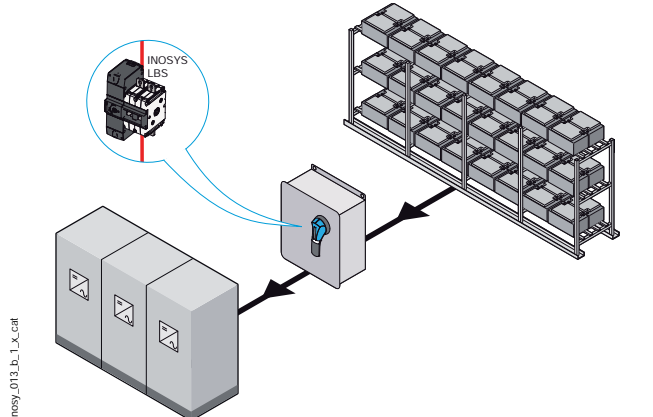
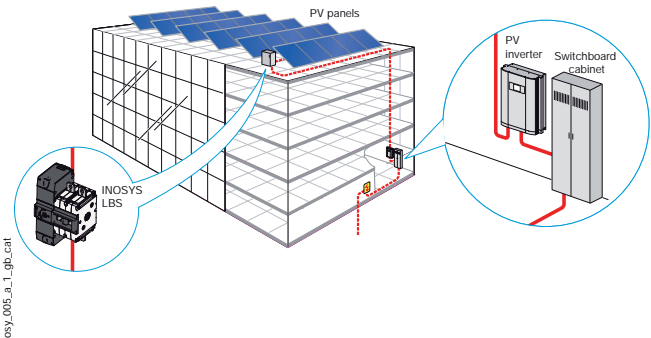
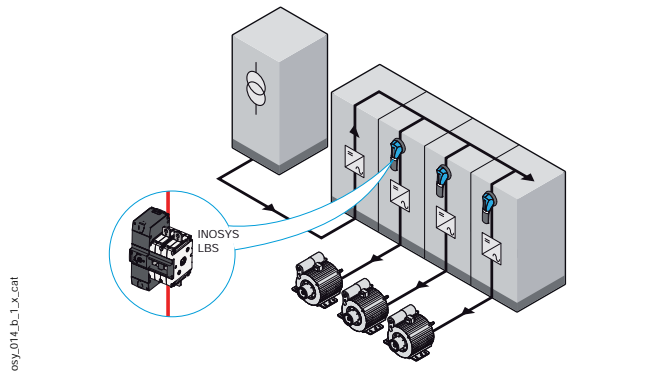
## Modular solution for a flexible configuration

- Single or dual polarity switching



The same switch can be used for installation with either grounded or floating networks by choosing the wiring configuration.



Typical applications: local and remote safe disconnection for DC and PV applications

<p><b>PV installation: Combiner box, Recombiner box or Inverter</b></p>  <p><small>inosy_118_a</small></p>	<p><b>Battery protection</b></p>  <p><small>inosy_013_b_1_x_cat</small></p>
<p><b>Rapid shutdown for firefighter safety (compliant with installation standards, incl. NEC 2014)</b></p>  <p><small>inosy_005_a_1_gb_cat</small></p>	<p><b>Isolation of DC processes</b></p>  <p><small>inosy_014_b_1_x_cat</small></p>

The SOCOMEC solutions

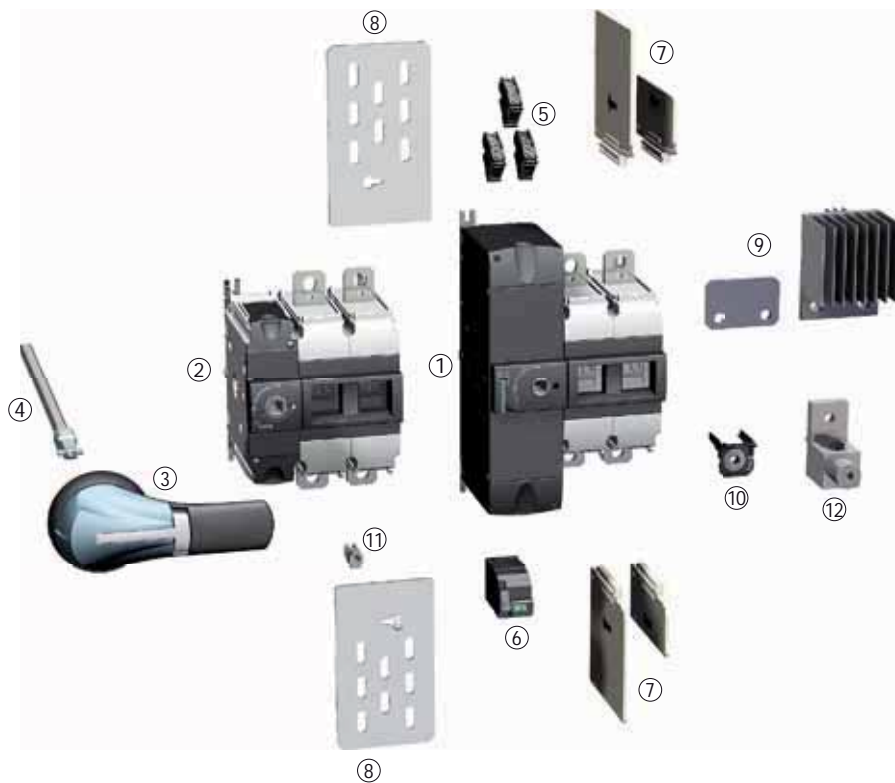
<p><b>SIRCO PV</b>  <b>Manual operation PV switches</b></p>  <p><small>sirco-pv_059 - 060 - 061_a</small></p> <p>up to 3200 A at 1000 VDC          up to 2000 A at 1500 VDC          up to 4 circuits</p>	<p><b>INOSYS LBS</b>  <b>Up to 1500 VDC with visible contact indication - with or without tripping function</b></p>  <p><small>inosy_120_a - inosy_082_a</small></p> <p>up to 600 A at 1000 VDC          up to 400 A at 1500 VDC</p>
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## Overview



1. INOSYS LBS 400 A - 1000 VDC with tripping function
2. INOSYS LBS 400 A - 1500 VDC without tripping function
3. Door interlocked external operation handle
4. Shaft for external handle
5. Auxiliary contact
6. Tripping coil
7. Inter-phase barrier (shipped with the switches)
8. Terminal screens
9. Bridging bars for connecting poles in series
10. Captive nut
11. Holding insert
12. Terminal lugs

inosy\_058\_a\_1\_x\_catal

### References

#### INOSYS LBS with tripping function

##### 1000 VDC - 1 circuit

Rating (A)	Frame size	No. of poles per circuit	Switch body <sup>(1)</sup>	External operation	Tripping coil	Aux. Contact	Bridging Bar <sup>(2)</sup>
100 A	F2	2 P	85P0 2010	Shaft 320 mm 12.6 inches 1400 1032	Shunt trip coil	NO/NC 8499 0001	8409 0016
250 A	F2	2 P	85P0 2025	S2 type handle Black 3R,12 - 4,4X 742D 2118	24 V AC/DC 8499 7002 48 V AC/DC 8499 7004		
400 A	F3	2 P	85P0 2040	Shaft 320 mm 12.6 inches 1400 1032  S2L type handle Black 3R,12 - 4,4X 74AD 2118	Undervoltage releases 48 V AC 8499 8104		8409 0040
500 A	F3	2 P	85P0 2050		230 V AC 8499 8123 24 V DC 8499 8202		8409 0041
600 A	F3	2 P	85P0 2060		48 V DC 8499 8204		8409 0063

(1) The switches are supplied without accessories.

(2) For grounded network, single polarity switching.

##### 1500 VDC - 1 circuit

Rating (A)	Frame size	No. of poles per circuit	Switch body <sup>(1)</sup>	External operation	Tripping coil	Aux. Contact	Bridging Bar <sup>(2)</sup>
100 A	F2	3 P	85P0 3010	Shaft 320 mm 12.6 inches 1400 1032	Shunt trip coil	NO/NC 8499 0001	2 x 8409 0016
250 A	F2	3 P	85P0 3025	S2 type handle Black 3R,12 - 4,4X 742D 2118	24 V AC/DC 8499 7002 48 V AC/DC 8499 7004		2 x 8409 0025
400 A	F3	2 P	85P0 2041	Shaft 320 mm 12.6 inches 1400 1032  S2L type handle Black 3R,12 - 4,4X 74AD 2118	Undervoltage releases 48 V AC 8499 8104		8409 0040
500 A	F3	2 P	85P0 2051		230 V AC 8499 8123 24 V DC 8499 8202		8409 0041
					48 V DC 8499 8204		

(1) The switches are supplied without accessories.

(2) For grounded network, single polarity switching.

# INOSYS LBS UL 98B

Load Break Switches for DC & PV applications

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## References (continued)

### INOSYS LBS without tripping function

#### 1000 VDC - 1 circuit

Rating (A)	Frame size	No. of poles per circuit	Switch body <sup>(1)</sup>	External operation	Aux. Contact	Bridging Bar <sup>(2)</sup>
100 A	F2	2 P	87P0 2010	Shaft 320 mm 12.6 inches 1400 1032	NO/NC 8499 0001	8409 0016
250 A	F2	2 P	87P0 2025	S2 type handle Black 3R,12 - 4,4X 742D 2111		
400 A	F3	2 P	87P0 2040	Shaft 320 mm 12.6 inches 1400 1032		8409 0040
500 A	F3	2 P	87P0 2050	S2L type handle Black 3R,12 - 4,4X 14AD 2111		8409 0041

(1) The switches are supplied without accessories.

(2) For grounded network, single polarity switching.

#### 1500 VDC - 1 circuit

Rating (A)	Frame size	No. of poles per circuit	Switch body <sup>(1)</sup>	External operation	Aux. Contact	Bridging Bar <sup>(2)</sup>
250 A	F2	2 P	87P0 2026 <sup>(4)</sup>	Shaft 320 mm 12.6 inches 1400 1032	NO/NC 8499 0001	8409 0025
			87P1 1026 <sup>(3)(4)</sup>			8409 0024
		3 P	87P0 3025	S2 type handle Black 3R,12 - 4,4X 742D 2111		2 x 8409 0025
400 A	F3	2 P	87P0 2041	Shaft 320 mm 12.6 inches 1400 1032	NO/NC 8499 0001	8409 0040
			87P1 1041 <sup>(3)</sup>			8409 0039
500 A	F3	2 P	87P0 2051	S2L type handle Black 3R,12 - 4,4X 14AD 2111		NO/NC 8499 0001
			87P1 1051 <sup>(3)</sup>		8409 0039	

(1) The switches are supplied without accessories.

(2) For grounded network, single polarity switching.

(3) Centered mechanism.

(4) Available end of 2018.

## Accessories

### Door interlocked external operation handle

#### Use

Door interlocked external operation handles include an escutcheon and are padlockable. External handles must be utilised with an extension shaft.

#### Example

As the handle is interlocked in the "ON" position the operator must safely disconnect and isolate the circuit prior to accessing the panel for maintenance procedures.

Opening the door when the switch is in the "ON" position can only be done by defeating the interlocking function with the use of a dedicated tool (authorised persons only). The interlocking function is restored when the door is re-closed.



access\_150\_a\_1\_cat.eps

S2 type handle

#### For LBS with tripping function

Frame size	Handle type	Handle colour	Degree of protection	Front operation
				Reference
F2	S2	Black	3R,12	742F 2118
F2	S2	Black	4,4X	742D 2118
F2	S2	Red	4,4X	742E 2118
F3	S2L <sup>(1)</sup>	Black	3R,12	74AF 2118
F3	S2L <sup>(1)</sup>	Black	4,4X	74AD 2118
F3	S2L <sup>(1)</sup>	Red	4,4X	74AE 2118

(1) S2L handles have an extended grip; please refer to the dimensions section.

#### For LBS without tripping function

Frame size	Handle type	Handle colour	Degree of protection	Front operation	Lateral operation
				Reference	Reference
F2	S2	Black	3R,12	742F 2111	
F2	S2	Black	4,4X	742D 2111	142J 6111
F2	S2	Red	4,4X	742E 2111	
F3	S2L <sup>(1)</sup>	Black	3R,12	14AF 2111	
F3	S2L <sup>(1)</sup>	Black	4,4X	14AD 2111	14AJ 2111
F3	S2L <sup>(1)</sup>	Red	4,4X	14AE 2111	

(1) S2L handles have an extended grip; please refer to the dimensions section.

### Shaft for external handle

Frame size	Handle type	Length (mm)	Reference
F2 - F3	S2, S2L	200	1400 1020
F2 - F3	S2, S2L	320	1400 1032
F2 - F3	S2, S2L	400	1400 1040

Other lengths: please consult us.

Shaft for S2 and S2L type handle



access\_401\_a\_1\_cat

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## Auxiliary contact

### Use

The same auxiliary contact can be used to provide position and tripping information. The function of the auxiliary contact depends on where it is mounted on the mechanism.

### Characteristics

Changeover type: NO/NC,  
IP2X with front operation  
(cover tap screwed).  
10 000 operations.  
Maximum 3 per switch.

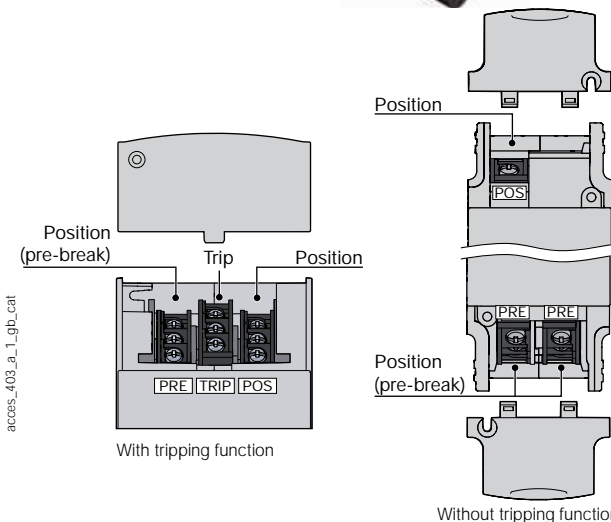
Frame size	Connection type	Type	Reference
F2 - F3	Screw	NO/NC standard	8499 0001
F2 - F3	Screw	NO/NC low level	8499 0002
F2 - F3	Screw	NC > 600 V	8499 0003

### Characteristics

Auxiliary contact type	Min. current (A)	I <sub>th</sub> (A)	Electrical characteristics per UL 60947-5-1
Standard	12.5 mA / 24 V	10	A300 - R300 - Q150
Low level	1 mA / 4 V	10	A300 - R300 - Q150
> 600 V	10 mA / 24 V	10	A600



access\_402\_a\_1\_cat



access\_403\_a\_1\_gb\_cat

access\_403\_a\_1\_gb\_cat

## Tripping coil

### Use

Allows remote activation of the switch's tripping mechanism. Shunt trip and undervoltage release coils are available.

Connection: 1.5 mm<sup>2</sup>, push in type.

Maximum one tripping coil per switch.

Safe and easy coil replacement by using standard tools.



Shunt trip coil

access\_404\_a\_1\_cat

### Shunt trip coil

Frame size	Voltage (V)	Reference
F2 - F3	24 V AC/DC	8499 7002
F2 - F3	48 V AC/DC	8499 7004
F2 - F3	110 - 120 VAC	8499 8111
F2 - F3	110 - 127 VAC ; 110 - 125 VDC	8499 7011
F2 - F3	230 V AC/DC	8499 7023

Other voltage ratings available, please consult us.

### Characteristics

#### Shunt trip coils

AC type (±10%)	24 VAC	48 VAC	110 VAC	230 VAC
Inrush consumption (A); <10ms	6.85	2.95	1.25	0.73
DC type (-5% ... +20%)	24 VDC	48 VDC	110 VDC	230 VDC
Inrush consumption (A); <10ms	7.6	3.28	1.39	0.78

Max supply time 2 s.

Example to avoid permanent supply includes connection of auxiliary contact connected in series with shunt trip coil, or coil supply voltage to be taken from the load side, or electronic limitation of the duration of the supply voltage/current.

For DC shunt trip coil rated above 70 VDC, external relay shall be used to disconnect the coil.

### Undervoltage release

Frame size	Voltage (V)	Reference
F2 - F3	48 VAC	8499 8104
F2 - F3	230 - 240 VAC	8499 8123
F2 - F3	24 VDC	8499 8202
F2 - F3	48 VDC	8499 8204

Other voltage ratings available, please consult us.

### Undervoltage release

AC type	24 VAC	48 VAC	110 VAC	230 VAC
Max permanent consumption (VA), at 110% U <sub>n</sub>	-	1.8	1.4	1.5
DC type	24 VDC	48 VDC	110 VDC	230 VDC
Max permanent consumption (VA), at 110% U <sub>n</sub>	1.6	1.4	-	-

Holding: up to 85% x U<sub>n</sub>

Release: < 35 to 70% x U<sub>n</sub>

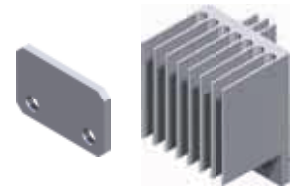
### Accessories (continued)

#### Bridging bar for poles in series

##### Use

The bridging bars enable the poles to be connected in series, allowing the following configurations for 1500 VDC.

Connection diagrams, see "Pole series connection" page 15.



acce\_410\_a\_1\_cat acce\_411\_a\_1\_cat

##### 1000 VDC - 1 circuit

Frame size	Rating (A)	No. of poles	Quantity to be ordered	Reference
F2	100	2 P	1	8409 0016
F2	250	2 P	1	8409 0016
F3	400	2 P	1	8409 0040
F3	500	2 P	1	8409 0041
F3	600	2 P	1	8409 0063

##### 1500 VDC - 1 circuit

Frame size	Rating (A)	No. of poles	Quantity to be ordered	Reference
F2	100	3 P	2	8409 0016
F2	100 ... 250	2 P	1	8409 0024 <sup>(1)</sup>
F2	250	3 P	2	8409 0025
F3	400 ... 500	2 P	1	8409 0039 <sup>(1)</sup>
F3	400	2 P	1	8409 0040
F3	500	2 P	1	8409 0041

<sup>(1)</sup> Centered mechanism.

#### Terminal screen

##### Use

Provides top and bottom protection against direct contact with terminals or connection parts.

##### Advantages

Perforations for thermographic inspection. Mounting requires holding inserts (supplied with the terminal screens).



acces\_408\_a\_1\_cat

Frame size	No. of poles	Position	Reference <sup>(1)</sup>
F2	2 P	Top and bottom	8499 3222
F2	3 P	Top and bottom	8499 3232
F3	2 P	Top and bottom	8499 3322

<sup>(1)</sup> Each reference comprises 2 terminal screens for top and bottom protection.

#### Holding insert

##### Use

Used to secure terminal shrouds / inter-phase barriers on the switch.

Frame size	Pack (unit)	Reference
F2 - F3	10	8499 6220
F2 - F3	100	8499 6221



acces\_409\_a\_1\_cat



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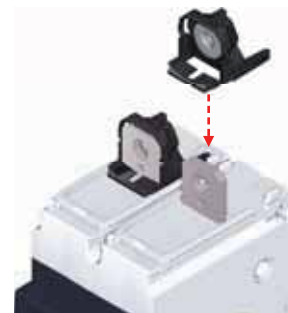
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## Captive nut

### Use

This accessory enables simple one-handed connection to the power terminals. It can be mounted on either side of the terminal for front or rear connection.



acce\_399\_a\_1\_cat

Frame size	Pack (unit)	Reference
F2	12	8499 6120
F2	120	8499 6121
F3	12	8499 6130
F3	120	8499 6131

## Voltage tap

### Use

Allows connection of voltage sensing or power cables, with fast-on connection.



acce\_412\_a\_1\_cat

Frame size	Pack (unit)	Reference
F2	12	8499 9012
F3	12	8499 9013

## Terminal lugs



Version	Frame size	Number and size (min. - max.) of cables	Type of cable	Openings per lug	Quantity per reference	Dimension "Y" (mm/in)	Type	Reference <sup>(1)</sup>
With tripping function only	F2	1 conductor (#6 - 300 KCMIL)	Cu / Al	1	2	33,4 / 1.31	CMC LA300-R	3954 2020
	F2		Cu / Al		3			3954 3020
	F2		Cu / Al		4			3954 4020
	F2		Cu / Al		6			3954 6020
With and without tripping function	F2	2 conductors (#12 - 2/0)	Cu / Al	2	2	32,5 / 1.29	IHI 2S2-0-TP-STK-34-49-HEX	3954 2023 <sup>(2)</sup>
	F2		Cu / Al		3			3954 3023 <sup>(2)</sup>
	F2		Cu / Al		4			3954 4023 <sup>(2)</sup>
With tripping function only	F3	1 conductor (#4 - 600 KCMIL) 2 conductors (#1/0 - 250 KCMIL)	Cu / Al	1 2	2	45,7 / 1.79	CMC LA630-R	3954 2040 <sup>(2)</sup>
	F3		Cu / Al		3			3954 3040 <sup>(2)</sup>
	F3		Cu / Al		4			3954 4040 <sup>(2)</sup>
With and without tripping function	F3	2 conductors (#2 - 600 KCMIL)	Cu / Al	2	2	69,7 / 2.74	CMC PV2-600	3954 2060 <sup>(2)</sup>
	F3		Cu / Al		3			3954 3060 <sup>(2)</sup>
	F3		Cu / Al		4			3954 4060 <sup>(2)</sup>

(1) Interphase barriers must be installed on the products.

(2) Captive nut 84996xxx is mandatory.

## Characteristics

### Characteristics according to UL 98B

Rated current I <sub>n</sub>	100 A	250 A	400 A	500 A	600 A
Frame size	F2	F2	F3	F3	F3
Number of pole(s) in series per polarity - 1000 VDC	2 P	2 P	2 P	2 P	2 P
Number of pole(s) in series per polarity - 1500 VDC	3 P	3 P	2 P	2 P	-
Number of pole(s) of the device - 1000 VDC	2 P	2 P	2 P	2 P	2 P
Number of pole(s) of the device - 1500 VDC	3 P	3 P	2 P	2 P	-
<b>Short-circuit capacity at 1000 &amp; 1500VDC (any circuit breaker)</b>					
Prospective short-circuit current (kA rms DC)	10 <sup>(1)</sup>	10 <sup>(1)</sup>	10 <sup>(1)</sup>	10 <sup>(1)</sup>	10 <sup>(1)</sup>
<b>Mechanical characteristics</b>					
Durability (number of operating cycles)	10 000	10 000	8 000 / 6 000 <sup>(2)</sup>	8 000 / 6 000 <sup>(2)</sup>	6 000 <sup>(2)</sup>
Number of tripping operations	1 000	1 000	1 000	1 000	1 000

(1) Without fuse during 50 ms.

(2) 8000 for LBS without tripping function and 6000 for LBS with tripping function.

### Characteristics according to IEC 60947-3

Rated current I <sub>n</sub>	160 A	250 A	400 A	630 A	800 A
Frame size	F2	F2	F3	F3	F3
Thermal current at 40°C (A)	160	250	400	630	800
Thermal current at 50°C (A)	160	250	400	630	760
Thermal current at 60°C (A)	160	250	400	570	685
Rated insulation voltage U <sub>i</sub> (V)	1500	1500	1500	1500	1500
Rated impulse withstand voltage U <sub>imp</sub> (kV)	12	12	12	12	12
<b>Number of circuits</b>	<b>Rated voltage</b>	<b>Utilisation category</b>	<b>I<sub>e</sub> (A)</b>	<b>I<sub>e</sub> (A)</b>	<b>I<sub>e</sub> (A)</b>
1 circuit	1000 VDC <sup>(1)</sup>	DC-21 B	160	250	400
1 circuit	1500 VDC <sup>(2)</sup>	DC-21 B	160	250	400
<b>Short-circuit capacity at 1000 &amp; 1500 VDC (without protection)</b>					
Rated short-time withstand current I <sub>cw</sub> 1s (kA eff.)	5	5	8	8	8
Rated short-circuit making capacity I <sub>cm</sub> (kA peak) - 60 ms	10	10	10	10	10
<b>Connection</b>					
Recommended Cu rigid cable cross-section (mm <sup>2</sup> ) <sup>(4)</sup>	70	120	240	2 x 185	2 x 240
Recommended Cu busbar width (mm) <sup>(4)</sup>	20	20	25	25	25
<b>Mechanical characteristics</b>					
Durability (number of operating cycles)	10000	10000	8000 / 6000 <sup>(5)</sup>	8000 / 6000 <sup>(5)</sup>	8000 / 6000 <sup>(5)</sup>
Number of tripping operations	1000	1000	1000	1000	1000

(1) 2 poles in series.

(2) 3 poles in series.

(3) Cu busbar.

(4) For aluminium connection, please consult us.

(5) 8000 for LBS without tripping function and 6000 for LBS with tripping function.

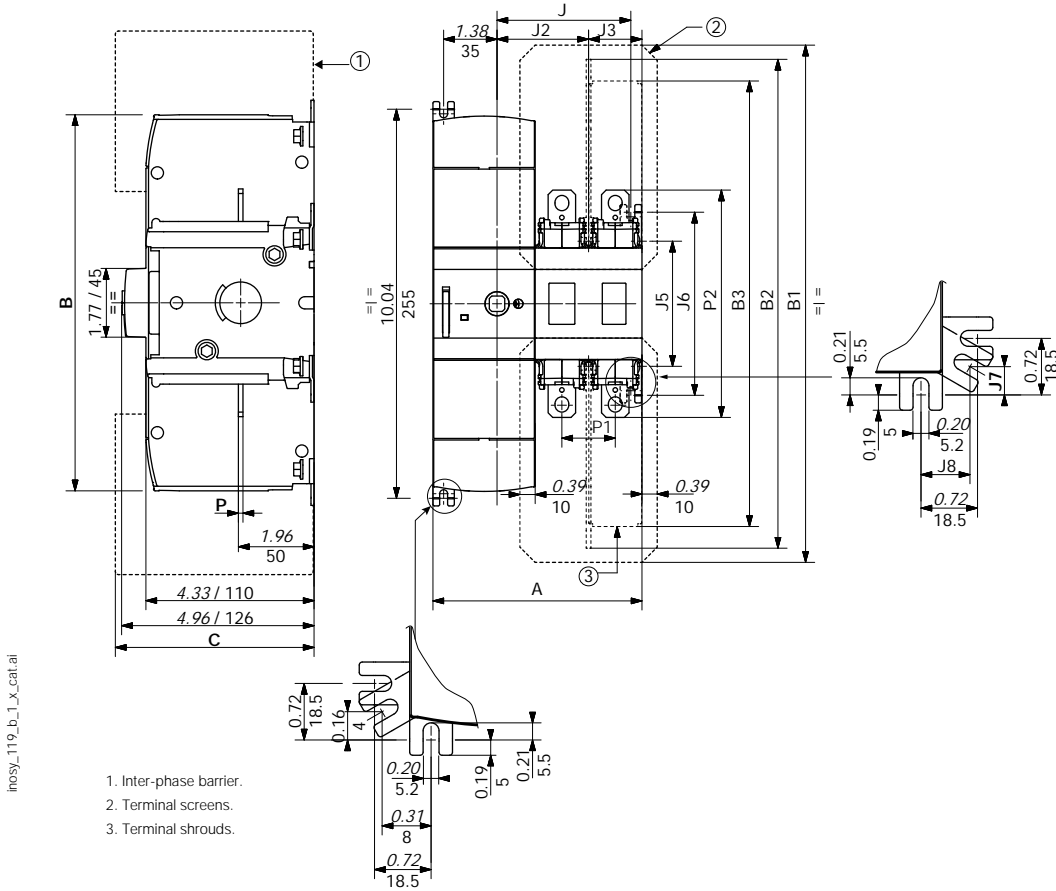
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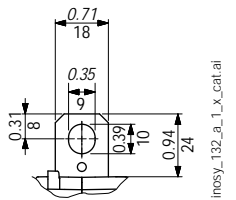
from 100 to 600 A, up to 1500 VDC incorporating tripping function

## Dimensions (in/mm)

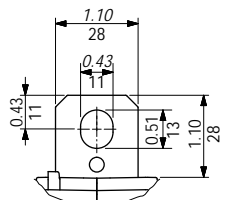
### INOSYS LBS with tripping function



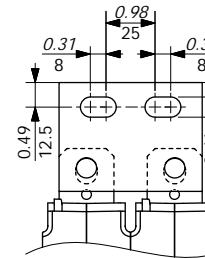
Connection terminal F2



Connection terminal F3



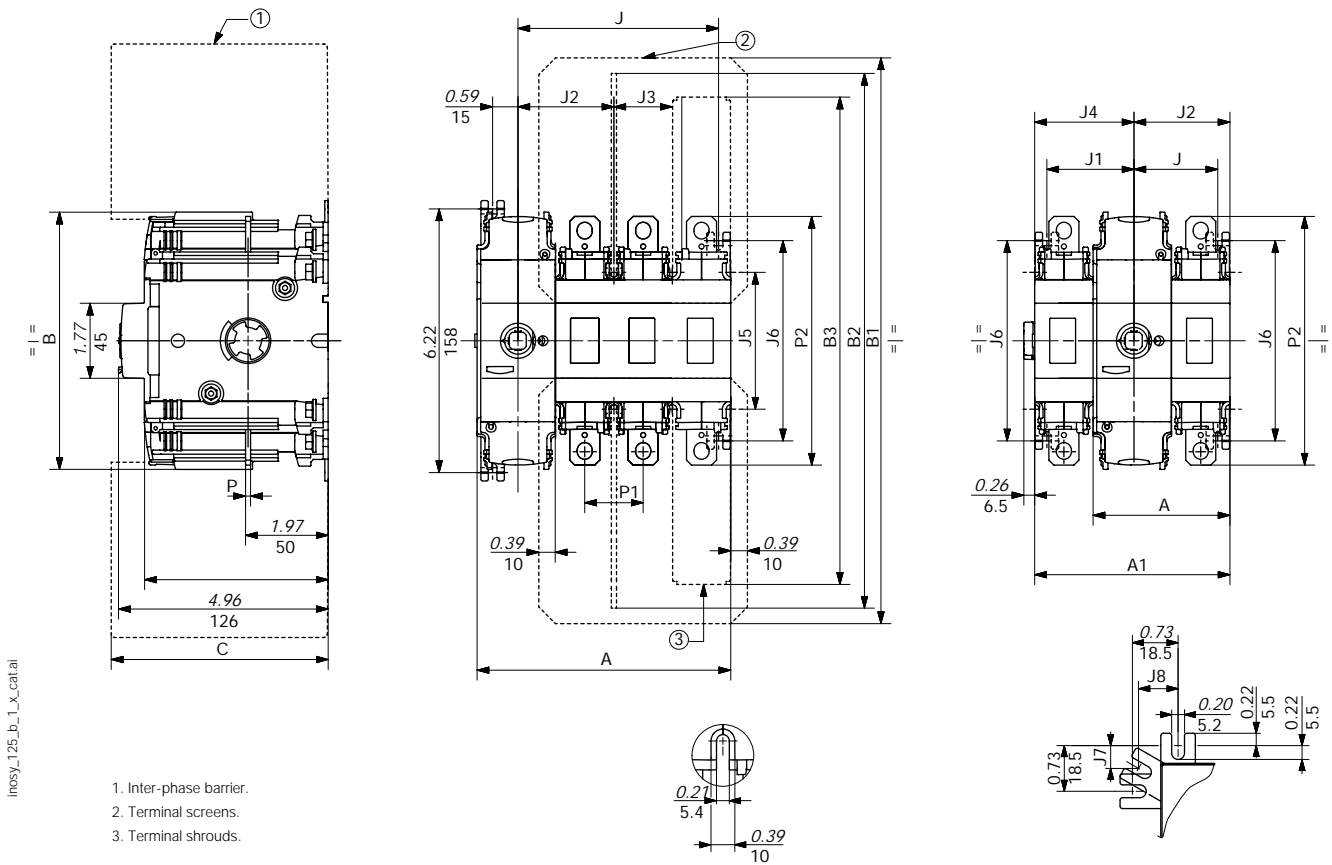
Parallel bridging F3



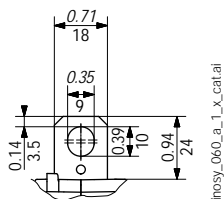
Rating (A)	Frame size	Units	A	
			2 P	3 P
100 ... 250	F2	in	5.39	6.77
		mm	137	172
400 ... 600	F3	in	6.18	-
		mm	157	-

Rating (A)	Frame size	Units	B	B1	B2	B3	C	J2	J3	J4	J5	J6	J7	J8	P	P1	P2
100 ... 250	F2	in	9.69	13.35	10.31	11.64	4.33	2.36	1.38	3.03	3.23	4.72	0.39	0.58	0.12	1.38	5.87
		mm	246	339	262	296	110	60	35	77	82	120	10	15	3	35	149
400 ... 600	F3	in	9.69	16.28	15.50	14.12	5.31	2.76	1.77	3.43	4.72	6.22	0.16	0.33	0.20	1.77	7.87
		mm	246	414	394	359	135	70	45	87	120	158	4	8	5	45	200

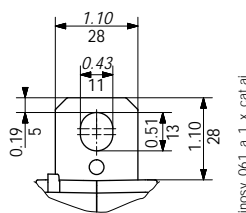
### INOSYS LBS without tripping function



#### Connection terminal F2



#### Connection terminal F3



Rating (A)	Frame size	Units	A		A1	J	J1	J	
			2 P	3 P	1+1 P	1+1 P	1+1 P	2 P	3 P
100 ... 250	F2	in	4.60	5.98	4.60	1.97	2.05	3.35	4.72
		mm	117	152	117	50.5	52.5	85.5	120.5
400 ... 500	F3	in	4.60	-	4.60	2.36	2.44	4.13	-
		mm	117	-	117	60.5	62.5	105.5	-

Rating (A)	Frame size	Units	B	B1	B2	B3	C	J2	J3	J4	J5	J6	J7	J8	P	P1	P2
100 ... 250	F2	in	5.90	13.35	10.31	11.64	4.33	2.26	1.38	2.34	3.23	4.72	0.39	0.58	0.12	1.38	5.87
		mm	154	339	262	296	110	57.5	35	59.5	82	120	10	15	3	35	149
400 ... 500	F3	in	5.90	16.28	15.5	14.12	5.31	2.64	1.77	2.72	4.72	6.22	0.16	0.33	0.2	1.77	7.87
		mm	154	414	394	359	135	67.5	45	69.5	120	158	4	8	5	45	200

# INOSYS LBS UL 98B

Load Break Switches for DC & PV applications

from 100 to 600 A, up to 1500 VDC incorporating tripping function

## Dimensions for external handles (in/mm)

### F2 frame size

Handle type	Front operation Direction of operation	Door drilling
<b>S2 type with trip</b> 		
<b>S2 type</b> 		

poign\_057\_a\_1\_us\_cat.eps

poign\_013\_a\_1\_us\_cat.eps

### F3 frame size

Handle type	Front operation Direction of operation	Door drilling
<b>S2L type with trip</b> 		
<b>S2L type</b> 		

poign\_068\_a\_1\_us\_cat.eps

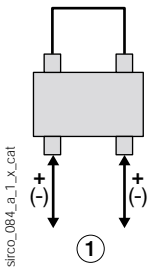
poign\_069\_a\_1\_us\_cat.eps

### Pole series connections

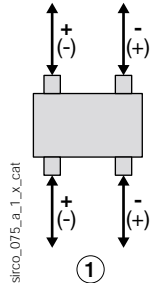
#### 1 PV circuit - 1000 & 1500 VDC

##### F2-F3 - 2 P

Grounded network



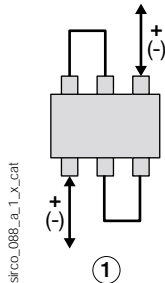
Floating network



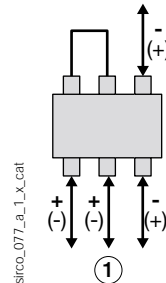
#### 1 PV circuit - 1500 VDC

##### F2 - 3 P

Grounded network



Floating network



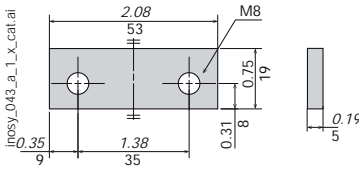
1. Circuit 1  
2. Circuit 2

### Bridging bars (in/mm)

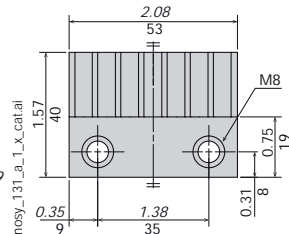
#### F2

##### 8409 0016<sup>(1)</sup>

(1) Kit comprises 2 identical bars.



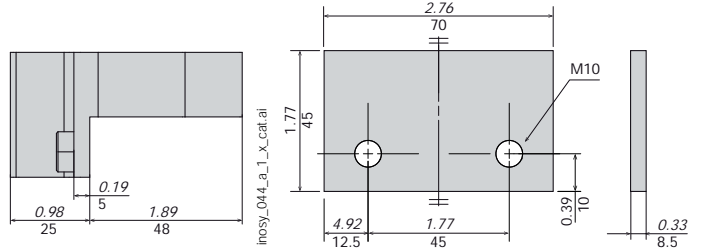
##### 8409 0025



#### F3

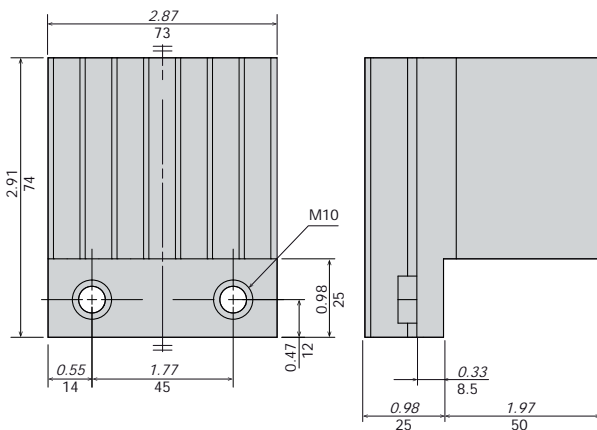
##### 8409 0040<sup>(1)</sup>

(1) Kit comprises 2 identical bars.

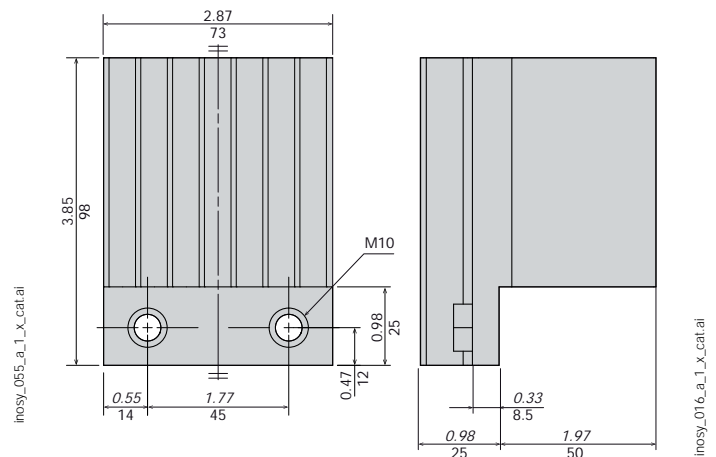


#### F3

##### 8409 0041



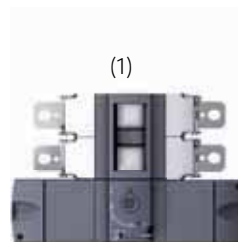
##### 8409 0063



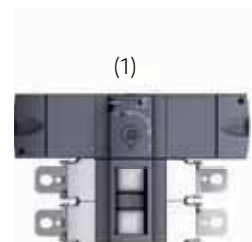
### Mounting orientation

#### F2 - F3

All mounting orientations are possible. Derating may apply - please consult us.



(1) Not UL certified with jumpers 8409 0025



inosy\_006\_a\_psd