



BAY AUXILIARY CIRCUIT SWITCHES BLI





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Robust

Long life durability:

- Comply with the international standards
- Designed according to electrical substations standards
- A foolproof mechanical and electrical robustness
- Applications in electrical substations, power plant (hydraulic, nuclear...)

Configurable

Adaptable to your applications:

- · Locking system by key or padlock
- Up to 50 contacts as standard
- Possibility of « overlapping » contacts
- Arrangement and identification of contacts possible on request
- Possibility of adding configurable additional contacts blocks

APPLICATION

> Isolate circuits

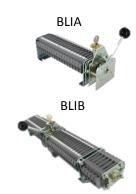
- This device enables rapid isolation of supply circuits to realize separation of circuits before working on the equipment in complete safety.
- It arises from technical evolutions brought by strong customers requirements (electrical distribution market, nuclear applications...)
- Blade circuit opening cutting enables both low level and conventional (Ith16Amax) circuits to be isolated visibly. With these "overlapping" contacts it's possible to isolate circuit without loss of signal.



Туре	/ Special asse	mbly	Cor	ntacts	/	Connection	/	Locking	//
Ex: BLIA	-	/	'	F24	/	SF	/	3242A	//

Type

BLIA	Switch with independent lateral control (handle at right)
	(from 4 to 25 contacts)
BLIB	Switch with independent central control
	(from 26 to 50 contacts)

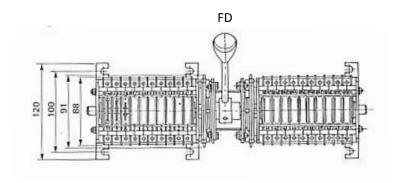


Special assembly

Standard assembly

FD Displaced mounting

In some cases the standard fixing of the product can be complex considering the installation environment (fixing holes located below the device as standard). To overcome the problem the devices can be equipped with extended mounting feet (FD). The overall height is increased to 120mm.



Туре	/ Sp	ecial assembly)	Contacts	/	Connection	/	Locking	//
Ex: BLIA	. /	-	/	F24	/	SF	/	3242A	//

Special assembly

Standard assembly

CNS

Non-standard configuration.

There are 2 types of non-standard configuration (which can be combined):

1) The arrangement or location of the desired contacts are different from our manufacturing standards. In this case, it will be transcribed in a scheme specified in the contact section (eg: F8-O4+Scheme N°)

The standard is the following (see also in page 8):

Each contact is marked by two numbers to differentiate between input and output (01 and 1, 02 and 2, 03 and 3...).

The order of numbers increases from the control handle to the end of the product.

The Normally closed (NC) contacts are alternated with the Normally opened (NO) contacts.

The NC contacts are arranged in the even-numbered rows, starting from the left of the device.

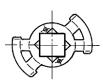
For a BLIB the contacts are arranged symmetrically on either side of the handle; if their number is odd the extra contact is placed on the left.

2) The product is equipped with « overlapping » contacts in replacement of standard contacts:

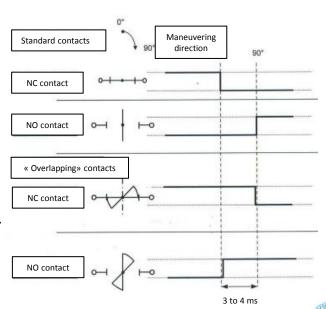


Standard contacts:

The NC contacts and the NO contacts can not be in the same state simultaneously during the maneuver.



« Overlapping » contacts : The NC contacts and the NO contacts are in the same state for a short time during the maneuver.



Туре /	Special assembly	1	Contacts ,	/	Connection	/	Locking	//	
Ex: BLIA /	-	/	F24	/	SF	/	3242A	//	

Contacts

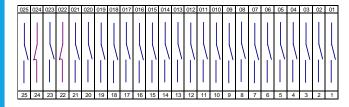
Fxx-Oxx

Fxx: Number of Normally Opened contacts (NO) Oxx: Number of Normally Closed contacts (NC)

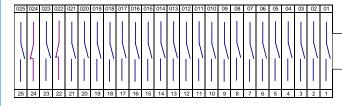
The functions F and O are defined on taking the position 1, handle down as reference.

Examples of contacts configuration:

1) F23-O2: BLIA



2) F48-O2: BLIB





Connection

SF

There is only one type of connection possible: wire clamp



Type / Spe	ecial assembly	/ (Contacts	/	Connection	1	Locking) //
<u>Ex</u> : BLIA /	-	/	F24	/	SF	/	3242A	//

Locking	

Product without locking device

CAD Product equipped with a feet for setting a padlock.

Product equipped with a locking device by Ronis Key
(2 keys provided): Device lockable in 2 positions. Free key in both lock
positions
Standard key number: 3242A

N° de clé Product equipped with a locking device by Ronis Key (2 keys provided):

Non-standard key number to be define. (eg: 1242E,1314A,2312E,421,455...)



CAD



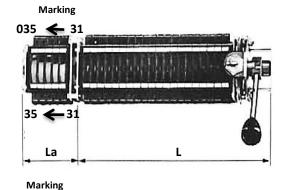
Modifiable contact blocks

In order to exceed the maximum number of contacts on the bay auxiliary switches, it's possible to add modifiable contact blocks. There are 3 variants of contact blocks that can be modified and configured at installation:

2 contacts, reference: 1SNA450028R0600
3 contacts, reference: 1SNA450029R0700
5 contacts, reference: 1SNA450004R0700

For a BLIA the modifiable block is disposed at the opposite side of the handle. For a BLIB the modifiable blocks can be mounted on both side.





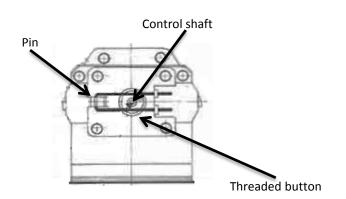


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35 ← 31		71 > 75
33 (31	6	71 → 75
La	L	La

Contacts	La
2	45
3	56
5	78

L: Length of devices (see next page)

Mounting and configuring of modifiable contact blocks



- Unlock the pin

Marking

- Remove the control shaft with the threaded button
- Chose the position of the NC and NO by pushing in the shaft
- Replace the pin

Dimensions and marking

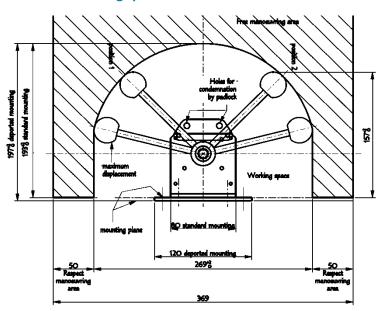
Marking 025 01 25 L

Contacts	L	Contacts	L
4	118,9	15	239,9
5	129,9	16	250,9
6	140,9	17	261,9
7	151,9	18	272,9
8	162,9	19	283,9
9	173,9	20	294,9
10	184,9	21	305,9
11	195,9	22	316,9
12	206,9	23	327,9
13	217,9	24	338,9
14	228,9	25	349,9

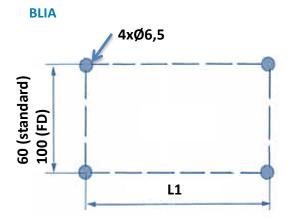
BLIB	
Marking	Marking
025 01	041 065
25	41 — 65

Contacts	ı	Contacts	ı
Contacts		Contacts	_
26	412,8	39	555,8
27	423,8	40	566,8
28	434,8	41	577,8
29	445,8	42	588,8
30	456,8	43	599,8
31	467,8	44	610,8
32	478,8	45	621,8
33	489,8	46	632,8
34	500,8	47	643,8
35	511,8	48	654,8
36	522,8	49	665,8
37	533,8	50	676,8
38	544,8		

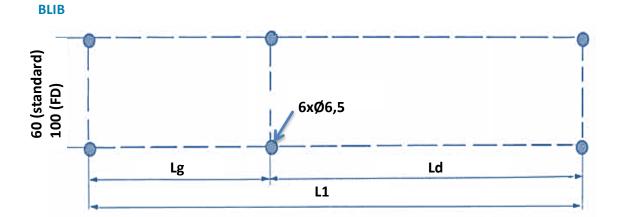
Maneuvering space



Drilling



Contacts	L1	Contacts	L1
4	37	15	158
5	48	16	169
6	59	17	180
7	70	18	191
8	81	19	202
9	92	20	213
10	103	21	224
11	114	22	235
12	125	23	246
13	136	24	257
14	147	25	268



Contacts	L1	Lg	Ld	Contacts	L1	Lg	Ld
26	368,8	136	232,8	39	511,8	213	298,8
27	379,8	147	232,8	40	522,8	213	309,8
28	390,8	147	243,8	41	533,8	224	309,8
29	401,8	158	243,8	42	544,8	224	320,8
30	412,8	158	254,8	43	555,8	235	320,8
31	423,8	169	254,8	44	566,8	235	331,8
32	434,8	169	265,8	45	577,8	246	331,8
33	445,8	180	265,8	46	588,8	246	342,8
34	456,8	180	276,8	47	599,8	257	342,8
35	467,8	191	276,8	48	610,8	257	353,8
36	478,8	191	287,8	49	621,8	268	353,8
37	489,8	202	287,8	50	632,8	268	364,8
38	500,8	202	298,8				

Electrical characteristics

Rated thermal current (Ith)

Max voltage (AC)

Dielectric strength

Short-circuit current (1s)

Minimum current

Breaking capacity

 $AC : Cos \phi = 1$

DC: L/R = 0

16A

380V

3,5kV @50Hz - 1min

350A

80mA/1,6V (voltage drop 180μV)

380V 220V 48V 127V 16A 16A 16A 16A

> 48V 220V 127V 6A 12A 16A

Mechanical and environmental characteristics

Mechanical life utilization

Operating temperature

Storage temperature

Pollution degree

Terminals protection degree

Terminals recommended tightening torque

Recommended screwdriver

Terminal capacity (Cu only)

1 rigid conductor

2 rigid conductors

1 flexible conductor

2 flexible conductors

10 000 operation cycles

- 20°C to + 55°C

- 40°C to + 85°C

Type 3

IP 20

0,5-0,8 N.m

Ø 4 mm

0,5 to 6 mm²

0,5 to 2,5 mm²

0,5 to 6 mm²

0,5 to 2,5 mm²