

Mini DC - Isolators for Photovoltaic

acc. to IEC 60364-7-712



Quality made in 

D1080E261

**Contactors
Motor-Starter**



Mini-Contactors
Contactors
Overload Relays
Compacitor Switching Contactors
Motor-Starters
Modular Contactors

Catalogue **D677E..**

 www.benedict.at

**Circuit
Breakers**



M4-32T.. up to 32A
M4-32R.. up to 32A
M4-63R.. up to 63A
M4-100R.. up to 100A

Catalogue **D795E..**

 www.benedict.at

Switches



On-Off-Switches
Changeover Switches
Motor Switches
Step Switches
Main Switches
Modular Switches
Key Operated Switches

Catalogue **D371E..**

 www.benedict.at

**Main
Switches**



Emergency Off
Main Switches
On-Off-Switches
Add-On-Module

Catalogue **D656E..**

 www.benedict.at

**Capacitor Switching
Contactors**



Contactors for reactive and
non reactive capacitor banks

Catalogue **D385E..**

 www.benedict.at

**Manual
Motorstarter**



MU25A up to 32A

Auxiliary Contact Blocks
Trip Alarm Auxiliary Switches
Busbar Connectors
Enclosure

Catalogue **D509E..**

 www.benedict.at

Push Buttons



Push Buttons
Emergency Stop
Key Operated Rotary Switches
Rotary Knobs
Illuminated Push Buttons
Assembled Stations

Catalogue **D580E..**

 www.benedict.at

**Modular-
Contactors**



Modular Contactors
Accessories
Emergency Off Switches
Main Switches
On-Off Switches
Control Switches

Catalogue **D681E..**

 www.benedict.at

**DC-Switchgear
for Photovoltaic**



Main Switches
On-Off-Switches
Contactors for DC-Switching

Catalogue **D911E..**

 www.benedict.at

**Low Voltage
Control Gear**



Contactors
D.O.L. Starter
Overload Relays
Manual Motor Starter
Main Switches
Cam Switches
Push Buttons
Emergency Stop

Catalogue **D651E..**

 www.benedict.at



Mini DC-Isolators for Panel Mounting (4 holes)

6

Lockable Mini DC-Isolators for Panel Mounting (4 holes)

6

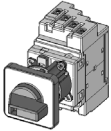


Mini DC-Isolators for Panel Mounting (2 holes)

7

Lockable Mini DC-Isolators for Panel Mounting (2 holes)

7

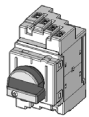


Mini DC-Isolators for Single Hole Mounting (Ø22,5mm)

8

Lockable Mini DC-Isolators for Single Hole Mounting (Ø22,5mm)

9

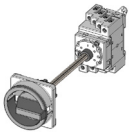


Mini DC-Isolators for Single Hole Mounting (Ø16mm)

9

Lockable Mini DC-Isolators for Single Hole Mounting (Ø16mm)

10

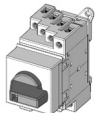


Mini DC-Isolators for Base Mounting

10

Lockable Mini DC-Isolators for Base Mounting

11

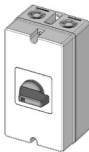


Mini DC-Isolators for Distribution Boards

11

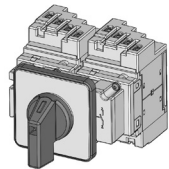
Lockable Mini DC-Isolators for Distribution Boards

12



Lockable Mini DC-Isolators in Plastic Enclosure

12



Changeover Isolators for Panel Mounting, Base Mounting,
Modular Switches

13 - 14



Technical Data

15 - 20

Approvals

19

Dimensions

20 - 29

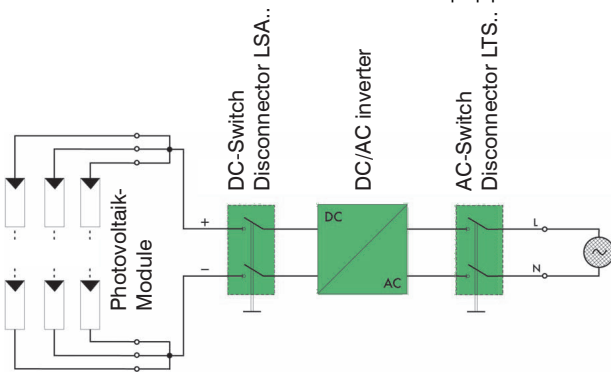
Ratings			
Rated Current			
Type	I_{th} open A	DC21B(DC-PV1) 4 poles in series A	at U_e V
LSA16	16	16	1500
LSA25	25	25	1500
LSA32	32	32	1500
LSA38	45	45	1500

Mini DC-Switch Disconnectors

Design	Panel mounting 4 hole mounting IP66 ¹⁾	Panel mounting 2 hole mounting IP66 ¹⁾	Single hole Ø22,5mm IP66 ¹⁾	Single hole Ø16mm IP66 ¹⁾
	..E, EH4..	..E2, E2H1..	..Z(O), ZH1..	..Z16, Z16H448..
	..E, EH4..	..E2, E2H1..	..Z(O), ZH1..	..Z16, Z16H448..
	..E, EH4..	..E2, E2H1..	..Z(O), ZH1..	..Z16, Z16H448..
	..E, EH4..	..E2, E2H1..	..Z(O), ZH1..	..Z16, Z16H448..

Mini Switch Disconnectors for Photovoltaic

Mini Switch Disconnectors „LSA“ are switch gears for interrupting the DC/AC-Inverter from solar-panels. Photovoltaic-Installations have to be equipped with DC-Isolators acc. to IEC 60364-7-712.



Mini Switch Disconnectors LSA ensure a reliable switching up to 50A at 1200V in the category DC-PV1 (= DC21B).

The construction of the contacts and the material selection guarantee that no oxidations develop (because of small switching frequency) and further it is prevented that inadmissible heating-up is effected.

Mini Switch Disconnectors LSA are equipped with 2 or 4 switchable, singular contacts. By serial or parallel wiring of the contacts the contact rating will be increased. The switching speed by the manually driven handle does not have an effect on the switching attitude of the contacts.

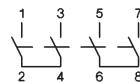
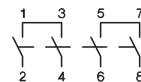
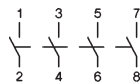
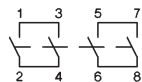
Mounting positions:

No limitations, all kind of positions allowed.

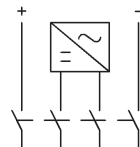
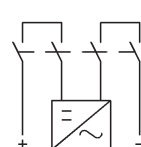
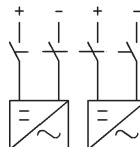
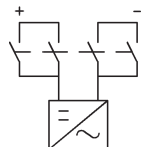
Switching programs

Type	2-pole	2+2-pole 2 poles in series + 2 Pole parallel	4-pole	4-pole 2 jumpers top Input and Output bottom	4-pole 2 jumpers bottom Input and Output top
LSA16 ... LSA38	.. A2	.. A2+2	.. A4(2 x A2)	.. A4O	.. A4U

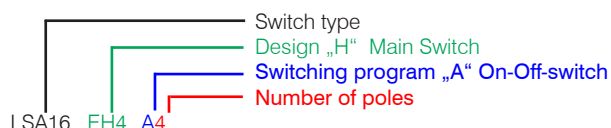
Contact
Wiring diagram



Switching example

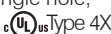


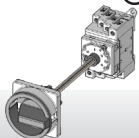
Ordering



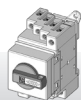
1) Protection in front and built in

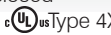
Mini DC-Switch Disconnectors

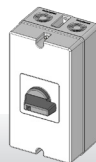
Base mounting with
door coupling, single hole,
Ø22,5mm, IP66¹⁾ 



Modular Switch
IP40¹⁾ 

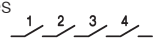


Plastic enclosed
PFL..IP67¹⁾ 



..VZV, VZVH4..	..SMA, SMAH1N..	..PFLH4..
..VZV, VZVH4..	..SMA, SMAH1N..	..PFLH4..
..VZV, VZVH4..	..SMA, SMAH1N..	..PFLH4..
..VZV, VZVH4..	..SMA, SMAH1N..	..PFLH4..

Technical data for DC, acc. to IEC 60947-3, VDE0660

Type			DC-PV1 (= DC21B)								DC-PV2			
			500V	600V	700V	800V	900V	1000V	1200V	1500V	500V	600V	800V	1000V
2 Poles in Series 	LSA16..	A	16	16	16	16	16	10	7	3	16	14	12	4
	LSA25..	A	25	25	25	20	17	11,5	8,5	5	25	21	15	5
	LSA32..	A	32	32	32	23	20	13	10	6	32	27	17	6
	LSA38..	A	45	45	45	45	39	29	16	7	45	45	30	13
2 Poles in Series + 2 parallel 	LSA16..	A	29	29	22	17	16	10	7	3	25	20	12	4
	LSA25..	A	45	36	27	20	17	11,5	8,5	5	39	32	15	5
	LSA32..	A	50	50	32	23	20	13	10	6	50	35	17	6
	LSA38..	A	50	50	50	47	39	29	16	7	50	50	30	13
4 Poles in Series 	LSA16..	A	16	16	16	16	16	16	16	16	16	16	16	16
	LSA25..	A	25	25	25	25	25	25	25	25	25	25	25	25
	LSA32..	A	32	32	32	32	32	32	32	32	32	32	32	32
	LSA38..	A	45	45	45	45	45	45	45	45	45	45	45	45

Switching programs

Type

4-pole / 1-0-2
Transfer Switch AC/DC

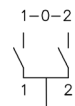
4-pole / 1-0-2
Transfer Switch DC/DC

LSA16 ... LSA38

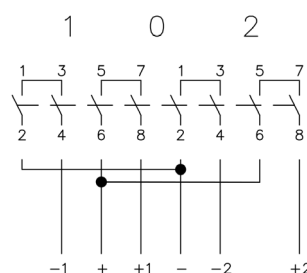
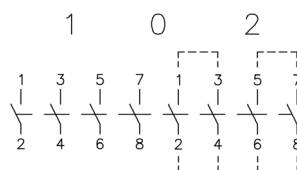
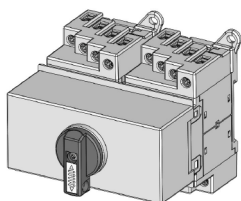
U4ACDC

U4DC

Contact
Wiring diagram



Switching example



Isolated jumpers LSAV-.. for Series and Parallel switching of contacts (terminals 1-3, 5-7, 2-4, 6-8). Details see page 30.

for Switches

Type

pack

weight



LSA16 ... LSA32 (A4O, A4U, A4B)

LSAV-B1-1

100

4,80 g/pce.

LSA38 (A4O, A4U, A4B)

LSAV-B1-2

100

9,00 g/pce.

LSA16 ... LSA38 (A2+2)

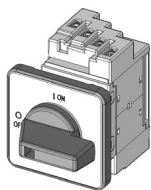
LSAV-B1-1

100

4,80 g/pce.

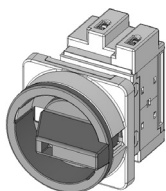
1) Protection from front and built in

Mini DC-Isolators for Panel Mounting, 4 holes, Plate 64, IP66, Type 3R



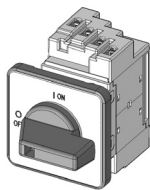
DC-PV1 (=DC21B)		Poles in Series	Number of Strings	Type	Pack pcs.	Weight kg/pce.
600V	1000V					
16A	10A	2	1	LSA16 E A2	1	0,18
25A	11,5A	2	1	LSA25 E A2	1	0,18
32A	13A	2	1	LSA32 E A2	1	0,18
45A	29A	2	1	LSA38 E A2	1	0,18
29A	10A	2	1	LSA16 E A2+2	1	0,24
36A	11,5A	2	1	LSA25 E A2+2	1	0,24
50A	13A	2	1	LSA32 E A2+2	1	0,24
50A	29A	2	1	LSA38 E A2+2	1	0,24
16A	10A	2	2	LSA16 E A4	1	0,23
25A	11,5A	2	2	LSA25 E A4	1	0,23
32A	13A	2	2	LSA32 E A4	1	0,23
45A	29A	2	2	LSA38 E A4	1	0,23
16A	16A	4	1	LSA16 E A4O	1	0,25
25A	25A	4	1	LSA25 E A4O	1	0,25
32A	32A	4	1	LSA32 E A4O	1	0,25
45A	45A	4	1	LSA38 E A4O	1	0,25
16A	16A	4	1	LSA16 E A4U	1	0,25
25A	25A	4	1	LSA25 E A4U	1	0,25
32A	32A	4	1	LSA32 E A4U	1	0,25
45A	45A	4	1	LSA38 E A4U	1	0,25

Lockable Mini DC-Isolators for Panel Mounting, 4 holes, Plate 64, IP66, Type 3R



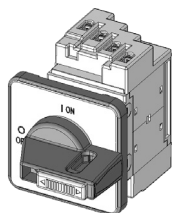
16A	10A	2	1	LSA16 EH4 A2	1	0,19
25A	11,5A	2	1	LSA25 EH4 A2	1	0,19
32A	13A	2	1	LSA32 EH4 A2	1	0,19
45A	29A	2	1	LSA38 EH4 A2	1	0,19
29A	10A	2	1	LSA16 EH4 A2+2	1	0,25
36A	11,5A	2	1	LSA25 EH4 A2+2	1	0,25
50A	13A	2	1	LSA32 EH4 A2+2	1	0,25
50A	29A	2	1	LSA38 EH4 A2+2	1	0,25
16A	10A	2	2	LSA16 EH4 A4	1	0,24
25A	11,5A	2	2	LSA25 EH4 A4	1	0,24
32A	13A	2	2	LSA32 EH4 A4	1	0,24
45A	29A	2	2	LSA38 EH4 A4	1	0,24
16A	16A	4	1	LSA16 EH4 A4O	1	0,26
25A	25A	4	1	LSA25 EH4 A4O	1	0,26
32A	32A	4	1	LSA32 EH4 A4O	1	0,26
45A	45A	4	1	LSA38 EH4 A4O	1	0,26
16A	16A	4	1	LSA16 EH4 A4U	1	0,26
25A	25A	4	1	LSA25 EH4 A4U	1	0,26
32A	32A	4	1	LSA32 EH4 A4U	1	0,26
45A	45A	4	1	LSA38 EH4 A4U	1	0,26

Mini DC-Isolators for Single Hole Mounting, 2 holes, Plate 64, IP66, Type 3R



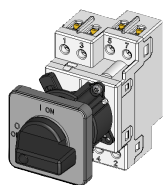
DC-PV1 (=DC21B)		Poles in Series	Number of Strings	Type	Pack pcs.	Weight kg/pce.
600V	1000V					
16A	10A	2	1	LSA16 E2 A2	1	0,18
25A	11,5A	2	1	LSA25 E2 A2	1	0,18
32A	13A	2	1	LSA32 E2 A2	1	0,18
45A	29A	2	1	LSA38 E2 A2	1	0,18
29A	10A	2	1	LSA16 E2 A2+2	1	0,24
36A	11,5A	2	1	LSA25 E2 A2+2	1	0,24
50A	13A	2	1	LSA32 E2 A2+2	1	0,24
50A	29A	2	1	LSA38 E2 A2+2	1	0,24
16A	10A	2	2	LSA16 E2 A4	1	0,23
25A	11,5A	2	2	LSA25 E2 A4	1	0,23
32A	13A	2	2	LSA32 E2 A4	1	0,23
45A	29A	2	2	LSA38 E2 A4	1	0,23
16A	16A	4	1	LSA16 E2 A4O	1	0,25
25A	25A	4	1	LSA25 E2 A4O	1	0,25
32A	32A	4	1	LSA32 E2 A4O	1	0,25
45A	45A	4	1	LSA38 E2 A4O	1	0,25
16A	16A	4	1	LSA16 E2 A4U	1	0,25
25A	25A	4	1	LSA25 E2 A4U	1	0,25
32A	32A	4	1	LSA32 E2 A4U	1	0,25
45A	45A	4	1	LSA38 E2 A4U	1	0,25

Mini DC-Isolators for Panel Mounting, 2 holes, Plate 64, IP66, Type 3R



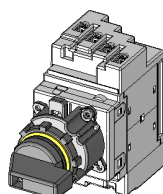
16A	10A	2	1	LSA16 E2H1 A2	1	0,19
25A	11,5A	2	1	LSA25 E2H1 A2	1	0,19
32A	13A	2	1	LSA32 E2H1 A2	1	0,19
45A	29A	2	1	LSA38 E2H1 A2	1	0,19
29A	10A	2	1	LSA16 E2H1 A2+2	1	0,25
36A	11,5A	2	1	LSA25 E2H1 A2+2	1	0,25
50A	13A	2	1	LSA32 E2H1 A2+2	1	0,25
50A	29A	2	1	LSA38 E2H1 A2+2	1	0,25
16A	10A	2	2	LSA16 E2H1 A4	1	0,24
25A	11,5A	2	2	LSA25 E2H1 A4	1	0,24
32A	13A	2	2	LSA32 E2H1 A4	1	0,24
45A	29A	2	2	LSA38 E2H1 A4	1	0,24
16A	16A	4	1	LSA16 E2H1 A4O	1	0,26
25A	25A	4	1	LSA25 E2H1 A4O	1	0,26
32A	32A	4	1	LSA32 E2H1 A4O	1	0,26
45A	45A	4	1	LSA38 E2H1 A4O	1	0,26
16A	16A	4	1	LSA16 E2H1 A4U	1	0,26
25A	25A	4	1	LSA25 E2H1 A4U	1	0,26
32A	32A	4	1	LSA32 E2H1 A4U	1	0,26
45A	45A	4	1	LSA38 E2H1 A4U	1	0,26

Mini DC-Isolators for Single Hole Mounting, Ø22,5mm, Plate 48, IP66, Type 4X



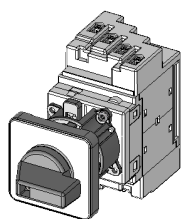
DC-PV1 (=DC21B) 600V 1000V		Poles in Series	Number of Strings	Type	Pack pcs.	Weight kg/pce.
16A	10A	2	1	LSA16 Z A2	1	0,17
25A	11,5A	2	1	LSA25 Z A2	1	0,17
32A	13A	2	1	LSA32 Z A2	1	0,17
45A	29A	2	1	LSA38 Z A2	1	0,17
29A	10A	2	1	LSA16 Z A2+2	1	0,22
36A	11,5A	2	1	LSA25 Z A2+2	1	0,22
50A	13A	2	1	LSA32 Z A2+2	1	0,22
50A	29A	2	1	LSA38 Z A2+2	1	0,22
16A	10A	2	2	LSA16 Z A4	1	0,21
25A	11,5A	2	2	LSA25 Z A4	1	0,21
32A	13A	2	2	LSA32 Z A4	1	0,21
45A	29A	2	2	LSA38 Z A4	1	0,21
16A	16A	4	1	LSA16 Z A4O	1	0,23
25A	25A	4	1	LSA25 Z A4O	1	0,23
32A	32A	4	1	LSA32 Z A4O	1	0,23
45A	45A	4	1	LSA38 Z A4O	1	0,23
16A	16A	4	1	LSA16 Z A4U	1	0,23
25A	25A	4	1	LSA25 Z A4U	1	0,23
32A	32A	4	1	LSA32 Z A4U	1	0,23
45A	45A	4	1	LSA38 Z A4U	1	0,23

Mini DC-Isolators for Single Hole Mounting, Ø22,5mm, without Plate, IP66, Type 4X



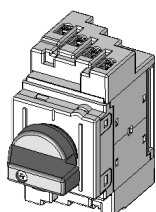
16A	10A	2	1	LSA16 ZO A2	1	0,15
25A	11,5A	2	1	LSA25 ZO A2	1	0,15
32A	13A	2	1	LSA32 ZO A2	1	0,15
45A	29A	2	1	LSA38 ZO A2	1	0,15
29A	10A	2	1	LSA16 ZO A2+2	1	0,19
36A	11,5A	2	1	LSA25 ZO A2+2	1	0,19
50A	13A	2	1	LSA32 ZO A2+2	1	0,19
50A	29A	2	1	LSA38 ZO A2+2	1	0,19
16A	10A	2	2	LSA16 ZO A4	1	0,18
25A	11,5A	2	2	LSA25 ZO A4	1	0,18
32A	13A	2	2	LSA32 ZO A4	1	0,18
45A	29A	2	2	LSA38 ZO A4	1	0,18
16A	16A	4	1	LSA16 ZO A4O	1	0,19
25A	25A	4	1	LSA25 ZO A4O	1	0,19
32A	32A	4	1	LSA32 ZO A4O	1	0,19
45A	45A	4	1	LSA38 ZO A4O	1	0,19
16A	16A	4	1	LSA16 ZO A4U	1	0,19
25A	25A	4	1	LSA25 ZO A4U	1	0,19
32A	32A	4	1	LSA32 ZO A4U	1	0,19
45A	45A	4	1	LSA38 ZO A4U	1	0,19

Mini DC-Isolators for Single Hole Mounting, Ø22,5mm, Plate 48, IP66, Type 4X



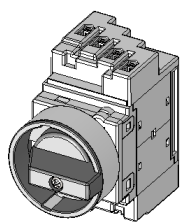
DC-PV1 (=DC21B)		Poles in Series	Number of Strings	Type	Pack pcs.	Weight kg/pce.
600V	1000V					
16A	10A	2	1	LSA16 ZH1 A2	1	0,17
25A	11,5A	2	1	LSA25 ZH1 A2	1	0,17
32A	13A	2	1	LSA32 ZH1 A2	1	0,17
45A	29A	2	1	LSA38 ZH1 A2	1	0,17
29A	10A	2	1	LSA16 ZH1 A2+2	1	0,22
36A	11,5A	2	1	LSA25 ZH1 A2+2	1	0,22
50A	13A	2	1	LSA32 ZH1 A2+2	1	0,22
50A	29A	2	1	LSA38 ZH1 A2+2	1	0,22
16A	10A	2	2	LSA16 ZH1 A4	1	0,21
25A	11,5A	2	2	LSA25 ZH1 A4	1	0,21
32A	13A	2	2	LSA32 ZH1 A4	1	0,21
45A	29A	2	2	LSA38 ZH1 A4	1	0,21
16A	16A	4	1	LSA16 ZH1 A4O	1	0,23
25A	25A	4	1	LSA25 ZH1 A4O	1	0,23
32A	32A	4	1	LSA32 ZH1 A4O	1	0,23
45A	45A	4	1	LSA38 ZH1 A4O	1	0,23
16A	16A	4	1	LSA16 ZH1 A4U	1	0,23
25A	25A	4	1	LSA25 ZH1 A4U	1	0,23
32A	32A	4	1	LSA32 ZH1 A4U	1	0,23
45A	45A	4	1	LSA38 ZH1 A4U	1	0,23

Mini DC-Isolators for Single Hole Mounting, Ø16mm, without Plate, IP66, Type 4X



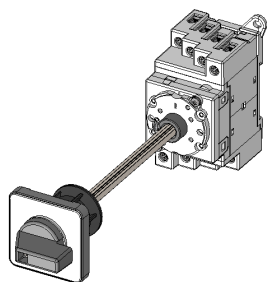
16A	10A	2	1	LSA16 Z16 A2	1	0,15
25A	11,5A	2	1	LSA25 Z16 A2	1	0,15
32A	13A	2	1	LSA32 Z16 A2	1	0,15
45A	29A	2	1	LSA38 Z16 A2	1	0,15
29A	10A	2	1	LSA16 Z16 A2+2	1	0,19
36A	11,5A	2	1	LSA25 Z16 A2+2	1	0,19
50A	13A	2	1	LSA32 Z16 A2+2	1	0,19
50A	29A	2	1	LSA38 Z16 A2+2	1	0,19
16A	10A	2	2	LSA16 Z16 A4	1	0,18
25A	11,5A	2	2	LSA25 Z16 A4	1	0,18
32A	13A	2	2	LSA32 Z16 A4	1	0,18
45A	29A	2	2	LSA38 Z16 A4	1	0,18
16A	16A	4	1	LSA16 Z16 A4O	1	0,19
25A	25A	4	1	LSA25 Z16 A4O	1	0,19
32A	32A	4	1	LSA32 Z16 A4O	1	0,19
45A	45A	4	1	LSA38 Z16 A4O	1	0,19
16A	16A	4	1	LSA16 Z16 A4U	1	0,19
25A	25A	4	1	LSA25 Z16 A4U	1	0,19
32A	32A	4	1	LSA32 Z16 A4U	1	0,19
45A	45A	4	1	LSA38 Z16 A4U	1	0,19

Lockable Mini DC-Isolators for Single Hole Mounting, Ø16mm, Plate 48, IP66, Type 4X



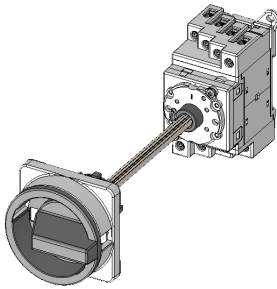
DC-PV1 (=DC21B) 600V 1000V		Poles in Series	Number of Strings	Type	Pack pcs.	Weight kg/pce.
16A	10A	2	1	LSA16 Z16H448 A2	1	0,19
25A	11,5A	2	1	LSA25 Z16H448 A2	1	0,19
32A	13A	2	1	LSA32 Z16H448 A2	1	0,19
45A	29A	2	1	LSA38 Z16H448 A2	1	0,19
29A	10A	2	1	LSA16 Z16H448 A2+2	1	0,25
36A	11,5A	2	1	LSA25 Z16H448 A2+2	1	0,25
50A	13A	2	1	LSA32 Z16H448 A2+2	1	0,25
50A	29A	2	1	LSA38 Z16H448 A2+2	1	0,25
16A	10A	2	2	LSA16 Z16H448 A4	1	0,24
25A	11,5A	2	2	LSA25 Z16H448 A4	1	0,24
32A	13A	2	2	LSA32 Z16H448 A4	1	0,24
45A	29A	2	2	LSA38 Z16H448 A4	1	0,24
16A	16A	4	1	LSA16 Z16H448 A4O	1	0,26
25A	25A	4	1	LSA25 Z16H448 A4O	1	0,26
32A	32A	4	1	LSA32 Z16H448 A4O	1	0,26
45A	45A	4	1	LSA38 Z16H448 A4O	1	0,26
16A	16A	4	1	LSA16 Z16H448 A4U	1	0,26
25A	25A	4	1	LSA25 Z16H448 A4U	1	0,26
32A	32A	4	1	LSA32 Z16H448 A4U	1	0,26
45A	45A	4	1	LSA38 Z16H448 A4U	1	0,26

Mini DC-Isolators for Base Mounting, w. Door Clutch, Single Hole, Plate 64, IP66, Type 4X



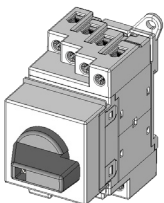
16A	10A	2	1	LSA16 VZV A2	1	0,20
25A	11,5A	2	1	LSA25 VZV A2	1	0,20
32A	13A	2	1	LSA32 VZV A2	1	0,20
45A	29A	2	1	LSA38 VZV A2	1	0,20
29A	10A	2	1	LSA16 VZV A2+2	1	0,26
36A	11,5A	2	1	LSA25 VZV A2+2	1	0,26
50A	13A	2	1	LSA32 VZV A2+2	1	0,26
50A	29A	2	1	LSA38 VZV A2+2	1	0,26
16A	10A	2	2	LSA16 VZV A4	1	0,24
25A	11,5A	2	2	LSA25 VZV A4	1	0,24
32A	13A	2	2	LSA32 VZV A4	1	0,24
45A	29A	2	2	LSA38 VZV A4	1	0,24
16A	16A	2	1	LSA16 VZV A4O	1	0,26
25A	25A	2	1	LSA25 VZV A4O	1	0,26
32A	32A	2	1	LSA32 VZV A4O	1	0,26
45A	45A	2	1	LSA38 VZV A4O	1	0,26
16A	16A	2	1	LSA16 VZV A4U	1	0,26
25A	25A	2	1	LSA25 VZV A4U	1	0,26
32A	32A	2	1	LSA32 VZV A4U	1	0,26
45A	45A	2	1	LSA38 VZV A4U	1	0,26

Lockable Mini DC-Isolators for Base Mounting, w. Door Clutch, Single Hole, Plate 64, IP66, Type 4X



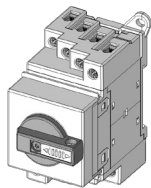
DC-PV1 (=DC21B)		Poles in Series	Number of Strings	Type	Pack pcs.	weight kg/pce.
600V	1000V					
16A	10A	2	1	LSA16 VZVH4 A2	1	0,21
25A	11,5A	2	1	LSA25 VZVH4 A2	1	0,21
32A	13A	2	1	LSA32 VZVH4 A2	1	0,21
45A	29A	2	1	LSA38 VZVH4 A2	1	0,21
29A	10A	2	1	LSA16 VZVH4 A2+2	1	0,27
36A	11,5A	2	1	LSA25 VZVH4 A2+2	1	0,27
50A	13A	2	1	LSA32 VZVH4 A2+2	1	0,27
50A	29A	2	1	LSA38 VZVH4 A2+2	1	0,27
16A	10A	2	2	LSA16 VZVH4 A4	1	0,25
25A	11,5A	2	2	LSA25 VZVH4 A4	1	0,25
32A	13A	2	2	LSA32 VZVH4 A4	1	0,25
45A	29A	2	2	LSA38 VZVH4 A4	1	0,25
16A	16A	4	1	LSA16 VZVH4 A4O	1	0,27
25A	25A	4	1	LSA25 VZVH4 A4O	1	0,27
32A	32A	4	1	LSA32 VZVH4 A4O	1	0,27
45A	45A	4	1	LSA38 VZVH4 A4O	1	0,27
16A	16A	4	1	LSA16 VZVH4 A4U	1	0,27
25A	25A	4	1	LSA25 VZVH4 A4U	1	0,27
32A	32A	4	1	LSA32 VZVH4 A4U	1	0,27
45A	45A	4	1	LSA38 VZVH4 A4U	1	0,27

Mini DC-Isolators for Distribution Boards, IP40, Open Type



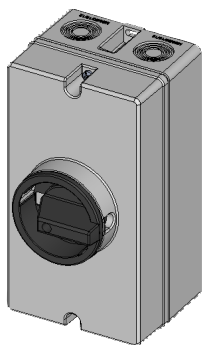
16A	10A	2	1	LSA16 SMA A2	1	0,18
25A	11,5A	2	1	LSA25 SMA A2	1	0,18
32A	13A	2	1	LSA32 SMA A2	1	0,18
45A	29A	2	1	LSA38 SMA A2	1	0,18
29A	10A	2	1	LSA16 SMA A2+2	1	0,22
36A	11,5A	2	1	LSA25 SMA A2+2	1	0,22
50A	13A	2	1	LSA32 SMA A2+2	1	0,22
50A	29A	2	1	LSA38 SMA A2+2	1	0,22
16A	10A	2	2	LSA16 SMA A4	1	0,20
25A	11,5A	2	2	LSA25 SMA A4	1	0,20
32A	13A	2	2	LSA32 SMA A4	1	0,20
45A	29A	2	2	LSA38 SMA A4	1	0,20
16A	16A	4	1	LSA16 SMA A4O	1	0,22
25A	25A	4	1	LSA25 SMA A4O	1	0,22
32A	32A	4	1	LSA32 SMA A4O	1	0,22
45A	45A	4	1	LSA38 SMA A4O	1	0,22
16A	16A	4	1	LSA16 SMA A4U	1	0,22
25A	25A	4	1	LSA25 SMA A4U	1	0,22
32A	32A	4	1	LSA32 SMA A4U	1	0,22
45A	45A	4	1	LSA38 SMA A4U	1	0,22

Lockable Mini DC-Isolators for Distribution Boards, IP40, Open Type



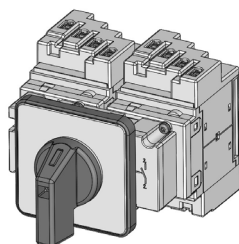
DC-PV1 (=DC21B)		Poles in Series	Number of Strings	Type	Pack pcs.	Weight kg/pce.
600V	1000V					
16A	10A	2	1	LSA16 SMAH1N A2	1	0,18
25A	11,5A	2	1	LSA25 SMAH1N A2	1	0,18
32A	13A	2	1	LSA32 SMAH1N A2	1	0,18
45A	29A	2	1	LSA38 SMAH1N A2	1	0,18
29A	10A	2	1	LSA16 SMAH1N A2+2	1	0,22
36A	11,5A	2	1	LSA25 SMAH1N A2+2	1	0,22
50A	13A	2	1	LSA32 SMAH1N A2+2	1	0,22
50A	29A	2	1	LSA38 SMAH1N A2+2	1	0,22
16A	10A	2	2	LSA16 SMAH1N A4	1	0,20
25A	11,5A	2	2	LSA25 SMAH1N A4	1	0,20
32A	13A	2	2	LSA32 SMAH1N A4	1	0,20
45A	29A	2	2	LSA38 SMAH1N A4	1	0,20
16A	16A	4	1	LSA16 SMAH1N A4O	1	0,22
25A	25A	4	1	LSA25 SMAH1N A4O	1	0,22
32A	32A	4	1	LSA32 SMAH1N A4O	1	0,22
45A	45A	4	1	LSA38 SMAH1N A4O	1	0,22
16A	16A	4	1	LSA16 SMAH1N A4U	1	0,22
25A	25A	4	1	LSA25 SMAH1N A4U	1	0,22
32A	32A	4	1	LSA32 SMAH1N A4U	1	0,22
45A	45A	4	1	LSA38 SMAH1N A4U	1	0,22

Mini DC-Isolators in Plastic Enclosure, IP67, Type 4X



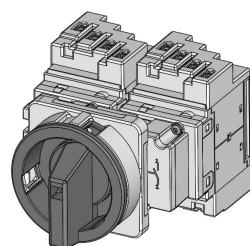
16A	10A	2	1	LSA16 PFLH4 A2	1	0,42
25A	11,5A	2	1	LSA25 PFLH4 A2	1	0,42
32A	13A	2	1	LSA32 PFLH4 A2	1	0,42
45A	29A	2	1	LSA38 PFLH4 A2	1	0,42
29A	10A	2	1	LSA16 PFLH4 A2+2	1	0,50
36A	11,5A	2	1	LSA25 PFLH4 A2+2	1	0,50
50A	13A	2	1	LSA32 PFLH4 A2+2	1	0,50
50A	29A	2	1	LSA38 PFLH4 A2+2	1	0,50
16A	10A	2	2	LSA16 PFLH4 A4	1	0,49
25A	11,5A	2	2	LSA25 PFLH4 A4	1	0,49
32A	13A	2	2	LSA32 PFLH4 A4	1	0,49
45A	29A	2	2	LSA38 PFLH4 A4	1	0,49
16A	16A	4	1	LSA16 PFLH4 A4O	1	0,51
25A	25A	4	1	LSA25 PFLH4 A4O	1	0,51
32A	32A	4	1	LSA32 PFLH4 A4O	1	0,51
45A	45A	4	1	LSA38 PFLH4 A4O	1	0,51
16A	16A	4	1	LSA16 PFLH4 A4U	1	0,51
25A	25A	4	1	LSA25 PFLH4 A4U	1	0,51
32A	32A	4	1	LSA32 PFLH4 A4U	1	0,51
45A	45A	4	1	LSA38 PFLH4 A4U	1	0,51

Changeover Isolators for Panel Mounting, 4 holes, Plate 64, IP66, Type 3R



DC-PV1 (=DC21B)		AC21B	Poles in Series	Type	Pack pcs.	Weight kg/pce.
600V	1000V	440V				
16A	16A	16A	4	LSA16 E U4 ¹⁾	1	0,40
25A	25A	25A	4	LSA25 E U4 ¹⁾	1	0,40
32A	32A	32A	4	LSA32 E U4 ¹⁾	1	0,40
45A	38A	45A	4	LSA38 E U4 ¹⁾	1	0,40
16A	16A	16A	4	LSA16 E U4ACDC ²⁾	1	0,40
25A	25A	25A	4	LSA25 E U4ACDC ²⁾	1	0,40
32A	32A	32A	4	LSA32 E U4ACDC ²⁾	1	0,40
45A	38A	45A	4	LSA38 E U4ACDC ²⁾	1	0,40
16A	16A	-	4	LSA16 E U4DC ³⁾	1	0,48
25A	25A	-	4	LSA25 E U4DC ³⁾	1	0,48
32A	32A	-	4	LSA32 E U4DC ³⁾	1	0,48
45A	38A	-	4	LSA38 E U4DC ³⁾	1	0,48

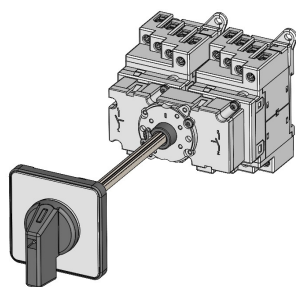
Changeover Isolators for Panel Mounting, 4 holes, lockable, Plate 64, IP66, Type 3R



16A	16A	16A	4	LSA16 EH4 U4 ¹⁾	1	0,43
25A	25A	25A	4	LSA25 EH4 U4 ¹⁾	1	0,43
32A	32A	32A	4	LSA32 EH4 U4 ¹⁾	1	0,43
45A	38A	45A	4	LSA38 EH4 U4 ¹⁾	1	0,43
16A	16A	16A	4	LSA16 EH4 U4ACDC ²⁾	1	0,43
25A	25A	25A	4	LSA25 EH4 U4ACDC ²⁾	1	0,43
32A	32A	32A	4	LSA32 EH4 U4ACDC ²⁾	1	0,43
45A	38A	45A	4	LSA38 EH4 U4ACDC ²⁾	1	0,43
16A	16A	-	4	LSA16 EH4 U4DC ³⁾	1	0,51
25A	25A	-	4	LSA25 EH4 U4DC ³⁾	1	0,51
32A	32A	-	4	LSA32 EH4 U4DC ³⁾	1	0,51
45A	38A	-	4	LSA38 EH4 U4DC ³⁾	1	0,51

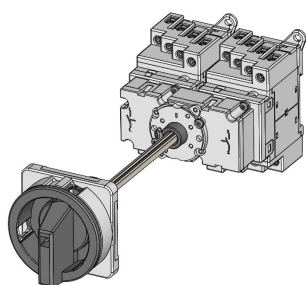


Changeover Isolators for Base Mounting, w. Door Clutch, Single Hole, Plate 64, IP66, Type 4X



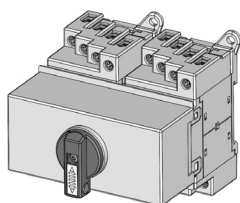
DC-PV1 600V	(=DC21B) 1000V	AC21B 440V	Poles in Series	Type	Pack pcs.	Weight kg/pce.
16A	16A	16A	4	LSA16 VZV U4 ¹⁾	1	0,45
25A	25A	25A	4	LSA25 VZV U4 ¹⁾	1	0,45
32A	32A	32A	4	LSA32 VZV U4 ¹⁾	1	0,45
45A	38A	45A	4	LSA38 VZV U4 ¹⁾	1	0,45
16A	16A	16A	4	LSA16 VZV U4ACDC ²⁾	1	0,45
25A	25A	25A	4	LSA25 VZV U4ACDC ²⁾	1	0,45
32A	32A	32A	4	LSA32 VZV U4ACDC ²⁾	1	0,45
45A	38A	45A	4	LSA38 VZV U4ACDC ²⁾	1	0,45
16A	16A	-	4	LSA16 VZV U4DC ³⁾	1	0,50
25A	25A	-	4	LSA25 VZV U4DC ³⁾	1	0,50
32A	32A	-	4	LSA32 VZV U4DC ³⁾	1	0,50
45A	38A	-	4	LSA38 VZV U4DC ³⁾	1	0,50

Changeover Isolators for Base Mounting, lockable, w. Door Clutch, Single Hole, Plate 64, IP66, Type 4X



16A	16A	16A	4	LSA16 VZVH4 U4 ¹⁾	1	0,45
25A	25A	25A	4	LSA25 VZVH4 U4 ¹⁾	1	0,45
32A	32A	32A	4	LSA32 VZVH4 U4 ¹⁾	1	0,45
45A	38A	45A	4	LSA38 VZVH4 U4 ¹⁾	1	0,45
16A	16A	16A	4	LSA16 VZVH4 U4ACDC ²⁾	1	0,45
25A	25A	25A	4	LSA25 VZVH4 U4ACDC ²⁾	1	0,45
32A	32A	32A	4	LSA32 VZVH4 U4ACDC ²⁾	1	0,45
45A	38A	45A	4	LSA38 VZVH4 U4ACDC ²⁾	1	0,45
16A	16A	-	4	LSA16 VZVH4 U4DC ³⁾	1	0,50
25A	25A	-	4	LSA25 VZVH4 U4DC ³⁾	1	0,50
32A	32A	-	4	LSA32 VZVH4 U4DC ³⁾	1	0,50
45A	38A	-	4	LSA38 VZVH4 U4DC ³⁾	1	0,50

Changeover Isolators for Distribution Boards, lockable, lower handle, IP40, Open Type



16A	16A	16A	4	LSA16 SMAH1N U4 ¹⁾	1	0,40
25A	25A	25A	4	LSA25 SMAH1N U4 ¹⁾	1	0,40
32A	32A	32A	4	LSA32 SMAH1N U4 ¹⁾	1	0,40
45A	38A	45A	4	LSA38 SMAH1N U4 ¹⁾	1	0,40
16A	16A	16A	4	LSA16 SMAH1N U4ACDC ²⁾	1	0,40
25A	25A	25A	4	LSA25 SMAH1N U4ACDC ²⁾	1	0,40
32A	32A	32A	4	LSA32 SMAH1N U4ACDC ²⁾	1	0,40
45A	38A	45A	4	LSA38 SMAH1N U4ACDC ²⁾	1	0,40
16A	16A	-	4	LSA16 SMAH1N U4DC ³⁾	1	0,45
25A	25A	-	4	LSA25 SMAH1N U4DC ³⁾	1	0,45
32A	32A	-	4	LSA32 SMAH1N U4DC ³⁾	1	0,45
45A	38A	-	4	LSA38 SMAH1N U4DC ³⁾	1	0,45

1) For all applications, jumpers not included

2) Changeover Isolators AC/DC, 2 jumpers for DC side are enclosed

3) Changeover Isolators for DC, prewired

Technical Data

Kind of current	Category		Typical applications	Test conditions for the number of on-load operating cycles (normal service)						Test conditions for making and breaking capacities (operation in fault case)					
				Make I/I _e	U/U _e	L/R	Break I _c /I _e	U _r /U _e	L/R	Make I/I _e	U/U _e	L/R	Break I _c /I _e	U _r /U _e	L/R
Direct current	DC21A frequent operation	DC21B infrequent operation	Switching of resistive loads including moderate overloads	1	1	1ms	1	1	1ms	1,5	1,05	1ms	1,5	1,05	1ms
	DC22A frequent operation	DC22B infrequent operation	Switching of mixed resistive a. induct. loads incl. moderate overloads (shunt motors)	1	1	2ms	1	1	2ms	4	1,05	2,5ms	4	1,05	2,5ms
	DC-PV1		Switching of single PV string(s) without reverse- and overcurrents.	1	1	1ms	1	1	1ms	1,5	1,05	1ms	1,5	1,05	1ms
	DC-PV2		Switching of several PV strings with reverse- and overcurrents.	1	1	1ms	1	1	1ms	4	1,05	1ms	4	1,05	1ms

Data according to IEC 60947-3, VDE 0660, GB14048.3 (CCC China)

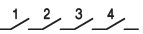
Main contacts			Type	LSA16	LSA25	LSA32	LSA38
Rated thermal current I _{th}			A	16	25	32	45
Rated insulation voltage U _i ¹⁾			V	1000	1000	1000	1000
Rated insulation voltage U _i ²⁾			V	1500	1500	1500	1500
Distance of contacts (per pole)			mm	8	8	8	8
Rated operational current I_e							
AC21B	A2, A4	U _e max. 440V	A	16	25	32	45
	A2 +2	U _e max. 440V	A	29	45	50	50

1) Suitable at overvoltage category I to III, pollution degree 3 (standard-industry): U_{imp} = 8kV.

2) Suitable at overvoltage category I to III, pollution degree 2 (min. IP55): U_{imp} = 8kV.

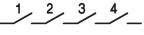
Technical Data

Data acc. to IEC 60947-3, VDE 0660

Main Contacts		Type	LSA16	LSA25	LSA32	LSA38
Rated operational current I_e DC-PV1	300V	A	16	23	27	-
	400V	A	14	22	25	-
1 pole A1 	500V	A	10	17	20	-
	600V	A	7	12	15	-
	700V	A	5	6	7,5	-
	800V	A	3	4	5	-
	900V	A	3	3	4	-
	1000V	A	2	2	3	-
2 poles in series A2 	500V	A	16	25	32	45
	600V	A	16	25	32	45
	700V	A	16	25	32	45
	800V	A	16	20	23	45
	900V	A	16	17	20	39
	1000V	A	10	11,5	13	29
	1100V	A	8	10	-	-
	1200V	A	7	8,5	10	16
	1300V	A	6	7	-	-
	1400V	A	5	6	-	-
	1500V	A	3	5	6	7
2 poles in series + 2 poles parallel A2+2 	500V	A	29	45	50	50
	600V	A	29	36	50	50
	700V	A	22	27	32	50
	800V	A	17	20	23	47
	900V	A	16	17	20	39
	1000V	A	10	11,5	13	29
	1100V	A	8	10	-	-
	1200V	A	7	8,5	10	16
	1300V	A	6	7	-	-
	1400V	A	5	6	-	-
	1500V	A	3	5	6	7
4 poles in series A4 	500V	A	16	25	32	45
	600V	A	16	25	32	45
	700V	A	16	25	32	45
	800V	A	16	25	32	45
	900V	A	16	25	32	45
	1000V	A	16	25	32	45
	1100V	A	16	25	-	-
	1200V	A	16	25	32	45
	1300V	A	16	25	-	-
	1400V	A	16	25	-	-
	1500V	A	16	25	32	45

Technical Data

Data acc. to IEC 60947-3, VDE 0660

Main Contacts		Type	LSA16	LSA25	LSA32	LSA38
Rated operational current I_o DC-PV2	300V	A	16	23	27	45
	400V	A	14	18	20	33
1 pole A1 	500V	A	10	12	14	15
	600V	A	5	6	8	9
	700V	A	1,5	2	3	6
	800V	A	1,5	2	3	5
	900V	A	1	1,5	2	4
	1000V	A	1	1,5	2	3
2 poles in series A2 	500V	A	16	25	32	45
	600V	A	14	21	27	45
	700V	A	13	19	22	40
	800V	A	12	15	17	30
	900V	A	8	10	12	20
	1000V	A	4	5	6	13
	1100V	A	3	4	-	-
	1200V	A	2	3	4	6
	1300V	A	1,5	2	-	-
	1400V	A	1	2	-	-
	1500V	A	1	1,5	2	3
2 poles in series + 2 poles parallel A2+2 	500V	A	25	39	50	50
	600V	A	20	32	35	50
	700V	A	13	19	22	40
	800V	A	12	15	17	30
	900V	A	8	10	12	20
	1000V	A	4	5	6	13
	1100V	A	3	4	-	-
	1200V	A	2	3	4	6
	1300V	A	1,5	2	-	-
	1400V	A	1	2	-	-
	1500V	A	1	1,5	2	3
4 poles in series A4 	500V	A	16	25	32	45
	600V	A	16	25	32	45
	700V	A	16	25	32	45
	800V	A	16	25	32	45
	900V	A	16	25	32	45
	1000V	A	16	25	32	45
	1100V	A	16	25	-	-
	1200V	A	13,5	21	27	42
	1300V	A	12	19	-	-
	1400V	A	10,5	16	-	-
	1500V	A	9	14	18	28

Technical Data

Data according to IEC 60947-3, VDE 0660

Main contacts				Type	LSA16	LSA25	LSA32	LSA38
Rated conditional short-circuit current				kA _{eff}	5	5	5	5
Max. fuse size gL (gG)				A	40	63	80	80
Mechanical life				x10 ³	10	10	10	10
Rated short-time withstand current (1s)	I _{cw}	A2, A4	A	800	900	1000	1000	
			A2+2	A	1300	1500	1700	1700
Short circuit making capacity	I _{cm}	A2, A4	A	800	900	1000	1000	
			A2+2	A	1300	1500	1700	1700
Maximum cable cross sections (incl. jumper LSAV-B1)								
solid or stranded				mm ²	0,5 - 10	0,5 - 10	0,5 - 10	0,5 - 10
flexible				mm ²	0,5 - 6	0,5 - 6	0,5 - 6	0,5 - 6
flexible (+ multicore cable end)				mm ²	0,5 - 6	0,5 - 6	0,5 - 6	0,5 - 6
Size of terminal screw					M4 Pz1	M4 Pz1	M4 Pz1	M4 Pz1
Tightening torque				Nm	1,4	1,4	1,4	1,4
2 cables per clamp without jumper LSAV-B1								
solid or stranded				mm ²	10+(1,5-2,5) / 6+(1,5-6) / 4+(1,5-4)			
flexible				mm ²	(0,5-6)+(0,5-6)			
stranded				AWG	6+(20-14) / 8+(20-12) / 10+(20-10) 12+(20-12)			
solid				AWG	10+(16-10) / 12+(16-12) 14+(16-14)			
Maximum ambient temperature								
Operation		open	°C	-40 to +65				
		enclosed	°C					
Storage			°C	-50 to +90				
Power loss per switch at I _e max.								
A2				(A)/W	(16)/1	(25)/2,3	(32)/3,7	(45)/7,1
A4				(A)/W	(16)/2	(25)/4,6	(32)/7,4	(45)/14,2
A2+2				(A)/W	(29)/1,5	(45)/3,7	(50)/4,4	(50)/4,4
Contact resistance per pole				mΩ	1,75	1,75	1,75	1,75

Technical Data

Data according to UL508I  File E359344, Category no.: NMSJ, and UL60947-1  File E332938, Category no.: NRNT2,

Main contacts	Type	LSA16	LSA25	LSA32	LSA38
Ampere-Rating "General use"	DC				
1 pole	350V	4	5	6	20
	500V	4	5	6	12
	600V	4	5	6	9
2 poles in series	350V	16	25	32	45
A2	500V	16	25	32	45
	600V	16	25	32	40
2 poles in series	350V	29	45	50	50
+ 2 poles parallel	500V	29	41	43	45
A2+2	600V	21	30	33	40
					
4 poles in series	350V	16	25	32	45
A4	500V	16	25	32	45
	600V	16	25	32	45
Fuse size (RK5) Industrial Control Switch					
5kA / 600V	A	40	60	80	80
Maximum cable cross sections (incl. jumper LSAV-B1)					
solid or stranded	AWG	16 - 10	16 - 10	16 - 10	16 - 10
flexible	AWG	20 - 6	20 - 6	20 - 6	20 - 6
flexible (+ multicore cable end)	AWG	20 - 6	20 - 6	20 - 6	20 - 6
Size of terminal screw		M4 Pz1	M4 Pz1	M4 Pz1	M4 Pz1
Tightening torque	lb.inch	12,4	12,4	12,4	12,4
Protection class of terminals ¹⁾		IP20	IP20	IP20	IP20

Approvals

Country	USA, UL508I	US, Canada UL508	Europe	China CCC	CB- certificates	EAC
						
Type						
LSA16	o	o	/	o	x	o
LSA25	o	o	/	o	x	o
LSA32	o	o	/	o	x	o
LSA38	o	o	/	o	x	o
o In standard version approved / No testing required CE x pending - not provided for testing till now						

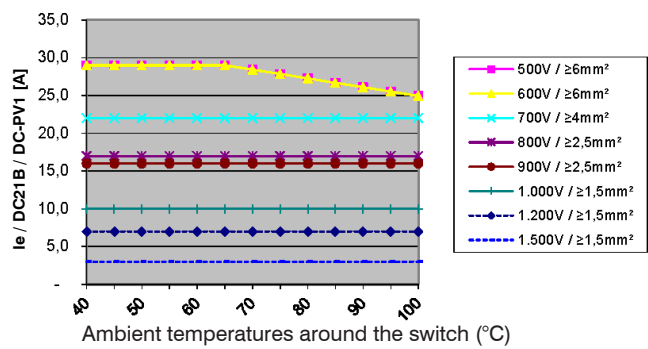
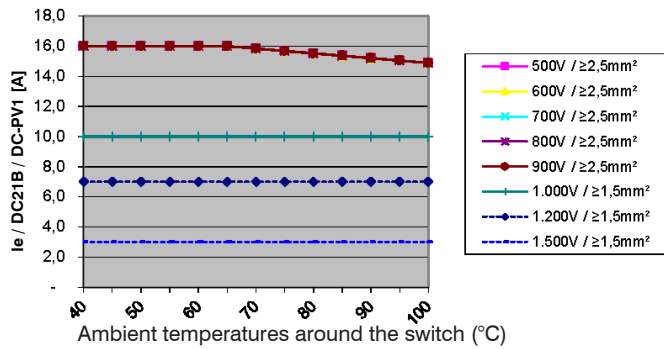
1) Protection degree of the terminals with connected insulated conductor.

Technical Data

Example for maximum currents according to ambient temperatures and cable cross sections:

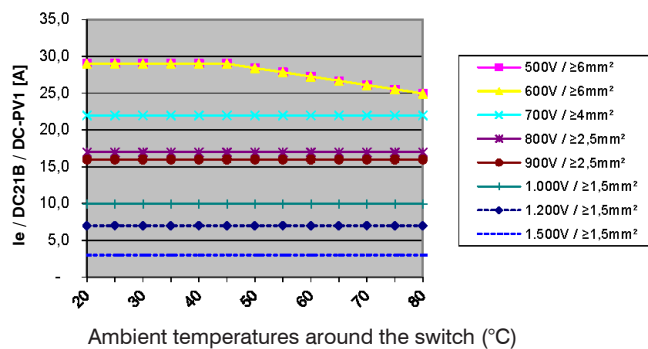
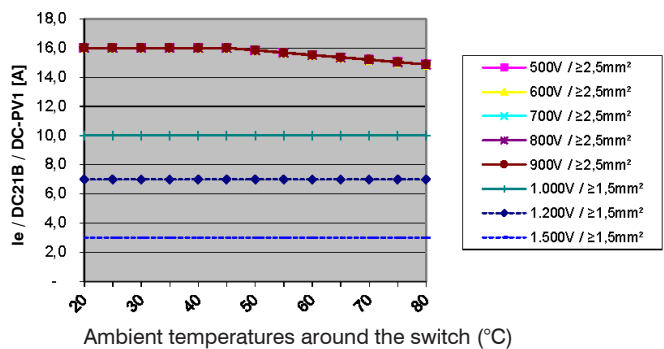
Switch **open** LSA16..., 2 contacts in series (A2)

Switch **open** LSA16 ..., 2 contacts in series + 2 parallel (A2+2)



Switch **enclosed** LSA16 PFL..., 2 contacts in series (A2)

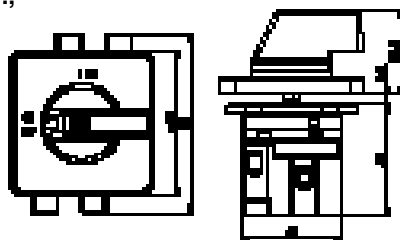
Switch **enclosed** LSA16 PFL..., 2 contacts in series + 2 parallel (A2+2)



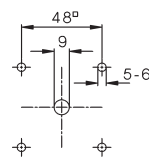
All data about maximum currents according to ambient temperatures and cable cross sections for switches LSA16.. to LSA38.. (open or enclosed) please find under ➡ www.benedict.at (Button "Customers").

Dimensions:

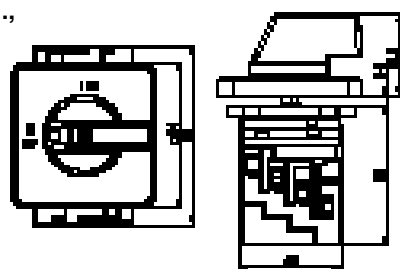
LSA16 E.. up to LSA38 E..
..A2



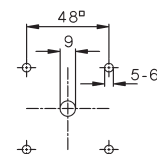
Mounting hole



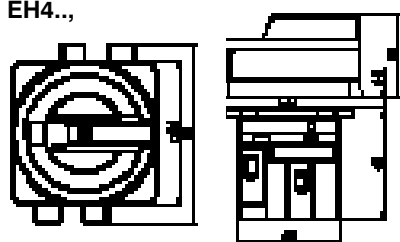
LSA16 E.. up to LSA38 E..
..A2+2, ..A4



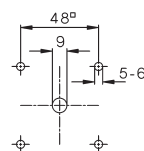
Mounting hole



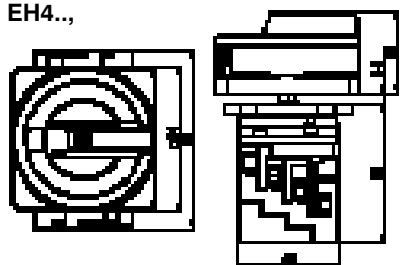
LSA16 EH4.. up to LSA38 EH4..
..A2



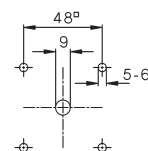
Mounting hole



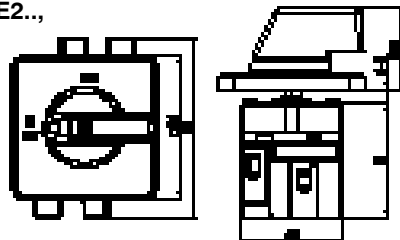
LSA16 EH4.. up to LSA38 EH4..
..A2+2, ..A4



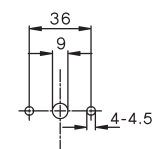
Mounting hole



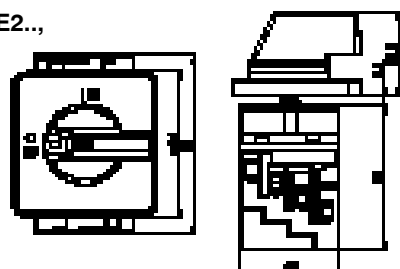
LSA16 E2.. up to LSA38 E2..
..A2



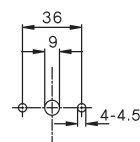
Mounting hole



LSA16 E2.. up to LSA38 E2..
..A2+2, ..A4

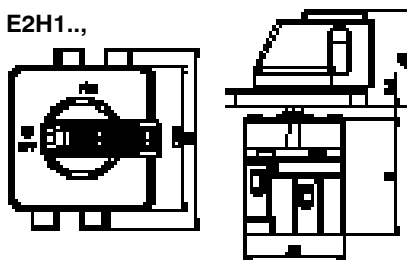


Mounting hole

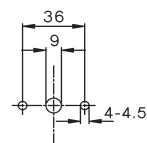


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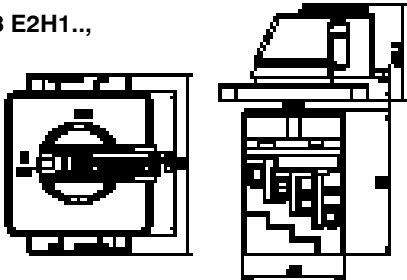
LSA16 E2H1.. up to LSA38 E2H1...,
..A2



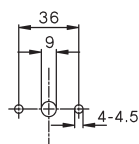
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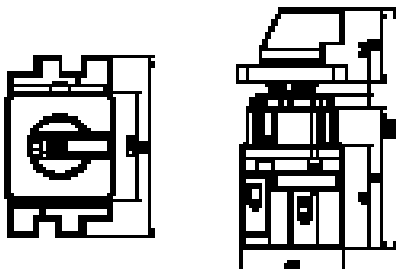
LSA16 E2H1.. up to LSA38 E2H1...,
..A2+2, ..A4



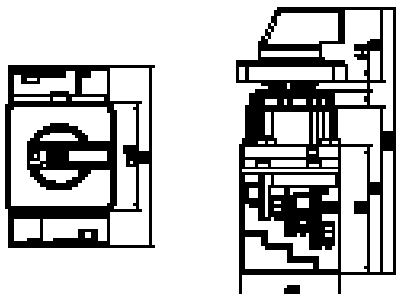
Mounting hole



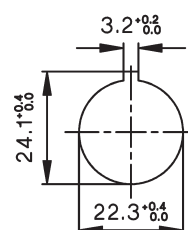
LSA16 Z.. up to LSA38 Z...,
..A2



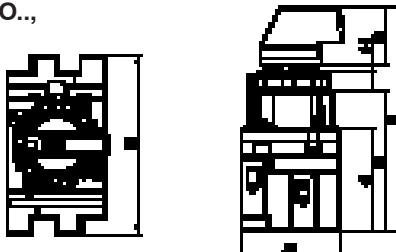
LSA16 Z.. up to LSA38 Z...,
..A2+2, ..A4



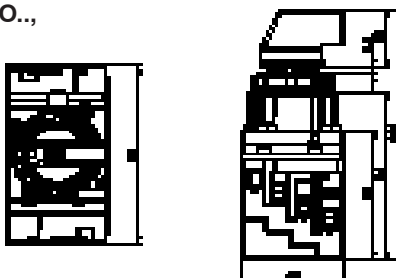
Detailed view - Mounting
hole for LSA16 Z(O)..
up to LSA38 Z(O)..



LSA16 ZO.. up to LSA38 ZO...,
..A2

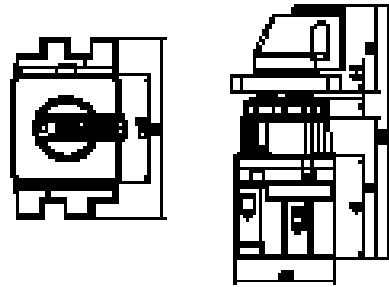


LSA16 ZO.. up to LSA38 ZO...,
..A2+2, ..A4

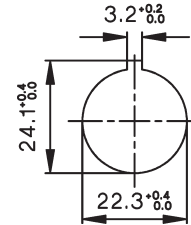


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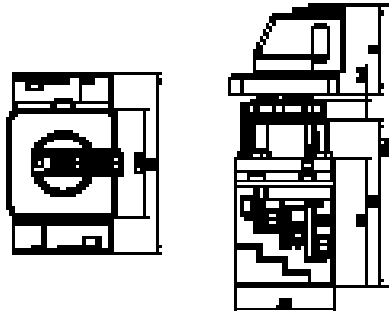
LSA16 ZH1.. up to LSA38 ZH1...,
..A2



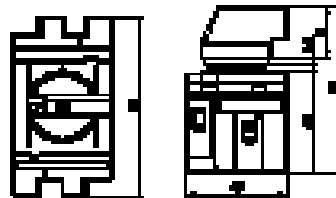
Detailed view - Mounting
hole for LSA16 ZH1..
up to LSA38 ZH1..



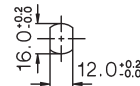
LSA16 ZH1.. up to LSA38 ZH1...,
..A2+2, ..A4



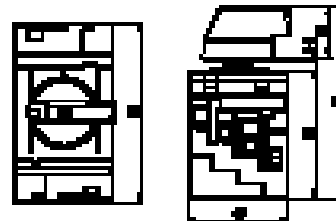
LSA16 Z16.. up to LSA38 Z16...,
..A2



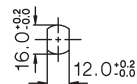
Mounting hole



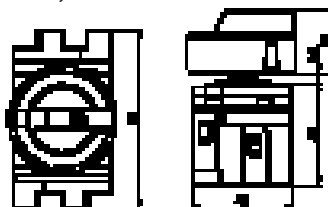
LSA16 Z16.. up to LSA38 Z16...,
..A2+2, ..A4



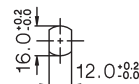
Mounting hole



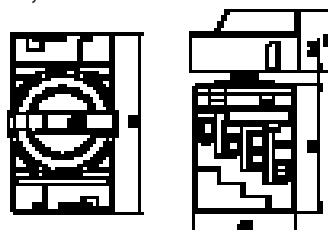
LSA16 ZH448.. up to LSA38 Z16H448...,
..A2



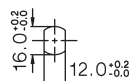
Mounting hole



LSA16 ZH448.. up to LSA38 ZH448...,
..A2+2, ..A4

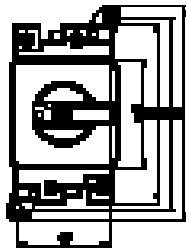


Mounting hole



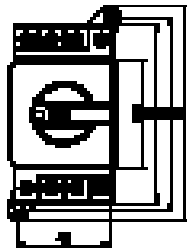
Dimensions:

LSA16 VZV.. up to LSA38 VZV...
..A2



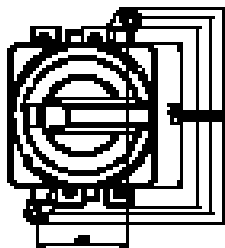
$X_{\max} = 182, L = 155,5$
 $(X_{\min} = 59,5)$
 $L = X - 26,5 \pm 3$

LSA16 VZV.. up to LSA38 VZV...
..A2+2, ..A4



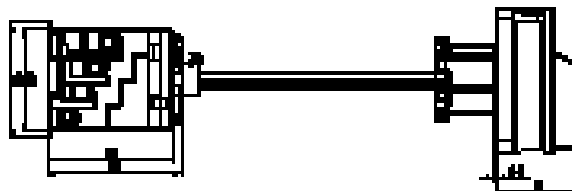
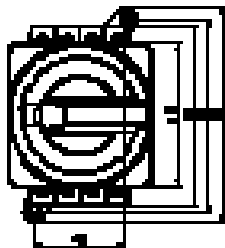
$X_{\max} = 194, L = 155,5$
 $(X_{\min} = 71,5)$
 $L = X - 38,5 \pm 3$

LSA16 VZVH4.. up to LSA38 VZVH4...
..A2



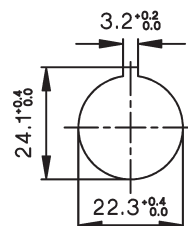
$X_{\max} = 182, L = 155,5$
 $(X_{\min} = 59,5)$
 $L = X - 26,5 \pm 3$

LSA16 VZVH4.. up to LSA38 VZVH4...
..A2+2, ..A4



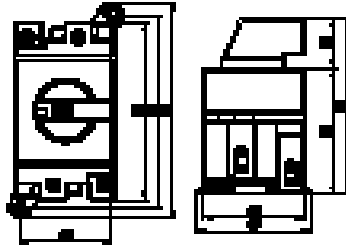
$X_{\max} = 194, L = 155,5$
 $(X_{\min} = 71,5)$
 $L = X - 38,5 \pm 3$

Detailed view - Mounting
hole for LSA16 VZV(H)..
up to LSA38 VZV(H)..

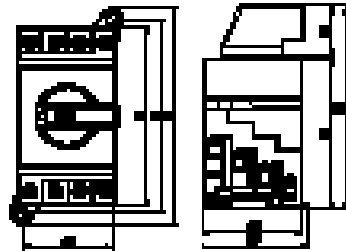


Dimensions:

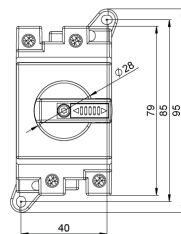
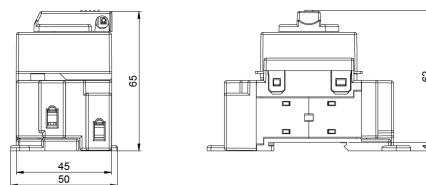
LSA16 SMA.. up to LSA38 SMA..
..A2



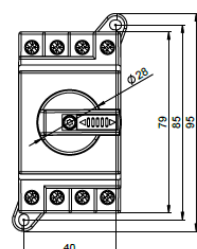
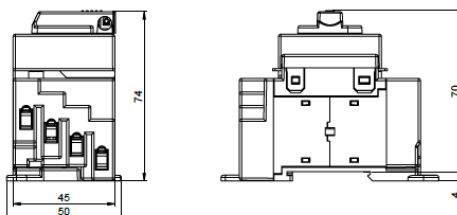
LSA16 SMA.. up to LSA38 SMA..
..A2+2, ..A4



LSA16 SMAH1N.. up to LSA38 SMAH1N..
..A2

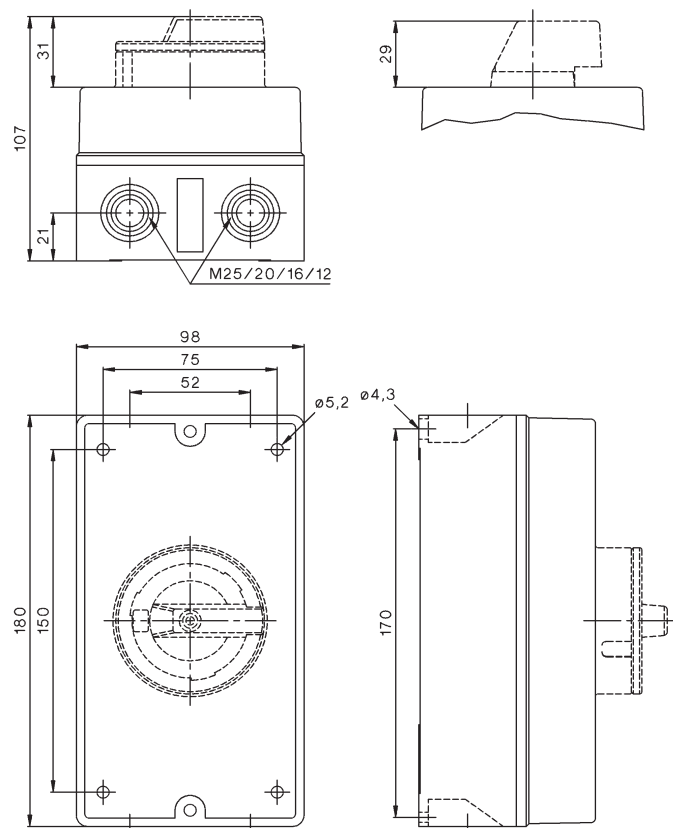


LSA16 SMAH1N.. up to LSA38 SMAH1N..
..A2+2, ..A4



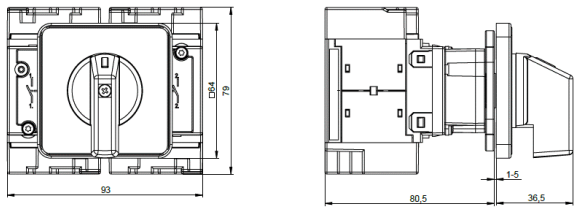
Dimensions:

LSA16 PFLH4.. up to LSA38 PFLH4..
..A2, ..A2+2, ..A4

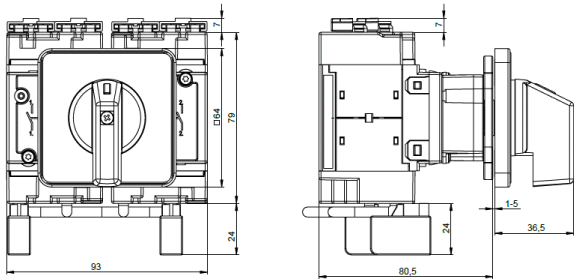


Dimensions:

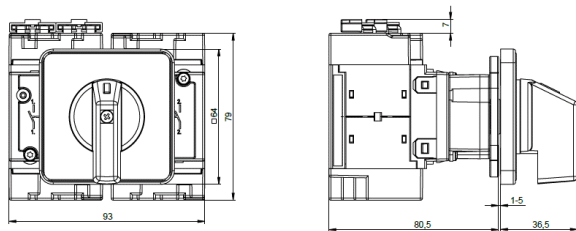
LSA16 E U4 up to LSA38 E U4



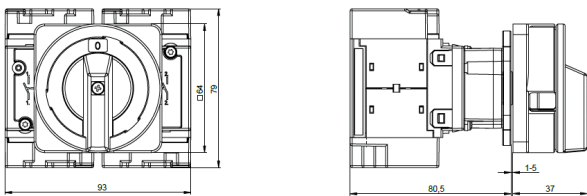
LSA16 E U4DC up to LSA38 E U4DC



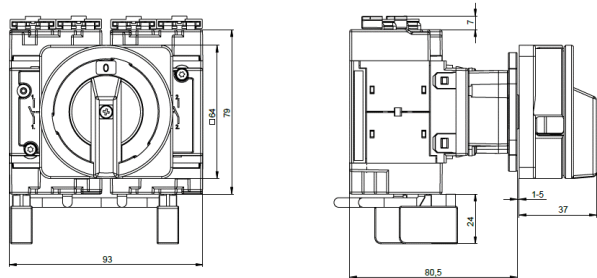
LSA16 EH4 U4ACDC up to LSA38 EH4 U4ACDC



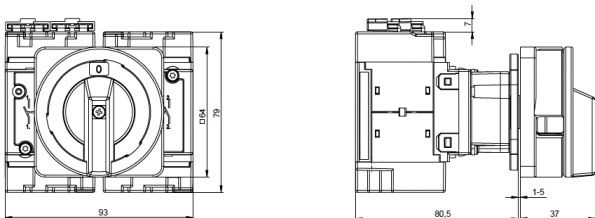
LSA16 EH4 U4 up to LSA38 EH4 U4



LSA16 EH4 U4DC up to LSA38 EH4 U4DC

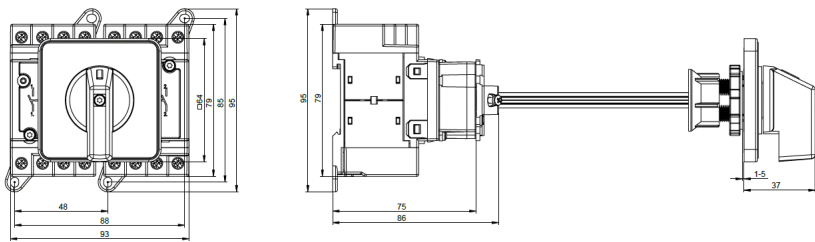


LSA16 EH4 U4ACDC up to LSA38 EH4 U4ACDC

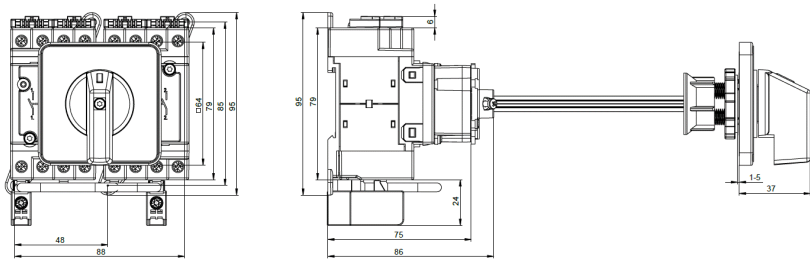


Dimensions:

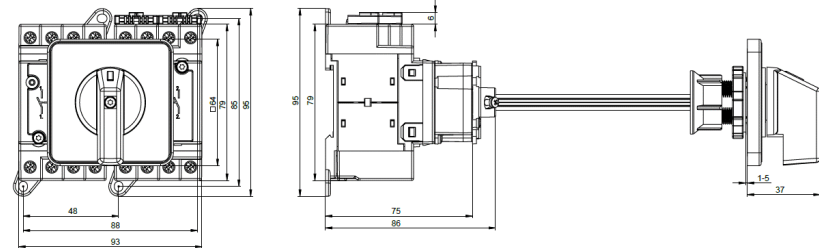
LSA16 VZV U4 up to LSA38 VZV U4



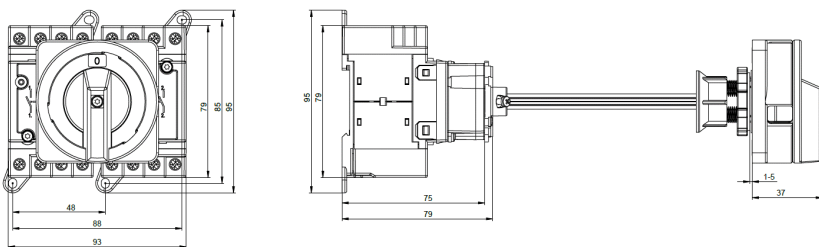
LSA16 VZV U4DC up to LSA38 VZV U4DC



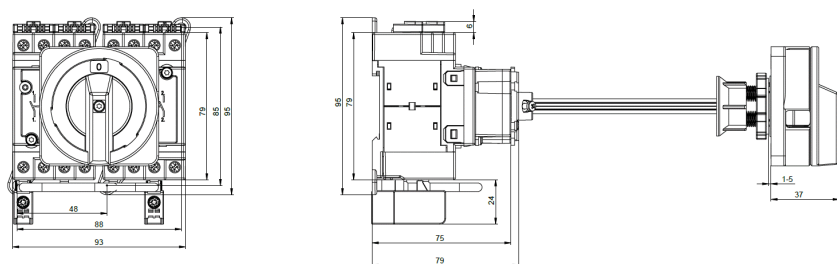
LSA16 VZV U4ACDC up to LSA38 VZV U4ACDC



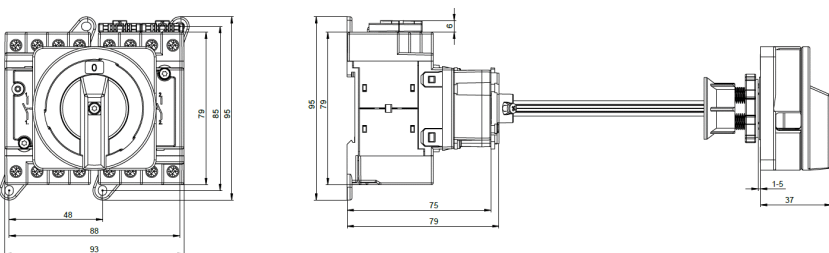
LSA16 VZVH4 U4 up to LSA38 VZVH4 U4



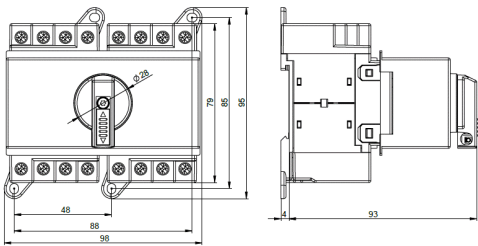
LSA16 VZVH4 U4DC up to LSA38 VZVH4 U4DC



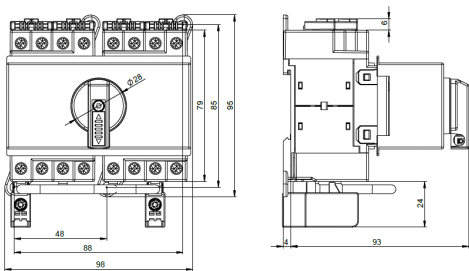
LSA16 VZVH4 U4ACDC up to LSA38 VZVH4 EH4 U4ACDC



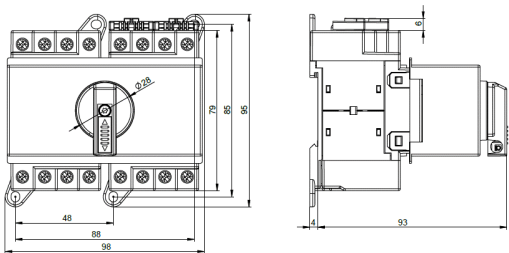
LSA16 SMAH1N U4 up to LSA38 SMAH1N U4



LSA16 SMAH1N U4DC up to LSA38 SMAH1N U4DC

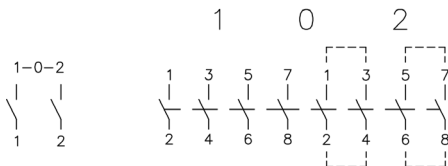
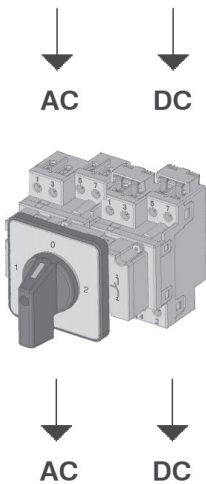


LSA16 SMAH1N U4 ACDC up to LSA38 SMAH1N U4ACDC

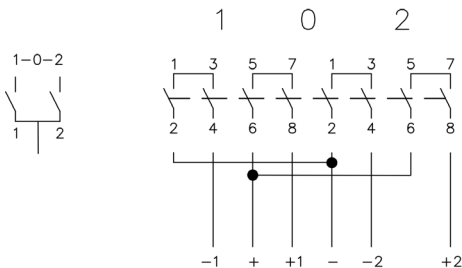
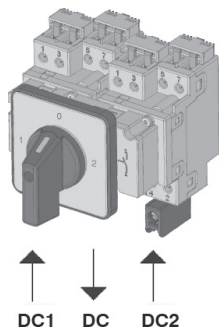


Changeover Isolators - Applications:

LSA.. U4ACDC (2 pcs. jumpers attached)

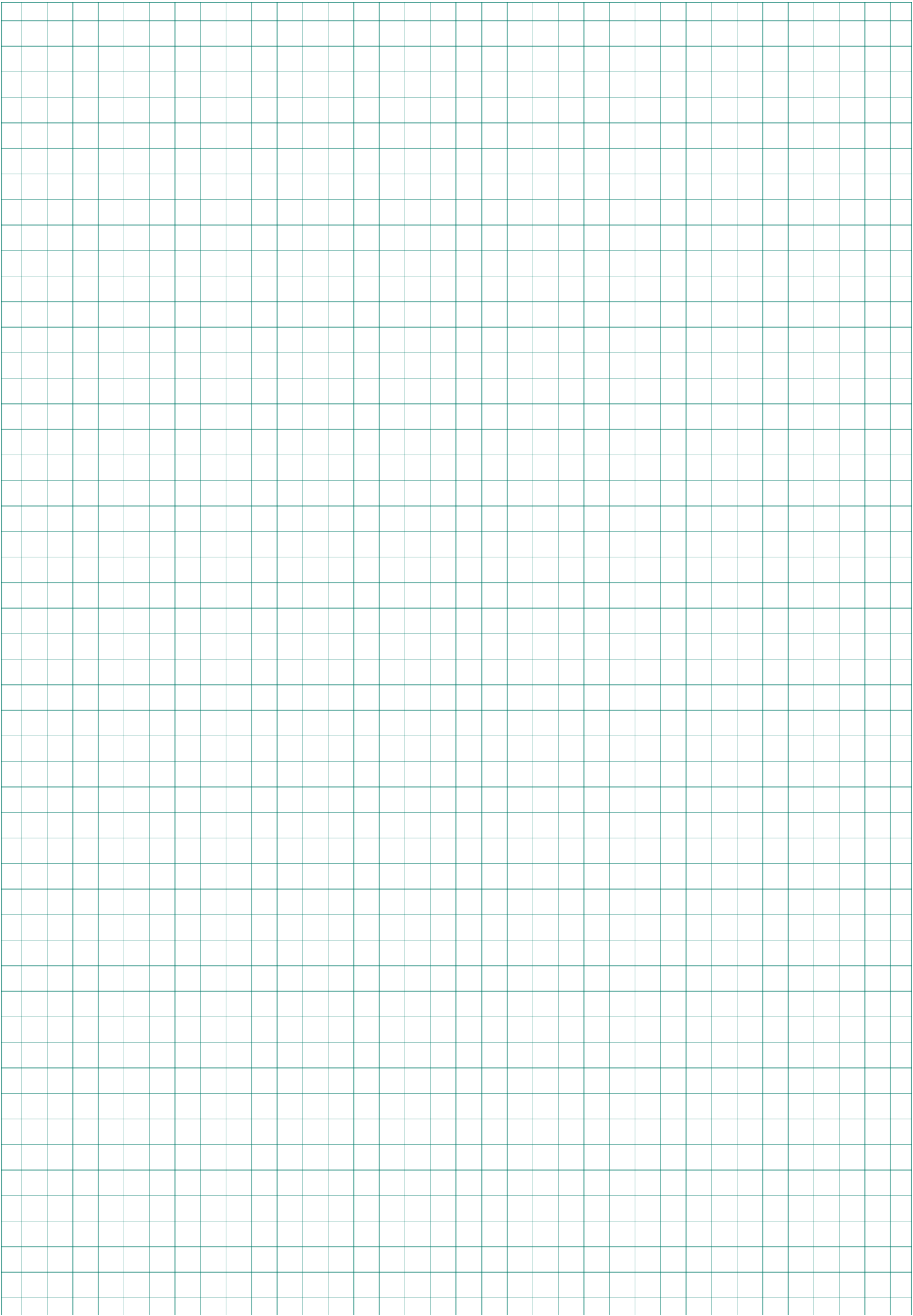


LSA.. U4DC (prewired)



Isolated jumpers LSAV-.. for Series and Parallel switching of contacts:

Type	LSA 16	LSA 25	LSA 32	LSA 38
A4O A4U A4B	2 x  LSAV-B1-1 			2 x  LSAV-B1-2 
A2+2	4 x  LSAV-B1-1 			





Quality made in 

D1080E261



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