

# Mini DC - Lasttrennschalter für Photovoltaik

nach IEC 60364-7-712



Qualität aus Österreich



D1024D201

|                                                                                                                                                                                                                   |                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Schütze<br/>Motor-Starter</b></p>  <p></p> | <p>Mini-Schütze<br/>Leistungsschütze<br/>Motorschutze<br/>Kondensatorschütze<br/>Motor-Starter<br/>Schütze für Reiheneinbau</p> <p>Technische Liste <b>D677D..</b></p> |
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|                                                                                                                                                                                                            |                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Leistungsschalter</b></p>  <p></p> | <p>M4-32T... bis 32A<br/>M4-32R... bis 32A<br/>M4-63R... bis 63A<br/>M4-100R...bis 100A</p> <p>Technische Liste <b>D795D..</b></p> |
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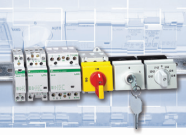
|                                                                                                                                                                                                  |                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Schalter</b></p>  <p></p> | <p>Ausschalter<br/>Umschalter<br/>Motorschalter<br/>Stufenschalter<br/>Hauptschalter<br/>Reiheneinbauschalter<br/>Schlüsselschalter</p> <p>Technische Liste <b>D371D..</b></p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                        |                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <p><b>Hauptschalter</b></p>  <p></p> | <p>Not-Aus-Hauptschalter<br/>Hauptschalter<br/>Ein-Aus-Schalter<br/>Anbaumodule</p> <p>Technische Liste <b>D656D..</b></p> |
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|                                                                                                                                                                                                                     |                                                                                                                        |
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| <p><b>Kondensator-<br/>schütze</b></p>  <p></p> | <p>Schütze für verdrosselte<br/>und unverdrosselte<br/>Kompensationsanlagen</p> <p>Technische Liste <b>D385D..</b></p> |
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|                                                                                                                                                                                                                       |                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Motorschutz-<br/>schalter</b></p>  <p></p> | <p>MU25A bis max. 32A</p> <p>Hilfskontakte<br/>Auslöser<br/>Schienensystem<br/>Gehäuse</p> <p>Technische Liste <b>D509D..</b></p> |
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|                                                                                                                                                                                                                           |                                                                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Befehls- u. Melde-<br/>geräte</b></p>  <p></p> | <p>Drucktasten<br/>Not-Aus-Tasten<br/>Schlüsselschalter<br/>Knebelschalter<br/>Leuchtmelder<br/>Gekapselte Taster-<br/>kombinationen</p> <p>Technische Liste <b>D580D..</b></p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                                       |                                                                                                                                                                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Reiheneinbau-<br/>Geräte</b></p>  <p></p> | <p>Schütze für Reiheneinbau<br/>Zubehör<br/>Sicherheitsschalter<br/>Hauptschalter Not-Aus<br/>Lasttrennschalter<br/>Steuerschalter</p> <p>Technische Preisliste <b>D681D..</b></p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                                                         |                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>DC-Schalter u. Schütze<br/>für Photovoltaik</b></p>  <p></p> | <p>Not-Aus-Hauptschalter<br/>Hauptschalter<br/>Ein-Aus-Schalter<br/>Schütze für<br/>Gleichstromschaltung</p> <p>Technische Liste <b>D911D..</b></p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                                                                                                                                                                                |                                                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Niederspannungs-<br/>Schaltgeräte</b></p>  <p></p> | <p>Schütze<br/>Direktstarter<br/>Motorschutze<br/>Motorschutze<br/>Hauptschalter<br/>Leistungsschalter<br/>Nockenschalter<br/>Befehls- u. Meldegeräte</p> <p>Auszugsliste <b>D651D..</b></p> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



EIN-AUS Mini DC-Schalter für Fronteinbau (4 Loch)

6

Mini DC-Hauptschalter für Fronteinbau (4 Loch)

6

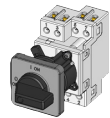


EIN-AUS Mini DC-Schalter für Fronteinbau (2 Loch)

7

Mini DC-Hauptschalter für Fronteinbau (2 Loch)

7

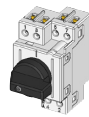


EIN-AUS Mini DC-Schalter für Zentralbefestigung (Ø22,5mm)

8

Mini DC-Hauptschalter für Zentralbefestigung (Ø22,5mm)

9



EIN-AUS Mini DC-Schalter für Zentralbefestigung (Ø16mm)

9

Mini DC-Hauptschalter für Zentralbefestigung (Ø16mm)

10

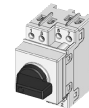


EIN-AUS Mini DC-Schalter für Bodenmontage

10

Mini DC-Hauptschalter für Bodenmontage

11



EIN-AUS Mini DC-Schalter für Reiheneinbau

11

Mini DC-Hauptschalter für Reiheneinbau

12



Mini DC-Hauptschalter, isolierstoffgekapselt

12



Technische Daten

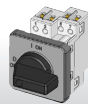
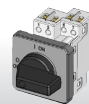
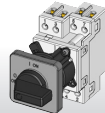
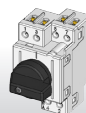
13 - 18

Zulassungen

17

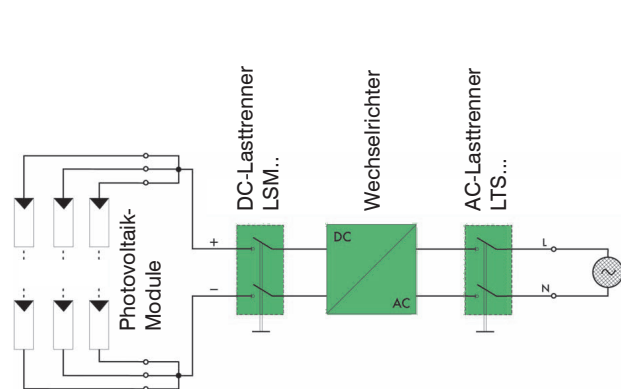
Abmessungen

19 - 24

| Nennwerte |                            |                                       |                         | Mini DC-Lasttrennschalter |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
|-----------|----------------------------|---------------------------------------|-------------------------|---------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Nennstrom |                            |                                       |                         | Bauformen                 | Fronteinbau<br>Vierlochbefestigung<br>IP66 <sup>1)</sup> Type 3R                  | Fronteinbau<br>Zweilochbefestigung<br>IP66 <sup>1)</sup> Type 3R                  | Zentralbefestigung<br>Ø22,5mm<br>IP66 <sup>1)</sup> Type 4X                         | Zentralbefestigung<br>Ø16mm<br>IP66 <sup>1)</sup> Type 4X                           |
| Typ       | I <sub>th</sub> offen<br>A | DC21B(DC-PV1)<br>4 Pole in Serie<br>A | bei U <sub>e</sub><br>V |                           |  |  |  |  |
| LSM16     | 16                         | 16                                    | 1500                    | ..E. EH4..                | ..E2. E2H1..                                                                      | ..Z(O). ZH1..                                                                     | ..Z16. Z16H448..                                                                    |                                                                                     |
| LSM25     | 25                         | 25                                    | 1500                    | ..E. EH4..                | ..E2. E2H1..                                                                      | ..Z(O). ZH1..                                                                     | ..Z16. Z16H448..                                                                    |                                                                                     |
| LSM32     | 32                         | 32                                    | 1500                    | ..E. EH4..                | ..E2. E2H1..                                                                      | ..Z(O). ZH1..                                                                     | ..Z16. Z16H448..                                                                    |                                                                                     |
| LSM38     | 45                         | 45                                    | 1500                    | ..E. EH4..                | ..E2. E2H1..                                                                      | ..Z(O). ZH1..                                                                     | ..Z16. Z16H448..                                                                    |                                                                                     |
| LSMO16    | 16                         | 16                                    | 1500                    | ..E. EH4..                | ..E2. E2H1..                                                                      | ..Z(O). ZH1..                                                                     | ..Z16. Z16H448..                                                                    |                                                                                     |
| LSMO25    | 25                         | 25                                    | 1500                    | ..E. EH4..                | ..E2. E2H1..                                                                      | ..Z(O). ZH1..                                                                     | ..Z16. Z16H448..                                                                    |                                                                                     |
| LSMO32    | 32                         | 32                                    | 1500                    | ..E. EH4..                | ..E2. E2H1..                                                                      | ..Z(O). ZH1..                                                                     | ..Z16. Z16H448..                                                                    |                                                                                     |
| LSMO38    | 45                         | 45                                    | 1500                    | ..E. EH4..                | ..E2. E2H1..                                                                      | ..Z(O). ZH1..                                                                     | ..Z16. Z16H448..                                                                    |                                                                                     |

## Mini DC-Lasttrennschalter für Photovoltaik

Gemäß IEC 60364-7-712 „Errichten von Photovoltaik-Versorgungssystemen“ ist eine Einrichtung zum Trennen (= Lasttrennschalter) der Photovoltaik-Module vom Wechselrichter verbindlich vorgeschrieben.



Mini Lasttrennschalter „LSM“ gewährleisten ein zuverlässiges Schalten von bis zu 50A bei 1200V in der Kategorie DC-PV1 (=DC21B).

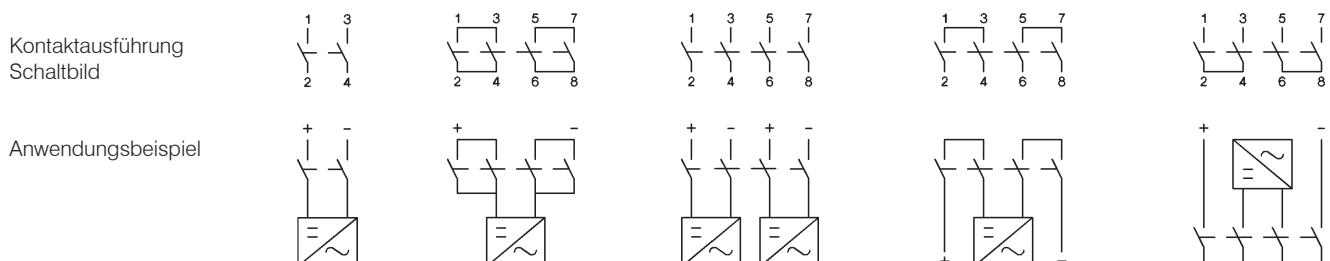
Die Kontakte sind gegen Oxydation (bei geringer Schalthäufigkeit) und somit gegen unzulässige Erwärmung geschützt.

Mini Lasttrennschalter „LSM“ sind mit 2 oder 4 schaltbaren, einzelnen Kontakten ausgestattet. Durch Serien- und Parallelschaltung der Kontakte kann die Schaltleistung entsprechend erhöht werden.

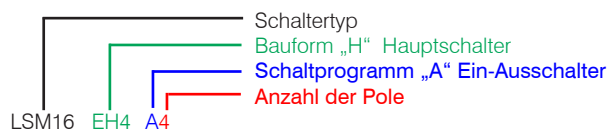
Die hohe Schaltgeschwindigkeit der Kontakte ist unabhängig von der Betätigungsgeschwindigkeit des Handgriffes.

## Schaltprogramme

| Typ             | 2-polig | 2+2-polig<br>2 Pole in Serie<br>+ 2 Pole parallel | 4-polig       | 4-polig<br>2 Brücken oben<br>Einspeisung und<br>Abgang unten | 4-polig<br>2 Brücken unten<br>Einspeisung und<br>Abgang oben |
|-----------------|---------|---------------------------------------------------|---------------|--------------------------------------------------------------|--------------------------------------------------------------|
| LSM16 ... LSM38 | .. A2   | .. A2+2                                           | .. A4(2 x A2) | .. A4O                                                       | .. A4U                                                       |



## Bestellanleitung



1) Schutzart von vorne im eingebauten Zustand

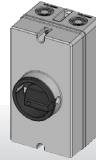
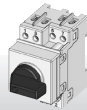
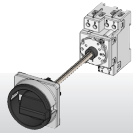


## Mini DC-Lasttrennschalter

Bodenmontage mit Tür-  
kupplung, Zentralbefestigung,  
Ø22,5mm, IP66<sup>1)</sup> Type 4X

Reiheneinbau  
IP40<sup>1)</sup>  
Open Type

Preßstoffge kapselt  
PFL.. IP66/67<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.. |

## Technische Daten für DC, nach IEC 60947-3, VDE0660

| Typ                              |            |   | DC-PV1 (= DC21B) |      |      |      |      |       |       |       | DC-PV2 |      |      |       |
|----------------------------------|------------|---|------------------|------|------|------|------|-------|-------|-------|--------|------|------|-------|
|                                  |            |   | 500V             | 600V | 700V | 800V | 900V | 1000V | 1200V | 1500V | 500V   | 600V | 800V | 1000V |
| 2 Pole in Serie<br>              | ..LSM16..  | A | 16               | 16   | 16   | 16   | 16   | 10    | 7     | 3     | 16     | 14   | 12   | 4     |
|                                  | ..LSM25..  | A | 25               | 25   | 25   | 20   | 17   | 11,5  | 8,5   | 5     | 25     | 21   | 15   | 5     |
|                                  | ..LSM32..  | A | 32               | 32   | 32   | 23   | 20   | 13    | 10    | 6     | 32     | 27   | 17   | 6     |
|                                  | ..LSM38..  | A | 45               | 45   | 36   | 30   | 25   | 20    | 10    | 6     | 38     | 31   | 19   | 7     |
| 2 Pole in Serie + 2 parallel<br> | ..LSM16..  | A | 29               | 29   | 22   | 17   | 16   | 10    | 7     | 3     | 25     | 20   | 12   | 4     |
|                                  | ..LSM25..  | A | 45               | 36   | 27   | 20   | 17   | 11,5  | 8,5   | 5     | 39     | 32   | 15   | 5     |
|                                  | ..LSM32..  | A | 50               | 50   | 32   | 23   | 20   | 13    | 10    | 6     | 50     | 35   | 17   | 6     |
|                                  | ..LSM38..  | A | 50               | 50   | 36   | 30   | 25   | 20    | 10    | 6     | 50     | 38   | 19   | 7     |
| 4 Pole in Serie<br>              | ..LSM16..  | A | 16               | 16   | 16   | 16   | 16   | 16    | 16    | 16    | 16     | 16   | 16   | 16    |
|                                  | ..LSM25..  | A | 25               | 25   | 25   | 25   | 25   | 25    | 25    | 25    | 25     | 25   | 25   | 25    |
|                                  | ..LSM32..  | A | 32               | 32   | 32   | 32   | 32   | 32    | 32    | 32    | 32     | 32   | 32   | 32    |
|                                  | ..LSM38..  | A | 45               | 45   | 45   | 45   | 45   | 38    | 32    | 32    | 45     | 45   | 38   | 38    |
| 4 Pole in Serie + 2 parallel<br> | ..LSMO16.. | A | 29               | 29   | 29   | 29   | 29   | 29    | 29    | 20    | 29     | 29   | 21   | 16    |
|                                  | ..LSMO25.. | A | 45               | 45   | 45   | 45   | 45   | 45    | 33    | 26    | 45     | 45   | 35   | 25    |
|                                  | ..LSMO32.. | A | 50               | 50   | 50   | 50   | 50   | 50    | 50    | 32    | 50     | 50   | 45   | 32    |
|                                  | ..LSMO38.. | A | 50               | 50   | 50   | 50   | 50   | 50    | 50    | 32    | 50     | 50   | 50   | 50    |

## Schaltprogramme

Typ

6-polig

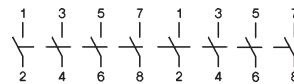
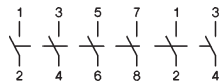
8-polig

LSMO16 ... LSMO38

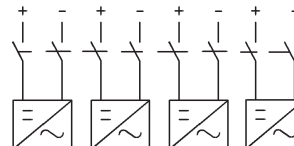
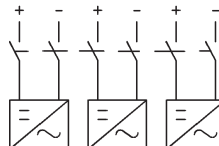
...A6

...A8

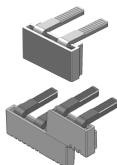
Kontaktausführung  
Schaltbilder



Anwendungsbeispiele



Isolierte Verbinder LSMV-.. für Serien- und Parallelschaltung von Kontakten (Klemmen 1-3, 5-7, 2-4, 6-8)



für Schalter

Typ

VPE

Gewicht

LSM(O)16 ... LSM(O)25 (A4O, A4U, A2+2)

LSMV-B1-1

100

4,80 g/Stk.

LSM(O)32 ... LSM(O)38 (A4O, A4U, A2+2)

LSMV-B1-2

100

9,00 g/Stk.

LSMO16 ... LSMO25 (A4+2)

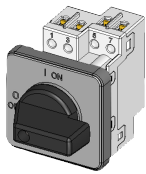
LSMOV-B1

100

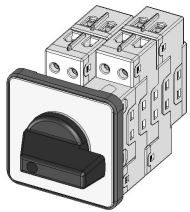
8,90 g/Stk.

1) Schutzart von vorne im eingebauten Zustand

# EIN-AUS Mini DC-Schalter für Fronteinbau, Vierlochbef., Schild 64, IP66, Type 3R

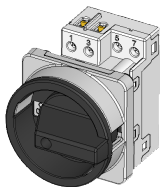


| DC-PV1 (=DC21B) |       | Anzahl Pole<br>in Serie | Anzahl<br>Strings | Typ                 | VPE<br>Stk. | Gewicht<br>kg/Stk. |
|-----------------|-------|-------------------------|-------------------|---------------------|-------------|--------------------|
| 600V            | 1000V |                         |                   |                     |             |                    |
| 16A             | 10A   | 2                       | 1                 | <b>LSM16 E A2</b>   | 1           | 0,18               |
| 25A             | 11,5A | 2                       | 1                 | <b>LSM25 E A2</b>   | 1           | 0,18               |
| 32A             | 13A   | 2                       | 1                 | <b>LSM32 E A2</b>   | 1           | 0,18               |
| 45A             | 20A   | 2                       | 1                 | <b>LSM38 E A2</b>   | 1           | 0,18               |
| 29A             | 10A   | 2                       | 1                 | <b>LSM16 E A2+2</b> | 1           | 0,24               |
| 36A             | 11,5A | 2                       | 1                 | <b>LSM25 E A2+2</b> | 1           | 0,24               |
| 50A             | 13A   | 2                       | 1                 | <b>LSM32 E A2+2</b> | 1           | 0,24               |
| 50A             | 20A   | 2                       | 1                 | <b>LSM38 E A2+2</b> | 1           | 0,24               |
| 16A             | 16A   | 2                       | 2                 | <b>LSM16 E A4</b>   | 1           | 0,23               |
| 25A             | 25A   | 2                       | 2                 | <b>LSM25 E A4</b>   | 1           | 0,23               |
| 32A             | 32A   | 2                       | 2                 | <b>LSM32 E A4</b>   | 1           | 0,23               |
| 45A             | 38A   | 2                       | 2                 | <b>LSM38 E A4</b>   | 1           | 0,23               |
| 16A             | 16A   | 4                       | 1                 | <b>LSM16 E A4O</b>  | 1           | 0,25               |
| 25A             | 25A   | 4                       | 1                 | <b>LSM25 E A4O</b>  | 1           | 0,25               |
| 32A             | 32A   | 4                       | 1                 | <b>LSM32 E A4O</b>  | 1           | 0,25               |
| 45A             | 38A   | 4                       | 1                 | <b>LSM38 E A4O</b>  | 1           | 0,25               |
| 16A             | 16A   | 4                       | 1                 | <b>LSM16 E A4U</b>  | 1           | 0,25               |
| 25A             | 25A   | 4                       | 1                 | <b>LSM25 E A4U</b>  | 1           | 0,25               |
| 32A             | 32A   | 4                       | 1                 | <b>LSM32 E A4U</b>  | 1           | 0,25               |
| 45A             | 38A   | 4                       | 1                 | <b>LSM38 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 |

# Mini DC-Hauptschalter für Fronteinbau, Vierlochbef., Schild 64, IP66, Type 3R

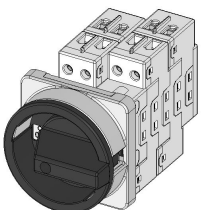


|     |       |   |   |                       |   |      |
|-----|-------|---|---|-----------------------|---|------|
| 16A | 10A   | 2 | 1 | <b>LSM16 EH4 A2</b>   | 1 | 0,19 |
| 25A | 11,5A | 2 | 1 | <b>LSM25 EH4 A2</b>   | 1 | 0,19 |
| 32A | 13A   | 2 | 1 | <b>LSM32 EH4 A2</b>   | 1 | 0,19 |
| 45A | 20A   | 2 | 1 | <b>LSM38 EH4 A2</b>   | 1 | 0,19 |
| 29A | 10A   | 2 | 1 | <b>LSM16 EH4 A2+2</b> | 1 | 0,25 |
| 36A | 11,5A | 2 | 1 | <b>LSM25 EH4 A2+2</b> | 1 | 0,25 |
| 50A | 13A   | 2 | 1 | <b>LSM32 EH4 A2+2</b> | 1 | 0,25 |
| 50A | 20A   | 2 | 1 | <b>LSM38 EH4 A2+2</b> | 1 | 0,25 |

|     |     |   |   |                     |   |      |
|-----|-----|---|---|---------------------|---|------|
| 16A | 16A | 2 | 2 | <b>LSM16 EH4 A4</b> | 1 | 0,24 |
| 25A | 25A | 2 | 2 | <b>LSM25 EH4 A4</b> | 1 | 0,24 |
| 32A | 32A | 2 | 2 | <b>LSM32 EH4 A4</b> | 1 | 0,24 |
| 45A | 38A | 2 | 2 | <b>LSM38 EH4 A4</b> | 1 | 0,24 |

|     |     |   |   |                      |   |      |
|-----|-----|---|---|----------------------|---|------|
| 16A | 16A | 4 | 1 | <b>LSM16 EH4 A4O</b> | 1 | 0,26 |
| 25A | 25A | 4 | 1 | <b>LSM25 EH4 A4O</b> | 1 | 0,26 |
| 32A | 32A | 4 | 1 | <b>LSM32 EH4 A4O</b> | 1 | 0,26 |
| 45A | 38A | 4 | 1 | <b>LSM38 EH4 A4O</b> | 1 | 0,26 |

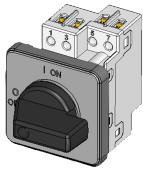
|     |     |   |   |                      |   |      |
|-----|-----|---|---|----------------------|---|------|
| 16A | 16A | 4 | 1 | <b>LSM16 EH4 A4U</b> | 1 | 0,26 |
| 25A | 25A | 4 | 1 | <b>LSM25 EH4 A4U</b> | 1 | 0,26 |
| 32A | 32A | 4 | 1 | <b>LSM32 EH4 A4U</b> | 1 | 0,26 |
| 45A | 38A | 4 | 1 | <b>LSM38 EH4 A4U</b> | 1 | 0,26 |



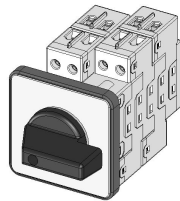
|     |       |   |   |                      |   |      |
|-----|-------|---|---|----------------------|---|------|
| 16A | 10A   | 2 | 3 | <b>LSMO16 EH4 A6</b> | 1 | 0,51 |
| 25A | 11,5A | 2 | 3 | <b>LSMO25 EH4 A6</b> | 1 | 0,51 |
| 32A | 13A   | 2 | 3 | <b>LSMO32 EH4 A6</b> | 1 | 0,51 |
| 45A | 20A   | 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 |

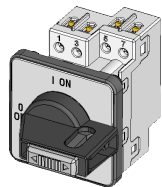
# EIN-AUS Mini DC-Schalter für Fronteinbau, Zweilochbef., Schild 64, IP66, Type 3R



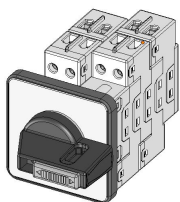
| DC-PV1 (=DC21B) |       | Anzahl Pole<br>in Serie | Anzahl<br>Strings | Typ           | VPE<br>Stk. | Gewicht<br>kg/Stk. |
|-----------------|-------|-------------------------|-------------------|---------------|-------------|--------------------|
| 600V            | 1000V |                         |                   |               |             |                    |
| 16A             | 10A   | 2                       | 1                 | LSM16 E2 A2   | 1           | 0,18               |
| 25A             | 11,5A | 2                       | 1                 | LSM25 E2 A2   | 1           | 0,18               |
| 32A             | 13A   | 2                       | 1                 | LSM32 E2 A2   | 1           | 0,18               |
| 45A             | 20A   | 2                       | 1                 | LSM38 E2 A2   | 1           | 0,18               |
| 29A             | 10A   | 2                       | 1                 | LSM16 E2 A2+2 | 1           | 0,24               |
| 36A             | 11,5A | 2                       | 1                 | LSM25 E2 A2+2 | 1           | 0,24               |
| 50A             | 13A   | 2                       | 1                 | LSM32 E2 A2+2 | 1           | 0,24               |
| 50A             | 20A   | 2                       | 1                 | LSM38 E2 A2+2 | 1           | 0,24               |
| 16A             | 16A   | 2                       | 2                 | LSM16 E2 A4   | 1           | 0,23               |
| 25A             | 25A   | 2                       | 2                 | LSM25 E2 A4   | 1           | 0,23               |
| 32A             | 32A   | 2                       | 2                 | LSM32 E2 A4   | 1           | 0,23               |
| 45A             | 38A   | 2                       | 2                 | LSM38 E2 A4   | 1           | 0,23               |
| 16A             | 16A   | 4                       | 1                 | LSM16 E2 A4O  | 1           | 0,25               |
| 25A             | 25A   | 4                       | 1                 | LSM25 E2 A4O  | 1           | 0,25               |
| 32A             | 32A   | 4                       | 1                 | LSM32 E2 A4O  | 1           | 0,25               |
| 45A             | 38A   | 4                       | 1                 | LSM38 E2 A4O  | 1           | 0,25               |
| 16A             | 16A   | 4                       | 1                 | LSM16 E2 A4U  | 1           | 0,25               |
| 25A             | 25A   | 4                       | 1                 | LSM25 E2 A4U  | 1           | 0,25               |
| 32A             | 32A   | 4                       | 1                 | LSM32 E2 A4U  | 1           | 0,25               |
| 45A             | 38A   | 4                       | 1                 | LSM38 E2 A4U  | 1           | 0,25               |
| 16A             | 10A   | 2                       | 3                 | LSMO16 E2 A6  | 1           | 0,50               |
| 25A             | 11,5A | 2                       | 3                 | LSMO25 E2 A6  | 1           | 0,50               |
| 32A             | 13A   | 2                       | 3                 | LSMO32 E2 A6  | 1           | 0,50               |
| 45A             | 20A   | 2                       | 3                 | LSMO38 E2 A6  | 1           | 0,50               |
| 16A             | 10A   | 2                       | 4                 | LSMO16 E2 A8  | 1           | 0,52               |
| 25A             | 11,5A | 2                       | 4                 | LSMO25 E2 A8  | 1           | 0,52               |
| 32A             | 13A   | 2                       | 4                 | LSMO32 E2 A8  | 1           | 0,52               |
| 45A             | 20A   | 2                       | 4                 | LSMO38 E2 A8  | 1           | 0,52               |



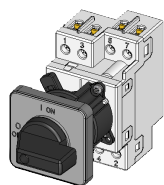
# Mini DC-Hauptschalter für Fronteinbau, Zweilochbef., Schild 64, IP66, Type 3



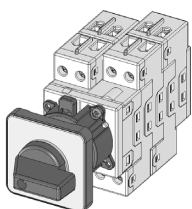
|     |       |   |   |                 |   |      |
|-----|-------|---|---|-----------------|---|------|
| 16A | 10A   | 2 | 1 | LSM16 E2H1 A2   | 1 | 0,19 |
| 25A | 11,5A | 2 | 1 | LSM25 E2H1 A2   | 1 | 0,19 |
| 32A | 13A   | 2 | 1 | LSM32 E2H1 A2   | 1 | 0,19 |
| 45A | 20A   | 2 | 1 | LSM38 E2H1 A2   | 1 | 0,19 |
| 29A | 10A   | 2 | 1 | LSM16 E2H1 A2+2 | 1 | 0,25 |
| 36A | 11,5A | 2 | 1 | LSM25 E2H1 A2+2 | 1 | 0,25 |
| 50A | 13A   | 2 | 1 | LSM32 E2H1 A2+2 | 1 | 0,25 |
| 50A | 20A   | 2 | 1 | LSM38 E2H1 A2+2 | 1 | 0,25 |
| 16A | 16A   | 2 | 2 | LSM16 E2H1 A4   | 1 | 0,24 |
| 25A | 25A   | 2 | 2 | LSM25 E2H1 A4   | 1 | 0,24 |
| 32A | 32A   | 2 | 2 | LSM32 E2H1 A4   | 1 | 0,24 |
| 45A | 38A   | 2 | 2 | LSM38 E2H1 A4   | 1 | 0,24 |
| 16A | 16A   | 4 | 1 | LSM16 E2H1 A4O  | 1 | 0,26 |
| 25A | 25A   | 4 | 1 | LSM25 E2H1 A4O  | 1 | 0,26 |
| 32A | 32A   | 4 | 1 | LSM32 E2H1 A4O  | 1 | 0,26 |
| 45A | 38A   | 4 | 1 | LSM38 E2H1 A4O  | 1 | 0,26 |
| 16A | 16A   | 4 | 1 | LSM16 E2H1 A4U  | 1 | 0,26 |
| 25A | 25A   | 4 | 1 | LSM25 E2H1 A4U  | 1 | 0,26 |
| 32A | 32A   | 4 | 1 | LSM32 E2H1 A4U  | 1 | 0,26 |
| 45A | 38A   | 4 | 1 | LSM38 E2H1 A4U  | 1 | 0,26 |
| 16A | 10A   | 2 | 3 | LSMO16 E2H1 A6  | 1 | 0,51 |
| 25A | 11,5A | 2 | 3 | LSMO25 E2H1 A6  | 1 | 0,51 |
| 32A | 13A   | 2 | 3 | LSMO32 E2H1 A6  | 1 | 0,51 |
| 45A | 20A   | 2 | 3 | LSMO38 E2H1 A6  | 1 | 0,51 |
| 16A | 10A   | 2 | 4 | LSMO16 E2H1 A8  | 1 | 0,53 |
| 25A | 11,5A | 2 | 4 | LSMO25 E2H1 A8  | 1 | 0,53 |
| 32A | 13A   | 2 | 4 | LSMO32 E2H1 A8  | 1 | 0,53 |
| 45A | 20A   | 2 | 4 | LSMO38 E2H1 A8  | 1 | 0,53 |



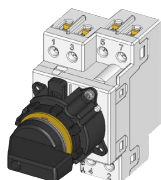
## EIN-AUS Mini DC-Schalter für Zentralbefestigung, Ø22,5mm, Schild 48, IP66, Type 4X



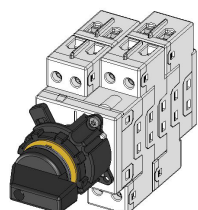
| DC-PV1 (=DC21B)<br>600V 1000V |       | Anzahl Pole<br>in Serie | Anzahl<br>Strings | Typ          | VPE<br>Stk. | Gewicht<br>kg/Stk. |
|-------------------------------|-------|-------------------------|-------------------|--------------|-------------|--------------------|
| 16A                           | 10A   | 2                       | 1                 | LSM16 Z A2   | 1           | 0,17               |
| 25A                           | 11,5A | 2                       | 1                 | LSM25 Z A2   | 1           | 0,17               |
| 32A                           | 13A   | 2                       | 1                 | LSM32 Z A2   | 1           | 0,17               |
| 45A                           | 20A   | 2                       | 1                 | LSM38 Z A2   | 1           | 0,17               |
| 29A                           | 10A   | 2                       | 1                 | LSM16 Z A2+2 | 1           | 0,22               |
| 36A                           | 11,5A | 2                       | 1                 | LSM25 Z A2+2 | 1           | 0,22               |
| 50A                           | 13A   | 2                       | 1                 | LSM32 Z A2+2 | 1           | 0,22               |
| 50A                           | 20A   | 2                       | 1                 | LSM38 Z A2+2 | 1           | 0,22               |
| 16A                           | 16A   | 2                       | 2                 | LSM16 Z A4   | 1           | 0,21               |
| 25A                           | 25A   | 2                       | 2                 | LSM25 Z A4   | 1           | 0,21               |
| 32A                           | 32A   | 2                       | 2                 | LSM32 Z A4   | 1           | 0,21               |
| 45A                           | 38A   | 2                       | 2                 | LSM38 Z A4   | 1           | 0,21               |
| 16A                           | 16A   | 4                       | 1                 | LSM16 Z A4O  | 1           | 0,23               |
| 25A                           | 25A   | 4                       | 1                 | LSM25 Z A4O  | 1           | 0,23               |
| 32A                           | 32A   | 4                       | 1                 | LSM32 Z A4O  | 1           | 0,23               |
| 45A                           | 38A   | 4                       | 1                 | LSM38 Z A4O  | 1           | 0,23               |
| 16A                           | 16A   | 4                       | 1                 | LSM16 Z A4U  | 1           | 0,23               |
| 25A                           | 25A   | 4                       | 1                 | LSM25 Z A4U  | 1           | 0,23               |
| 32A                           | 32A   | 4                       | 1                 | LSM32 Z A4U  | 1           | 0,23               |
| 45A                           | 38A   | 4                       | 1                 | LSM38 Z A4U  | 1           | 0,23               |
| 16A                           | 10A   | 2                       | 3                 | LSMO16 Z A6  | 1           | 0,50               |
| 25A                           | 11,5A | 2                       | 3                 | LSMO25 Z A6  | 1           | 0,50               |
| 32A                           | 13A   | 2                       | 3                 | LSMO32 Z A6  | 1           | 0,50               |
| 45A                           | 20A   | 2                       | 3                 | LSMO38 Z A6  | 1           | 0,50               |
| 16A                           | 10A   | 2                       | 4                 | LSMO16 Z A8  | 1           | 0,52               |
| 25A                           | 11,5A | 2                       | 4                 | LSMO25 Z A8  | 1           | 0,52               |
| 32A                           | 13A   | 2                       | 4                 | LSMO32 Z A8  | 1           | 0,52               |
| 45A                           | 20A   | 2                       | 4                 | LSMO38 Z A8  | 1           | 0,52               |



## EIN-AUS Mini DC-Schalter für Zentralbefestigung, Ø22,5mm, ohne Schild, IP66, Type 4X

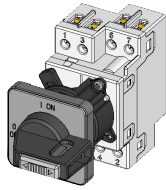


|     |       |   |   |               |   |      |
|-----|-------|---|---|---------------|---|------|
| 16A | 10A   | 2 | 1 | LSM16 ZO A2   | 1 | 0,15 |
| 25A | 11,5A | 2 | 1 | LSM25 ZO A2   | 1 | 0,15 |
| 32A | 13A   | 2 | 1 | LSM32 ZO A2   | 1 | 0,15 |
| 45A | 20A   | 2 | 1 | LSM38 ZO A2   | 1 | 0,15 |
| 29A | 10A   | 2 | 1 | LSM16 ZO A2+2 | 1 | 0,19 |
| 36A | 11,5A | 2 | 1 | LSM25 ZO A2+2 | 1 | 0,19 |
| 50A | 13A   | 2 | 1 | LSM32 ZO A2+2 | 1 | 0,19 |
| 50A | 20A   | 2 | 1 | LSM38 ZO A2+2 | 1 | 0,19 |
| 16A | 16A   | 2 | 2 | LSM16 ZO A4   | 1 | 0,18 |
| 25A | 25A   | 2 | 2 | LSM25 ZO A4   | 1 | 0,18 |
| 32A | 32A   | 2 | 2 | LSM32 ZO A4   | 1 | 0,18 |
| 45A | 38A   | 2 | 2 | LSM38 ZO A4   | 1 | 0,18 |
| 16A | 16A   | 4 | 1 | LSM16 ZO A4O  | 1 | 0,19 |
| 25A | 25A   | 4 | 1 | LSM25 ZO A4O  | 1 | 0,19 |
| 32A | 32A   | 4 | 1 | LSM32 ZO A4O  | 1 | 0,19 |
| 45A | 38A   | 4 | 1 | LSM38 ZO A4O  | 1 | 0,19 |
| 16A | 16A   | 4 | 1 | LSM16 ZO A4U  | 1 | 0,19 |
| 25A | 25A   | 4 | 1 | LSM25 ZO A4U  | 1 | 0,19 |
| 32A | 32A   | 4 | 1 | LSM32 ZO A4U  | 1 | 0,19 |
| 45A | 38A   | 4 | 1 | LSM38 ZO A4U  | 1 | 0,19 |
| 16A | 10A   | 2 | 3 | LSMO16 ZO A6  | 1 | 0,45 |
| 25A | 11,5A | 2 | 3 | LSMO25 ZO A6  | 1 | 0,45 |
| 32A | 13A   | 2 | 3 | LSMO32 ZO A6  | 1 | 0,45 |
| 45A | 20A   | 2 | 3 | LSMO38 ZO A6  | 1 | 0,45 |
| 16A | 10A   | 2 | 4 | LSMO16 ZO A8  | 1 | 0,47 |
| 25A | 11,5A | 2 | 4 | LSMO25 ZO A8  | 1 | 0,47 |
| 32A | 13A   | 2 | 4 | LSMO32 ZO A8  | 1 | 0,47 |
| 45A | 20A   | 2 | 4 | LSMO38 ZO A8  | 1 | 0,47 |

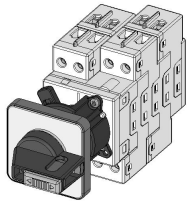




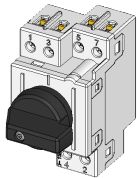
## Mini DC-Hauptschalter für Zentralbefestigung, Ø22,5mm, Schild 48, IP66, Type 4X



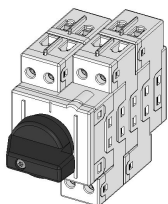
| DC-PV1 (=DC21B) |       | Anzahl Pole<br>in Serie | Anzahl<br>Strings | Typ            | VPE<br>Stk. | Gewicht<br>kg/Stk. |
|-----------------|-------|-------------------------|-------------------|----------------|-------------|--------------------|
| 600V            | 1000V |                         |                   |                |             |                    |
| 16A             | 10A   | 2                       | 1                 | LSM16 ZH1 A2   | 1           | 0,17               |
| 25A             | 11,5A | 2                       | 1                 | LSM25 ZH1 A2   | 1           | 0,17               |
| 32A             | 13A   | 2                       | 1                 | LSM32 ZH1 A2   | 1           | 0,17               |
| 45A             | 20A   | 2                       | 1                 | LSM38 ZH1 A2   | 1           | 0,17               |
| 29A             | 10A   | 2                       | 1                 | LSM16 ZH1 A2+2 | 1           | 0,22               |
| 36A             | 11,5A | 2                       | 1                 | LSM25 ZH1 A2+2 | 1           | 0,22               |
| 50A             | 13A   | 2                       | 1                 | LSM32 ZH1 A2+2 | 1           | 0,22               |
| 50A             | 20A   | 2                       | 1                 | LSM38 ZH1 A2+2 | 1           | 0,22               |
| 16A             | 16A   | 2                       | 2                 | LSM16 ZH1 A4   | 1           | 0,21               |
| 25A             | 25A   | 2                       | 2                 | LSM25 ZH1 A4   | 1           | 0,21               |
| 32A             | 32A   | 2                       | 2                 | LSM32 ZH1 A4   | 1           | 0,21               |
| 45A             | 38A   | 2                       | 2                 | LSM38 ZH1 A4   | 1           | 0,21               |
| 16A             | 16A   | 4                       | 1                 | LSM16 ZH1 A4O  | 1           | 0,23               |
| 25A             | 25A   | 4                       | 1                 | LSM25 ZH1 A4O  | 1           | 0,23               |
| 32A             | 32A   | 4                       | 1                 | LSM32 ZH1 A4O  | 1           | 0,23               |
| 45A             | 38A   | 4                       | 1                 | LSM38 ZH1 A4O  | 1           | 0,23               |
| 16A             | 16A   | 4                       | 1                 | LSM16 ZH1 A4U  | 1           | 0,23               |
| 25A             | 25A   | 4                       | 1                 | LSM25 ZH1 A4U  | 1           | 0,23               |
| 32A             | 32A   | 4                       | 1                 | LSM32 ZH1 A4U  | 1           | 0,23               |
| 45A             | 38A   | 4                       | 1                 | LSM38 ZH1 A4U  | 1           | 0,23               |
| 16A             | 10A   | 2                       | 3                 | LSMO16 ZH1 A6  | 1           | 0,50               |
| 25A             | 11,5A | 2                       | 3                 | LSMO25 ZH1 A6  | 1           | 0,50               |
| 32A             | 13A   | 2                       | 3                 | LSMO32 ZH1 A6  | 1           | 0,50               |
| 45A             | 20A   | 2                       | 3                 | LSMO38 ZH1 A6  | 1           | 0,50               |
| 16A             | 10A   | 2                       | 4                 | LSMO16 ZH1 A8  | 1           | 0,52               |
| 25A             | 11,5A | 2                       | 4                 | LSMO25 ZH1 A8  | 1           | 0,52               |
| 32A             | 13A   | 2                       | 4                 | LSMO32 ZH1 A8  | 1           | 0,52               |
| 45A             | 20A   | 2                       | 4                 | LSMO38 ZH1 A8  | 1           | 0,52               |



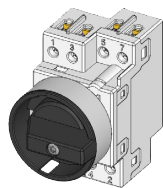
## EIN-AUS Mini DC-Schalter für Zentralbefestigung, Ø16mm, ohne Schild, IP66, Type 4X



|     |       |   |   |                |   |      |
|-----|-------|---|---|----------------|---|------|
| 16A | 10A   | 2 | 1 | LSM16 Z16 A2   | 1 | 0,15 |
| 25A | 11,5A | 2 | 1 | LSM25 Z16 A2   | 1 | 0,15 |
| 32A | 13A   | 2 | 1 | LSM32 Z16 A2   | 1 | 0,15 |
| 45A | 20A   | 2 | 1 | LSM38 Z16 A2   | 1 | 0,15 |
| 29A | 10A   | 2 | 1 | LSM16 Z16 A2+2 | 1 | 0,19 |
| 36A | 11,5A | 2 | 1 | LSM25 Z16 A2+2 | 1 | 0,19 |
| 50A | 13A   | 2 | 1 | LSM32 Z16 A2+2 | 1 | 0,19 |
| 50A | 20A   | 2 | 1 | LSM38 Z16 A2+2 | 1 | 0,19 |
| 16A | 16A   | 2 | 2 | LSM16 Z16 A4   | 1 | 0,18 |
| 25A | 25A   | 2 | 2 | LSM25 Z16 A4   | 1 | 0,18 |
| 32A | 32A   | 2 | 2 | LSM32 Z16 A4   | 1 | 0,18 |
| 45A | 38A   | 2 | 2 | LSM38 Z16 A4   | 1 | 0,18 |
| 16A | 16A   | 4 | 1 | LSM16 Z16 A4O  | 1 | 0,19 |
| 25A | 25A   | 4 | 1 | LSM25 Z16 A4O  | 1 | 0,19 |
| 32A | 32A   | 4 | 1 | LSM32 Z16 A4O  | 1 | 0,19 |
| 45A | 38A   | 4 | 1 | LSM38 Z16 A4O  | 1 | 0,19 |
| 16A | 16A   | 4 | 1 | LSM16 Z16 A4U  | 1 | 0,19 |
| 25A | 25A   | 4 | 1 | LSM25 Z16 A4U  | 1 | 0,19 |
| 32A | 32A   | 4 | 1 | LSM32 Z16 A4U  | 1 | 0,19 |
| 45A | 38A   | 4 | 1 | LSM38 Z16 A4U  | 1 | 0,19 |
| 16A | 10A   | 2 | 3 | LSMO16 Z16 A6  | 1 | 0,45 |
| 25A | 11,5A | 2 | 3 | LSMO25 Z16 A6  | 1 | 0,45 |
| 32A | 13A   | 2 | 3 | LSMO32 Z16 A6  | 1 | 0,45 |
| 45A | 20A   | 2 | 3 | LSMO38 Z16 A6  | 1 | 0,45 |
| 16A | 10A   | 2 | 4 | LSMO16 Z16 A8  | 1 | 0,47 |
| 25A | 11,5A | 2 | 4 | LSMO25 Z16 A8  | 1 | 0,47 |
| 32A | 13A   | 2 | 4 | LSMO32 Z16 A8  | 1 | 0,47 |
| 45A | 20A   | 2 | 4 | LSMO38 Z16 A8  | 1 | 0,47 |

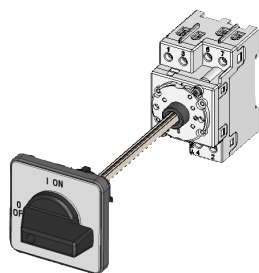


## Mini DC-Hauptschalter für Zentralbefestigung, Ø16mm, Schild 48, IP66, Type 4X



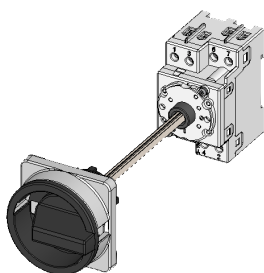
| DC-PV1 (=DC21B) |       | Anzahl Pole<br>in Serie | Anzahl<br>Strings | Typ                | VPE<br>Stk. | Gewicht<br>kg/Stk. |
|-----------------|-------|-------------------------|-------------------|--------------------|-------------|--------------------|
| 600V            | 1000V |                         |                   |                    |             |                    |
| 16A             | 10A   | 2                       | 1                 | LSM16 Z16H448 A2   | 1           | 0,19               |
| 25A             | 11,5A | 2                       | 1                 | LSM25 Z16H448 A2   | 1           | 0,19               |
| 32A             | 13A   | 2                       | 1                 | LSM32 Z16H448 A2   | 1           | 0,19               |
| 45A             | 20A   | 2                       | 1                 | LSM38 Z16H448 A2   | 1           | 0,19               |
| 29A             | 10A   | 2                       | 1                 | LSM16 Z16H448 A2+2 | 1           | 0,25               |
| 36A             | 11,5A | 2                       | 1                 | LSM25 Z16H448 A2+2 | 1           | 0,25               |
| 50A             | 13A   | 2                       | 1                 | LSM32 Z16H448 A2+2 | 1           | 0,25               |
| 50A             | 20A   | 2                       | 1                 | LSM38 Z16H448 A2+2 | 1           | 0,25               |
| 16A             | 16A   | 2                       | 2                 | LSM16 Z16H448 A4   | 1           | 0,24               |
| 25A             | 25A   | 2                       | 2                 | LSM25 Z16H448 A4   | 1           | 0,24               |
| 32A             | 32A   | 2                       | 2                 | LSM32 Z16H448 A4   | 1           | 0,24               |
| 45A             | 38A   | 2                       | 2                 | LSM38 Z16H448 A4   | 1           | 0,24               |
| 16A             | 16A   | 4                       | 1                 | LSM16 Z16H448 A4O  | 1           | 0,26               |
| 25A             | 25A   | 4                       | 1                 | LSM25 Z16H448 A4O  | 1           | 0,26               |
| 32A             | 32A   | 4                       | 1                 | LSM32 Z16H448 A4O  | 1           | 0,26               |
| 45A             | 38A   | 4                       | 1                 | LSM38 Z16H448 A4O  | 1           | 0,26               |
| 16A             | 16A   | 4                       | 1                 | LSM16 Z16H448 A4U  | 1           | 0,26               |
| 25A             | 25A   | 4                       | 1                 | LSM25 Z16H448 A4U  | 1           | 0,26               |
| 32A             | 32A   | 4                       | 1                 | LSM32 Z16H448 A4U  | 1           | 0,26               |
| 45A             | 38A   | 4                       | 1                 | LSM38 Z16H448 A4U  | 1           | 0,26               |
| 16A             | 10A   | 2                       | 3                 | LSMO16 Z16H448 A6  | 1           | 0,51               |
| 25A             | 11,5A | 2                       | 3                 | LSMO25 Z16H448 A6  | 1           | 0,51               |
| 32A             | 13A   | 2                       | 3                 | LSMO32 Z16H448 A6  | 1           | 0,51               |
| 45A             | 20A   | 2                       | 3                 | LSMO38 Z16H448 A6  | 1           | 0,51               |
| 16A             | 10A   | 2                       | 4                 | LSMO16 Z16H448 A8  | 1           | 0,53               |
| 25A             | 11,5A | 2                       | 4                 | LSMO25 Z16H448 A8  | 1           | 0,53               |
| 32A             | 13A   | 2                       | 4                 | LSMO32 Z16H448 A8  | 1           | 0,53               |
| 45A             | 20A   | 2                       | 4                 | LSMO38 Z16H448 A8  | 1           | 0,53               |

## EIN-AUS Mini DC-Schalter für Bodenmontage, Türkuppl. f. Zentralbef., Schild 64, IP66, Type 4X



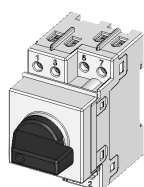
|     |       |   |   |                |   |      |
|-----|-------|---|---|----------------|---|------|
| 16A | 10A   | 2 | 1 | LSM16 VZV A2   | 1 | 0,20 |
| 25A | 11,5A | 2 | 1 | LSM25 VZV A2   | 1 | 0,20 |
| 32A | 13A   | 2 | 1 | LSM32 VZV A2   | 1 | 0,20 |
| 45A | 20A   | 2 | 1 | LSM38 VZV A2   | 1 | 0,20 |
| 29A | 10A   | 2 | 1 | LSM16 VZV A2+2 | 1 | 0,26 |
| 36A | 11,5A | 2 | 1 | LSM25 VZV A2+2 | 1 | 0,26 |
| 50A | 13A   | 2 | 1 | LSM32 VZV A2+2 | 1 | 0,26 |
| 50A | 20A   | 2 | 1 | LSM38 VZV A2+2 | 1 | 0,26 |
| 16A | 16A   | 2 | 2 | LSM16 VZV A4   | 1 | 0,24 |
| 25A | 25A   | 2 | 2 | LSM25 VZV A4   | 1 | 0,24 |
| 32A | 32A   | 2 | 2 | LSM32 VZV A4   | 1 | 0,24 |
| 45A | 38A   | 2 | 2 | LSM38 VZV A4   | 1 | 0,24 |
| 16A | 16A   | 2 | 1 | LSM16 VZV A4O  | 1 | 0,26 |
| 25A | 25A   | 2 | 1 | LSM25 VZV A4O  | 1 | 0,26 |
| 32A | 32A   | 2 | 1 | LSM32 VZV A4O  | 1 | 0,26 |
| 45A | 38A   | 2 | 1 | LSM38 VZV A4O  | 1 | 0,26 |
| 16A | 16A   | 2 | 1 | LSM16 VZV A4U  | 1 | 0,26 |
| 25A | 25A   | 2 | 1 | LSM25 VZV A4U  | 1 | 0,26 |
| 32A | 32A   | 2 | 1 | LSM32 VZV A4U  | 1 | 0,26 |
| 45A | 38A   | 2 | 1 | LSM38 VZV A4U  | 1 | 0,26 |

## Mini DC-Hauptschalter für Bodenmontage, Türkuppl. f. Zentralbef., Schild 64, IP66, Type 4X



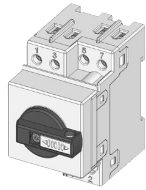
| DC-PV1 (=DC21B) |       | Anzahl Pole<br>in Serie | Anzahl<br>Strings | Typ                     | VPE<br>Stk. | Gewicht<br>kg/Stk. |
|-----------------|-------|-------------------------|-------------------|-------------------------|-------------|--------------------|
| 600V            | 1000V |                         |                   |                         |             |                    |
| 16A             | 10A   | 2                       | 1                 | <b>LSM16 VZVH4 A2</b>   | 1           | 0,21               |
| 25A             | 11,5A | 2                       | 1                 | <b>LSM25 VZVH4 A2</b>   | 1           | 0,21               |
| 32A             | 13A   | 2                       | 1                 | <b>LSM32 VZVH4 A2</b>   | 1           | 0,21               |
| 45A             | 20A   | 2                       | 1                 | <b>LSM38 VZVH4 A2</b>   | 1           | 0,21               |
| 29A             | 10A   | 2                       | 1                 | <b>LSM16 VZVH4 A2+2</b> | 1           | 0,27               |
| 36A             | 11,5A | 2                       | 1                 | <b>LSM25 VZVH4 A2+2</b> | 1           | 0,27               |
| 50A             | 13A   | 2                       | 1                 | <b>LSM32 VZVH4 A2+2</b> | 1           | 0,27               |
| 50A             | 20A   | 2                       | 1                 | <b>LSM38 VZVH4 A2+2</b> | 1           | 0,27               |
| 16A             | 16A   | 2                       | 2                 | <b>LSM16 VZVH4 A4</b>   | 1           | 0,25               |
| 25A             | 25A   | 2                       | 2                 | <b>LSM25 VZVH4 A4</b>   | 1           | 0,25               |
| 32A             | 32A   | 2                       | 2                 | <b>LSM32 VZVH4 A4</b>   | 1           | 0,25               |
| 45A             | 38A   | 2                       | 2                 | <b>LSM38 VZVH4 A4</b>   | 1           | 0,25               |
| 16A             | 16A   | 4                       | 1                 | <b>LSM16 VZVH4 A4O</b>  | 1           | 0,27               |
| 25A             | 25A   | 4                       | 1                 | <b>LSM25 VZVH4 A4O</b>  | 1           | 0,27               |
| 32A             | 32A   | 4                       | 1                 | <b>LSM32 VZVH4 A4O</b>  | 1           | 0,27               |
| 45A             | 38A   | 4                       | 1                 | <b>LSM38 VZVH4 A4O</b>  | 1           | 0,27               |
| 16A             | 16A   | 4                       | 1                 | <b>LSM16 VZVH4 A4U</b>  | 1           | 0,27               |
| 25A             | 25A   | 4                       | 1                 | <b>LSM25 VZVH4 A4U</b>  | 1           | 0,27               |
| 32A             | 32A   | 4                       | 1                 | <b>LSM32 VZVH4 A4U</b>  | 1           | 0,27               |
| 45A             | 38A   | 4                       | 1                 | <b>LSM38 VZVH4 A4U</b>  | 1           | 0,27               |

## EIN-AUS Mini DC-Schalter für Reiheneinbau, IP40, Open Type



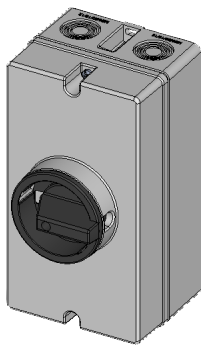
|     |       |   |   |                       |   |      |
|-----|-------|---|---|-----------------------|---|------|
| 16A | 10A   | 2 | 1 | <b>LSM16 SMA A2</b>   | 1 | 0,18 |
| 25A | 11,5A | 2 | 1 | <b>LSM25 SMA A2</b>   | 1 | 0,18 |
| 32A | 13A   | 2 | 1 | <b>LSM32 SMA A2</b>   | 1 | 0,18 |
| 45A | 20A   | 2 | 1 | <b>LSM38 SMA A2</b>   | 1 | 0,18 |
| 29A | 10A   | 2 | 1 | <b>LSM16 SMA A2+2</b> | 1 | 0,22 |
| 36A | 11,5A | 2 | 1 | <b>LSM25 SMA A2+2</b> | 1 | 0,22 |
| 50A | 13A   | 2 | 1 | <b>LSM32 SMA A2+2</b> | 1 | 0,22 |
| 50A | 20A   | 2 | 1 | <b>LSM38 SMA A2+2</b> | 1 | 0,22 |
| 16A | 16A   | 2 | 2 | <b>LSM16 SMA A4</b>   | 1 | 0,20 |
| 25A | 25A   | 2 | 2 | <b>LSM25 SMA A4</b>   | 1 | 0,20 |
| 32A | 32A   | 2 | 2 | <b>LSM32 SMA A4</b>   | 1 | 0,20 |
| 45A | 38A   | 2 | 2 | <b>LSM38 SMA A4</b>   | 1 | 0,20 |
| 16A | 16A   | 4 | 1 | <b>LSM16 SMA A4O</b>  | 1 | 0,22 |
| 25A | 25A   | 4 | 1 | <b>LSM25 SMA A4O</b>  | 1 | 0,22 |
| 32A | 32A   | 4 | 1 | <b>LSM32 SMA A4O</b>  | 1 | 0,22 |
| 45A | 38A   | 4 | 1 | <b>LSM38 SMA A4O</b>  | 1 | 0,22 |
| 16A | 16A   | 4 | 1 | <b>LSM16 SMA A4U</b>  | 1 | 0,22 |
| 25A | 25A   | 4 | 1 | <b>LSM25 SMA A4U</b>  | 1 | 0,22 |
| 32A | 32A   | 4 | 1 | <b>LSM32 SMA A4U</b>  | 1 | 0,22 |
| 45A | 38A   | 4 | 1 | <b>LSM38 SMA A4U</b>  | 1 | 0,22 |

## Mini DC-Hauptschalter für Reiheneinbau, IP40, Open Type



| DC-PV1 (=DC21B) |       | Anzahl Pole<br>in Serie | Anzahl<br>Strings | Typ                      | VPE<br>Stk. | Gewicht<br>kg/Stk. |
|-----------------|-------|-------------------------|-------------------|--------------------------|-------------|--------------------|
| 600V            | 1000V |                         |                   |                          |             |                    |
| 16A             | 10A   | 2                       | 1                 | <b>LSM16 SMAH1N A2</b>   | 1           | 0,18               |
| 25A             | 11,5A | 2                       | 1                 | <b>LSM25 SMAH1N A2</b>   | 1           | 0,18               |
| 32A             | 13A   | 2                       | 1                 | <b>LSM32 SMAH1N A2</b>   | 1           | 0,18               |
| 45A             | 20A   | 2                       | 1                 | <b>LSM38 SMAH1N A2</b>   | 1           | 0,18               |
| 29A             | 10A   | 2                       | 1                 | <b>LSM16 SMAH1N A2+2</b> | 1           | 0,22               |
| 36A             | 11,5A | 2                       | 1                 | <b>LSM25 SMAH1N A2+2</b> | 1           | 0,22               |
| 50A             | 13A   | 2                       | 1                 | <b>LSM32 SMAH1N A2+2</b> | 1           | 0,22               |
| 50A             | 20A   | 2                       | 1                 | <b>LSM38 SMAH1N A2+2</b> | 1           | 0,22               |
| 16A             | 16A   | 2                       | 2                 | <b>LSM16 SMAH1N A4</b>   | 1           | 0,20               |
| 25A             | 25A   | 2                       | 2                 | <b>LSM25 SMAH1N A4</b>   | 1           | 0,20               |
| 32A             | 32A   | 2                       | 2                 | <b>LSM32 SMAH1N A4</b>   | 1           | 0,20               |
| 45A             | 38A   | 2                       | 2                 | <b>LSM38 SMAH1N A4</b>   | 1           | 0,20               |
| 16A             | 16A   | 4                       | 1                 | <b>LSM16 SMAH1N A4O</b>  | 1           | 0,22               |
| 25A             | 25A   | 4                       | 1                 | <b>LSM25 SMAH1N A4O</b>  | 1           | 0,22               |
| 32A             | 32A   | 4                       | 1                 | <b>LSM32 SMAH1N A4O</b>  | 1           | 0,22               |
| 45A             | 38A   | 4                       | 1                 | <b>LSM38 SMAH1N A4O</b>  | 1           | 0,22               |
| 16A             | 16A   | 4                       | 1                 | <b>LSM16 SMAH1N A4U</b>  | 1           | 0,22               |
| 25A             | 25A   | 4                       | 1                 | <b>LSM25 SMAH1N A4U</b>  | 1           | 0,22               |
| 32A             | 32A   | 4                       | 1                 | <b>LSM32 SMAH1N A4U</b>  | 1           | 0,22               |
| 45A             | 38A   | 4                       | 1                 | <b>LSM38 SMAH1N A4U</b>  | 1           | 0,22               |

## Mini DC-Hauptschalter, im Kunststoffgehäuse, IP67, Type 4X

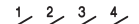


|     |       |   |   |                         |   |      |
|-----|-------|---|---|-------------------------|---|------|
| 16A | 10A   | 2 | 1 | <b>LSM16 PFLH4 A2</b>   | 1 | 0,42 |
| 25A | 11,5A | 2 | 1 | <b>LSM25 PFLH4 A2</b>   | 1 | 0,42 |
| 32A | 13A   | 2 | 1 | <b>LSM32 PFLH4 A2</b>   | 1 | 0,42 |
| 45A | 20A   | 2 | 1 | <b>LSM38 PFLH4 A2</b>   | 1 | 0,42 |
| 29A | 10A   | 2 | 1 | <b>LSM16 PFLH4 A2+2</b> | 1 | 0,50 |
| 36A | 11,5A | 2 | 1 | <b>LSM25 PFLH4 A2+2</b> | 1 | 0,50 |
| 50A | 13A   | 2 | 1 | <b>LSM32 PFLH4 A2+2</b> | 1 | 0,50 |
| 50A | 20A   | 2 | 1 | <b>LSM38 PFLH4 A2+2</b> | 1 | 0,50 |
| 16A | 16A   | 2 | 2 | <b>LSM16 PFLH4 A4</b>   | 1 | 0,49 |
| 25A | 25A   | 2 | 2 | <b>LSM25 PFLH4 A4</b>   | 1 | 0,49 |
| 32A | 32A   | 2 | 2 | <b>LSM32 PFLH4 A4</b>   | 1 | 0,49 |
| 45A | 38A   | 2 | 2 | <b>LSM38 PFLH4 A4</b>   | 1 | 0,49 |
| 16A | 16A   | 4 | 1 | <b>LSM16 PFLH4 A4O</b>  | 1 | 0,51 |
| 25A | 25A   | 4 | 1 | <b>LSM25 PFLH4 A4O</b>  | 1 | 0,51 |
| 32A | 32A   | 4 | 1 | <b>LSM32 PFLH4 A4O</b>  | 1 | 0,51 |
| 45A | 38A   | 4 | 1 | <b>LSM38 PFLH4 A4O</b>  | 1 | 0,51 |
| 16A | 16A   | 4 | 1 | <b>LSM16 PFLH4 A4U</b>  | 1 | 0,51 |
| 25A | 25A   | 4 | 1 | <b>LSM25 PFLH4 A4U</b>  | 1 | 0,51 |
| 32A | 32A   | 4 | 1 | <b>LSM32 PFLH4 A4U</b>  | 1 | 0,51 |
| 45A | 38A   | 4 | 1 | <b>LSM38 PFLH4 A4U</b>  | 1 | 0,51 |

## Technische Daten

| Strom-<br>art    | Gebrauchskategorie                 |                                       | Typische<br>Anwendungsfälle                                                          | Prüfungsbedingungen für Elektrische<br>Lebensdauer (Normale Beanspruchung) |                             |     |                                               |                                |     | Prüfungsbedingungen für Ein- und Ausschalt-<br>vermögen (Beanspruchung im Störfall) |                             |       |                                               |                                |       |
|------------------|------------------------------------|---------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------|-----|-----------------------------------------------|--------------------------------|-----|-------------------------------------------------------------------------------------|-----------------------------|-------|-----------------------------------------------|--------------------------------|-------|
|                  |                                    |                                       |                                                                                      | Einschalten<br>I <sub>le</sub>                                             | U <sub>/U<sub>e</sub></sub> | L/R | Ausschalten<br>I <sub>c</sub> /I <sub>e</sub> | U <sub>r</sub> /U <sub>e</sub> | L/R | Einschalten<br>I <sub>le</sub>                                                      | U <sub>/U<sub>e</sub></sub> | L/R   | Ausschalten<br>I <sub>c</sub> /I <sub>e</sub> | U <sub>r</sub> /U <sub>e</sub> | L/R   |
| Gleich-<br>Strom | <b>DC21A</b><br>häufige Betätigung | <b>DC21B</b><br>gelegentl. Betätigung | Schalten von ohmscher Last einschließlich geringer Überlast.                         | 1                                                                          | 1                           | 1ms | 1                                             | 1                              | 1ms | 1,5                                                                                 | 1,05                        | 1ms   | 1,5                                           | 1,05                           | 1ms   |
|                  | <b>DC22A</b><br>häufige Betätigung | <b>DC22B</b><br>gelegentl. Betätigung | Schalten von gemischter ohmscher und induktiver Last einschließl. geringer Überlast. | 1                                                                          | 1                           | 2ms | 1                                             | 1                              | 2ms | 4                                                                                   | 1,05                        | 2,5ms | 4                                             | 1,05                           | 2,5ms |
|                  | <b>DC-PV1</b>                      |                                       | Schalten eines einzelnen PV String(s) ohne Rück- und Überströme.                     | 1                                                                          | 1                           | 1ms | 1                                             | 1                              | 1ms | 1,5                                                                                 | 1,05                        | 1ms   | 1,5                                           | 1,05                           | 1ms   |
|                  | <b>DC-PV2</b>                      |                                       | Schalten von mehreren PV Strings mit Rück- und Überströmen.                          | 1                                                                          | 1                           | 1ms | 1                                             | 1                              | 1ms | 4                                                                                   | 1,05                        | 1ms   | 4                                             | 1,05                           | 1ms   |

Daten nach IEC 60947-3, VDE 0660, GB14048.3 (CCC China)

| Hauptkontakte                                                                       |                                              |                          | Typ | LSM(O)16 | LSM(O)25 | LSM(O)32 | LSM(O)38 |
|-------------------------------------------------------------------------------------|----------------------------------------------|--------------------------|-----|----------|----------|----------|----------|
| Thermischer Bemessungsbetriebsstrom I <sub>th</sub>                                 |                                              |                          | A   | 16       | 25       | 32       | 38       |
| Bemessungsisolationsspannung U <sub>i</sub> <sup>1)</sup>                           |                                              |                          | V   | 1000     | 1000     | 1000     | 1000     |
| Bemessungsisolationsspannung U <sub>i</sub> <sup>2)</sup>                           |                                              |                          | V   | 1500     | 1500     | 1500     | 1500     |
| Kontaktabstand (pro Pol)                                                            |                                              |                          | mm  | 8        | 8        | 8        | 8        |
| <b>Bemessungsbetriebsstrom I<sub>e</sub></b>                                        |                                              |                          |     |          |          |          |          |
| <b>DC21B</b>                                                                        | 300V                                         | A                        | -   | -        | -        | -        |          |
|                                                                                     | 1 Pol 400V                                   | A                        | -   | -        | -        | -        |          |
| A1                                                                                  | 500V                                         | A                        | -   | -        | -        | -        |          |
|                                                                                     | 600V                                         | A                        | -   | -        | -        | -        |          |
|    | 700V                                         | A                        | -   | -        | -        | -        |          |
|                                                                                     | 800V                                         | A                        | -   | -        | -        | -        |          |
|                                                                                     | 900V                                         | A                        | -   | -        | -        | -        |          |
|                                                                                     | 1000V                                        | A                        | -   | -        | -        | -        |          |
| 2 Pole in Serie                                                                     | 500V                                         | A                        | 16  | 25       | 32       | 45       |          |
| A2                                                                                  | 600V                                         | A                        | 16  | 25       | 32       | 45       |          |
|                                                                                     | 700V                                         | A                        | 16  | 25       | 32       | 36       |          |
|    | 800V                                         | A                        | 16  | 20       | 23       | 30       |          |
|                                                                                     | 900V                                         | A                        | 16  | 17       | 20       | 25       |          |
|                                                                                     | 1000V                                        | A                        | 10  | 11,5     | 13       | 20       |          |
|                                                                                     | 1200V                                        | A                        | 7   | 8,5      | 10       | 10       |          |
|                                                                                     | 1500V                                        | A                        | 3   | 5        | 6        | 6        |          |
|                                                                                     | 2 Pole in Serie + 2 Pole parallel            | 500V                     | A   | 29       | 45       | 50       | 50       |
| A2 + 2                                                                              | 600V                                         | A                        | 29  | 45       | 50       | 50       |          |
|                                                                                     | 700V                                         | A                        | 22  | 27       | 32       | 36       |          |
|  | 800V                                         | A                        | 17  | 20       | 23       | 30       |          |
|                                                                                     | 900V                                         | A                        | 16  | 17       | 20       | 25       |          |
|                                                                                     | 1000V                                        | A                        | 10  | 11,5     | 13       | 20       |          |
|                                                                                     | 1200V                                        | A                        | 7   | 8,5      | 10       | 10       |          |
|                                                                                     | 1500V                                        | A                        | 3   | 5        | 6        | 6        |          |
|                                                                                     | 4 Pole in Serie                              | 500V                     | A   | 16       | 25       | 32       | 45       |
| A4                                                                                  | 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       | 38       |          |
|                                                                                     | 1200V                                        | A                        | 16  | 25       | 32       | 32       |          |
|                                                                                     | 1500V                                        | A                        | 16  | 25       | 32       | 32       |          |
|                                                                                     | <b>Bemessungsbetriebsstrom I<sub>e</sub></b> |                          |     |          |          |          |          |
| <b>AC21B</b>                                                                        | A2, A4                                       | U <sub>e</sub> max. 440V | A   | 16       | 25       | 32       | 45       |
|                                                                                     | A2 + 2                                       | U <sub>e</sub> max. 440V | A   | 29       | 45       | 50       | 50       |

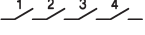
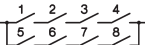
1) Gilt für: Überspannungskategorie I bis III, Verschmutzungsgrad 3 (Norm-Industrie): U<sub>imp</sub> = 8kV.

2) Gilt für: Überspannungskategorie I bis III, Verschmutzungsgrad 2 (min. IP55): U<sub>imp</sub> = 8kV.



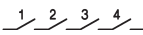
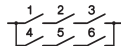
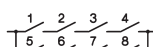
# Technische Daten

Daten nach IEC 60947-3, VDE 0660

| Hauptkontakte                                                                                                                       |       | Typ | LSM(O)16 | LSM(O)25 | LSM(O)32 | LSM(O)38 |
|-------------------------------------------------------------------------------------------------------------------------------------|-------|-----|----------|----------|----------|----------|
| <b>Bemessungsbetriebsstrom I<sub>b</sub></b><br><b>DC-PV1</b>                                                                       | 300V  | A   | 16       | 23       | 27       | -        |
|                                                                                                                                     | 400V  | A   | 14       | 22       | 25       | -        |
| 1 Pol<br>A1<br>                                    | 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 Pole in Serie<br>A2<br>                          | 500V  | A   | 16       | 25       | 32       | 45       |
|                                                                                                                                     | 600V  | A   | 16       | 25       | 32       | 45       |
|                                                                                                                                     | 700V  | A   | 16       | 25       | 32       | 36       |
|                                                                                                                                     | 800V  | A   | 16       | 20       | 23       | 30       |
|                                                                                                                                     | 900V  | A   | 16       | 17       | 20       | 25       |
|                                                                                                                                     | 1000V | A   | 10       | 11,5     | 13       | 20       |
|                                                                                                                                     | 1100V | A   | 8        | 10       | -        | -        |
|                                                                                                                                     | 1200V | A   | 7        | 8,5      | 10       | 10       |
|                                                                                                                                     | 1300V | A   | 6        | 7        | -        | -        |
|                                                                                                                                     | 1400V | A   | 5        | 6        | -        | -        |
|                                                                                                                                     | 1500V | A   | 3        | 5        | 6        | 6        |
| 2 Pole in Serie<br>+ 2 Pole parallel<br>A2+2<br>   | 500V  | A   | 29       | 45       | 50       | 50       |
|                                                                                                                                     | 600V  | A   | 29       | 36       | 50       | 50       |
|                                                                                                                                     | 700V  | A   | 22       | 27       | 32       | 36       |
|                                                                                                                                     | 800V  | A   | 17       | 20       | 23       | 30       |
|                                                                                                                                     | 900V  | A   | 16       | 17       | 20       | 25       |
|                                                                                                                                     | 1000V | A   | 10       | 11,5     | 13       | 20       |
|                                                                                                                                     | 1100V | A   | 8        | 10       | -        | -        |
|                                                                                                                                     | 1200V | A   | 7        | 8,5      | 10       | 10       |
|                                                                                                                                     | 1300V | A   | 6        | 7        | -        | -        |
|                                                                                                                                     | 1400V | A   | 5        | 6        | -        | -        |
|                                                                                                                                     | 1500V | A   | 3        | 5        | 6        | 6        |
| 4 Pole in Serie<br>A4<br>                        | 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       | 38       |
|                                                                                                                                     | 1100V | A   | 16       | 25       | -        | -        |
|                                                                                                                                     | 1200V | A   | 16       | 25       | 32       | 32       |
|                                                                                                                                     | 1300V | A   | 16       | 25       | -        | -        |
|                                                                                                                                     | 1400V | A   | 16       | 25       | -        | -        |
|                                                                                                                                     | 1500V | A   | 16       | 25       | 32       | 32       |
| 4 Pole in Serie<br>+ 2 Pole parallel<br>A4+2<br> | 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       | -        | -        | -        |
|                                                                                                                                     | 1400V | A   | 29       | -        | -        | -        |
|                                                                                                                                     | 1500V | A   | 20       | 26       | 32       | 32       |

# Technische Daten

Daten nach IEC 60947-3, VDE 0660

| Hauptkontakte                                                                                                                                                     |                 | Typ | LSM(O)16 | LSM(O)25 | LSM(O)32 | LSM(O)38 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----|----------|----------|----------|----------|
| <b>Bemessungsbetriebsstrom I<sub>b</sub></b><br><b>DC-PV2</b><br>1 Pol<br>A1<br> | 300V            | A   | 16       | 23       | 27       | 27       |
|                                                                                                                                                                   | 400V            | A   | 15       | 18       | 20       | 20       |
|                                                                                                                                                                   | 500V            | A   | 10       | 12       | 14       | 14       |
|                                                                                                                                                                   | 600V            | A   | 5        | 6        | 8        | 8        |
|                                                                                                                                                                   | 700V            | A   | 1,5      | 2        | 3        | 3        |
|                                                                                                                                                                   | 800V            | A   | 1,5      | 2        | 3        | 3        |
|                                                                                                                                                                   | 900V            | A   | 1        | 1,5      | 2        | 2        |
|                                                                                                                                                                   | 1000V           | A   | 1        | 1,5      | 2        | 2        |
|                                                                                                                                                                   | 2 Pole in Serie | A   | 16       | 25       | 32       | 38       |
|                                                                                                                                                                   | A2              | A   | 14       | 21       | 27       | 31       |
|                                                                                                                                                                   | 700V            | A   | 13       | 19       | 22       | 25       |
|                                                                                                                                                                   | 800V            | A   | 12       | 15       | 17       | 19       |
|                                                                                                                                                                   | 900V            | A   | 8        | 10       | 12       | 14       |
|                                                                                                                                                                   | 1000V           | A   | 4        | 5        | 6        | 7        |
|                                                                                                                                                                   | 1100V           | A   | 3        | 4        | -        | -        |
|                                                                                                                                                                   | 1200V           | A   | 2        | 3        | 4        | 4        |
|                                                                                                                                                                   | 1300V           | A   | 1,5      | 2        | -        | -        |
|                                                                                                                                                                   | 1400V           | A   | 1        | 2        | -        | -        |
|                                                                                                                                                                   | 1500V           | A   | 1        | 1,5      | 2        | 2        |
| 2 Pole in Serie<br>+ 2 Pole parallel<br>A2+2<br>                                 | 500V            | A   | 25       | 39       | 50       | 50       |
|                                                                                                                                                                   | 600V            | A   | 20       | 32       | 35       | 38       |
|                                                                                                                                                                   | 700V            | A   | 13       | 19       | 22       | 25       |
|                                                                                                                                                                   | 800V            | A   | 12       | 15       | 17       | 19       |
|                                                                                                                                                                   | 900V            | A   | 8        | 10       | 12       | 14       |
|                                                                                                                                                                   | 1000V           | A   | 4        | 5        | 6        | 7        |
|                                                                                                                                                                   | 1100V           | A   | 3        | 4        | -        | -        |
|                                                                                                                                                                   | 1200V           | A   | 2        | 3        | 4        | 4        |
|                                                                                                                                                                   | 1300V           | A   | 1,5      | 2        | -        | -        |
|                                                                                                                                                                   | 1400V           | A   | 1        | 2        | -        | -        |
|                                                                                                                                                                   | 1500V           | A   | 1        | 1,5      | 2        | 2        |
|                                                                                                                                                                   | 4 Pole in Serie | A   | 16       | 25       | 32       | 45       |
| A4<br>                                                                         | 600V            | A   | 16       | 25       | 32       | 45       |
|                                                                                                                                                                   | 700V            | A   | 16       | 25       | 32       | 45       |
|                                                                                                                                                                   | 800V            | A   | 16       | 25       | 32       | 38       |
|                                                                                                                                                                   | 900V            | A   | 16       | 25       | 32       | 38       |
|                                                                                                                                                                   | 1000V           | A   | 16       | 25       | 32       | 38       |
|                                                                                                                                                                   | 1100V           | A   | 16       | 25       | -        | -        |
|                                                                                                                                                                   | 1200V           | A   | 13,5     | 21       | 27       | 27       |
|                                                                                                                                                                   | 1300V           | A   | 12       | 19       | -        | -        |
|                                                                                                                                                                   | 1400V           | A   | 10,5     | 16       | -        | -        |
|                                                                                                                                                                   | 1500V           | A   | 9        | 14       | 18       | 18       |
|                                                                                                                                                                   | 3 Pole in Serie | A   | 28       | 45       | 50       | 50       |
| + 2 Pole parallel<br>A3+2<br>                                                  | 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 Pole in Serie | A   | 29       | 45       | 50       | 50       |
| + 2 Pole parallel<br>A4+2<br>                                                  | 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       |

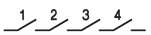
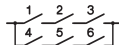
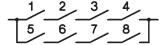
## Technische Daten

Daten nach IEC 60947-3, VDE 0660

| Hauptkontakte                                               | Typ                | LSM(O)16                                      | LSM(O)25    | LSM(O)32     | LSM(O)38     |
|-------------------------------------------------------------|--------------------|-----------------------------------------------|-------------|--------------|--------------|
| <b>Bedingter Bemessungskurzschlußstrom</b>                  | kA <sub>eff</sub>  | 5                                             | 5           | 5            | 5            |
| Max. Vorsicherung gL (gG)                                   | A                  | 40                                            | 63          | 80           | 80           |
| Mechanische Lebensdauer                                     | x10 <sup>3</sup>   | 10                                            | 10          | 10           | 10           |
| Bemessungskurzzeit-<br>stromfestigkeit (1s)                 | lcw A2, A4<br>A2+2 | 800<br>1300                                   | 900<br>1500 | 1000<br>1700 | 1000<br>1700 |
| Bemessungskurzschluß-<br>einschaltvermögen                  | lcm A2, A4<br>A2+2 | 800<br>1300                                   | 900<br>1500 | 1000<br>1700 | 1000<br>1700 |
| <b>Anschlußquerschnitte</b> (inkl. Verbinder LSMV-B1)       |                    |                                               |             |              |              |
| ein- oder mehrdrähtig                                       | mm <sup>2</sup>    | 1,5 - 10                                      | 1,5 - 10    | 1,5 - 10     | 1,5 - 10     |
| feindrähtig                                                 | mm <sup>2</sup>    | 1,5 - 6                                       | 1,5 - 6     | 1,5 - 6      | 1,5 - 6      |
| feindrähtig (+ Aderendhülse)                                | mm <sup>2</sup>    | 1,5 - 6                                       | 1,5 - 6     | 1,5 - 6      | 1,5 - 6      |
| Klemmschraube                                               |                    | M4 Pz1                                        | M4 Pz1      | M4 Pz1       | M4 Pz1       |
| Anzugsdrehmoment                                            | Nm                 | 1,4                                           | 1,4         | 1,4          | 1,4          |
| 2 Leiter pro Klemme ohne Verbinder LSMV-B1                  |                    |                                               |             |              |              |
| ein- oder mehrdrähtig                                       | mm <sup>2</sup>    | 10+(1,5-2,5) / 6+(1,5-6) / 4+(1,5-4)          |             |              |              |
| feindrähtig                                                 | mm <sup>2</sup>    | (0,5-6) + (0,5-6)                             |             |              |              |
| feindrähtig                                                 | AWG                | 6+(20-14) / 8+(20-12) / 10+(20-10) 12+(20-12) |             |              |              |
| eindrähtig                                                  | AWG                | 10+(16-10) / 12+(16-12) 14+(16-14)            |             |              |              |
| <b>Zulässige Umgebungstemperatur</b>                        |                    |                                               |             |              |              |
| Betrieb                                                     | offen °C           | -40 to +65<br>-40 to +45<br>-50 to +90        |             |              |              |
|                                                             | gekapselt °C       |                                               |             |              |              |
| Lagerung                                                    | °C                 |                                               |             |              |              |
| <b>Verlustleistung</b> pro Schalter bei 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>Kontaktwiderstand</b> pro Pol                            | mΩ                 | 1,75                                          | 1,75        | 1,75         | 1,75         |

## Technische Daten

Daten nach to UL508!  File E359344, Category no.: NMSJ, und UL508 c  File E332938, Category no.: NRNT2, NRNT8

| Typ                                                                                 |              |   |  | LSM(O)16   | LSM(O)25   | LSM(O)32   | LSM(O)38   |
|-------------------------------------------------------------------------------------|--------------|---|--|------------|------------|------------|------------|
| Ampere-Rating "General use"                                                         | DC           |   |  |            |            |            |            |
| 1 Pol                                                                               | 350V         | A |  | 4          | 5          | 6          | 6          |
|    | 500V         | A |  | 4          | 5          | 6          | 6          |
|                                                                                     | 600V         | A |  | 4          | 5          | 6          | 6          |
| 2 Pole in Serie                                                                     | 350V         | A |  | 16         | 25         | 32         | 38         |
| A2                                                                                  | 500V         | A |  | 16         | 25         | 32         | 38         |
|    | 600V         | A |  | 16         | 25         | 32         | 38         |
| 2 Pole in Serie                                                                     | 350V         | A |  | 29         | 45         | 50         | 50         |
| + 2 Pole parallel                                                                   | 500V         | A |  | 29         | 38         | 43         | 45         |
| A2+2                                                                                | 600V         | A |  | 21         | 27         | 33         | 36         |
|    |              |   |  |            |            |            |            |
| 4 Pole in Serie                                                                     | 350V         | A |  | 16         | 25         | 32         | 38         |
| A4                                                                                  | 500V         | A |  | 16         | 25         | 32         | 38         |
|    | 600V         | A |  | 16         | 25         | 32         | 36         |
| 3 Pole in Serie                                                                     | 350V         | A |  | 16         | 25         | 50         | 50         |
| + 2 Pole parallel                                                                   | 500V         | A |  | 16         | 25         | 50         | 50         |
| A3+2                                                                                | 600V         | A |  | 16         | 25         | 45         | 45         |
|  |              |   |  |            |            |            |            |
| 4 Pole in Serie                                                                     | 350V         | A |  | 16         | 25         | 50         | 50         |
| + 2 Pole parallel                                                                   | 500V         | A |  | 16         | 25         | 50         | 50         |
| A4+2                                                                                | 600V         | A |  | 16         | 25         | 50         | 50         |
|  |              |   |  |            |            |            |            |
| Fuse size (RK5) Industrial Control Switch                                           |              |   |  |            |            |            |            |
| 5kA / 600V                                                                          | A            |   |  | 40         | 60         | 80         | 80         |
| <b>Anschlußquerschnitte</b> (inkl. Verbinders LSMV-B1)                              |              |   |  |            |            |            |            |
| ein- oder mehrdrähtig                                                               | AWG          |   |  | 16 - 10    | 16 - 10    | 16 - 10    | 16 - 10    |
| feindrähtig                                                                         | AWG          |   |  | 20 - 6     | 20 - 6     | 20 - 6     | 20 - 6     |
| feindrähtig (+ Aderendhülse)                                                        | AWG          |   |  | 20 - 6     | 20 - 6     | 20 - 6     | 20 - 6     |
| Klemmschraube                                                                       | M4 Pz1       |   |  | M4 Pz1     | M4 Pz1     | M4 Pz1     | M4 Pz1     |
| Anzugsdrehmoment                                                                    | Nm / lb.inch |   |  | 1,4 / 12,4 | 1,4 / 12,4 | 1,4 / 12,4 | 1,4 / 12,4 |
| Schutzart der Anschlußklemmen <sup>1)</sup>                                         |              |   |  | IP20       | IP20       | IP20       | IP20       |

## Approbationen

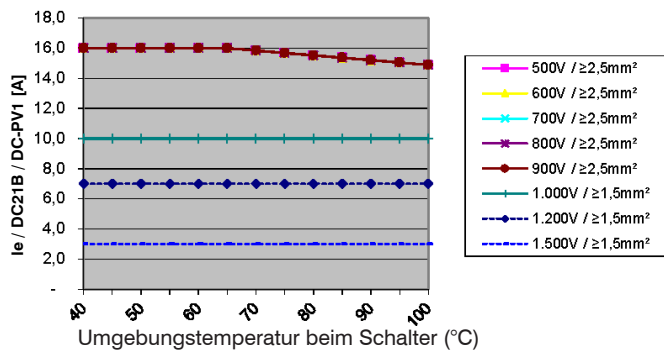
| Land                                                                                                                                  | USA,<br>UL508                                                                       | US, Canada<br>UL508                                                                   | Europa                                                                              | China<br>CCC                                                                          | CB-<br>Zertifikate | EAC                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------|
| Typ                                                                                                                                   |  | c  |  |  |                    |  |
| LSM16                                                                                                                                 | o                                                                                   | o                                                                                     | /                                                                                   | o                                                                                     | o                  | o                                                                                     |
| LSM25                                                                                                                                 | o                                                                                   | o                                                                                     | /                                                                                   | o                                                                                     | o                  | o                                                                                     |
| LSM32                                                                                                                                 | o                                                                                   | o                                                                                     | /                                                                                   | o                                                                                     | o                  | o                                                                                     |
| LSM38                                                                                                                                 | o                                                                                   | o                                                                                     | /                                                                                   | o                                                                                     | o                  | o                                                                                     |
| o In Normalausführung approbiert / Approbationen nicht erforderlich CE x zur Approbation eingereicht - keine Approbationen vorgesehen |                                                                                     |                                                                                       |                                                                                     |                                                                                       |                    |                                                                                       |

1) Schutzart der Anschlußklemmen mit angeschlossenem, isoliertem Leiter.

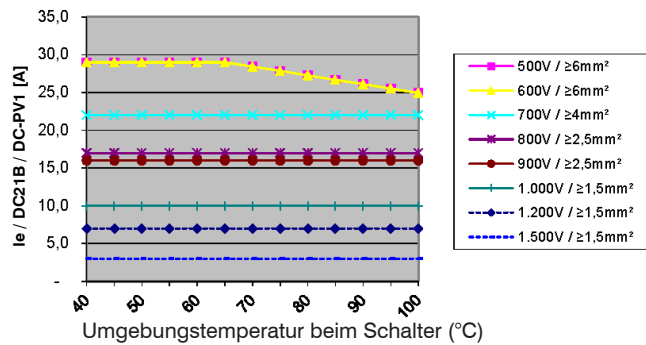
## Technische Daten

Beispiele für maximal zulässige Ströme, abhängig von Umgebungstemperaturen und Anschlußquerschnitten:

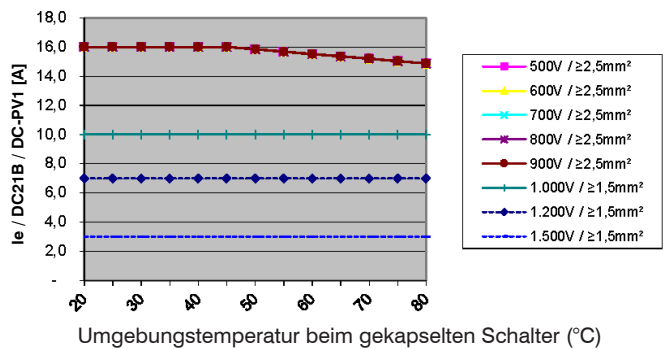
Schalter **offen** LSM(O)16.., 2 Kontakte in Serie (A2)



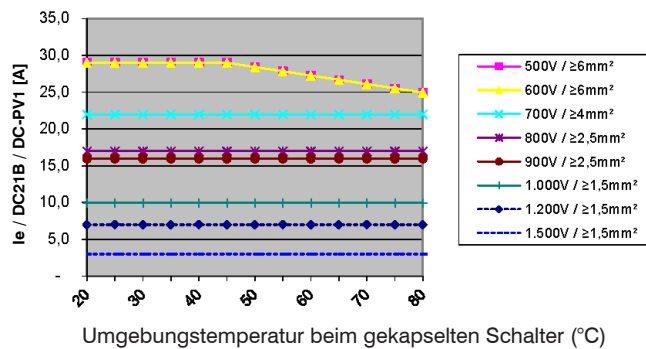
Schalter **offen** LSM(O)16 .., 2 Kontakte in Serie + 2 parallel (A2+2)



Schalter **gekapselt** LSM(O)16 PFL.., 2 Kontakte in Serie (A2)



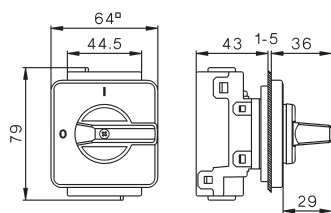
Schalter **gekapselt** LSM(O)16 PFL.., 2 Kontakte in Serie + 2 parallel (A2+2)



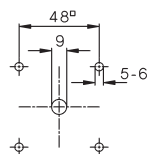
Aktuelle Daten über sämtliche maximal zulässigen Ströme abhängig von Umgebungstemperaturen für Schalter LSM(O)16.. bis LSM(O)38.. (offen oder gekapselt) siehe ➡ [www.benedict.at](http://www.benedict.at) (Button "Kunden").

## Abmessungen:

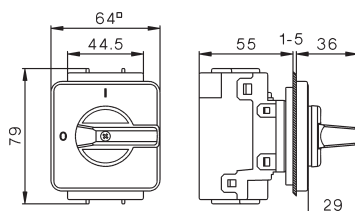
**LSM16 E.. bis LSM38 E..  
..A2**



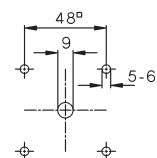
Bohrplan



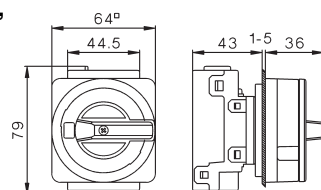
**LSM16 E.. bis LSM38 E..  
..A2+2, ..A4**



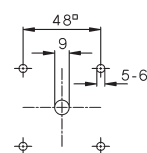
Bohrplan



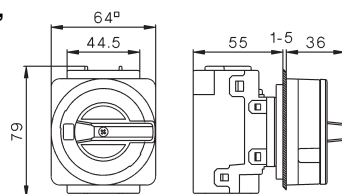
**LSM16 EH4.. bis LSM38 EH4..  
..A2**



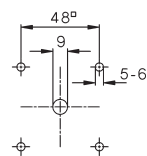
Bohrplan



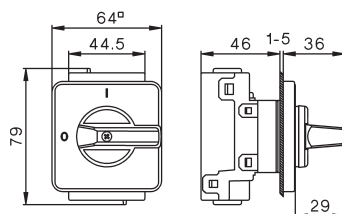
**LSM16 EH4.. bis LSM38 EH4..  
..A2+2, ..A4**



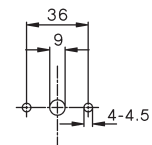
Bohrplan



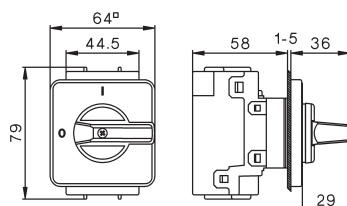
**LSM16 E2.. bis LSM38 E2..  
..A2**



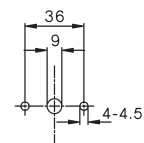
Bohrplan



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



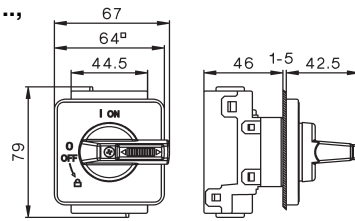
Bohrplan



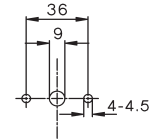


## Abmessungen:

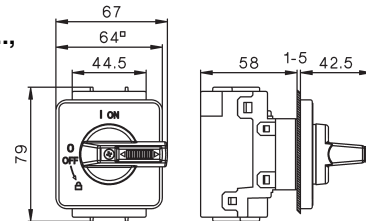
**LSM16 E2H1.. bis LSM38 E2H1..,  
..A2**



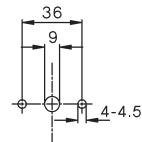
Bohrplan



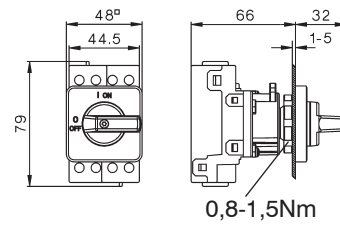
**LSM16 E2H1.. bis LSM38 E2H1..,  
..A2+2, ..A4**



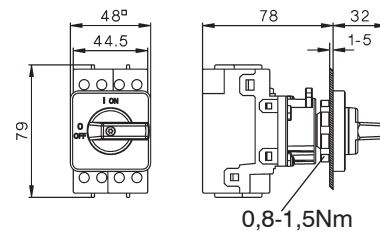
Bohrplan



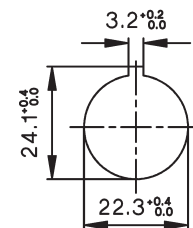
**LSM16 Z.. bis LSM38 Z..,  
..A2**



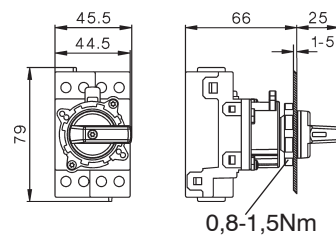
**LSM16 Z.. bis LSM38 Z..,  
..A2+2, ..A4**



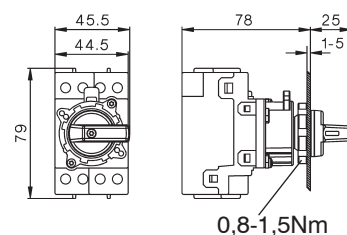
Detailansicht - Bohrplan  
für LSM16 Z(O)..  
bis LSM38 Z(O)..



**LSM16 ZO.. bis LSM38 ZO..,  
..A2**

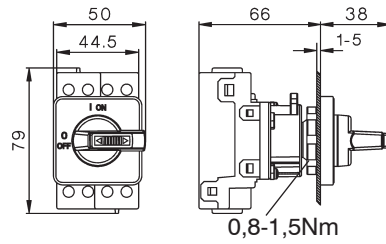


**LSM16 ZO.. bis LSM38 ZO..,  
..A2+2, ..A4**

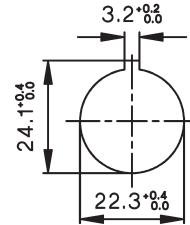


## Abmessungen:

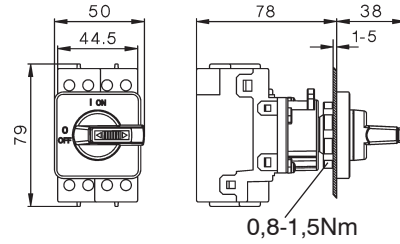
LSM16 ZH1... bis LSM38 ZH1...,  
..A2



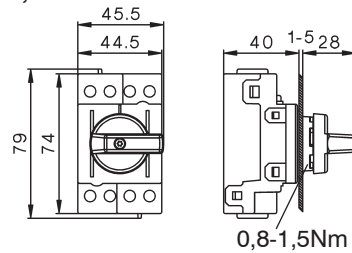
Detailansicht - Bohrplan  
für LSM16 ZH1..  
bis LSM38 ZH1..



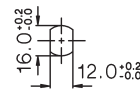
LSM16 ZH1... bis LSM38 ZH1...,  
..A2+2, ..A4



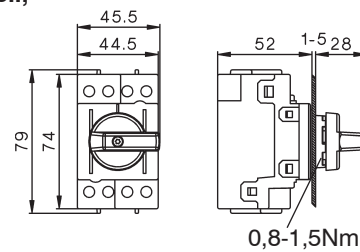
LSM16 Z16... bis LSM38 Z16...,  
..A2



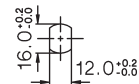
Bohrplan



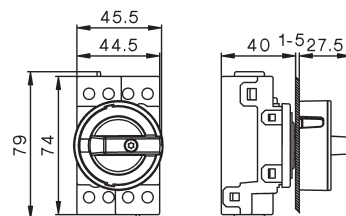
LSM16 Z16... bis LSM38 Z16...,  
..A2+2, ..A4



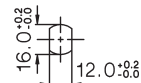
Bohrplan



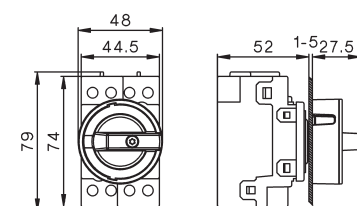
LSM16 ZH448... bis LSM38 Z16H448...,  
..A2



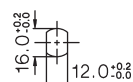
Bohrplan



LSM16 ZH448... bis LSM38 ZH448...,  
..A2+2, ..A4

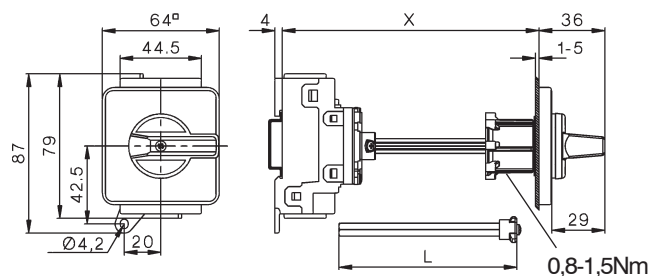


Bohrplan



## Abmessungen:

LSM16 VZV.. bis LSM38 VZV..  
..A2

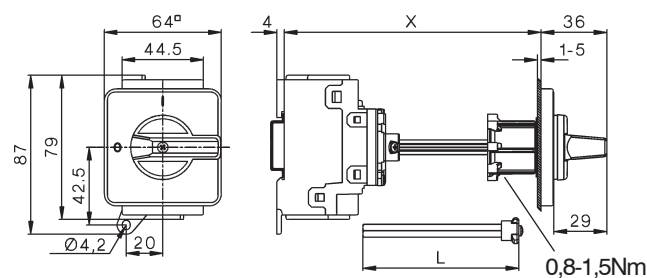


$$X_{\max} = 182, L = 155,5$$

$$(X_{\min} = 59,5)$$

$$L = X - 26,5 \pm 3$$

LSM16 VZV.. bis LSM38 VZV..  
..A2+2, ..A4

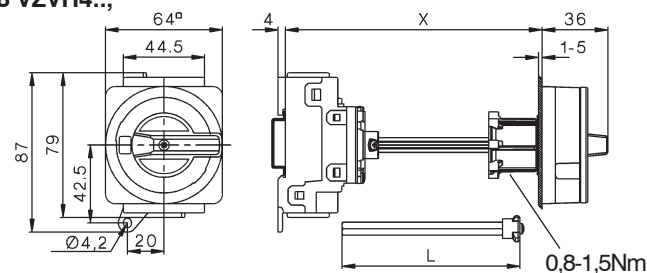


$$X_{\max} = 194, L = 155,5$$

$$(X_{\min} = 71,5)$$

$$L = X - 38,5 \pm 3$$

LSM16 VZVH4.. bis LSM38 VZVH4..  
..A2

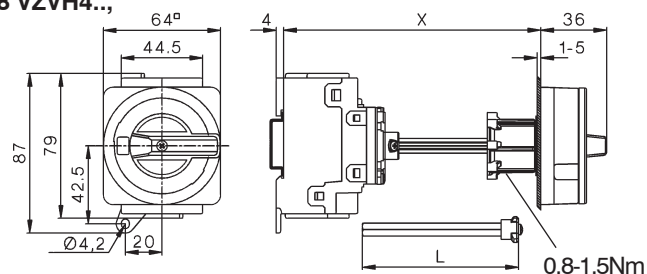


$$X_{\max} = 182, L = 155,5$$

$$(X_{\min} = 59,5)$$

$$L = X - 26,5 \pm 3$$

LSM16 VZVH4.. bis LSM38 VZVH4..  
..A2+2, ..A4

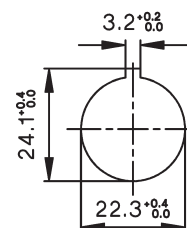


$$X_{\max} = 194, L = 155,5$$

$$(X_{\min} = 71,5)$$

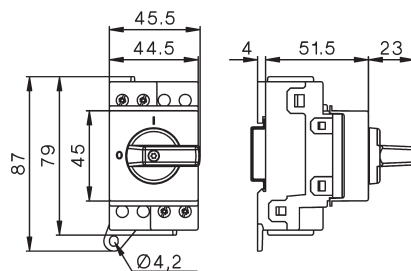
$$L = X - 38,5 \pm 3$$

Detailansicht - Bohrplan  
für LSM16 VZV(H)..  
bis LSM38 VZV(H)..

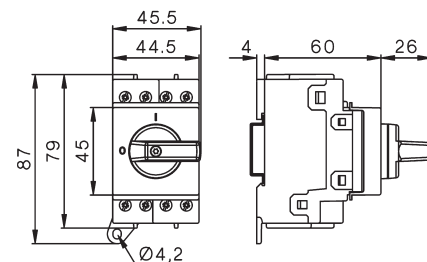


## Abmessungen:

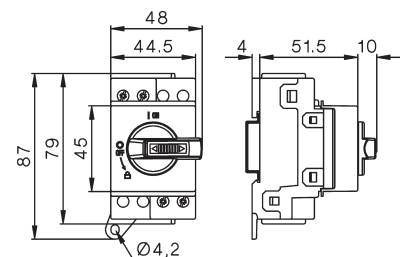
LSM16 SMA.. bis LSM38 SMA..  
..A2



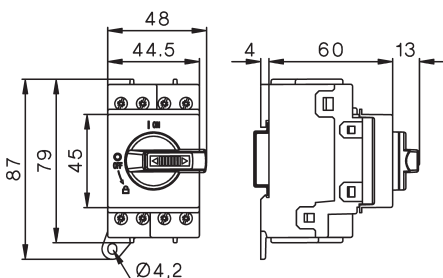
LSM16 SMA.. bis LSM38 SMA..  
..A2+2, ..A4



LSM16 SMAH1N.. bis LSM38 SMAH1N..  
..A2

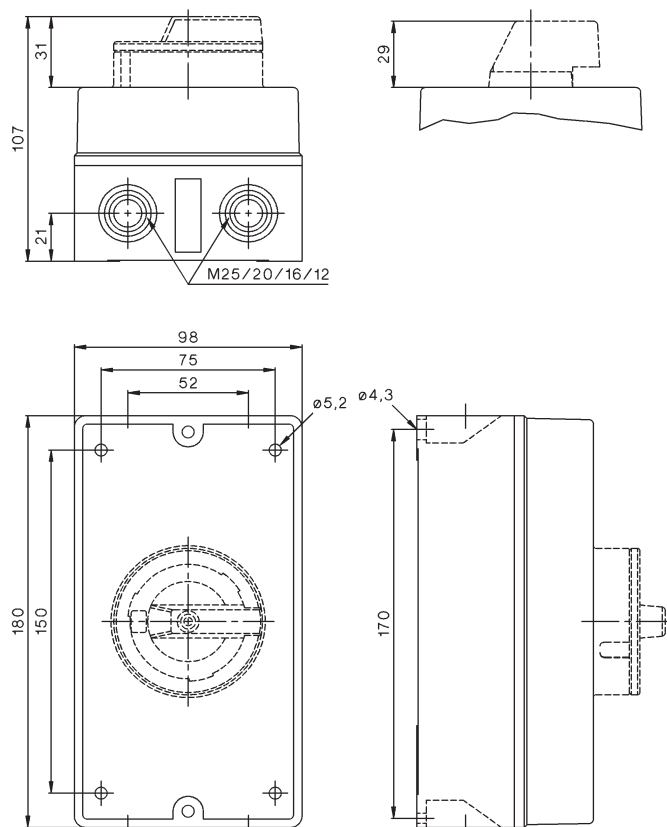


LSM16 SMAH1N.. bis LSM38 SMAH1N..  
..A2+2, ..A4

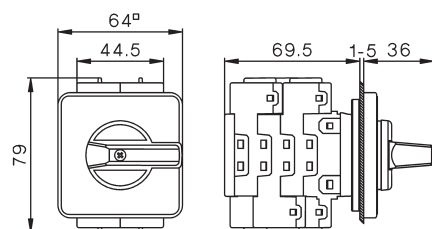


## Abmessungen:

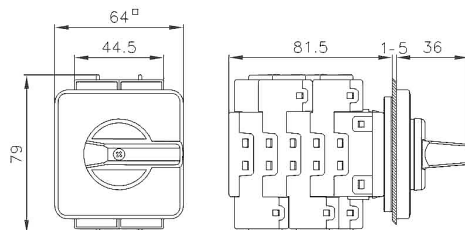
LSM16 PFLH4.. bis LSM38 PFLH4..  
..A2, ..A2+2, ..A4

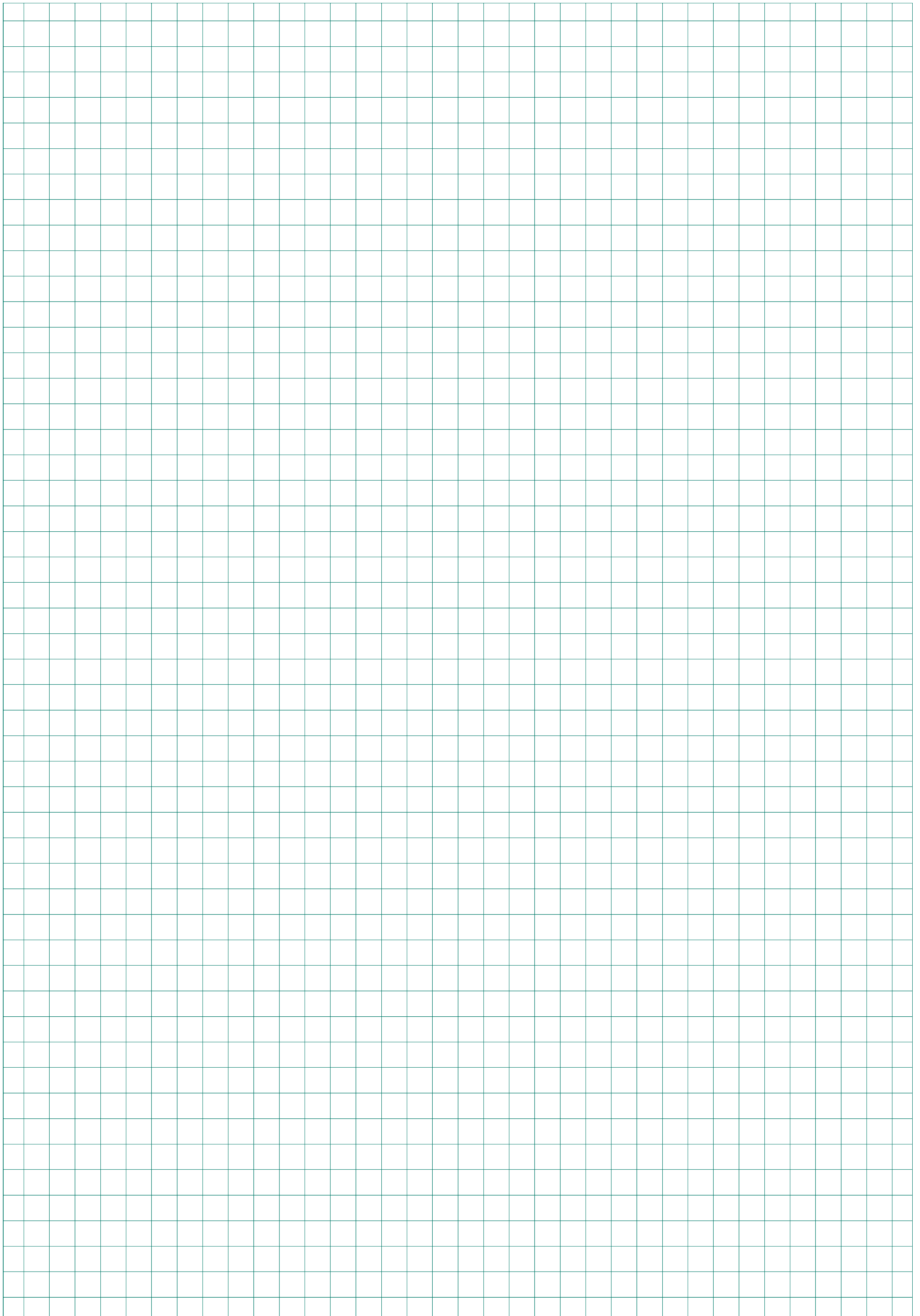


LSM016 E.. bis LSM038 E..  
..A6



LSM016 E.. bis LSM038 E..  
..A8







Qualität aus Österreich



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