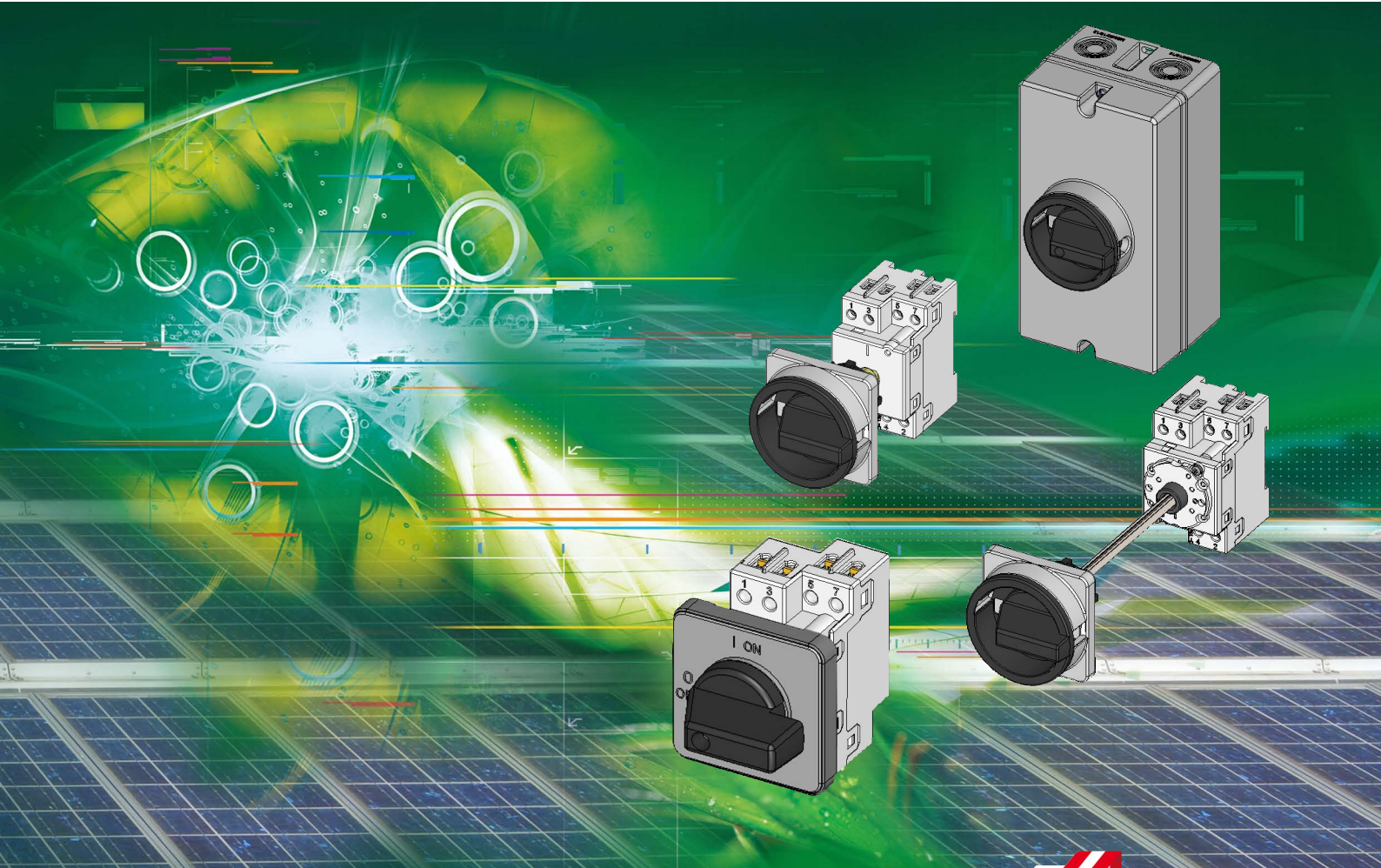


# Mini DC - Isolators for Photovoltaic

acc. to IEC 60364-7-712



Quality made in  AUSTRIA

D1024E181



**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

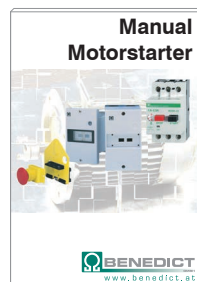
Catalogue **D656E..**



**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

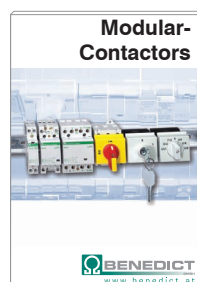
Catalogue **D509E..**



**Push Buttons**

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

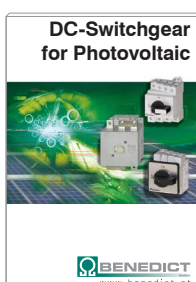
Catalogue **D580E..**



**Modular-  
Contactors**

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

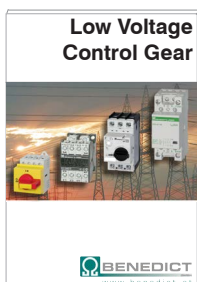
Catalogue **D681E..**



**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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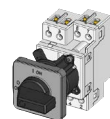
Mini DC-Isolators for Panel Mounting (4 holes) 6  
Lockable Mini DC-Isolators for Panel Mounting (4 holes) 6

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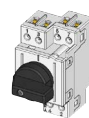
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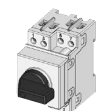
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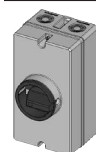
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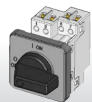
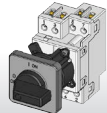
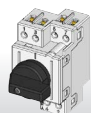
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## Ratings

### Rated Current

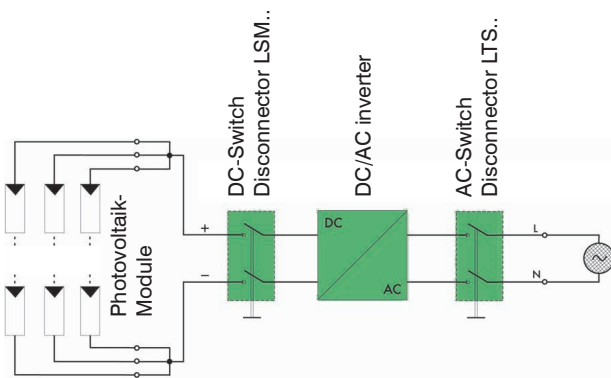
Type	$I_{th}$ open A	DC21B(DC-PV1) 4 poles in series A	at $U_e$ V
<b>LSM16</b>	16	<b>16</b>	1500
<b>LSM25</b>	25	<b>25</b>	1500
<b>LSM32</b>	32	<b>32</b>	1500
<b>LSM38</b>	45	<b>45</b>	1500

## Mini DC-Switch Disconnectors

Design	Panel mounting 4 hole mounting IP66 <sup>1)</sup> Type 3R	Panel mounting 2 hole mounting IP66 <sup>1)</sup> Type 3R	Single hole Ø22,5mm IP66 <sup>1)</sup> Type 4X	Single hole Ø16mm IP66 <sup>1)</sup> Type 4X
				

## Mini Switch Disconnectors for Photovoltaic

Mini Switch Disconnectors „LSM“ 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 LSM ensure a reliable switching up to 25A at 1500V in the category DC21B (DC-PV1).

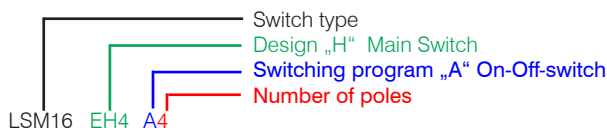
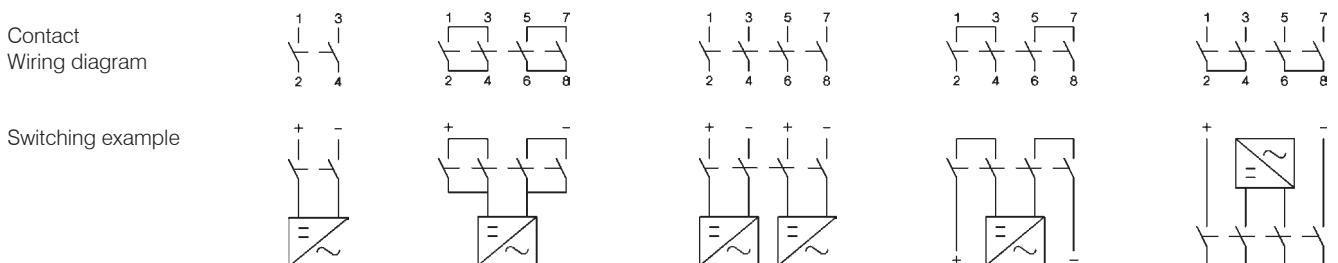
The construction of the contacts and the material selection guarantee that no oxidations develop (because of small switching frequency) and further it is prevented that inadmissible heating-up is effected.

Mini Switch Disconnectors LSM 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.

## Switching programs

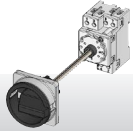
Type	2-pole	2+2-pole 2 poles in series + 2 Pole parallel	4-pole	4-pole 2 jumpers top Input and Output bottom	4-pole 2 jumpers bottom Input and Output top
<b>LSM16</b>	.. A2	.. A2+2	.. A4(2 x A2)	.. A4O	.. A4U
<b>LSM25</b>	.. A2	.. A2+2	.. A4(2 x A2)	.. A4O	.. A4U
<b>LSM32</b>	.. A2	.. A2+2	.. A4(2 x A2)	.. A4O	.. A4U
<b>LSM38</b>	.. A2	.. A2+2	.. A4(2 x A2)	.. A4O	.. A4U



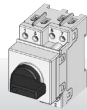
1) Protection in front and built in

## Mini DC-Switch Disconnectors

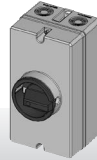
Base mounting with door coupling, single hole, Ø22,5mm, IP66<sup>1)</sup> Type 4X



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



Plastic enclosed PFL..IP67<sup>1)</sup> Type 4X

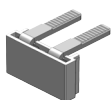


..VZV, VZVH4..	..SMA, SMAH1N..	..PFLH4..
..VZV, VZVH4..	..SMA, SMAH1N..	..PFLH4..
..VZV, VZVH4..	..SMA, SMAH1N..	..PFLH4..
..VZV, VZVH4..	..SMA, SMAH1N..	..PFLH4..

### Technical data for DC, according to IEC 60947-3, VDE0660

Type			DC21B (DC-PV1)							DC22B				
			500V	600V	700V	800V	900V	1000V	1200V	1500V	500V	600V	800V	1000V
2 poles in series		<b>LSM16..</b> A	16	16	16	16	16	10	7	3	7	5,5	2	1
		<b>LSM25..</b> A	25	25	25	20	17	11,5	8,5	5	8	6	2,5	1,5
		<b>LSM32..</b> A	32	32	32	23	20	13	10	6	8	6	2,5	1,5
		<b>LSM38..</b> A	45	45	-	30	-	20	-	-	-	-	-	-
2 poles in series + 2 parallel		<b>LSM16..</b> A	29	29	22	17	16	10	7	3	-	-	-	-
		<b>LSM25..</b> A	45	36	27	19	17	11,5	8,5	5	-	-	-	-
		<b>LSM32..</b> A	50	50	32	23	20	13	10	6	-	-	-	-
		<b>LSM38..</b> A	50	50	-	30	-	20	-	-	-	-	-	-
4 poles in series		<b>LSM16..</b> A	16	16	16	16	16	16	16	16	16	16	11,5	8
		<b>LSM25..</b> A	25	25	25	25	25	25	25	25	25	25	12	9
		<b>LSM32..</b> A	32	32	32	32	32	32	32	32	32	27,5	12,5	10
		<b>LSM38..</b> A	45	45	-	-	-	-	-	-	-	-	-	-

Isolated jumper LSMV... for series and parallel switching of contacts (terminals 1-3, 5-7, 2-4, 6-8)



	Type	Pack	Weight
<b>LSM16 .. LSM38</b>	<b>LSMV-B1</b>	100	6,0 g/pc.

1) Protection in front and built in

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



DC21B / DC-PV1		Poles in series	Number of Strings	Type	Pack pcs.	Weight kg/pcs.
600V DC	1000V DC					
16A	10A	2	1	<b>LSM16 E A2</b>	1	0,
25A	11,5A	2	1	<b>LSM25 E A2</b>	1	0,
32A	13A	2	1	<b>LSM32 E A2</b>	1	0,
45A	20A	2	1	<b>LSM38 E A2</b>	1	0,
29A	10A	2	1	<b>LSM16 E A2+2</b>	1	0,
36A	11,5A	2	1	<b>LSM25 E A2+2</b>	1	0,
50A	13A	2	1	<b>LSM32 E A2+2</b>	1	0,
50A	20A	2	1	<b>LSM38 E A2+2</b>	1	0,
16A	16A	2	2	<b>LSM16 E A4</b>	1	0,
25A	25A	2	2	<b>LSM25 E A4</b>	1	0,
32A	32A	2	2	<b>LSM32 E A4</b>	1	0,
45A	-	2	2	<b>LSM38 E A4</b>	1	0,
16A	16A	4	1	<b>LSM16 E A4O</b>	1	0,
25A	25A	4	1	<b>LSM25 E A4O</b>	1	0,
32A	32A	4	1	<b>LSM32 E A4O</b>	1	0,
45A	-	4	1	<b>LSM38 E A4O</b>	1	0,
16A	16A	4	1	<b>LSM16 E A4U</b>	1	0,
25A	25A	4	1	<b>LSM25 E A4U</b>	1	0,
32A	32A	4	1	<b>LSM32 E A4U</b>	1	0,
45A	-	4	1	<b>LSM38 E A4U</b>	1	0,

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



16A	10A	2	1	<b>LSM16 EH4 A2</b>	1	0,
25A	11,5A	2	1	<b>LSM25 EH4 A2</b>	1	0,
32A	13A	2	1	<b>LSM32 EH4 A2</b>	1	0,
45A	20A	2	1	<b>LSM38 EH4 A2</b>	1	0,
29A	10A	2	1	<b>LSM16 EH4 A2+2</b>	1	0,
36A	11,5A	2	1	<b>LSM25 EH4 A2+2</b>	1	0,
50A	13A	2	1	<b>LSM32 EH4 A2+2</b>	1	0,
50A	20A	2	1	<b>LSM38 EH4 A2+2</b>	1	0,
16A	16A	2	1	<b>LSM16 EH4 A4</b>	1	0,
25A	25A	2	1	<b>LSM25 EH4 A4</b>	1	0,
32A	32A	2	1	<b>LSM32 EH4 A4</b>	1	0,
45A	-	2	1	<b>LSM38 EH4 A4</b>	1	0,
16A	16A	4	1	<b>LSM16 EH4 A4O</b>	1	0,
25A	25A	4	1	<b>LSM25 EH4 A4O</b>	1	0,
32A	32A	4	1	<b>LSM32 EH4 A4O</b>	1	0,
45A	-	4	1	<b>LSM38 EH4 A4O</b>	1	0,
16A	16A	4	1	<b>LSM16 EH4 A4U</b>	1	0,
25A	25A	4	1	<b>LSM25 EH4 A4U</b>	1	0,
32A	32A	4	1	<b>LSM32 EH4 A4U</b>	1	0,
45A	-	4	1	<b>LSM38 EH4 A4U</b>	1	0,

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



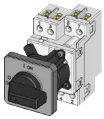
DC21B / DC-PV1		Poles in Series	Number of Strings	Type	Pack pcs.	Weight kg/pcs.
600V DC	1000V DC					
16A	10A	2	1	<b>LSM16 E2 A2</b>	1	0,
25A	11,5A	2	1	<b>LSM25 E2 A2</b>	1	0,
32A	13A	2	1	<b>LSM32 E2 A2</b>	1	0,
45A	20A	2	1	<b>LSM38 E2 A2</b>	1	0,
29A	10A	2	1	<b>LSM16 E2 A2+2</b>	1	0,
36A	11,5A	2	1	<b>LSM25 E2 A2+2</b>	1	0,
50A	13A	2	1	<b>LSM32 E2 A2+2</b>	1	0,
50A	20A	2	1	<b>LSM38 E2 A2+2</b>	1	0,
16A	16A	2	2	<b>LSM16 E2 A4</b>	1	0,
25A	25A	2	2	<b>LSM25 E2 A4</b>	1	0,
32A	32A	2	2	<b>LSM32 E2 A4</b>	1	0,
45A	-	2	2	<b>LSM38 E2 A4</b>	1	0,
16A	16A	4	1	<b>LSM16 E2 A4O</b>	1	0,
25A	25A	4	1	<b>LSM25 E2 A4O</b>	1	0,
32A	32A	4	1	<b>LSM32 E2 A4O</b>	1	0,
45A	-	4	1	<b>LSM38 E2 A4O</b>	1	0,
16A	16A	4	1	<b>LSM16 E2 A4U</b>	1	0,
25A	25A	4	1	<b>LSM25 E2 A4U</b>	1	0,
32A	32A	4	1	<b>LSM32 E2 A4U</b>	1	0,
45A	-	4	1	<b>LSM38 E2 A4U</b>	1	0,

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



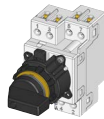
16A	10A	2	1	<b>LSM16 E2H1 A2</b>	1	0,
25A	11,5A	2	1	<b>LSM25 E2H1 A2</b>	1	0,
32A	13A	2	1	<b>LSM32 E2H1 A2</b>	1	0,
45A	20A	2	1	<b>LSM38 E2H1 A2</b>	1	0,
29A	10A	2	1	<b>LSM16 E2H1 A2+2</b>	1	0,
36A	11,5A	2	1	<b>LSM25 E2H1 A2+2</b>	1	0,
50A	13A	2	1	<b>LSM32 E2H1 A2+2</b>	1	0,
50A	20A	2	1	<b>LSM38 E2H1 A2+2</b>	1	0,
16A	16A	2	2	<b>LSM16 E2H1 A4</b>	1	0,
25A	25A	2	2	<b>LSM25 E2H1 A4</b>	1	0,
32A	32A	2	2	<b>LSM32 E2H1 A4</b>	1	0,
45A	-	2	2	<b>LSM38 E2H1 A4</b>	1	0,
16A	16A	4	1	<b>LSM16 E2H1 A4O</b>	1	0,
25A	25A	4	1	<b>LSM25 E2H1 A4O</b>	1	0,
32A	32A	4	1	<b>LSM32 E2H1 A4O</b>	1	0,
45A	-	4	1	<b>LSM38 E2H1 A4O</b>	1	0,
16A	16A	4	1	<b>LSM16 E2H1 A4U</b>	1	0,
25A	25A	4	1	<b>LSM25 E2H1 A4U</b>	1	0,
32A	32A	4	1	<b>LSM32 E2H1 A4U</b>	1	0,
45A	-	4	1	<b>LSM38 E2H1 A4U</b>	1	0,

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



DC21B / DC-PV1 600V DC 1000V DC		Poles in series	Number of Strings	Type	Pack pcs.	Weight kg/pcs.
16A	10A	2	1	<b>LSM16 Z A2</b>	1	0,
25A	11,5A	2	1	<b>LSM25 Z A2</b>	1	0,
32A	13A	2	1	<b>LSM32 Z A2</b>	1	0,
45A	20A	2	1	<b>LSM38 Z A2</b>	1	0,
29A	10A	2	1	<b>LSM16 Z A2+2</b>	1	0,
36A	11,5A	2	1	<b>LSM25 Z A2+2</b>	1	0,
50A	13A	2	1	<b>LSM32 Z A2+2</b>	1	0,
50A	20A	2	1	<b>LSM38 Z A2+2</b>	1	0,
16A	16A	2	2	<b>LSM16 Z A4</b>	1	0,
25A	25A	2	2	<b>LSM25 Z A4</b>	1	0,
32A	32A	2	2	<b>LSM32 Z A4</b>	1	0,
45A	-	2	2	<b>LSM38 Z A4</b>	1	0,
16A	16A	4	1	<b>LSM16 Z A4O</b>	1	0,
25A	25A	4	1	<b>LSM25 Z A4O</b>	1	0,
32A	32A	4	1	<b>LSM32 Z A4O</b>	1	0,
45A	-	4	1	<b>LSM38 Z A4O</b>	1	0,
16A	16A	4	1	<b>LSM16 Z A4U</b>	1	0,
25A	25A	4	1	<b>LSM25 Z A4U</b>	1	0,
32A	32A	4	1	<b>LSM32 Z A4U</b>	1	0,
45A	-	4	1	<b>LSM38 Z A4U</b>	1	0,

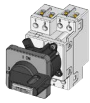
## Mini DC-Isolators for Single Hole Mounting, Ø22,5mm, without Plate, IP66, Type 4X



16A	10A	2	1	<b>LSM16 ZO A2</b>	1	0,
25A	11,5A	2	1	<b>LSM25 ZO A2</b>	1	0,
32A	13A	2	1	<b>LSM32 ZO A2</b>	1	0,
45A	20A	2	1	<b>LSM38 ZO A2</b>	1	0,
29A	10A	2	1	<b>LSM16 ZO A2+2</b>	1	0,
36A	11,5A	2	1	<b>LSM25 ZO A2+2</b>	1	0,
50A	13A	2	1	<b>LSM32 ZO A2+2</b>	1	0,
50A	20A	2	1	<b>LSM38 ZO A2+2</b>	1	0,
16A	16A	2	2	<b>LSM16 ZO A4</b>	1	0,
25A	25A	2	2	<b>LSM25 ZO A4</b>	1	0,
32A	32A	2	2	<b>LSM32 ZO A4</b>	1	0,
45A	-	2	2	<b>LSM38 ZO A4</b>	1	0,
16A	16A	4	1	<b>LSM16 ZO A4O</b>	1	0,
25A	25A	4	1	<b>LSM25 ZO A4O</b>	1	0,
32A	32A	4	1	<b>LSM32 ZO A4O</b>	1	0,
45A	-	4	1	<b>LSM38 ZO A4O</b>	1	0,
16A	16A	4	1	<b>LSM16 ZO A4U</b>	1	0,
25A	25A	4	1	<b>LSM25 ZO A4U</b>	1	0,
32A	32A	4	1	<b>LSM32 ZO A4U</b>	1	0,
45A	-	4	1	<b>LSM38 ZO A4U</b>	1	0,

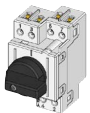


## Mini DC-Isolators for Single Hole Mounting, Ø22,5mm, Plate 48, IP66, Type 4X



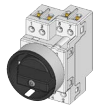
DC21B / DC-PV1 600V DC 1000V DC		Poles in series	Number of Strings	Type	Pack pcs.	Weight kg/pcs.
16A	10A	2	1	<b>LSM16 ZH1 A2</b>	1	0,
25A	11,5A	2	1	<b>LSM25 ZH1 A2</b>	1	0,
32A	13A	2	1	<b>LSM32 ZH1 A2</b>	1	0,
45A	20A	2	1	<b>LSM38 ZH1 A2</b>	1	0,
29A	10A	2	1	<b>LSM16 ZH1 A2+2</b>	1	0,
36A	11,5A	2	1	<b>LSM25 ZH1 A2+2</b>	1	0,
50A	13A	2	1	<b>LSM32 ZH1 A2+2</b>	1	0,
50A	20A	2	1	<b>LSM38 ZH1 A2+2</b>	1	0,
16A	16A	2	2	<b>LSM16 ZH1 A4</b>	1	0,
25A	25A	2	2	<b>LSM25 ZH1 A4</b>	1	0,
32A	32A	2	2	<b>LSM32 ZH1 A4</b>	1	0,
45A	-	2	2	<b>LSM38 ZH1 A4</b>	1	0,
16A	16A	4	1	<b>LSM16 ZH1 A4O</b>	1	0,
25A	25A	4	1	<b>LSM25 ZH1 A4O</b>	1	0,
32A	32A	4	1	<b>LSM32 ZH1 A4O</b>	1	0,
45A	-	4	1	<b>LSM38 ZH1 A4O</b>	1	0,
16A	16A	4	1	<b>LSM16 ZH1 A4U</b>	1	0,
25A	25A	4	1	<b>LSM25 ZH1 A4U</b>	1	0,
32A	32A	4	1	<b>LSM32 ZH1 A4U</b>	1	0,
45A	-	4	1	<b>LSM38 ZH1 A4U</b>	1	0,

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



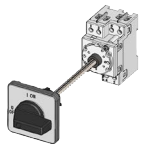
16A	10A	2	1	<b>LSM16 Z16 A2</b>	1	0,
25A	11,5A	2	1	<b>LSM25 Z16 A2</b>	1	0,
32A	13A	2	1	<b>LSM32 Z16 A2</b>	1	0,
45A	20A	2	1	<b>LSM38 Z16 A2</b>	1	0,
29A	10A	2	1	<b>LSM16 Z16 A2+2</b>	1	0,
36A	11,5A	2	1	<b>LSM25 Z16 A2+2</b>	1	0,
50A	13A	2	1	<b>LSM32 Z16 A2+2</b>	1	0,
50A	20A	2	1	<b>LSM38 Z16 A2+2</b>	1	0,
16A	16A	2	2	<b>LSM16 Z16 A4</b>	1	0,
25A	25A	2	2	<b>LSM25 Z16 A4</b>	1	0,
32A	32A	2	2	<b>LSM32 Z16 A4</b>	1	0,
45A	-	2	2	<b>LSM38 Z16 A4</b>	1	0,
16A	16A	4	1	<b>LSM16 Z16 A4O</b>	1	0,
25A	25A	4	1	<b>LSM25 Z16 A4O</b>	1	0,
32A	32A	4	1	<b>LSM32 Z16 A4O</b>	1	0,
45A	-	4	1	<b>LSM38 Z16 A4O</b>	1	0,
16A	16A	4	1	<b>LSM16 Z16 A4U</b>	1	0,
25A	25A	4	1	<b>LSM25 Z16 A4U</b>	1	0,
32A	32A	4	1	<b>LSM32 Z16 A4U</b>	1	0,
45A	-	4	1	<b>LSM38 Z16 A4U</b>	1	0,

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



DC21B / DC-PV1 600V DC 1000V DC		Poles in series	Number of Strings	Type	Pack pcs.	Weight kg/pcs.
16A	10A	2	1	<b>LSM16 Z16H448 A2</b>	1	0,
25A	11,5A	2	1	<b>LSM25 Z16H448 A2</b>	1	0,
32A	13A	2	1	<b>LSM32 Z16H448 A2</b>	1	0,
45A	20A	2	1	<b>LSM38 Z16H448 A2</b>	1	0,
29A	10A	2	1	<b>LSM16 Z16H448 A2+2</b>	1	0,
36A	11,5A	2	1	<b>LSM25 Z16H448 A2+2</b>	1	0,
50A	13A	2	1	<b>LSM32 Z16H448 A2+2</b>	1	0,
50A	20A	2	1	<b>LSM38 Z16H448 A2+2</b>	1	0,
16A	16A	2	2	<b>LSM16 Z16H448 A4</b>	1	0,
25A	25A	2	2	<b>LSM25 Z16H448 A4</b>	1	0,
32A	32A	2	2	<b>LSM32 Z16H448 A4</b>	1	0,
45A	-	2	2	<b>LSM38 Z16H448 A4</b>	1	0,
16A	16A	4	1	<b>LSM16 Z16H448 A4O</b>	1	0,
25A	25A	4	1	<b>LSM25 Z16H448 A4O</b>	1	0,
32A	32A	4	1	<b>LSM32 Z16H448 A4O</b>	1	0,
45A	-	4	1	<b>LSM38 Z16H448 A4O</b>	1	0,
16A	16A	4	1	<b>LSM16 Z16H448 A4U</b>	1	0,
25A	25A	4	1	<b>LSM25 Z16H448 A4U</b>	1	0,
32A	32A	4	1	<b>LSM32 Z16H448 A4U</b>	1	0,
45A	-	4	1	<b>LSM38 Z16H448 A4U</b>	1	0,

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



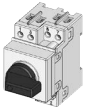
16A	10A	2	1	<b>LSM16 VZV A2</b>	1	0,
25A	11,5A	2	1	<b>LSM25 VZV A2</b>	1	0,
32A	13A	2	1	<b>LSM32 VZV A2</b>	1	0,
45A	20A	2	1	<b>LSM38 VZV A2</b>	1	0
29A	10A	2	1	<b>LSM16 VZV A2+2</b>	1	0,
36A	11,5A	2	1	<b>LSM25 VZV A2+2</b>	1	0,
50A	13A	2	1	<b>LSM32 VZV A2+2</b>	1	0,
50A	20A	2	1	<b>LSM38 VZV A2+2</b>	1	0,
16A	16A	2	2	<b>LSM16 VZV A4</b>	1	0,
25A	25A	2	2	<b>LSM25 VZV A4</b>	1	0,
32A	32A	2	2	<b>LSM32 VZV A4</b>	1	0,
45A	-	2	2	<b>LSM38 VZV A4</b>	1	0,
16A	16A	2	1	<b>LSM16 VZV A4O</b>	1	0,
25A	25A	2	1	<b>LSM25 VZV A4O</b>	1	0,
32A	32A	2	1	<b>LSM32 VZV A4O</b>	1	0,
45A	-	2	1	<b>LSM38 VZV A4O</b>	1	0,
16A	16A	2	1	<b>LSM16 VZV A4U</b>	1	0,
25A	25A	2	1	<b>LSM25 VZV A4U</b>	1	0,
32A	32A	2	1	<b>LSM32 VZV A4U</b>	1	0,
45A	-	2	1	<b>LSM38 VZV A4U</b>	1	0,

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



DC21B / DC-PV1		Poles in series	Number of Strings	Type	Pack pcs.	Weight kg/pcs.
600V DC	1000V DC					
16A	10A	2	1	<b>LSM16 VZVH4 A2</b>	1	0,
25A	11,5A	2	1	<b>LSM25 VZVH4 A2</b>	1	0,
32A	13A	2	1	<b>LSM32 VZVH4 A2</b>	1	0,
45A	20A	2	1	<b>LSM38 VZVH4 A2</b>	1	0,
29A	10A	2	1	<b>LSM16 VZVH4 A2+2</b>	1	0,
36A	11,5A	2	1	<b>LSM25 VZVH4 A2+2</b>	1	0,
50A	13A	2	1	<b>LSM32 VZVH4 A2+2</b>	1	0,
50A	20A	2	1	<b>LSM38 VZVH4 A2+2</b>	1	0,
16A	16A	2	2	<b>LSM16 VZVH4 A4</b>	1	0,
25A	25A	2	2	<b>LSM25 VZVH4 A4</b>	1	0,
32A	32A	2	2	<b>LSM32 VZVH4 A4</b>	1	0,
45A	-	2	2	<b>LSM38 VZVH4 A4</b>	1	0,
16A	16A	4	1	<b>LSM16 VZVH4 A4O</b>	1	0,
25A	25A	4	1	<b>LSM25 VZVH4 A4O</b>	1	0,
32A	32A	4	1	<b>LSM32 VZVH4 A4O</b>	1	0,
45A	-	4	1	<b>LSM38 VZVH4 A4O</b>	1	0,
16A	16A	4	1	<b>LSM16 VZVH4 A4U</b>	1	0,
25A	25A	4	1	<b>LSM25 VZVH4 A4U</b>	1	0,
32A	32A	4	1	<b>LSM32 VZVH4 A4U</b>	1	0,
45A	-	4	1	<b>LSM38 VZVH4 A4U</b>	1	0,

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



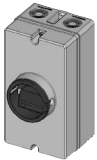
16A	10A	2	1	<b>LSM16 SMA A2</b>	1	0,
25A	11,5A	2	1	<b>LSM25 SMA A2</b>	1	0,
32A	13A	2	1	<b>LSM32 SMA A2</b>	1	0,
45A	20A	2	1	<b>LSM38 SMA A2</b>	1	0,
29A	10A	2	1	<b>LSM16 SMA A2+2</b>	1	0,
36A	11,5A	2	1	<b>LSM25 SMA A2+2</b>	1	0,
50A	13A	2	1	<b>LSM32 SMA A2+2</b>	1	0,
50A	20A	2	1	<b>LSM38 SMA A2+2</b>	1	0,
16A	16A	2	2	<b>LSM16 SMA A4</b>	1	0,
25A	25A	2	2	<b>LSM25 SMA A4</b>	1	0,
32A	32A	2	2	<b>LSM32 SMA A4</b>	1	0,
45A	-	2	2	<b>LSM38 SMA A4</b>	1	0,
16A	16A	4	1	<b>LSM16 SMA A4O</b>	1	0,
25A	25A	4	1	<b>LSM25 SMA A4O</b>	1	0,
32A	32A	4	1	<b>LSM32 SMA A4O</b>	1	0,
45A	-	4	1	<b>LSM38 SMA A4O</b>	1	0,
16A	16A	4	1	<b>LSM16 SMA A4U</b>	1	0,
25A	25A	4	1	<b>LSM25 SMA A4U</b>	1	0,
32A	32A	4	1	<b>LSM32 SMA A4U</b>	1	0,
45A	-	4	1	<b>LSM38 SMA A4U</b>	1	0,

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



DC21B / DC-PV1		Poles in series	Number of Strings	Type	Pack pcs.	Weight kg/pcs.
600V DC	1000V DC					
16A	10A	2	1	<b>LSM16 SMAH1N A2</b>	1	0,
25A	11,5A	2	1	<b>LSM25 SMAH1N A2</b>	1	0,
32A	13A	2	1	<b>LSM32 SMAH1N A2</b>	1	0,
45A	20A	2	1	<b>LSM38 SMAH1N A2</b>	1	0,
29A	10A	2	1	<b>LSM16 SMAH1N A2+2</b>	1	0,
36A	11,5A	2	1	<b>LSM25 SMAH1N A2+2</b>	1	0,
50A	13A	2	1	<b>LSM32 SMAH1N A2+2</b>	1	0,
50A	20A	2	1	<b>LSM38 SMAH1N A2+2</b>	1	0,
16A	16A	2	2	<b>LSM16 SMAH1N A4</b>	1	0,
25A	25A	2	2	<b>LSM25 SMAH1N A4</b>	1	0,
32A	32A	2	2	<b>LSM32 SMAH1N A4</b>	1	0,
45A	-	2	2	<b>LSM38 SMAH1N A4</b>	1	0,
16A	16A	4	1	<b>LSM16 SMAH1N A4O</b>	1	0,
25A	25A	4	1	<b>LSM25 SMAH1N A4O</b>	1	0,
32A	32A	4	1	<b>LSM32 SMAH1N A4O</b>	1	0,
45A	-	4	1	<b>LSM38 SMAH1N A4O</b>	1	0,
16A	16A	4	1	<b>LSM16 SMAH1N A4U</b>	1	0,
25A	25A	4	1	<b>LSM25 SMAH1N A4U</b>	1	0,
32A	32A	4	1	<b>LSM32 SMAH1N A4U</b>	1	0,
45A	-	4	1	<b>LSM38 SMAH1N A4U</b>	1	0,

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




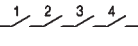


16A	10A	2	1	<b>LSM16 PFLH4 A2</b>	1	0,
25A	11,5A	2	1	<b>LSM25 PFLH4 A2</b>	1	0,
32A	13A	2	1	<b>LSM32 PFLH4 A2</b>	1	0,
45A	20A	2	1	<b>LSM38 PFLH4 A2</b>	1	0,
29A	10A	2	1	<b>LSM16 PFLH4 A2+2</b>	1	0,
36A	11,5A	2	1	<b>LSM25 PFLH4 A2+2</b>	1	0,
50A	13A	2	1	<b>LSM32 PFLH4 A2+2</b>	1	0,
50A	20A	2	1	<b>LSM38 PFLH4 A2+2</b>	1	0,
16A	16A	2	2	<b>LSM16 PFLH4 A4</b>	1	0,
25A	25A	2	2	<b>LSM25 PFLH4 A4</b>	1	0,
32A	32A	2	2	<b>LSM32 PFLH4 A4</b>	1	0,
45A	-	2	2	<b>LSM38 PFLH4 A4</b>	1	0,
16A	16A	4	1	<b>LSM16 PFLH4 A4O</b>	1	0,
25A	25A	4	1	<b>LSM25 PFLH4 A4O</b>	1	0,
32A	32A	4	1	<b>LSM32 PFLH4 A4O</b>	1	0,
45A	-	4	1	<b>LSM38 PFLH4 A4O</b>	1	0,
16A	16A	4	1	<b>LSM16 PFLH4 A4U</b>	1	0,
25A	25A	4	1	<b>LSM25 PFLH4 A4U</b>	1	0,
32A	32A	4	1	<b>LSM32 PFLH4 A4U</b>	1	0,
45A	-	4	1	<b>LSM38 PFLH4 A4U</b>	1	0,

# 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		L/R		Make		Break		L/R				
			I/I <sub>e</sub>	U/U <sub>e</sub>	L/R	I <sub>c</sub> /I <sub>e</sub>	U <sub>r</sub> /U <sub>e</sub>	L/R	I/I <sub>e</sub>	U/U <sub>e</sub>	L/R	I <sub>c</sub> /I <sub>e</sub>	U <sub>r</sub> /U <sub>e</sub>	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)




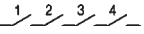
Main contacts	Type	LSM16	LSM25	LSM32	LSM38	
Rated thermal current I <sub>th</sub>	A	16	25			
Rated insulation voltage U <sub>i</sub> <sup>1)</sup>	V	1000	1000			
Rated insulation voltage U <sub>i</sub> <sup>2)</sup>	V	1500	1500			
Distance of contacts (per pole)	mm	8	8			
<b>Rated operational current I<sub>o</sub></b>						
<b>AC21A</b> 1 pole 	300V	A	16	23		
	400V	A	12	14		
	500V	A	9	11		
	600V	A	6	8		
	700V	A	4,5	6		
	800V	A	3	4		
	900V	A	2,5	3		
	1000V	A	1,5	2		
	2 poles in series <b>A2</b> 	500V	A	16	25	
		600V	A	16	25	
		700V	A	23		
		800V	A	16	20	
		900V	A	13	16	
		1000V	A	9	11	
2 poles in series + 2 poles parallel <b>A2 + 2</b> 	500V	A	29	45		
	600V	A	29	45		
	700V	A	23			
	800V	A	16	20		
	900V	A	13	16		
	1000V	A	9	11		
4 poles in series <b>A4</b> 	500V	A	16	25		
	600V	A	16	25		
	700V	A	16	25		
	800V	A	16	25		
	900V	A	16	25		
	1000V	A	16	25		
	1200V	A	16	25		
	1500V	A	16	20		
<b>Rated operational current I<sub>o</sub></b> <b>AC21B</b>	A2, A4	U <sub>e</sub> max. 440V	A	16	25	

1) Suitable at overvoltage category I to III, pollution degree 3 (standard-industry): U<sub>imp</sub> = 8kV.

2) Suitable at overvoltage category I to III, pollution degree 2 (min. IP55): U<sub>imp</sub> = 8kV.




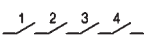
# Technical Data

Data according to IEC 60947-3, VDE 0660

Main contacts		Type	LSM16	LSM25	LSM32	LSM38	
<b>Rated operational current I<sub>e</sub></b> <b>DC-PV1</b>	300V	A	16	23			
	400V	A	14	22			
1 pole A1 	500V	A	10	17			
	600V	A	7	12			
	700V	A	5	6			
	800V	A	3	4			
	900V	A	3	3			
	1000V	A	2	2			
	2 poles in series A2 	500V	A	16	25		
600V		A	16	25			
700V		A	16	25			
800V		A	16	20			
900V		A	16	17			
1000V		A	10	11,5			
1100V		A	8	10			
1200V		A	7	8,5			
1300V		A	6	7			
1400V		A	5	6			
1500V		A	3	5			
2 poles in series + 2 poles parallel A2+2 		500V	A	29	45		
		600V	A	29	36		
	700V	A	22	27			
	800V	A	17	20			
	900V	A	16	17			
	1000V	A	10	11,5			
	1100V	A	8	10			
	1200V	A	7	8,5			
	1300V	A	6	7			
	1400V	A	5	6			
	1500V	A	3	5			
4 poles in series A4 	500V	A	16	25			
	600V	A	16	25			
	700V	A	16	25			
	800V	A	16	25			
	900V	A	16	25			
	1000V	A	16	25			
	1100V	A	16	25			
	1200V	A	16	25			
	1300V	A	16	25			
	1400V	A	16	25			
	1500V	A	16	25			



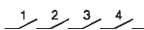
# Technical Data

Data according to IEC 60947-3, VDE 0660

Main contacts		Type	LSM16	LSM25	LSM32	LSM38	
<b>Rated operational current I<sub>e</sub></b> <b>DC-PV2</b>	300V	A	16	23			
	400V	A	15	18			
1 pole A1 	500V	A	10	12			
	600V	A	5	6			
	700V	A	1,5	2			
	800V	A	1,5	2			
	900V	A	1	1,5			
	1000V	A	1	1,5			
	2 poles in series A2 	500V	A	16	25		
600V		A	14	21			
700V		A	13	19			
800V		A	12	15			
900V		A	8	10			
1000V		A	4	5			
1100V		A	3	4			
1200V		A	2	3			
1300V		A	1,5	2			
1400V		A	1	2			
1500V		A	1	1,5			
2 poles in series + 2 poles parallel A2+2 		500V	A	25	39		
		600V	A	20	32		
		700V	A	13	19		
	800V	A	12	15			
	900V	A	8	10			
	1000V	A	4	5			
	1100V	A	3	4			
	1200V	A	2	3			
	1300V	A	1,5	2			
	1400V	A	1	2			
1500V	A	1	1,5				
4poles in series A4 	500V	A	16	25			
	600V	A	16	25			
	700V	A	16	25			
	800V	A	16	25			
	900V	A	16	25			
	1000V	A	16	25			
	1100V	A	16	25			
	1200V	A	13,5	21			
	1300V	A	12	19			
	1400V	A	10,5	16			
	1500V	A	9	14			

## Technical Data




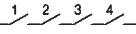
Data according to IEC 60947-3, VDE 0660

Main contacts		Type	LSM16	LSM25	LSM32	LSM38
<b>Rated operational current I<sub>e</sub></b> <b>DC22B</b>	1 pole	500V A	1	1,25		
	A1 	600V A	0,5	0,75		
		800V A	0,3	0,4		
		1000V A	0,15	0,2		
		1200V A	-	-		
		1500V A	-	-		
	2 poles in series A2 	500V A	7	8		
		600V A	5,5	6		
		800V A	2	2,5		
		1000V A	1	1,5		
		1200V A	-	-		
	4 poles in series A4 	500V A	16	25		
		600V A	16	25		
		800V A	11,5	12		
		1000V A	8	9		
1200V A		-	-			
	1500V A	-	-			
<b>Rated conditional short-circuit current</b>		kA <sub>eff</sub>	5	5		
Max. fuse size		gL (gG)	40	63		
Mechanical life		x10 <sup>3</sup>	10	10		
Rated short-time withstand current (1s)	I <sub>cw</sub>	A2, A4	800	900		
		A2+2	1300	1500		
Short circuit making capacity	I <sub>cm</sub>	A2, A4	800	900		
		A2+2	1300	1500		
<b>Maximum cable cross sections</b> (incl. jumper LSMV-B1)						
solid or stranded		mm <sup>2</sup>	1,5 - 10	1,5 - 10		
flexible		mm <sup>2</sup>	1,5 - 6	1,5 - 6		
flexible (+ multicore cable end)		mm <sup>2</sup>	1,5 - 6	1,5 - 6		
Size of terminal screw			M3,5 Pz1	M3,5 Pz1		
Tightening torque		Nm	1,4	1,4		
2 cables per clamp without jumper LSMV-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		
A4	(A)/W		(16)/2	(25)/4,6		
A2+2	(A)/W		(29)/1,5	(45)/3,7		
<b>Contact resistance</b> per pole		mΩ	1,75	1,75		








# Technical Data

Data according to UL508I  File E359344, Category no.: NMSJ, and UL508  File E332938, Category no.: NRNT2, NRNT8

Main Contacts		Type	LSM16	LSM25	LSM32	LSM38	
Ampere-Rating "General use"  1 pole	DC						
	350V	A	4	5			
	500V	A	4	5			
	600V	A	4	5			
	700V	A	-	-			
	800V	A	-	-			
	900V	A	-	-			
	1000V	A	-	-			
	 2 pole in series A2	350V	A	16	25		
		500V	A	16	25		
600V		A	16	25			
700V		A	-	-			
800V		A	-	-			
900V		A	-	-			
 2 pole in series + 2 pole parallel A2+2	350V	A	29	45			
	400V	A	-	-			
	500V	A	29	38			
	600V	A	21	27			
	700V	A	-	-			
	800V	A	-	-			
	900V	A	-	-			
	1000V	A	-	-			
	 4 pole in series A4	350V	A	16	25		
		500V	A	16	25		
600V		A	16	25			
700V		A	-	-			
800V		A	-	-			
900V		A	-	-			
Fuse size (RK5) Industrial Control Switch	5kA / 600V	A	40	60			
	<b>Maximum cable cross sections</b> (incl. jumper LSMV-B1)						
solid or stranded	AWG		16 - 10	16 - 10			
flexible	AWG		20 - 6	20 - 6			
flexible (+ multicore cable end)	AWG		20 - 6	20 - 6			
Size of terminal screw			M3,5 Pz1	M3,5 Pz1			
Tightening torque	lb.inch		12,4	12,4			
Protection class of terminals <sup>1)</sup>			IP20	IP20			

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

## Approvals

Country	USA, UL508I 	US, Canada UL508 	Europe 	China CCC 	CB- certificates	EAC 
Type						
LSM16	o	o	/	x	x	o
LSM25	o	o	/	x	x	o
LSM32	x	x	/	x	x	o
LSM38	x	x	/	x	x	o

o In standard version approved

/ No testing required CE

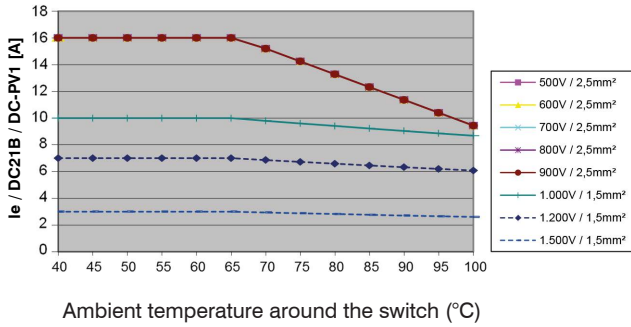
x pending

- not provided for testing till now

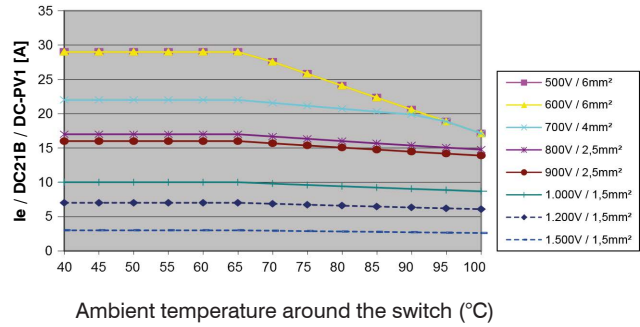
# Technical Data

## Maximum current according to ambient temperature and cable cross section

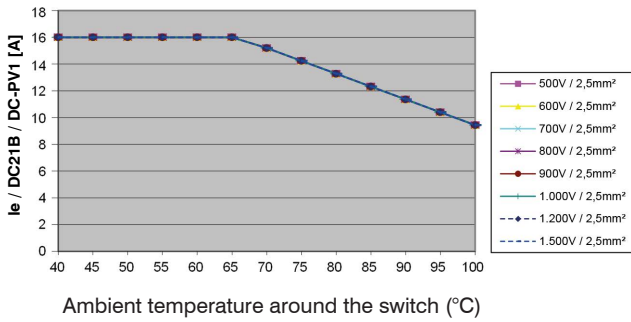
Switch open LSM16..., 2 contacts in series (A2)



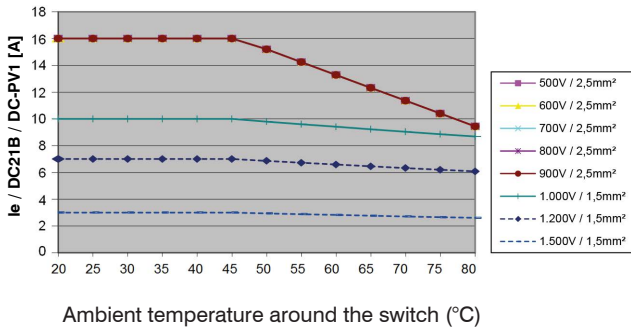
Switch open LSM16 ..., 2 contacts in series + 2 parallel (A2+2)



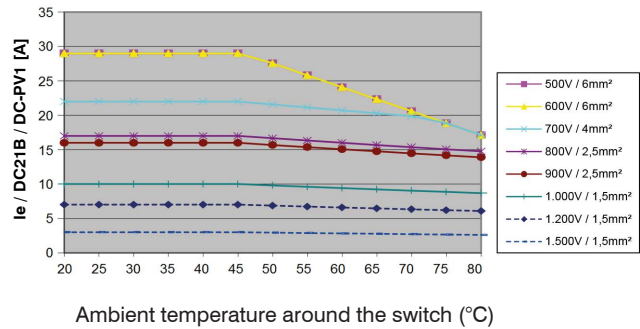
Switch open LSM16..., 4 contacts in series (A4x)



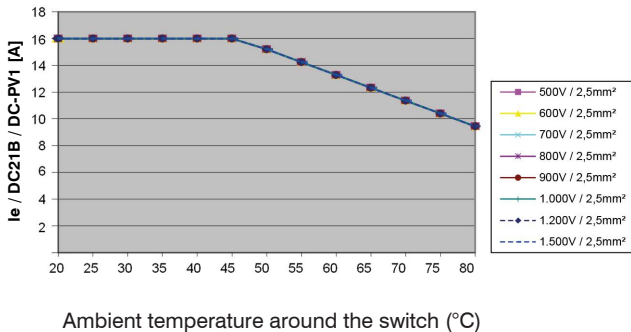
Switch enclosed LSM16 PFL..., 2 contacts in series (A2)



Switch enclosed LSM16 PFL..., 2 contacts in series + 2 parallel (A2+2)



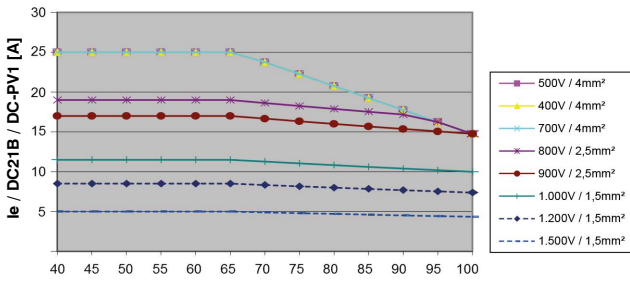
Switch enclosed LSM16 PFL..., 4 contacts in series (A4x)



# Technical Data

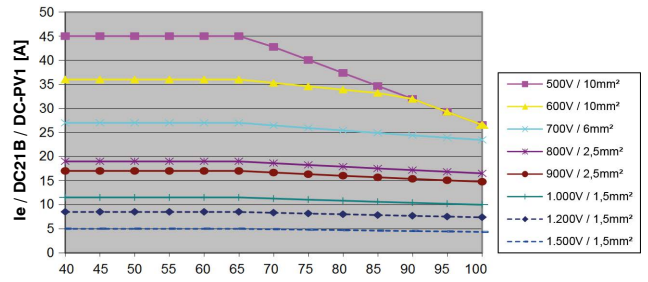
## Maximum current according to ambient temperature and cable cross section

Switch open LSM25..., 2 contacts in series (A2)



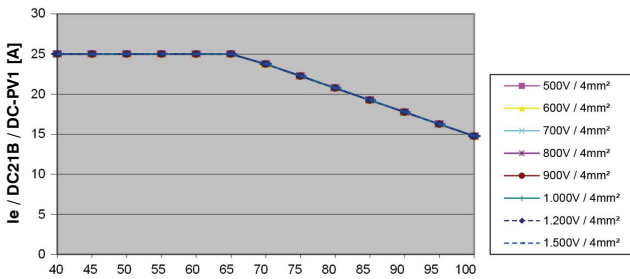
Ambient temperature around the switch (°C)

Switch open LSM25 ..., 2 contacts in series + 2 parallel (A2+2)



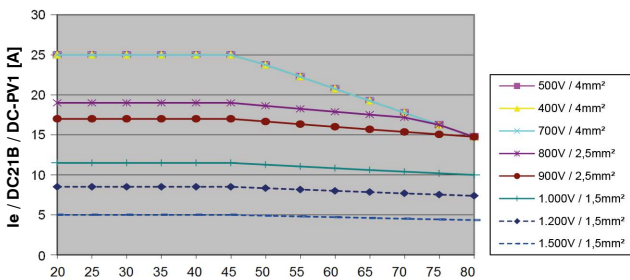
Ambient temperature around the switch (°C)

Switch open LSM25..., 4 contacts in series (A4x)



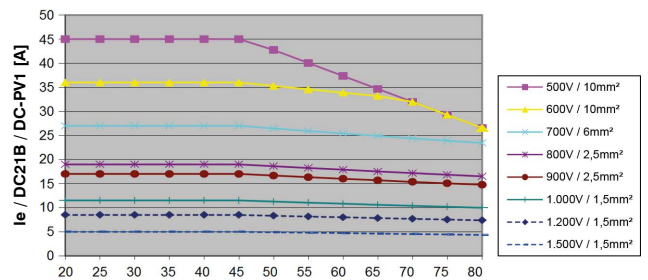
Ambient temperature around the switch (°C)

Switch enclosed LSM25 PFL..., 2 contacts in series (A2)



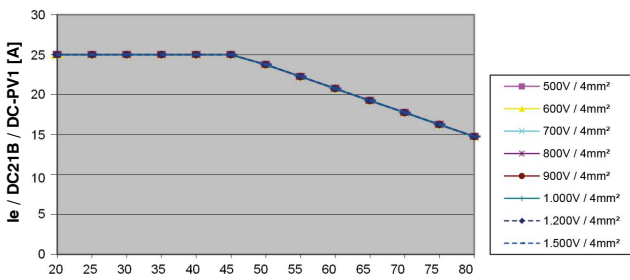
Ambient temperature around the switch (°C)

Switch enclosed LSM25 PFL..., 2 contacts in series + 2 parallel (A2+2)



Ambient temperature around the switch (°C)

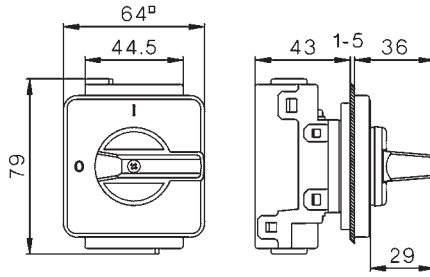
Switch enclosed LSM25 PFL..., 4 contacts in series (A4x)



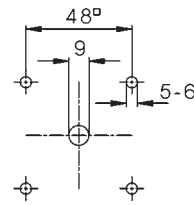
Ambient temperature around the switch (°C)

**Dimensions:**

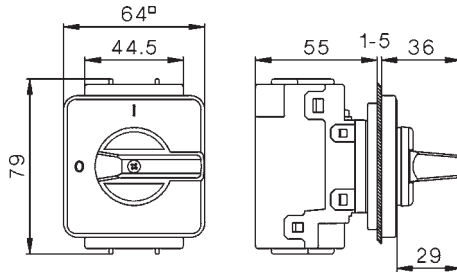
**LSM16 E.. to LSM38 E..  
..A2**



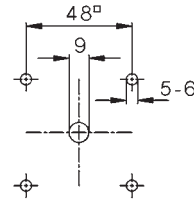
Mounting hole-



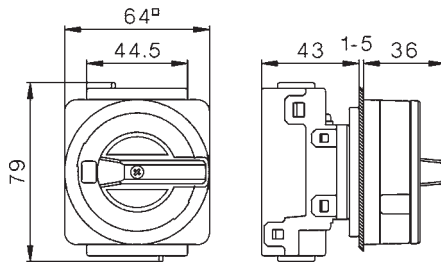
**LSM16 E.. to LSM38 E..  
..A2+2, ..A4**



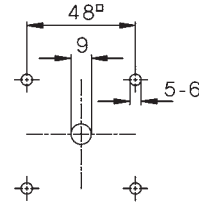
Mounting hole



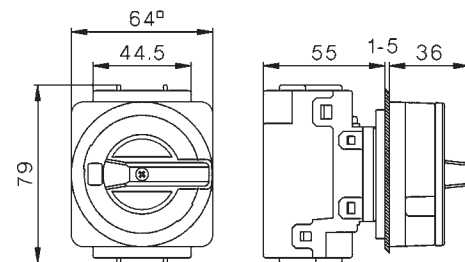
**LSM16 EH4.. to LSM38 EH4..  
..A2**



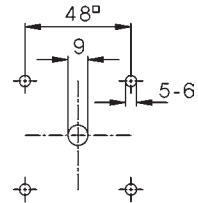
Mounting hole-



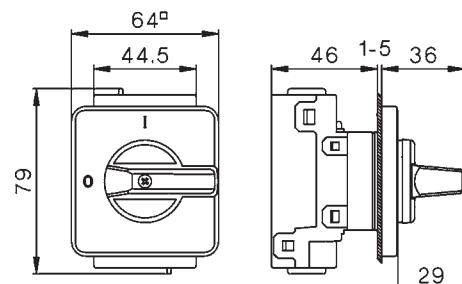
**LSM16 EH4.. to LSM38 EH4..  
..A2+2, ..A4**



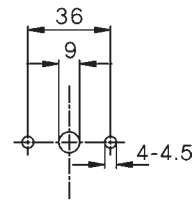
Mounting hole



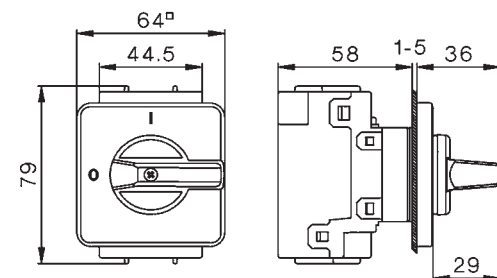
**LSM16 E2.. to LSM38 E2..  
..A2**



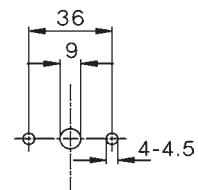
Mounting hole



**LSM16 E2.. to LSM38 E2..  
..A2+2, ..A4**

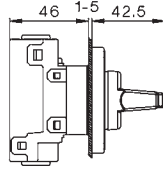
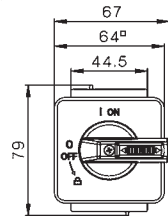


Mounting hole

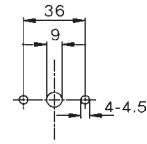


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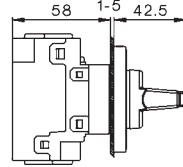
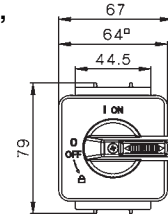
**LSM16 E2H1.. to LSM38 E2H1..., ..A2**



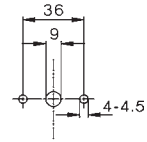
Mounting hole



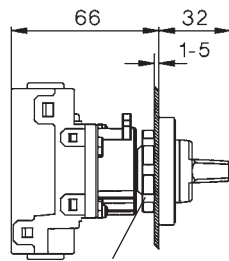
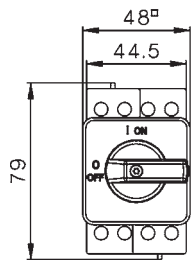
**LSM16 E2H1.. to LSM38 E2H1..., ..A2+2, ..A4**



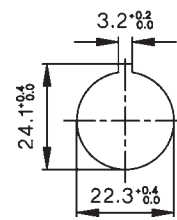
Mounting hole



**LSM16 Z.. to LSM38 Z..., ..A2**

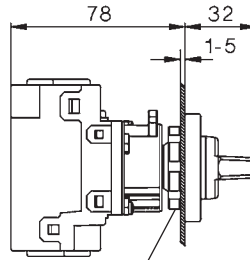
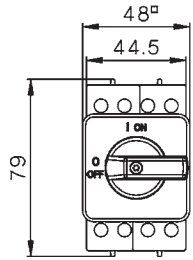


Mounting hole

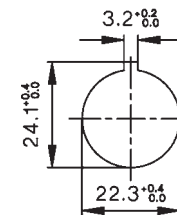


0,8-1,5Nm

**LSM16 Z.. to LSM38 Z..., ..A2+2, ..A4**

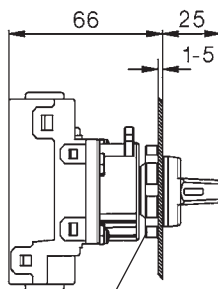
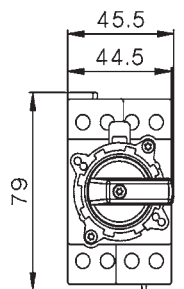


Mounting hole

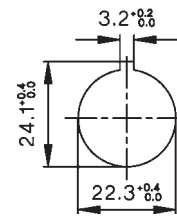


0,8-1,5Nm

**LSM16 ZO.. to LSM38 ZO..., ..A2**

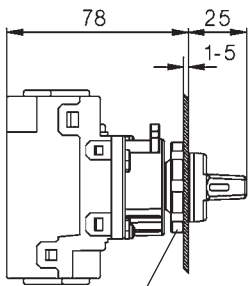
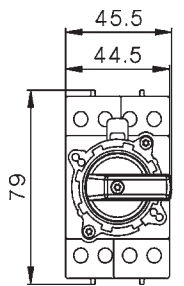


Mounting hole

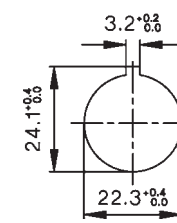


0,8-1,5Nm

**LSM16 ZO.. to LSM38 ZO..., ..A2+2, ..A4**



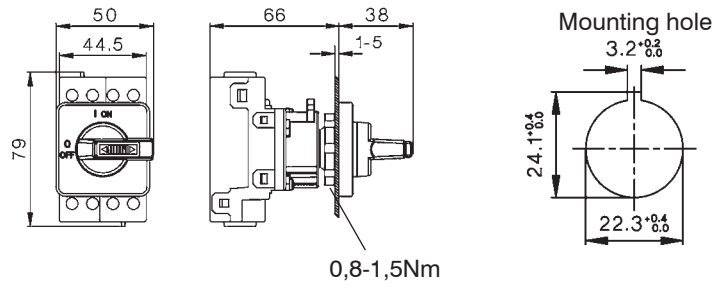
Mounting hole



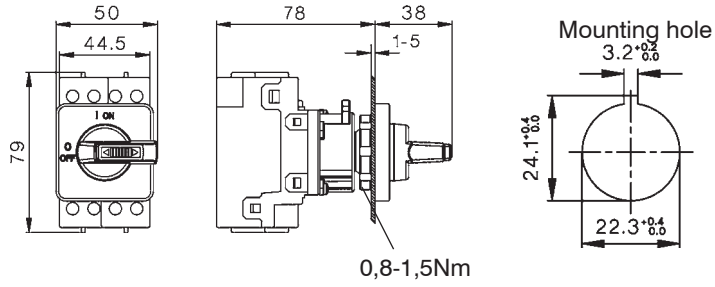
0,8-1,5Nm

**Dimensions:**

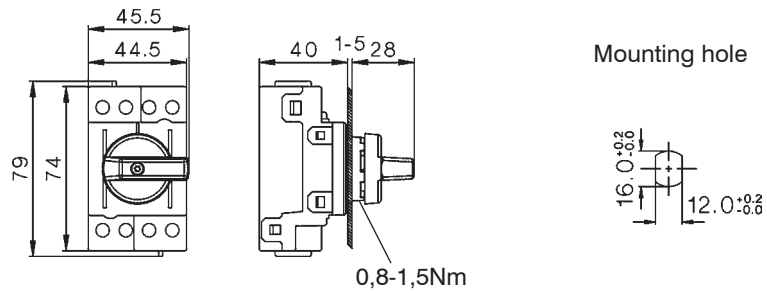
**LSM16 ZH1.. to LSM38 ZH1.., ..A2**



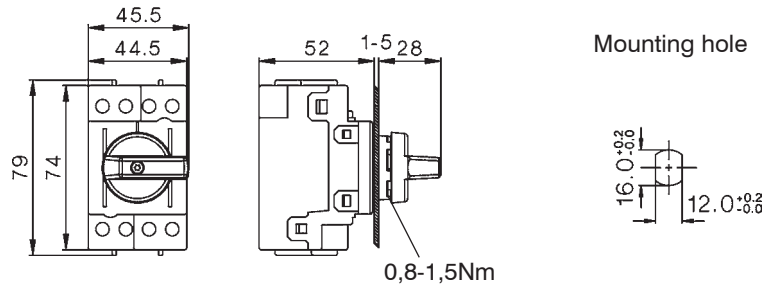
**LSM16 ZH1.. to LSM38 ZH1.., ..A2+2, ..A4**



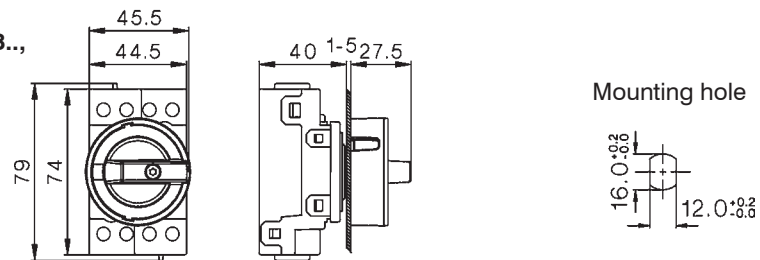
**LSM16 Z16.. to LSM38 Z16.., ..A2**



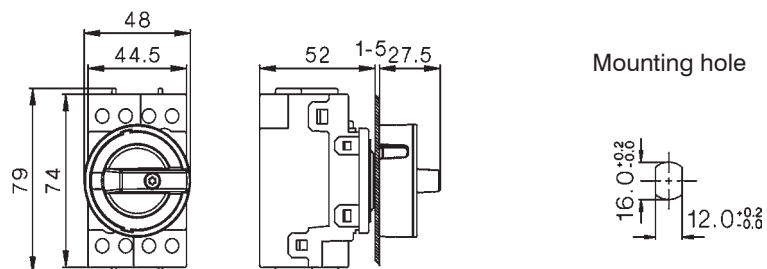
**LSM16 Z16.. to LSM38 Z16.., ..A2+2, ..A4**



**LSM16 ZH448.. to LSM38 Z16H448.., ..A2**

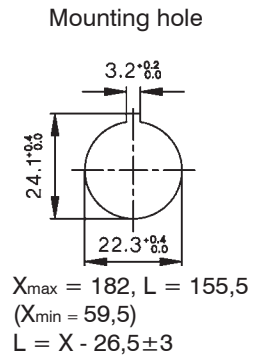
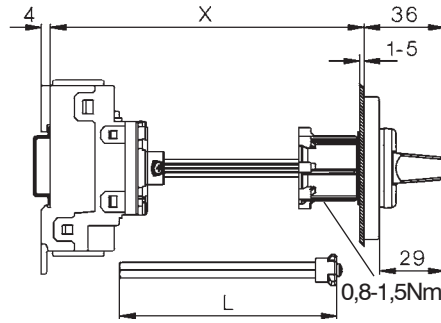
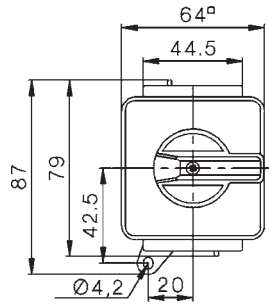


**LSM16 ZH448.. to LSM38 ZH448.., ..A2+2, ..A4**

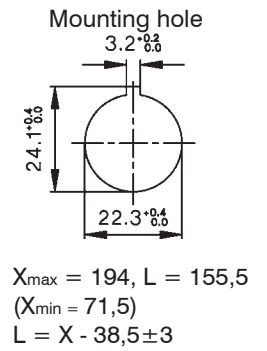
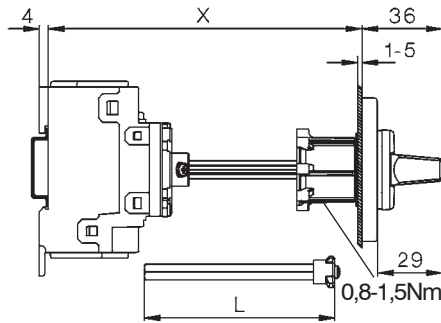
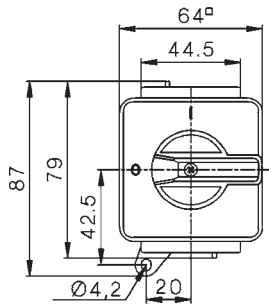


**Dimensions:**

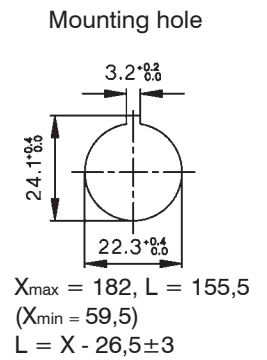
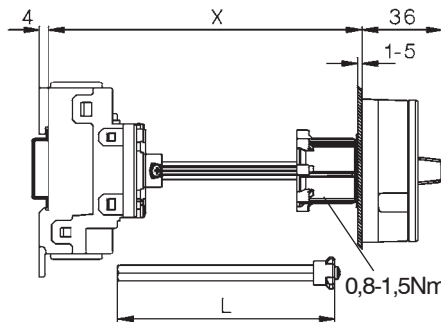
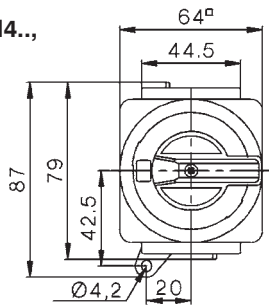
**LSM16 VZV.. to LSM38 VZV.., ..A2**



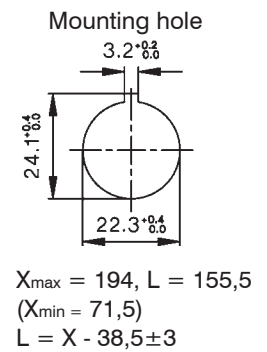
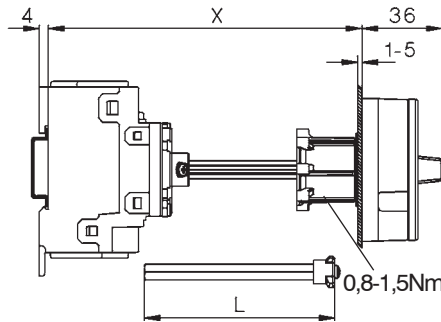
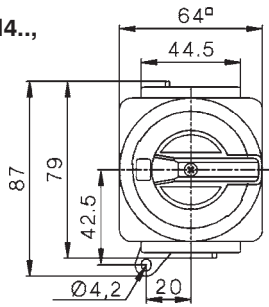
**LSM16 VZV.. to LSM38 VZV.., ..A2+2, ..A4**



**LSM16 VZVH4.. to LSM38 VZVH4.., ..A2**

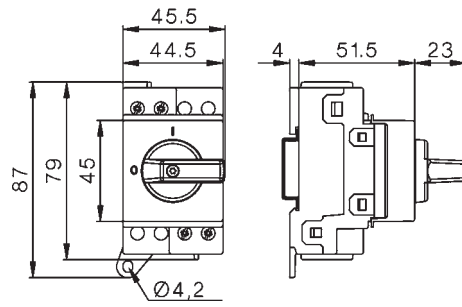


**LSM16 VZVH4.. to LSM38 VZVH4.., ..A2+2, ..A4**

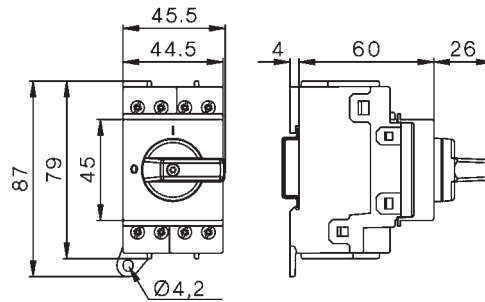


**Dimensions:**

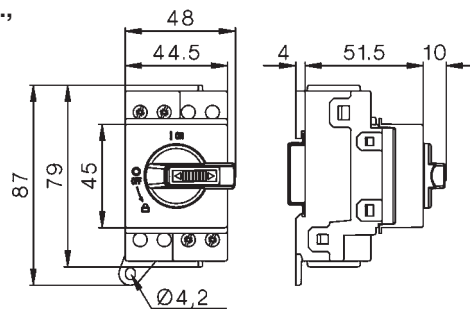
**LSM16 SMA.. to LSM38 SMA..  
..A2**



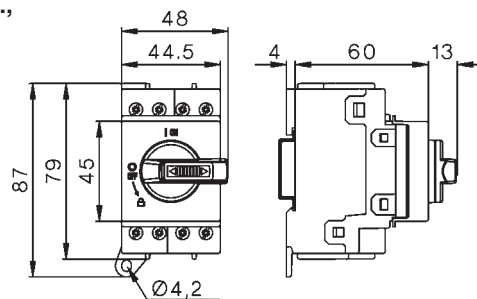
**LSM16 SMA.. to LSM38 SMA..  
..A2+2, ..A4**



**LSM16 SMAH1N.. to LSM38 SMAH1N..  
..A2**



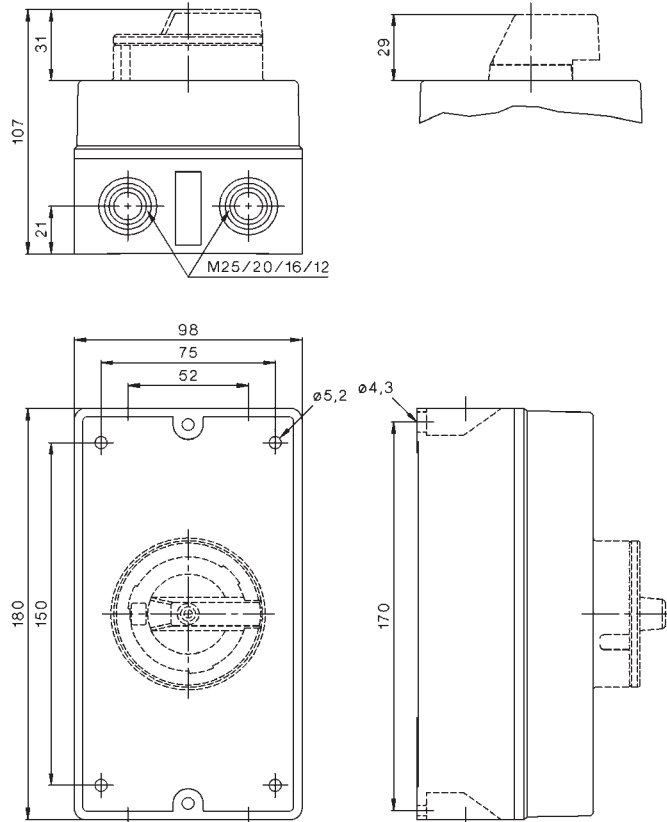
**LSM16 SMAH1N.. to LSM38 SMAH1N..  
..A2+2, ..A4**





**Dimensions:**

**LSM16 PFLH.. to LSM38 PFLH4...  
..A2, ..A2+2, ..A4**





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