

# Mini DC - Isolators for Photovoltaic

acc. to IEC 60364-7-712



Quality made 

D1080E241



**Contactors  
Motor-Starters**

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

Catalogue **D677E..**



**Circuit  
Breakers**

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

Catalogue **D795E..**



**Switches**

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

Catalogue **D371E..**



**Main  
Switches**

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

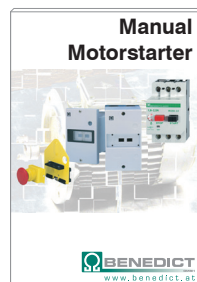
Catalogue **D656E..**



**Capacitor Switching  
Contactors**

Contactors for reactive and  
non reactive capacitor banks

Catalogue **D385E..**



**Manual  
Motorstarter**

MU25A up to 32A  
Auxiliary Contact Blocks  
Trip Alarm Auxiliary Switches  
Busbar Connectors  
Enclosure

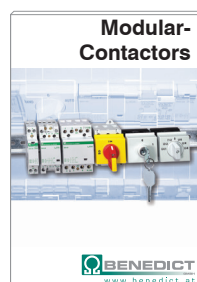
Catalogue **D509E..**



**Push Buttons**

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

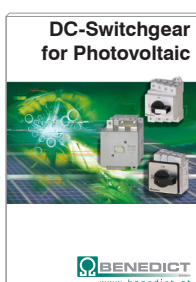
Catalogue **D580E..**



**Modular-  
Contactors**

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

Catalogue **D681E..**



**DC-Switchgear  
for Photovoltaic**

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

Catalogue **D911E..**



**Low Voltage  
Control Gear**

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

Catalogue **D651E..**



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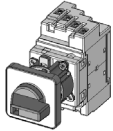


Mini DC-Isolators for Panel Mounting (2 holes)

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

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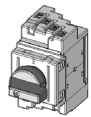


Mini DC-Isolators for Single Hole Mounting (Ø22,5mm)

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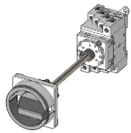


Mini DC-Isolators for Single Hole Mounting (Ø16mm)

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

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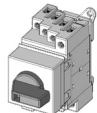


Mini DC-Isolators for Base Mounting

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Lockable Mini DC-Isolators for Base Mounting

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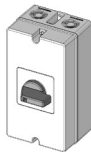


Mini DC-Isolators for Distribution Boards

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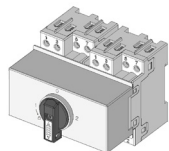
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## Ratings

### Rated Current

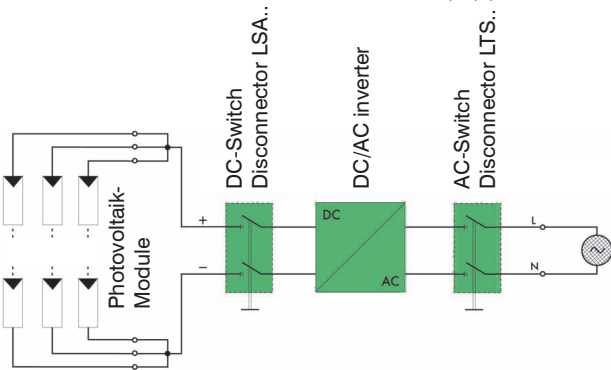
Type	$I_{th}$ open A	DC21B(DC-PV1) 4 poles in series A	at $U_e$ V
<b>LSA16</b>	16	<b>16</b>	1500
<b>LSA25</b>	25	<b>25</b>	1500
<b>LSA32</b>	32	<b>32</b>	1500
<b>LSA38</b>	45	<b>45</b>	1500
<b>LSMO16</b>	16	<b>16</b>	1500
<b>LSMO25</b>	25	<b>25</b>	1500
<b>LSMO32</b>	32	<b>32</b>	1500
<b>LSMO38</b>	45	<b>45</b>	1500

## Mini DC-Switch Disconnectors

Design	Panel mounting 4 hole mounting IP66 <sup>1)</sup> $\leq U_L$ as Type 3R	Panel mounting 2 hole mounting IP66 <sup>1)</sup> $\leq U_L$ as Type 3R	Single hole Ø22,5mm IP66 <sup>1)</sup> $\leq U_L$ as Type 4X	Single hole Ø16mm IP66 <sup>1)</sup> $\leq U_L$ as Type 4X
	..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..
	..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.

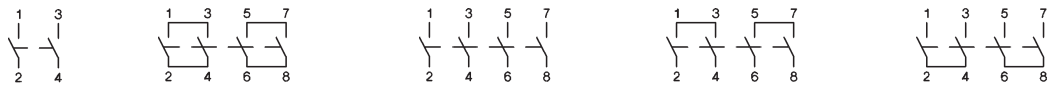
### Mounting positions:

No limitations, all kind of positions allowed.

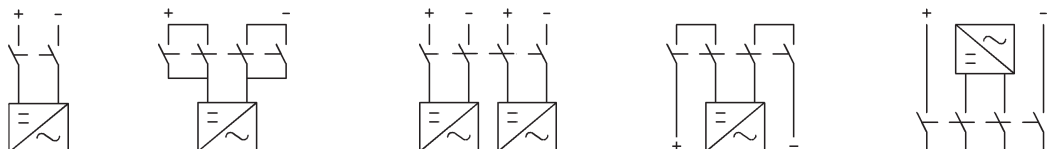
## Switching programs

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
<b>LSA16 ... LSA38</b>	.. A2	.. A2+2	.. A4(2 x A2)	.. A4O	.. A4U

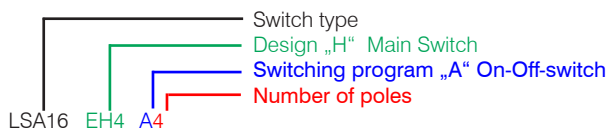
Contact  
Wiring diagram



Switching example




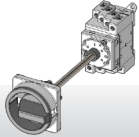
## Ordering




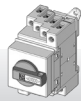
1) Protection in front and built in

## Mini DC-Switch Disconnectors

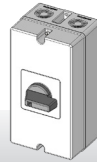
Base mounting with door coupling, single hole, Ø22,5mm, IP66<sup>1)</sup> 



Modular Switch IP40<sup>1)</sup> 



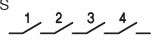
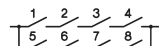


Plastic enclosed PFL..IP67<sup>1)</sup> 



..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 	<b>LSA16..</b> A	16	16	16	16	16	10	7	3	16	14	12	4
	<b>LSA25..</b> A	25	25	25	20	17	11,5	8,5	5	25	21	15	5
	<b>LSA32..</b> A	32	32	32	23	20	13	10	6	32	27	17	6
	<b>LSA38..</b> A	45	45	45	45	39	29	16	7	45	45	30	13
2 Poles in Series + 2 parallel 	<b>LSA16..</b> A	29	29	22	17	16	10	7	3	25	20	12	4
	<b>LSA25..</b> A	45	36	27	20	17	11,5	8,5	5	39	32	15	5
	<b>LSA32..</b> A	50	50	32	23	20	13	10	6	50	35	17	6
	<b>LSA38..</b> A	50	50	50	47	39	29	16	7	50	50	30	13
4 Poles in Series 	<b>LSA16..</b> A	16	16	16	16	16	16	16	16	16	16	16	16
	<b>LSA25..</b> A	25	25	25	25	25	25	25	25	25	25	25	25
	<b>LSA32..</b> A	32	32	32	32	32	32	32	32	32	32	32	32
	<b>LSA38..</b> A	45	45	45	45	45	45	45	45	45	45	45	45
4 Poles in Series + 2 parallel 	<b>LSMO16..</b> A	29	29	29	29	29	29	29	20	29	29	21	16
	<b>LSMO25..</b> A	45	45	45	45	45	45	33	26	45	45	35	25
	<b>LSMO32..</b> A	50	50	50	50	50	50	50	32	50	50	45	32
	<b>LSMO38..</b> A	50	50	50	50	50	50	50	32	50	50	50	50

## Switching programs

Type

6-poles

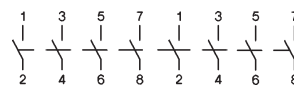
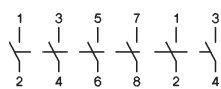
8-poles

**LSMO16 ... LSMO38**

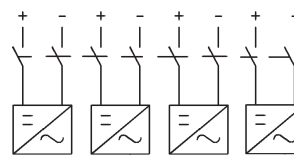
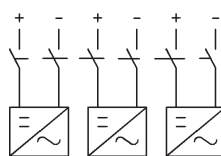
...A6

...A8

Contact  
Wiring diagram



Switching example



Isolated jumpers LSAV... and LSM(O)V... 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

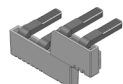
9,00 g/pce.

**LSA16 ... LSA38 (A2+2)**

**LSAV-B1-1**

100

4,80 g/pce.



**LSMO16 ... LSMO38 (A4+2)**

**LSMV-B1-1**

100

8,90 g/pce.

**LSMO16 ... LSMO38 (A4+2)**

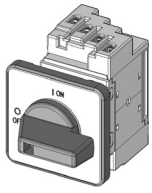
**LSMOV-B1-1**

100

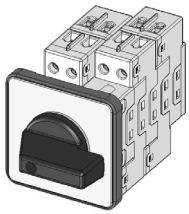
17 g/pce.

1) Protection from front and built in

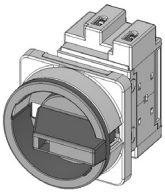
## Mini DC-Isolators for Panel Mounting, 4 holes, Plate 64, IP66, Type 3R



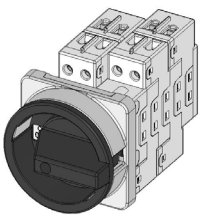
DC-PV1 (=DC21B)		Poles in Series	Number of Strings	Type	Pack pcs.	Weight kg/pce.
600V	1000V					
16A	10A	2	1	<b>LSA16 E A2</b>	1	0,18
25A	11,5A	2	1	<b>LSA25 E A2</b>	1	0,18
32A	13A	2	1	<b>LSA32 E A2</b>	1	0,18
45A	29A	2	1	<b>LSA38 E A2</b>	1	0,18
29A	10A	2	1	<b>LSA16 E A2+2</b>	1	0,24
36A	11,5A	2	1	<b>LSA25 E A2+2</b>	1	0,24
50A	13A	2	1	<b>LSA32 E A2+2</b>	1	0,24
50A	29A	2	1	<b>LSA38 E A2+2</b>	1	0,24
16A	10A	2	2	<b>LSA16 E A4</b>	1	0,23
25A	11,5A	2	2	<b>LSA25 E A4</b>	1	0,23
32A	13A	2	2	<b>LSA32 E A4</b>	1	0,23
45A	29A	2	2	<b>LSA38 E A4</b>	1	0,23
16A	16A	4	1	<b>LSA16 E A4O</b>	1	0,25
25A	25A	4	1	<b>LSA25 E A4O</b>	1	0,25
32A	32A	4	1	<b>LSA32 E A4O</b>	1	0,25
45A	45A	4	1	<b>LSA38 E A4O</b>	1	0,25
16A	16A	4	1	<b>LSA16 E A4U</b>	1	0,25
25A	25A	4	1	<b>LSA25 E A4U</b>	1	0,25
32A	32A	4	1	<b>LSA32 E A4U</b>	1	0,25
45A	45A	4	1	<b>LSA38 E A4U</b>	1	0,25
16A	10A	2	3	<b>LSMO16 E A6</b>	1	0,50
25A	11,5A	2	3	<b>LSMO25 E A6</b>	1	0,50
32A	13A	2	3	<b>LSMO32 E A6</b>	1	0,50
45A	20A	2	3	<b>LSMO38 E A6</b>	1	0,50
16A	10A	2	4	<b>LSMO16 E A8</b>	1	0,52
25A	11,5A	2	4	<b>LSMO25 E A8</b>	1	0,52
32A	13A	2	4	<b>LSMO32 E A8</b>	1	0,52
45A	20A	2	4	<b>LSMO38 E A8</b>	1	0,52



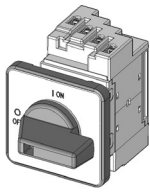
## Lockable Mini DC-Isolators for Panel Mounting, 4 holes, Plate 64, IP66, Type 3R LISTED



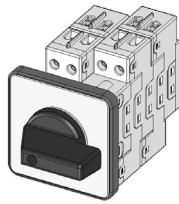
16A	10A	2	1	<b>LSA16 EH4 A2</b>	1	0,19
25A	11,5A	2	1	<b>LSA25 EH4 A2</b>	1	0,19
32A	13A	2	1	<b>LSA32 EH4 A2</b>	1	0,19
45A	29A	2	1	<b>LSA38 EH4 A2</b>	1	0,19
29A	10A	2	1	<b>LSA16 EH4 A2+2</b>	1	0,25
36A	11,5A	2	1	<b>LSA25 EH4 A2+2</b>	1	0,25
50A	13A	2	1	<b>LSA32 EH4 A2+2</b>	1	0,25
50A	29A	2	1	<b>LSA38 EH4 A2+2</b>	1	0,25
16A	10A	2	2	<b>LSA16 EH4 A4</b>	1	0,24
25A	11,5A	2	2	<b>LSA25 EH4 A4</b>	1	0,24
32A	13A	2	2	<b>LSA32 EH4 A4</b>	1	0,24
45A	29A	2	2	<b>LSA38 EH4 A4</b>	1	0,24
16A	16A	4	1	<b>LSA16 EH4 A4O</b>	1	0,26
25A	25A	4	1	<b>LSA25 EH4 A4O</b>	1	0,26
32A	32A	4	1	<b>LSA32 EH4 A4O</b>	1	0,26
45A	45A	4	1	<b>LSA38 EH4 A4O</b>	1	0,26
16A	16A	4	1	<b>LSA16 EH4 A4U</b>	1	0,26
25A	25A	4	1	<b>LSA25 EH4 A4U</b>	1	0,26
32A	32A	4	1	<b>LSA32 EH4 A4U</b>	1	0,26
45A	45A	4	1	<b>LSA38 EH4 A4U</b>	1	0,26
16A	10A	2	3	<b>LSMO16 EH4 A6</b>	1	0,51
25A	11,5A	2	3	<b>LSMO25 EH4 A6</b>	1	0,51
32A	13A	2	3	<b>LSMO32 EH4 A6</b>	1	0,51
45A	20A	2	3	<b>LSMO38 EH4 A6</b>	1	0,51
16A	10A	2	4	<b>LSMO16 EH4 A8</b>	1	0,53
25A	11,5A	2	4	<b>LSMO25 EH4 A8</b>	1	0,53
32A	13A	2	4	<b>LSMO32 EH4 A8</b>	1	0,53
45A	20A	2	4	<b>LSMO38 EH4 A8</b>	1	0,53



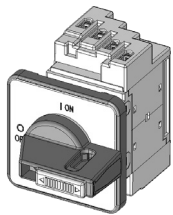
## Mini DC-Isolators for Single Hole Mounting, 2 holes, Plate 64, IP66, Type 3R



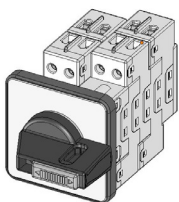
DC-PV1 (=DC21B)		Poles in Series	Number of Strings	Type	Pack pcs.	Weight kg/pce.
600V	1000V					
16A	10A	2	1	<b>LSA16 E2 A2</b>	1	0,18
25A	11,5A	2	1	<b>LSA25 E2 A2</b>	1	0,18
32A	13A	2	1	<b>LSA32 E2 A2</b>	1	0,18
45A	29A	2	1	<b>LSA38 E2 A2</b>	1	0,18
29A	10A	2	1	<b>LSA16 E2 A2+2</b>	1	0,24
36A	11,5A	2	1	<b>LSA25 E2 A2+2</b>	1	0,24
50A	13A	2	1	<b>LSA32 E2 A2+2</b>	1	0,24
50A	29A	2	1	<b>LSA38 E2 A2+2</b>	1	0,24
16A	10A	2	2	<b>LSA16 E2 A4</b>	1	0,23
25A	11,5A	2	2	<b>LSA25 E2 A4</b>	1	0,23
32A	13A	2	2	<b>LSA32 E2 A4</b>	1	0,23
45A	29A	2	2	<b>LSA38 E2 A4</b>	1	0,23
16A	16A	4	1	<b>LSA16 E2 A4O</b>	1	0,25
25A	25A	4	1	<b>LSA25 E2 A4O</b>	1	0,25
32A	32A	4	1	<b>LSA32 E2 A4O</b>	1	0,25
45A	45A	4	1	<b>LSA38 E2 A4O</b>	1	0,25
16A	16A	4	1	<b>LSA16 E2 A4U</b>	1	0,25
25A	25A	4	1	<b>LSA25 E2 A4U</b>	1	0,25
32A	32A	4	1	<b>LSA32 E2 A4U</b>	1	0,25
45A	45A	4	1	<b>LSA38 E2 A4U</b>	1	0,25
16A	10A	2	3	<b>LSMO16 E2 A6</b>	1	0,50
25A	11,5A	2	3	<b>LSMO25 E2 A6</b>	1	0,50
32A	13A	2	3	<b>LSMO32 E2 A6</b>	1	0,50
45A	20A	2	3	<b>LSMO38 E2 A6</b>	1	0,50
16A	10A	2	4	<b>LSMO16 E2 A8</b>	1	0,52
25A	11,5A	2	4	<b>LSMO25 E2 A8</b>	1	0,52
32A	13A	2	4	<b>LSMO32 E2 A8</b>	1	0,52
45A	20A	2	4	<b>LSMO38 E2 A8</b>	1	0,52



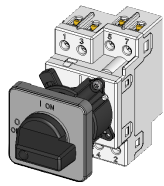
## Mini DC-Isolators for Panel Mounting, 2 holes, Plate 64, IP66, Type 3R



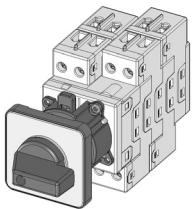
16A	10A	2	1	<b>LSA16 E2H1 A2</b>	1	0,19
25A	11,5A	2	1	<b>LSA25 E2H1 A2</b>	1	0,19
32A	13A	2	1	<b>LSA32 E2H1 A2</b>	1	0,19
45A	29A	2	1	<b>LSA38 E2H1 A2</b>	1	0,19
29A	10A	2	1	<b>LSA16 E2H1 A2+2</b>	1	0,25
36A	11,5A	2	1	<b>LSA25 E2H1 A2+2</b>	1	0,25
50A	13A	2	1	<b>LSA32 E2H1 A2+2</b>	1	0,25
50A	29A	2	1	<b>LSA38 E2H1 A2+2</b>	1	0,25
16A	10A	2	2	<b>LSA16 E2H1 A4</b>	1	0,24
25A	11,5A	2	2	<b>LSA25 E2H1 A4</b>	1	0,24
32A	13A	2	2	<b>LSA32 E2H1 A4</b>	1	0,24
45A	29A	2	2	<b>LSA38 E2H1 A4</b>	1	0,24
16A	16A	4	1	<b>LSA16 E2H1 A4O</b>	1	0,26
25A	25A	4	1	<b>LSA25 E2H1 A4O</b>	1	0,26
32A	32A	4	1	<b>LSA32 E2H1 A4O</b>	1	0,26
45A	45A	4	1	<b>LSA38 E2H1 A4O</b>	1	0,26
16A	16A	4	1	<b>LSA16 E2H1 A4U</b>	1	0,26
25A	25A	4	1	<b>LSA25 E2H1 A4U</b>	1	0,26
32A	32A	4	1	<b>LSA32 E2H1 A4U</b>	1	0,26
45A	45A	4	1	<b>LSA38 E2H1 A4U</b>	1	0,26
16A	10A	2	3	<b>LSMO16 E2H1 A6</b>	1	0,51
25A	11,5A	2	3	<b>LSMO25 E2H1 A6</b>	1	0,51
32A	13A	2	3	<b>LSMO32 E2H1 A6</b>	1	0,51
45A	20A	2	3	<b>LSMO38 E2H1 A6</b>	1	0,51
16A	10A	2	4	<b>LSMO16 E2H1 A8</b>	1	0,53
25A	11,5A	2	4	<b>LSMO25 E2H1 A8</b>	1	0,53
32A	13A	2	4	<b>LSMO32 E2H1 A8</b>	1	0,53
45A	20A	2	4	<b>LSMO38 E2H1 A8</b>	1	0,53



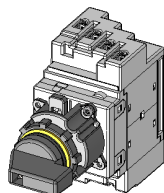
## Mini DC-Isolators for Single Hole Mounting, Ø22,5mm, Plate 48, IP66, Type 4X



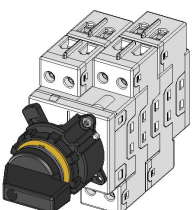
DC-PV1 (=DC21B)		Poles in Series	Number of Strings	Type	Pack pcs.	Weight kg/pce.
600V	1000V					
16A	10A	2	1	<b>LSA16 Z A2</b>	1	0,17
25A	11,5A	2	1	<b>LSA25 Z A2</b>	1	0,17
32A	13A	2	1	<b>LSA32 Z A2</b>	1	0,17
45A	29A	2	1	<b>LSA38 Z A2</b>	1	0,17
29A	10A	2	1	<b>LSA16 Z A2+2</b>	1	0,22
36A	11,5A	2	1	<b>LSA25 Z A2+2</b>	1	0,22
50A	13A	2	1	<b>LSA32 Z A2+2</b>	1	0,22
50A	29A	2	1	<b>LSA38 Z A2+2</b>	1	0,22
16A	10A	2	2	<b>LSA16 Z A4</b>	1	0,21
25A	11,5A	2	2	<b>LSA25 Z A4</b>	1	0,21
32A	13A	2	2	<b>LSA32 Z A4</b>	1	0,21
45A	29A	2	2	<b>LSA38 Z A4</b>	1	0,21
16A	16A	4	1	<b>LSA16 Z A4O</b>	1	0,23
25A	25A	4	1	<b>LSA25 Z A4O</b>	1	0,23
32A	32A	4	1	<b>LSA32 Z A4O</b>	1	0,23
45A	45A	4	1	<b>LSA38 Z A4O</b>	1	0,23
16A	16A	4	1	<b>LSA16 Z A4U</b>	1	0,23
25A	25A	4	1	<b>LSA25 Z A4U</b>	1	0,23
32A	32A	4	1	<b>LSA32 Z A4U</b>	1	0,23
45A	45A	4	1	<b>LSA38 Z A4U</b>	1	0,23
16A	10A	2	3	<b>LSMO16 Z A6</b>	1	0,50
25A	11,5A	2	3	<b>LSMO25 Z A6</b>	1	0,50
32A	13A	2	3	<b>LSMO32 Z A6</b>	1	0,50
45A	20A	2	3	<b>LSMO38 Z A6</b>	1	0,50
16A	10A	2	4	<b>LSMO16 Z A8</b>	1	0,52
25A	11,5A	2	4	<b>LSMO25 Z A8</b>	1	0,52
32A	13A	2	4	<b>LSMO32 Z A8</b>	1	0,52
45A	20A	2	4	<b>LSMO38 Z A8</b>	1	0,52



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

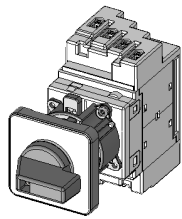


16A	10A	2	1	<b>LSA16 ZO A2</b>	1	0,15
25A	11,5A	2	1	<b>LSA25 ZO A2</b>	1	0,15
32A	13A	2	1	<b>LSA32 ZO A2</b>	1	0,15
45A	29A	2	1	<b>LSA38 ZO A2</b>	1	0,15
29A	10A	2	1	<b>LSA16 ZO A2+2</b>	1	0,19
36A	11,5A	2	1	<b>LSA25 ZO A2+2</b>	1	0,19
50A	13A	2	1	<b>LSA32 ZO A2+2</b>	1	0,19
50A	29A	2	1	<b>LSA38 ZO A2+2</b>	1	0,19
16A	10A	2	2	<b>LSA16 ZO A4</b>	1	0,18
25A	11,5A	2	2	<b>LSA25 ZO A4</b>	1	0,18
32A	13A	2	2	<b>LSA32 ZO A4</b>	1	0,18
45A	29A	2	2	<b>LSA38 ZO A4</b>	1	0,18
16A	16A	4	1	<b>LSA16 ZO A4O</b>	1	0,19
25A	25A	4	1	<b>LSA25 ZO A4O</b>	1	0,19
32A	32A	4	1	<b>LSA32 ZO A4O</b>	1	0,19
45A	45A	4	1	<b>LSA38 ZO A4O</b>	1	0,19
16A	16A	4	1	<b>LSA16 ZO A4U</b>	1	0,19
25A	25A	4	1	<b>LSA25 ZO A4U</b>	1	0,19
32A	32A	4	1	<b>LSA32 ZO A4U</b>	1	0,19
45A	45A	4	1	<b>LSA38 ZO A4U</b>	1	0,19
16A	10A	2	3	<b>LSMO16 ZO A6</b>	1	0,45
25A	11,5A	2	3	<b>LSMO25 ZO A6</b>	1	0,45
32A	13A	2	3	<b>LSMO32 ZO A6</b>	1	0,45
45A	20A	2	3	<b>LSMO38 ZO A6</b>	1	0,45
16A	10A	2	4	<b>LSMO16 ZO A8</b>	1	0,47
25A	11,5A	2	4	<b>LSMO25 ZO A8</b>	1	0,47
32A	13A	2	4	<b>LSMO32 ZO A8</b>	1	0,47
45A	20A	2	4	<b>LSMO38 ZO A8</b>	1	0,47

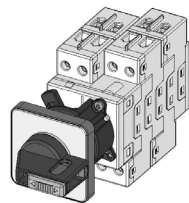




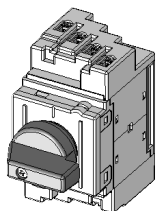
## Mini DC-Isolators for Single Hole Mounting, Ø22,5mm, Plate 48, IP66, Type 4X



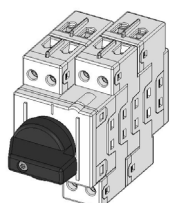
DC-PV1 (=DC21B)		Poles in Series	Number of Strings	Type	Pack pcs.	Weight kg/pce.
600V	1000V					
16A	10A	2	1	<b>LSA16 ZH1 A2</b>	1	0,17
25A	11,5A	2	1	<b>LSA25 ZH1 A2</b>	1	0,17
32A	13A	2	1	<b>LSA32 ZH1 A2</b>	1	0,17
45A	29A	2	1	<b>LSA38 ZH1 A2</b>	1	0,17
29A	10A	2	1	<b>LSA16 ZH1 A2+2</b>	1	0,22
36A	11,5A	2	1	<b>LSA25 ZH1 A2+2</b>	1	0,22
50A	13A	2	1	<b>LSA32 ZH1 A2+2</b>	1	0,22
50A	29A	2	1	<b>LSA38 ZH1 A2+2</b>	1	0,22
16A	10A	2	2	<b>LSA16 ZH1 A4</b>	1	0,21
25A	11,5A	2	2	<b>LSA25 ZH1 A4</b>	1	0,21
32A	13A	2	2	<b>LSA32 ZH1 A4</b>	1	0,21
45A	29A	2	2	<b>LSA38 ZH1 A4</b>	1	0,21
16A	16A	4	1	<b>LSA16 ZH1 A4O</b>	1	0,23
25A	25A	4	1	<b>LSA25 ZH1 A4O</b>	1	0,23
32A	32A	4	1	<b>LSA32 ZH1 A4O</b>	1	0,23
45A	45A	4	1	<b>LSA38 ZH1 A4O</b>	1	0,23
16A	16A	4	1	<b>LSA16 ZH1 A4U</b>	1	0,23
25A	25A	4	1	<b>LSA25 ZH1 A4U</b>	1	0,23
32A	32A	4	1	<b>LSA32 ZH1 A4U</b>	1	0,23
45A	45A	4	1	<b>LSA38 ZH1 A4U</b>	1	0,23
16A	10A	2	3	<b>LSMO16 ZH1 A6</b>	1	0,50
25A	11,5A	2	3	<b>LSMO25 ZH1 A6</b>	1	0,50
32A	13A	2	3	<b>LSMO32 ZH1 A6</b>	1	0,50
45A	20A	2	3	<b>LSMO38 ZH1 A6</b>	1	0,50
16A	10A	2	4	<b>LSMO16 ZH1 A8</b>	1	0,52
25A	11,5A	2	4	<b>LSMO25 ZH1 A8</b>	1	0,52
32A	13A	2	4	<b>LSMO32 ZH1 A8</b>	1	0,52
45A	20A	2	4	<b>LSMO38 ZH1 A8</b>	1	0,52



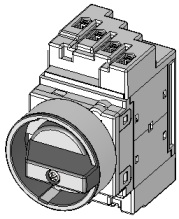
## Mini DC-Isolators for Single Hole Mounting, Ø16mm, without Plate, IP66, Type 4X



16A	10A	2	1	<b>LSA16 Z16 A2</b>	1	0,15
25A	11,5A	2	1	<b>LSA25 Z16 A2</b>	1	0,15
32A	13A	2	1	<b>LSA32 Z16 A2</b>	1	0,15
45A	29A	2	1	<b>LSA38 Z16 A2</b>	1	0,15
29A	10A	2	1	<b>LSA16 Z16 A2+2</b>	1	0,19
36A	11,5A	2	1	<b>LSA25 Z16 A2+2</b>	1	0,19
50A	13A	2	1	<b>LSA32 Z16 A2+2</b>	1	0,19
50A	29A	2	1	<b>LSA38 Z16 A2+2</b>	1	0,19
16A	10A	2	2	<b>LSA16 Z16 A4</b>	1	0,18
25A	11,5A	2	2	<b>LSA25 Z16 A4</b>	1	0,18
32A	13A	2	2	<b>LSA32 Z16 A4</b>	1	0,18
45A	29A	2	2	<b>LSA38 Z16 A4</b>	1	0,18
16A	16A	4	1	<b>LSA16 Z16 A4O</b>	1	0,19
25A	25A	4	1	<b>LSA25 Z16 A4O</b>	1	0,19
32A	32A	4	1	<b>LSA32 Z16 A4O</b>	1	0,19
45A	45A	4	1	<b>LSA38 Z16 A4O</b>	1	0,19
16A	16A	4	1	<b>LSA16 Z16 A4U</b>	1	0,19
25A	25A	4	1	<b>LSA25 Z16 A4U</b>	1	0,19
32A	32A	4	1	<b>LSA32 Z16 A4U</b>	1	0,19
45A	45A	4	1	<b>LSA38 Z16 A4U</b>	1	0,19
16A	10A	2	3	<b>LSMO16 Z16 A6</b>	1	0,45
25A	11,5A	2	3	<b>LSMO25 Z16 A6</b>	1	0,45
32A	13A	2	3	<b>LSMO32 Z16 A6</b>	1	0,45
45A	20A	2	3	<b>LSMO38 Z16 A6</b>	1	0,45
16A	10A	2	4	<b>LSMO16 Z16 A8</b>	1	0,47
25A	11,5A	2	4	<b>LSMO25 Z16 A8</b>	1	0,47
32A	13A	2	4	<b>LSMO32 Z16 A8</b>	1	0,47
45A	20A	2	4	<b>LSMO38 Z16 A8</b>	1	0,47

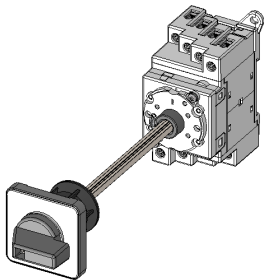


## Lockable Mini DC-Isolators for Single Hole Mounting, Ø16mm, Plate 48, IP66, Type 4X



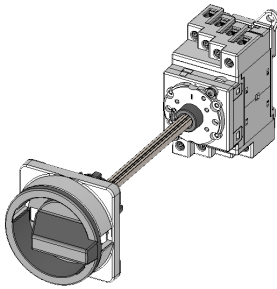
DC-PV1 (=DC21B)		Poles in Series	Number of Strings	Type	Pack pcs.	Weight kg/pce.
600V	1000V					
16A	10A	2	1	<b>LSA16 Z16H448 A2</b>	1	0,19
25A	11,5A	2	1	<b>LSA25 Z16H448 A2</b>	1	0,19
32A	13A	2	1	<b>LSA32 Z16H448 A2</b>	1	0,19
45A	29A	2	1	<b>LSA38 Z16H448 A2</b>	1	0,19
29A	10A	2	1	<b>LSA16 Z16H448 A2+2</b>	1	0,25
36A	11,5A	2	1	<b>LSA25 Z16H448 A2+2</b>	1	0,25
50A	13A	2	1	<b>LSA32 Z16H448 A2+2</b>	1	0,25
50A	29A	2	1	<b>LSA38 Z16H448 A2+2</b>	1	0,25
16A	10A	2	2	<b>LSA16 Z16H448 A4</b>	1	0,24
25A	11,5A	2	2	<b>LSA25 Z16H448 A4</b>	1	0,24
32A	13A	2	2	<b>LSA32 Z16H448 A4</b>	1	0,24
45A	29A	2	2	<b>LSA38 Z16H448 A4</b>	1	0,24
16A	16A	4	1	<b>LSA16 Z16H448 A4O</b>	1	0,26
25A	25A	4	1	<b>LSA25 Z16H448 A4O</b>	1	0,26
32A	32A	4	1	<b>LSA32 Z16H448 A4O</b>	1	0,26
45A	45A	4	1	<b>LSA38 Z16H448 A4O</b>	1	0,26
16A	16A	4	1	<b>LSA16 Z16H448 A4U</b>	1	0,26
25A	25A	4	1	<b>LSA25 Z16H448 A4U</b>	1	0,26
32A	32A	4	1	<b>LSA32 Z16H448 A4U</b>	1	0,26
45A	45A	4	1	<b>LSA38 Z16H448 A4U</b>	1	0,26
16A	10A	2	3	<b>LSMO16 Z16H448 A6</b>	1	0,51
25A	11,5A	2	3	<b>LSMO25 Z16H448 A6</b>	1	0,51
32A	13A	2	3	<b>LSMO32 Z16H448 A6</b>	1	0,51
45A	20A	2	3	<b>LSMO38 Z16H448 A6</b>	1	0,51
16A	10A	2	4	<b>LSMO16 Z16H448 A8</b>	1	0,53
25A	11,5A	2	4	<b>LSMO25 Z16H448 A8</b>	1	0,53
32A	13A	2	4	<b>LSMO32 Z16H448 A8</b>	1	0,53
45A	20A	2	4	<b>LSMO38 Z16H448 A8</b>	1	0,53

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



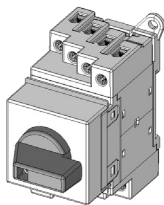
16A	10A	2	1	<b>LSA16 VZV A2</b>	1	0,20
25A	11,5A	2	1	<b>LSA25 VZV A2</b>	1	0,20
32A	13A	2	1	<b>LSA32 VZV A2</b>	1	0,20
45A	29A	2	1	<b>LSA38 VZV A2</b>	1	0,20
29A	10A	2	1	<b>LSA16 VZV A2+2</b>	1	0,26
36A	11,5A	2	1	<b>LSA25 VZV A2+2</b>	1	0,26
50A	13A	2	1	<b>LSA32 VZV A2+2</b>	1	0,26
50A	29A	2	1	<b>LSA38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

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



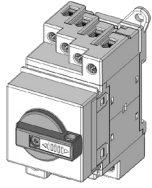
DC-PV1 (=DC21B)		Poles in Series	Number of Strings	Type	Pack pcs.	weight kg/pce.
600V	1000V					
16A	10A	2	1	<b>LSA16 VZVH4 A2</b>	1	0,21
25A	11,5A	2	1	<b>LSA25 VZVH4 A2</b>	1	0,21
32A	13A	2	1	<b>LSA32 VZVH4 A2</b>	1	0,21
45A	29A	2	1	<b>LSA38 VZVH4 A2</b>	1	0,21
29A	10A	2	1	<b>LSA16 VZVH4 A2+2</b>	1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

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



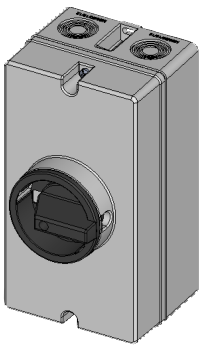
16A	10A	2	1	<b>LSA16 SMA A2</b>	1	0,18
25A	11,5A	2	1	<b>LSA25 SMA A2</b>	1	0,18
32A	13A	2	1	<b>LSA32 SMA A2</b>	1	0,18
45A	29A	2	1	<b>LSA38 SMA A2</b>	1	0,18
29A	10A	2	1	<b>LSA16 SMA A2+2</b>	1	0,22
36A	11,5A	2	1	<b>LSA25 SMA A2+2</b>	1	0,22
50A	13A	2	1	<b>LSA32 SMA A2+2</b>	1	0,22
50A	29A	2	1	<b>LSA38 SMA A2+2</b>	1	0,22
16A	10A	2	2	<b>LSA16 SMA A4</b>	1	0,20
25A	11,5A	2	2	<b>LSA25 SMA A4</b>	1	0,20
32A	13A	2	2	<b>LSA32 SMA A4</b>	1	0,20
45A	29A	2	2	<b>LSA38 SMA A4</b>	1	0,20
16A	16A	4	1	<b>LSA16 SMA A4O</b>	1	0,22
25A	25A	4	1	<b>LSA25 SMA A4O</b>	1	0,22
32A	32A	4	1	<b>LSA32 SMA A4O</b>	1	0,22
45A	45A	4	1	<b>LSA38 SMA A4O</b>	1	0,22
16A	16A	4	1	<b>LSA16 SMA A4U</b>	1	0,22
25A	25A	4	1	<b>LSA25 SMA A4U</b>	1	0,22
32A	32A	4	1	<b>LSA32 SMA A4U</b>	1	0,22
45A	45A	4	1	<b>LSA38 SMA A4U</b>	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	<b>LSA16 SMAH1N A2</b>	1	0,18
25A	11,5A	2	1	<b>LSA25 SMAH1N A2</b>	1	0,18
32A	13A	2	1	<b>LSA32 SMAH1N A2</b>	1	0,18
45A	29A	2	1	<b>LSA38 SMAH1N A2</b>	1	0,18
29A	10A	2	1	<b>LSA16 SMAH1N A2+2</b>	1	0,22
36A	11,5A	2	1	<b>LSA25 SMAH1N A2+2</b>	1	0,22
50A	13A	2	1	<b>LSA32 SMAH1N A2+2</b>	1	0,22
50A	29A	2	1	<b>LSA38 SMAH1N A2+2</b>	1	0,22
16A	10A	2	2	<b>LSA16 SMAH1N A4</b>	1	0,20
25A	11,5A	2	2	<b>LSA25 SMAH1N A4</b>	1	0,20
32A	13A	2	2	<b>LSA32 SMAH1N A4</b>	1	0,20
45A	29A	2	2	<b>LSA38 SMAH1N A4</b>	1	0,20
16A	16A	4	1	<b>LSA16 SMAH1N A4O</b>	1	0,22
25A	25A	4	1	<b>LSA25 SMAH1N A4O</b>	1	0,22
32A	32A	4	1	<b>LSA32 SMAH1N A4O</b>	1	0,22
45A	45A	4	1	<b>LSA38 SMAH1N A4O</b>	1	0,22
16A	16A	4	1	<b>LSA16 SMAH1N A4U</b>	1	0,22
25A	25A	4	1	<b>LSA25 SMAH1N A4U</b>	1	0,22
32A	32A	4	1	<b>LSA32 SMAH1N A4U</b>	1	0,22
45A	45A	4	1	<b>LSA38 SMAH1N A4U</b>	1	0,22

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



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

## Changeover Isolators for Panel Mounting, 4 holes, Plate 64, IP66, Type 3R cUL<sup>us</sup>

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

## Changeover Isolators for Panel Mounting, 4 holes, lockable, Plate 64, IP66, Type 3R cUL<sup>us</sup> LISTED

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

## Changeover Isolators for Panel Mounting, 2 holes, Plate 64, IP66, Type 3R cUL<sup>us</sup>

16A	16A	16A	4	<b>LSA16 E2 U4</b> <sup>1)</sup>	1	0,40
25A	25A	25A	4	<b>LSA25 E2 U4</b> <sup>1)</sup>	1	0,40
32A	32A	32A	4	<b>LSA32 E2 U4</b> <sup>1)</sup>	1	0,40
45A	38A	45A	4	<b>LSA38 E2 U4</b> <sup>1)</sup>	1	0,40
16A	16A	16A	4	<b>LSA16 E2 U4ACDC</b> <sup>2)</sup>	1	0,40
25A	25A	25A	4	<b>LSA25 E2 U4ACDC</b> <sup>2)</sup>	1	0,40
32A	32A	32A	4	<b>LSA32 E2 U4ACDC</b> <sup>2)</sup>	1	0,40
45A	38A	45A	4	<b>LSA38 E2 U4ACDC</b> <sup>2)</sup>	1	0,40
16A	16A	-	4	<b>LSA16 E2 U4DC</b> <sup>3)</sup>	1	0,48
25A	25A	-	4	<b>LSA25 E2 U4DC</b> <sup>3)</sup>	1	0,48
32A	32A	-	4	<b>LSA32 E2 U4DC</b> <sup>3)</sup>	1	0,48
45A	38A	-	4	<b>LSA38 E2 U4DC</b> <sup>3)</sup>	1	0,48

## Changeover Isolators for Panel Mounting, lockable, 2 holes, Plate 64, IP66, Type 3R cUL<sup>us</sup>

16A	16A	16A	4	<b>LSA16 E2H1 U4</b> <sup>1)</sup>	1	0,41
25A	25A	25A	4	<b>LSA25 E2H1 U4</b> <sup>1)</sup>	1	0,41
32A	32A	32A	4	<b>LSA32 E2H1 U4</b> <sup>1)</sup>	1	0,41
45A	38A	45A	4	<b>LSA38 E2H1 U4</b> <sup>1)</sup>	1	0,41
16A	16A	16A	4	<b>LSA16 E2H1 U4ACDC</b> <sup>2)</sup>	1	0,41
25A	25A	25A	4	<b>LSA25 E2H1 U4ACDC</b> <sup>2)</sup>	1	0,41
32A	32A	32A	4	<b>LSA32 E2H1 U4ACDC</b> <sup>2)</sup>	1	0,41
45A	38A	45A	4	<b>LSA38 E2H1 U4ACDC</b> <sup>2)</sup>	1	0,41
16A	16A	-	4	<b>LSA16 E2H1 U4DC</b> <sup>3)</sup>	1	0,49
25A	25A	-	4	<b>LSA25 E2H1 U4DC</b> <sup>3)</sup>	1	0,49
32A	32A	-	4	<b>LSA32 E2H1 U4DC</b> <sup>3)</sup>	1	0,49
45A	38A	-	4	<b>LSA38 E2H1 U4DC</b> <sup>3)</sup>	1	0,49

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

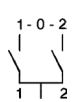
## Changeover Isolators for Base Mounting, w. Door Clutch, Single Hole, Plate 64, IP66, Type 4X

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

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

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

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

16A	16A	16A	4	<b>LSA16 SMAH1N U4</b> <sup>1)</sup>	1	0,40
25A	25A	25A	4	<b>LSA25 SMAH1N U4</b> <sup>1)</sup>	1	0,40
32A	32A	32A	4	<b>LSA32 SMAH1N U4</b> <sup>1)</sup>	1	0,40
45A	38A	45A	4	<b>LSA38 SMAH1N U4</b> <sup>1)</sup>	1	0,40
16A	16A	16A	4	<b>LSA16 SMAH1N U4ACDC</b> <sup>2)</sup>	1	0,40
25A	25A	25A	4	<b>LSA25 SMAH1N U4ACDC</b> <sup>2)</sup>	1	0,40
32A	32A	32A	4	<b>LSA32 SMAH1N U4ACDC</b> <sup>2)</sup>	1	0,40
45A	38A	45A	4	<b>LSA38 SMAH1N U4ACDC</b> <sup>2)</sup>	1	0,40
 16A	16A	-	4	<b>LSA16 SMAH1N U4DC</b> <sup>3)</sup>	1	0,45
25A	25A	-	4	<b>LSA25 SMAH1N U4DC</b> <sup>3)</sup>	1	0,45
32A	32A	-	4	<b>LSA32 SMAH1N U4DC</b> <sup>3)</sup>	1	0,45
45A	38A	-	4	<b>LSA38 SMAH1N U4DC</b> <sup>3)</sup>	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			Break			Make			Break		
				I/le	U/Ue	L/R	Ic/le	Ur/Ue	L/R	I/le	U/Ue	L/R	Ic/le	Ur/Ue	L/R
Direct current	<b>DC21A</b> frequent operation	<b>DC21B</b> 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
	<b>DC22A</b> frequent operation	<b>DC22B</b> 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
	<b>DC-PV1</b>		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
	<b>DC-PV2</b>		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)




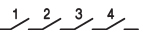
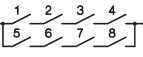
Main contacts	Type	LSA16 LSM016	LSA25 LSM025	LSA32 LSM032	LSA38 LSM038		
Rated thermal current $I_{th}$	A	16	25	32	45		
Rated insulation voltage $U_i$ <sup>1)</sup>	V	1000	1000	1000	1000		
Rated insulation voltage $U_i$ <sup>2)</sup>	V	1500	1500	1500	1500		
Distance of contacts (per pole)	mm	8	8	8	8		
<b>Rated operational current <math>I_e</math></b>							
<b>AC21B</b>	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




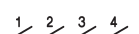
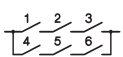
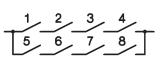
Data acc. to IEC 60947-3, VDE 0660

Main Contacts		Type	LSA16	LSA25	LSA32	LSA38	
<b>Rated operational current I<sub>e</sub></b> <b>DC-PV1</b>	1 pole	300V	A	16	23	27	-
		400V	A	14	22	25	-
	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
	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	
		<b>Type</b>	<b>LSMO16</b>	<b>LSMO25</b>	<b>LSMO32</b>	<b>LSMO38</b>	
4 poles in series + 2 poles parallel A4+2 		500V	A	29	45	50	50
	600V	A	29	45	50	50	
	700V	A	29	45	50	50	
	800V	A	29	45	50	50	
	900V	A	29	45	50	50	
	1000V	A	29	45	50	50	
	1100V	A	29	-	-	-	
	1200V	A	29	33	50	50	
	1300V	A	29	-	-	-	
	1500V	A	20	26	32	32	



# Technical Data

Data acc. to IEC 60947-3, VDE 0660

Main Contacts		Type	LSA16	LSA25	LSA32	LSA38		
<b>Rated operational current I<sub>e</sub></b> <b>DC-PV2</b>	1 pole	300V	A	16	23	27	45	
		400V	A	14	18	20	33	
	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		
				<b>Type</b>	<b>LSMO16</b>	<b>LSMO25</b>	<b>LSMO32</b>	<b>LSMO38</b>
	3 poles in series + 2 poles parallel A3+2 	500V	A	28	45	50	50	
600V		A	22	38	44	48		
700V		A	20	30	34	35		
800V		A	18	26	29	31		
900V		A	16	22	24	24		
1000V		A	15	18	20	20		
1100V		A	-	-	-	-		
1200V		A	11	13,5	15	15		
1300V		A	-	-	-	-		
1400V		A	-	-	-	-		
1500V		A	4	6,5	8	8		
4 poles in series + 2 poles parallel A4+2 		500V	A	29	45	50	50	
		600V	A	29	45	50	50	
	700V	A	25	40	50	50		
	800V	A	21	35	45	50		
	900V	A	18	30	37	50		
	1000V	A	16	25	32	50		
	1100V	A	-	-	-	-		
	1200V	A	13,5	21	27	27		
	1300V	A	-	-	-	-		
	1400V	A	-	-	-	-		
1500V	A	9	14	18	18			




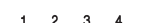
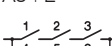
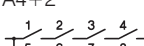
## Technical Data

Data according to IEC 60947-3, VDE 0660






Main contacts			Type	LSA16 LSMO16	LSA25 LSAMO25	LSA32 LSMO32	LSA38 LSMO38
<b>Rated conditional short-circuit current</b>			kA <sub>eff</sub>	5	5	5	5
Max. fuse size			A	40	63	80	80
Mechanical life			x10 <sup>3</sup>	10	10	10	10
Rated short-time withstand current (1s)	I <sub>cw</sub>	A2, A4	A	800	900	1000	1000
		A2+2	A	1300	1500	1700	1700
Short circuit making capacity	I <sub>cm</sub>	A2, A4	A	800	900	1000	1000
		A2+2	A	1300	1500	1700	1700
<b>Maximum cable cross sections</b> (incl. jumper LSAV-B1)							
solid or stranded			mm <sup>2</sup>	0,5 - 10	0,5 - 10	0,5 - 10	0,5 - 10
flexible			mm <sup>2</sup>	0,5 - 6	0,5 - 6	0,5 - 6	0,5 - 6
flexible (+ multicore cable end)			mm <sup>2</sup>	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 <sup>2</sup>	10+(1,5-2,5) / 6+(1,5-6) / 4+(1,5-4)			
flexible			mm <sup>2</sup>	(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)			
<b>Maximum ambient temperature</b>							
Operation		open	°C	-40 to +65			
		enclosed	°C	-40 to +45			
Storage			°C	-50 to +90			
<b>Power loss</b> per switch at I <sub>e</sub> 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
<b>Contact resistance</b> 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		A	4	5	6	20
	500V		A	4	5	6	12
	600V		A	4	5	6	9
2 poles in series	350V		A	16	25	32	45
A2	500V		A	16	25	32	45
	600V		A	16	25	32	40
2 poles in series + 2 poles parallel	350V		A	29	45	50	50
A2+2	500V		A	29	41	43	45
	600V		A	21	30	33	40
4 poles in series	350V		A	16	25	32	45
A4	500V		A	16	25	32	45
	600V		A	16	25	32	45
			<b>Type</b>	<b>LSMO16</b>	<b>LSMO25</b>	<b>LSMO32</b>	<b>LSMO38</b>
3 poles in series + 2 poles parallel	350V		A	16	25	50	50
A3+2	500V		A	16	25	50	50
	600V		A	16	25	45	45
4 poles in series + 2 poles parallel	350V		A	16	25	50	50
A4+2	500V		A	16	25	50	50
	600V		A	16	25	50	50
Fuse size (RK5) Industrial Control Switch	5kA / 600V		A	40	60	80	80
<b>Maximum cable cross sections</b> (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 <sup>1)</sup>				IP20	IP20	IP20	IP20

## Approvals

Country	USA, UL508I	US, Canada UL508	Europe	China CCC	CB-certificates	EAC
						
Type						
LSA16/LSMO16	o	o	/	o	x	o
LSA25/LSMO25	o	o	/	o	x	o
LSA32/LSMO32	o	o	/	o	x	o
LSA38/LSMO38	o	o	/	o	x	o

o In standard version approved

/ No testing required CE

x pending

- not provided for testing till now

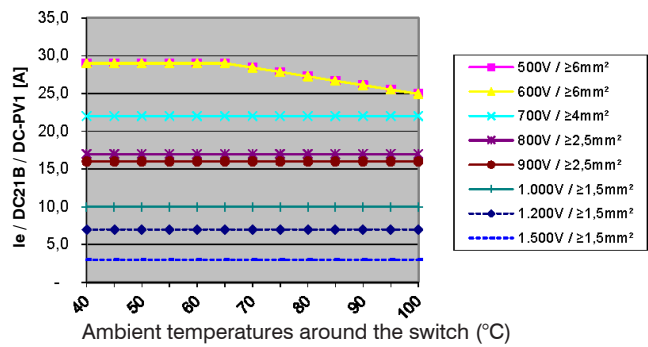
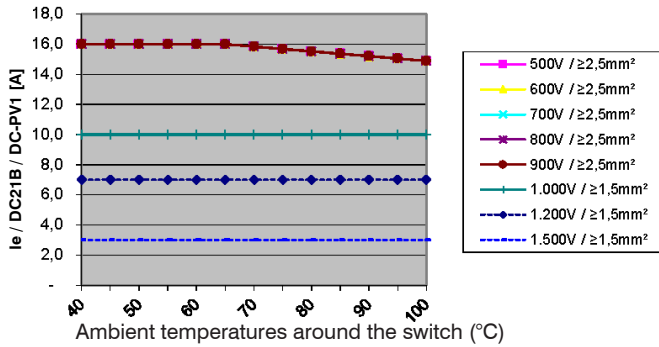
1) Protection degree of the terminals with connected insulated conductor.

## Technical Data

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

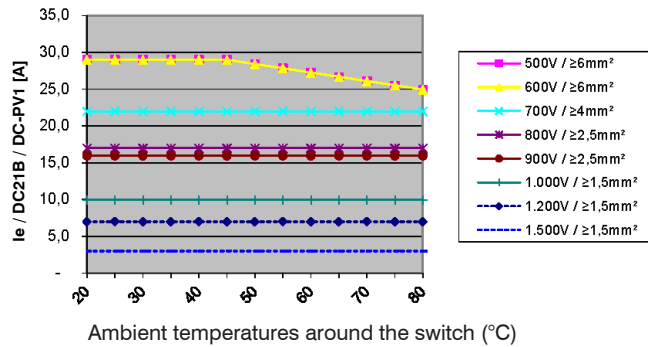
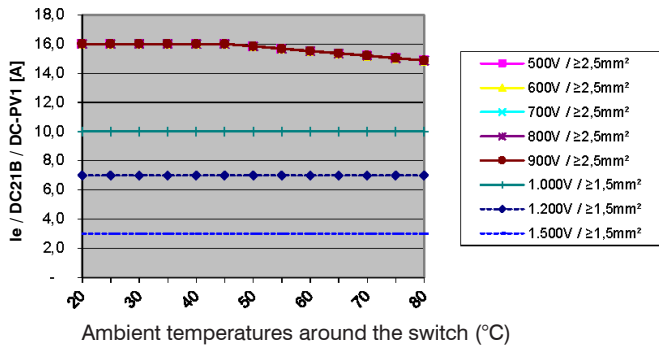
Switch **open** LSA(O)16..., 2 contacts in series (A2)

Switch **open** LSA(O)16 ..., 2 contacts in series + 2 parallel (A2+2)



Switch **enclosed** LSA(O)16 PFL..., 2 contacts in series (A2)

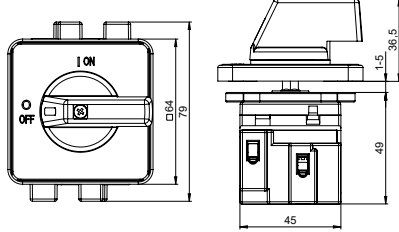
Switch **enclosed** LS16(M)O PFL..., 2 contacts in series + 2 parallel (A2+2)



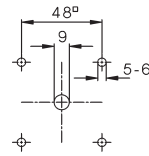
All data about maximum currents according to ambient temperatures and cable cross sections for switches LSA(O)16.. to LSA(O)38.. (open or enclosed) please find under ➡ [www.benedict.at](http://www.benedict.at) (Button "Customers").

**Dimensions:**

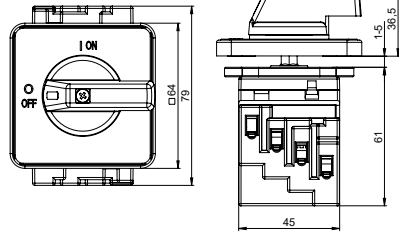
**LSA16 E.. up to LSA38 E..  
..A2**



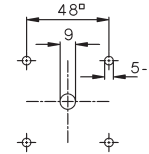
**Mounting hole**



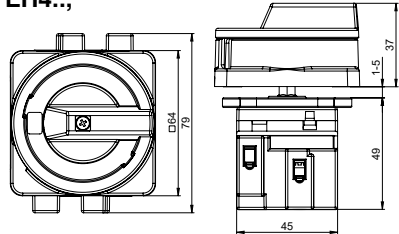
**LSA16 E.. up to LSA38 E..  
..A2+2, ..A4**



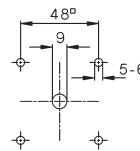
**Mounting hole**



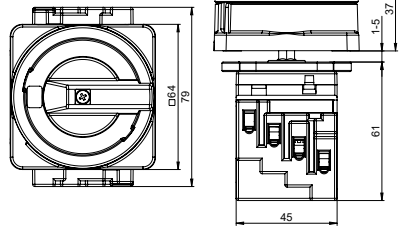
**LSA16 EH4.. up to LSA38 EH4..  
..A2**



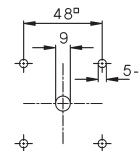
**Mounting hole**



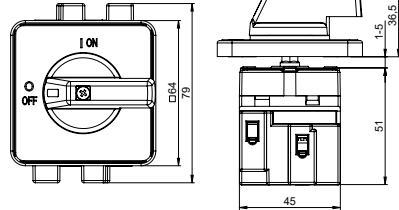
**LSA16 EH4.. up to LSA38 EH4..  
..A2+2, ..A4**



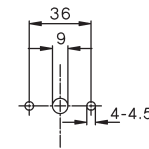
**Mounting hole**



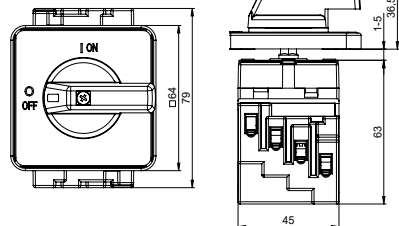
**LSA16 E2.. up to LSA38 E2..  
..A2**



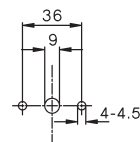
**Mounting hole**



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

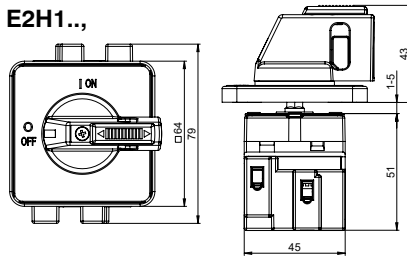


**Mounting hole**

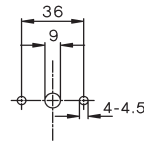


**Dimensions:**

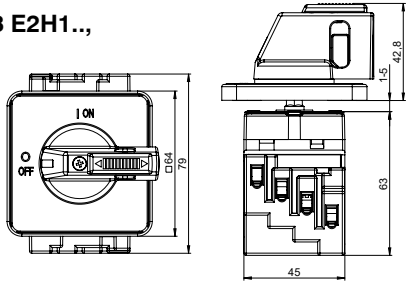
**LSA16 E2H1.. up to LSA38 E2H1...  
..A2**



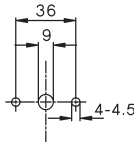
Mounting hole



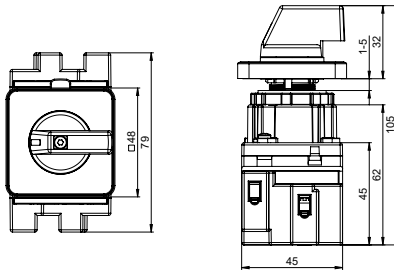
**LSA16 E2H1.. up to LSA38 E2H1...  
..A2+2, ..A4**



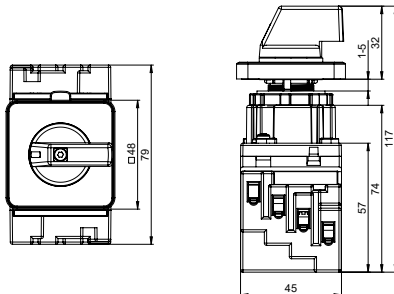
Mounting hole



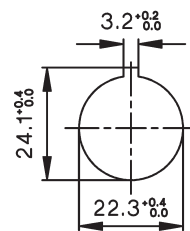
**LSA16 Z.. up to LSA38 Z...  
..A2**



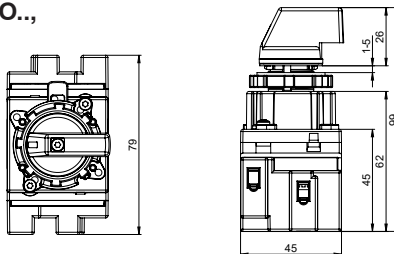
**LSA16 Z.. up to LSA38 Z...  
..A2+2, ..A4**



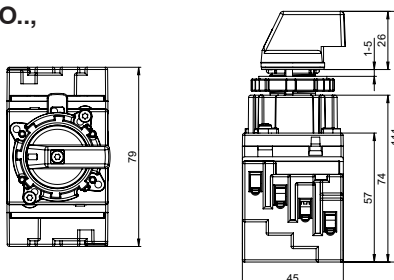
Detailed view - Mounting hole for LSA16 Z(O).. up to LSA38 Z(O)..



**LSA16 ZO.. up to LSA38 ZO...  
..A2**

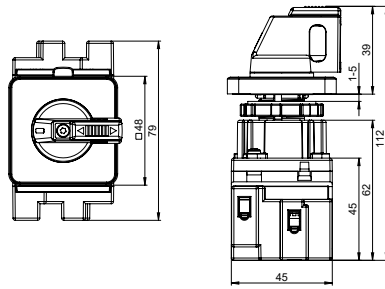


**LSA16 ZO.. up to LSA38 ZO...  
..A2+2, ..A4**

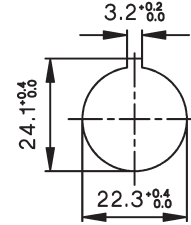


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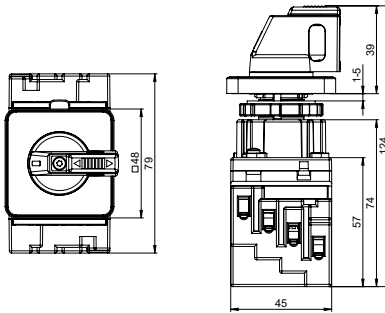
**LSA16 ZH1.. up to LSA38 ZH1...,  
..A2**



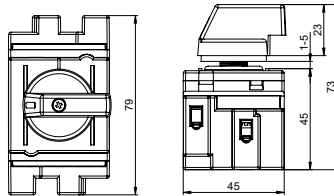
Detailed view - Mounting hole for LSA16 ZH1.. up to LSA38 ZH1..



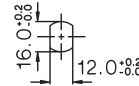
**LSA16 ZH1.. up to LSA38 ZH1...,  
..A2+2, ..A4**



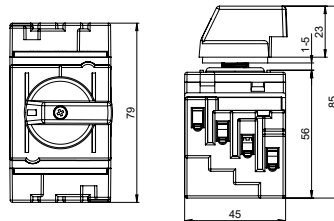
**LSA16 Z16.. up to LSA38 Z16...,  
..A2**



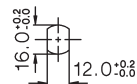
Mounting hole



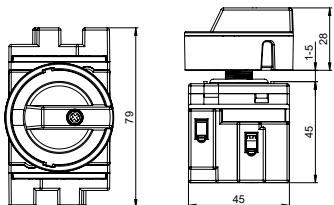
**LSA16 Z16.. up to LSA38 Z16...,  
..A2+2, ..A4**



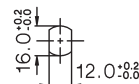
Mounting hole



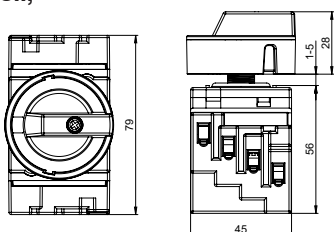
**LSA16 ZH448.. up to LSA38 Z16H448...,  
..A2**



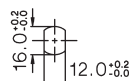
Mounting hole



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

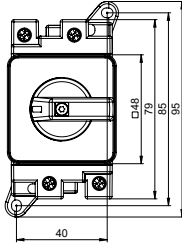


Mounting hole



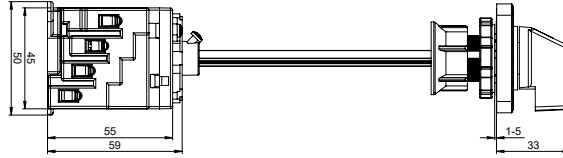
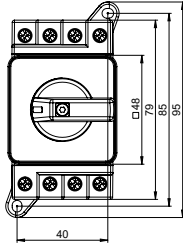
**Dimensions:**

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



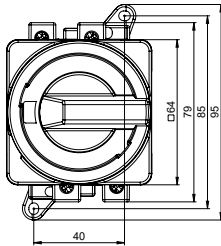
$X_{max} = 182, L = 155,5$   
 $(X_{min} = 59,5)$   
 $L = X - 26,5 \pm 3$

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



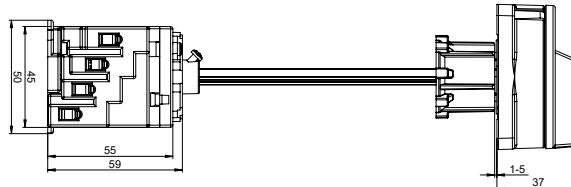
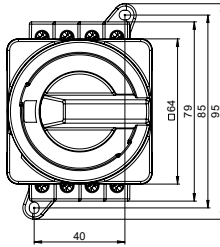
$X_{max} = 194, L = 155,5$   
 $(X_{min} = 71,5)$   
 $L = X - 38,5 \pm 3$

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



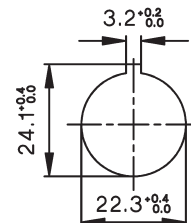
$X_{max} = 182, L = 155,5$   
 $(X_{min} = 59,5)$   
 $L = X - 26,5 \pm 3$

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



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

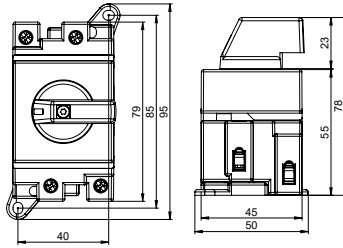
Detailed view - Mounting  
hole for LSA16 VZV(H)..  
up to LSA38 VZV(H)..



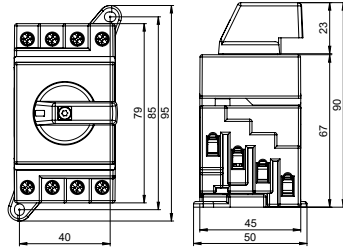


**Dimensions:**

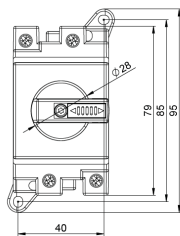
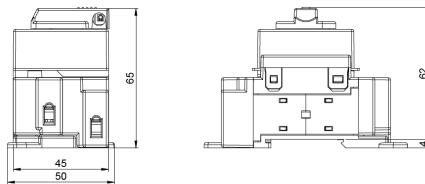
**LSA16 SMA.. up to LSA38 SMA...  
..A2**



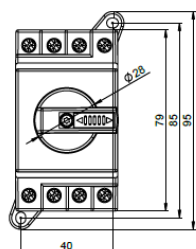
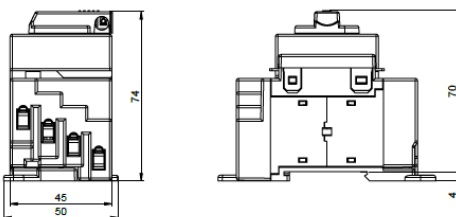
**LSA16 SMA.. up to LSA38 SMA...  
..A2+2, ..A4**



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

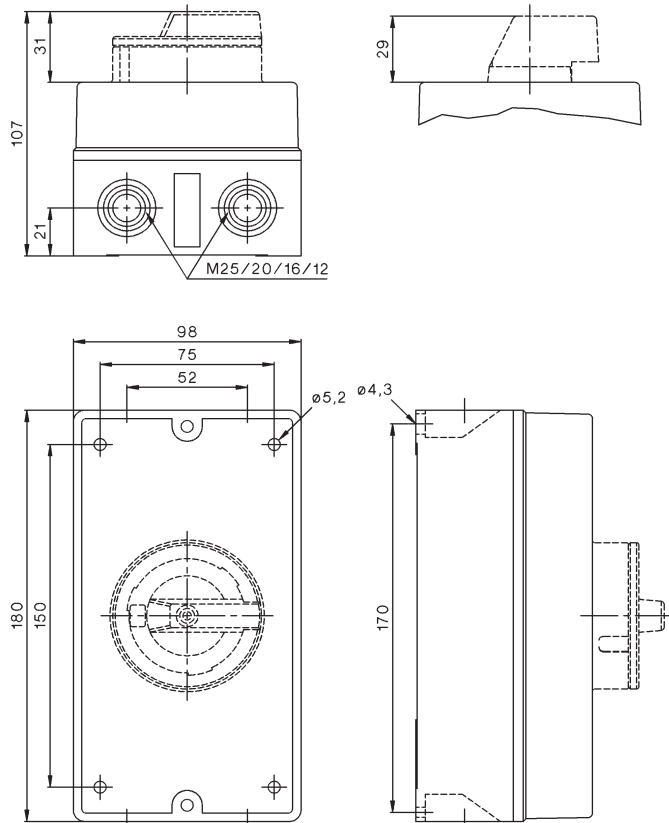


**LSA16 SMAH1N.. up to LSA38 SMAH1N...  
..A2+2, ..A4**

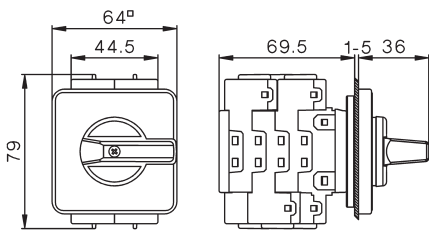


**Dimensions:**

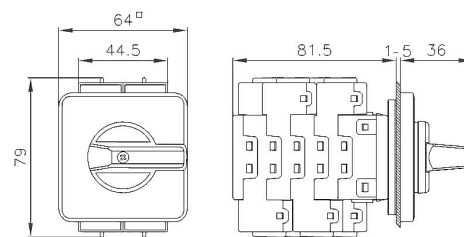
**LSA16 PFLH4.. up to LSA38 PFLH4..  
..A2, ..A2+2, ..A4**



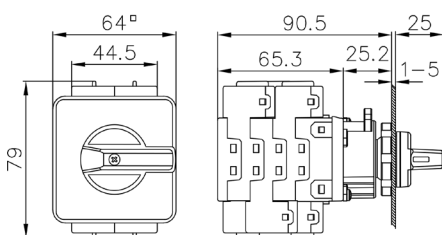
**LSMO16 E.. up to LSMO38 E..  
..A6**



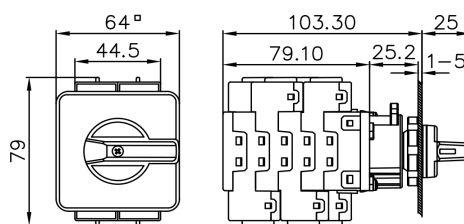
**LSMO16 E.. up to LSMO38 E..  
..A8**



**LSMO16 Z.. up to LSMO38 Z..  
..A6**



**LSMO16 Z.. up to LSMO38 Z..  
..A8**



**Dimensions:**

LSA16 E U4 up to LSA38 E U4,  
LSA16 E U4ACDC up to LSA38 E U4ACDC

LSA16 E U4DC up to LSA38 E U4DC

LSA16 EH4 U4 up to LSA38 EH4 U4,  
LSA16 EH4 U4ACDC up to LSA38 EH4 U4ACDC

LSA16 EH4 U4DC up to LSA38 EH4 U4DC

LSA16 E2 U4 up to LSA38 E U4,  
LSA16 E2 U4ACDC up to LSA38 E U4ACDC

LSA16 E2 U4DC up to LSA38 E U4DC

LSA16 E2H4 U4 up to LSA38 EH4 U4,  
LSA16 E2H4 U4ACDC up to LSA38 EH4 U4ACDC

LSA16 E2H4 U4DC up to LSA38 EH4 U4DC

**Dimensions:**

LSA16 VZV U4 up to LSA38 VZV U4,  
LSA16 VZV U4ACDC up to LSA38 VZV U4ACDC

LSA16 VZV U4DC up to LSA38 VZV U4DC

LSA16 VZVH4 U4 up to LSA38 EH4 U4,  
LSA16 VZVH4 U4ACDC up to LSA38 EH4 U4ACDC

LSA16 VZVH4 U4DC up to LSA38 VZVH4 U4DC

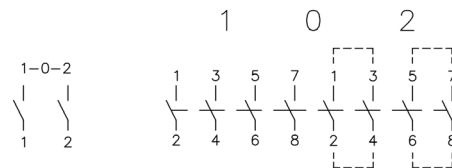
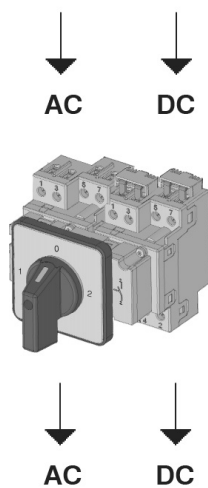
**Dimensions:**

LSA16 SMAH1N U4 up to LSA38 SMAH1N U4,  
LSA16 SMAH1N U4ACDC up to LSA38 SMAH1N U4ACDC

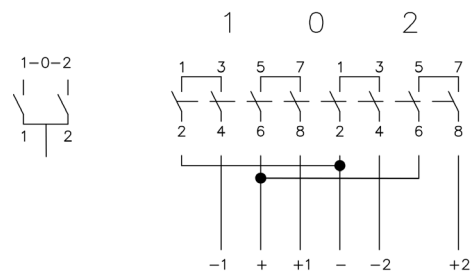
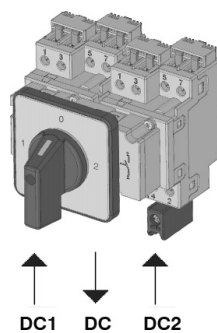
LSA16 SMAH1N U4DC up to LSA38 SMAH1N U4DC

**Changeover Isolators - Applications:**


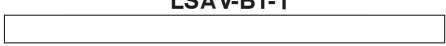




LSA.. U4ACDC (2 pcs. jumpers attached)


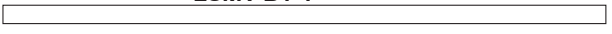

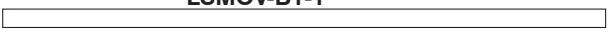


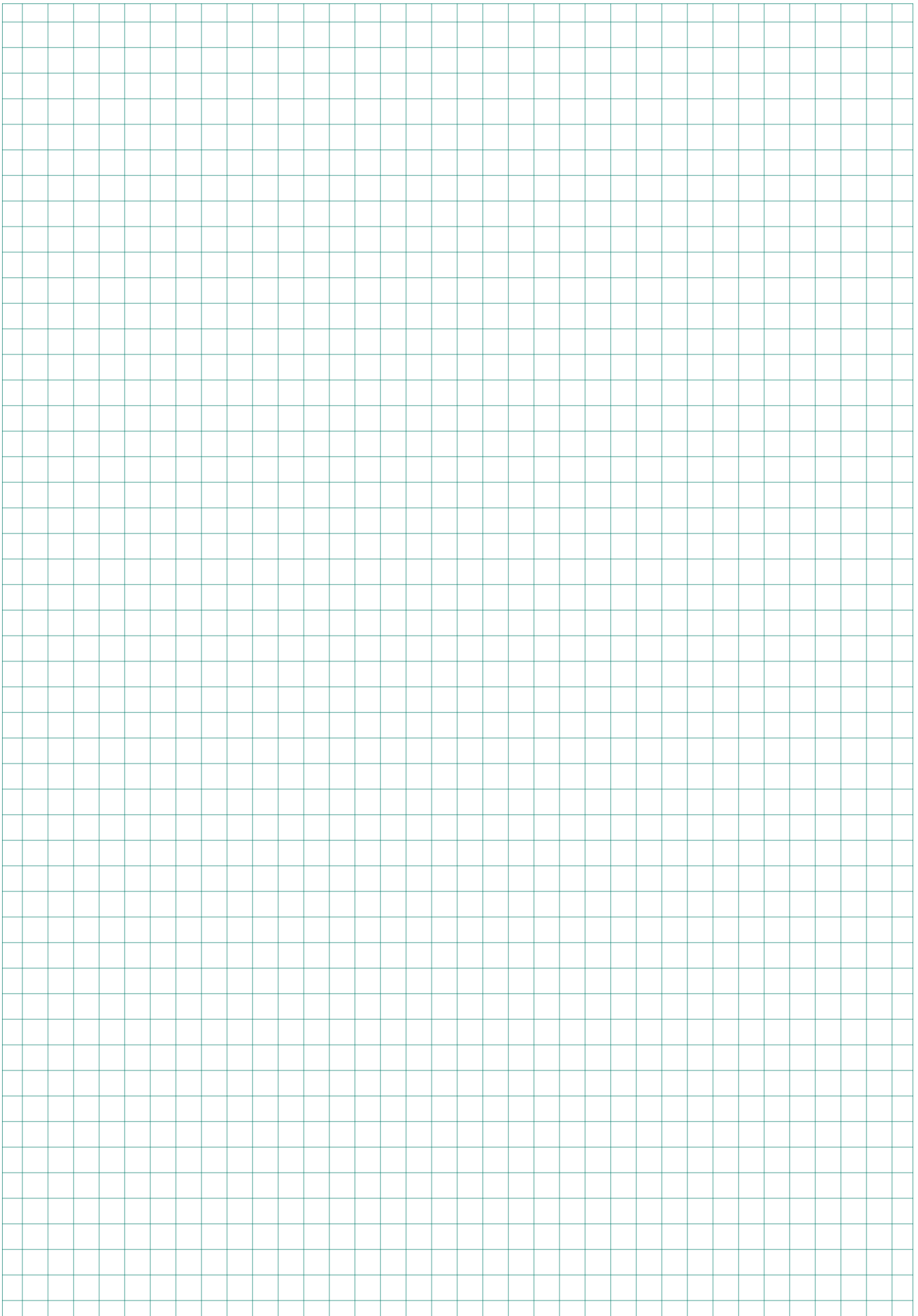
LSA.. U4DC (prewired)



Isolated jumpers LSAV-.. and LSM(O)V-.. 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 			

Type	LSMO16	LSMO25	LSMO32	LSMO38
A4+2	4 x  LSMV-B1-1 			
	2 x  LSMOV-B1-1 			





Quality made in 

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