# DATASHEET - LN4-4-1000-I



## Switch-disconnector, 4 p, 1000A, frame size 4

Part no. LN4-4-1000-I Catalog No. 112017



**Delivery program** 

| 1 P - 3 -  |                                       |      |  |
|--|---------------------------------------|------|--|
| Product range  |                                       |      | Switch-disconnectors   |
| Protective function                                  |                                       |      | Disconnectors/main switches  |
| Standard/Approval                                    |                                       |      | IEC  |
| Installation type                                    |                                       |      | Fixed  |
| Construction size                                    |                                       |      | LN4  |
| Description  |                                       |      | Main switch characteristics including positive drive to IEC/EN 60204 and VDE 0113. Isolating characteristics to IEC/EN 60947-3 and VDE 0660. Busbar tag shroud to VDE 0160 Part 100. |
| Number of poles                                      |                                       |      | 4 pole   |
| Standard equipment                                   |                                       |      | Screw connection   |
| Switch positions                                     |                                       |      | 1, +, 0  |
| Rated current = rated uninterrupted current          | $\boldsymbol{I}_n = \boldsymbol{I}_u$ | Α    | 1000   |
| Short-circuit protection max. fuse gL-characteristic |                                       | A gL | 1600   |

#### **Technical data**

415 V

690 V

Lifespan, mechanical

Max. operating frequency

**Lifespan, electrical** 400 V 50/60 Hz

#### Switch-disconnectors

| Switch-disconnectors                        |                  |         |                     |  |  |
|---|------------------|---------|---------------------|--|--|
| Rated surge voltage invariability           | $U_{\text{imp}}$ |         |                     |  |  |
| Main contacts                               |                  | ٧       | 8000                |  |  |
| Auxiliary contacts                          |                  | ٧       | 6000                |  |  |
| Rated operational voltage                   | Ue               | V AC    | 690                 |  |  |
| Rated operating frequency                   | f                | Hz      | 50/60               |  |  |
| Rated current = rated uninterrupted current | $I_n = I_u$      | Α       | 1000                |  |  |
| Overvoltage category/pollution degree       |                  |         | III/3               |  |  |
| Rated insulation voltage                    | Ui               | V       | 1000                |  |  |
| Use in unearthed supply systems             |                  | V       | ≦ 525               |  |  |
| Rated short-circuit making capacity         |                  |         |                     |  |  |
| 690 V 50/60 H                               | Ic               | kA      | 53                  |  |  |
| Rated short-time withstand current          |                  |         |                     |  |  |
| t = 0.3 s                                   | I <sub>cw</sub>  | kA      | 25                  |  |  |
| t = 1 s                                     | I <sub>cw</sub>  | kA      | 25                  |  |  |
| Rated conditional short-circuit current     |                  |         |                     |  |  |
| With back-up fuse                           |                  | A gG/gL | N4-6301600: 2 x 800 |  |  |
| 400 415 V                                   |                  | kA      | 100                 |  |  |
| 690 V                                       |                  | kA      | 80                  |  |  |
| With downstream fuse                        |                  | A gG/gL | N4-6301600: 2 x 800 |  |  |
| 400 415 V                                   |                  | kA      | 100                 |  |  |
| 690 V                                       |                  | kA      | 80                  |  |  |
| Rated making and breaking capacity          |                  |         |                     |  |  |
| Rated operational current                   | l <sub>e</sub>   | Α       |                     |  |  |
| 415 V                                       | le               | Α       | 1600                |  |  |
| 690 V                                       | I <sub>e</sub>   | Α       | 1600                |  |  |
|   |                  |         |                     |  |  |

Ie

Operations

Operations

1600

1600

10000

60

3000

Α

Α

Ops/h

| 690 V 50/60 Hz Oper<br>400 V 50/60 Hz Oper<br>415 V 50/60 Hz Oper  | r<br>. r<br>x. r                  | ms mm² mm²      | 3000 2000 2000 2000 1000 < 10  Screw connection  4 x (50 - 240)  1 x (120 - 185) 4 x (50 - 185)  1 x (120 - 300) 2 x (95 - 300) |
|--|-----------------------------------|-----------------|---|
| 400 V 50/60 Hz  415 V 50/60 Hz  690 V 50/60 Hz  Total break time at short-circuit  Terminal capacity  Standard equipment  Round copper conductor  Tunnel terminal  Stranded  4-hole  Bolt terminal and rear-side connection  Direct on the switch  Stranded  Module plate  Single hole  max.         | erations erations r r r r r xx. r | mm²             | 2000 2000 1000 < 10  Screw connection  4 x (50 - 240)  1 x (120 - 185) 4 x (50 - 185)  1 x (120 - 300)                          |
| 415 V 50/60 Hz  Oper 690 V 50/60 Hz  Total break time at short-circuit  Terminal capacity  Standard equipment  Round copper conductor  Tunnel terminal  Stranded  4-hole  Bolt terminal and rear-side connection  Direct on the switch  Stranded  Module plate  Single hole  min.  Single hole  max. | erations erations r r r r xx. r   | mm²             | 2000 1000 < 10  Screw connection  4 x (50 - 240)  1 x (120 - 185) 4 x (50 - 185)  1 x (120 - 300)                               |
| 690 V 50/60 Hz  Total break time at short-circuit  Terminal capacity  Standard equipment  Round copper conductor  Tunnel terminal  Stranded  4-hole  Bolt terminal and rear-side connection  Direct on the switch  Stranded  Module plate  Single hole  Single hole  Oper                            | rations r                         | mm²             | 1000 < 10  Screw connection  4 x (50 - 240)  1 x (120 - 185) 4 x (50 - 185)  1 x (120 - 300)                                    |
| Total break time at short-circuit  Terminal capacity  Standard equipment  Round copper conductor  Tunnel terminal  Stranded  4-hole  Bolt terminal and rear-side connection  Direct on the switch  Stranded  Module plate  Single hole  Single hole  max.  | r<br>r<br>. r<br>x. r             | mm²             | < 10  Screw connection  4 x (50 - 240)  1 x (120 - 185) 4 x (50 - 185)  1 x (120 - 300)   |
| Terminal capacity Standard equipment Round copper conductor  Tunnel terminal Stranded 4-hole Bolt terminal and rear-side connection Direct on the switch Stranded  Module plate Single hole Single hole max.   | r<br>. r<br>x. r                  | mm²             | Screw connection  4 x (50 - 240)  1 x (120 - 185) 4 x (50 - 185)  1 x (120 - 300)   |
| Standard equipment Round copper conductor  Tunnel terminal Stranded 4-hole Bolt terminal and rear-side connection Direct on the switch Stranded  Module plate Single hole min. Single hole max.  | r<br>1. r<br>X. r                 | mm²             | 4 x (50 - 240)  1 x (120 - 185) 4 x (50 - 185)  1 x (120 - 300)   |
| Round copper conductor  Tunnel terminal  Stranded  4-hole  Bolt terminal and rear-side connection  Direct on the switch  Stranded  Module plate  Single hole  Single hole  max.  | r<br>1. r<br>X. r                 | mm²             | 4 x (50 - 240)  1 x (120 - 185) 4 x (50 - 185)  1 x (120 - 300)   |
| Tunnel terminal  Stranded  4-hole  Bolt terminal and rear-side connection  Direct on the switch  Stranded  Module plate  Single hole  Single hole  max.  | r<br>1. r<br>X. r                 | mm²             | 1 x (120 - 185)<br>4 x (50 - 185)<br>1 x (120 - 300)  |
| Stranded  4-hole  Bolt terminal and rear-side connection  Direct on the switch  Stranded  Module plate  Single hole min.  Single hole max.   | r<br>1. r<br>X. r                 | mm²             | 1 x (120 - 185)<br>4 x (50 - 185)<br>1 x (120 - 300)  |
| 4-hole  Bolt terminal and rear-side connection  Direct on the switch  Stranded  Module plate  Single hole min.  Single hole max.   | r<br>1. r<br>X. r                 | mm²             | 1 x (120 - 185)<br>4 x (50 - 185)<br>1 x (120 - 300)  |
| Bolt terminal and rear-side connection  Direct on the switch  Stranded  Module plate  Single hole min.  Single hole max.   | r<br>1. r<br>X. r                 | mm²             | 1 x (120 - 185)<br>4 x (50 - 185)<br>1 x (120 - 300)  |
| Direct on the switch Stranded  Module plate Single hole min. Single hole max.  | i. r<br>X. r                      | mm <sup>2</sup> | 4 x (50 - 185)  1 x (120 - 300)   |
| Stranded  Module plate  Single hole min.  Single hole max.   | i. r<br>X. r                      | mm <sup>2</sup> | 4 x (50 - 185)  1 x (120 - 300)   |
| Module plate Single hole min. Single hole max.   | i. r<br>X. r                      | mm <sup>2</sup> | 4 x (50 - 185)  1 x (120 - 300)   |
| Single hole min. Single hole max.  | x. r                              |                 |   |
| Single hole max.   | x. r                              |                 |   |
|  |                                   | mm <sup>2</sup> | 2 x (95 - 300)  |
| Module plate   |                                   |                 |   |
| •  | l                                 |                 |   |
| Double hole min.   |                                   | mm <sup>2</sup> | 2 x (95 - 185)  |
|  |                                   |                 |   |
| Double hole max.   |                                   |                 | 4 x (35 - 185)  |
| Connection width extension   | r                                 | mm <sup>2</sup> |   |
| Connection width extension   | r                                 |                 | 4 x 300<br>6 x (95 - 240)   |
| Al conductors, Cu cable  |                                   |                 |   |
| Tunnel terminal  |                                   |                 |   |
| Stranded   |                                   |                 |   |
| 4-hole   | r                                 | mm <sup>2</sup> | 4 x (50 - 240)  |
| Bolt terminal and rear-side connection   |                                   |                 |   |
| Flat copper strip, with holes min.   | ı. r                              | mm              | (2 x) 10 x 50 x 1.0   |
| Flat copper strip, with holes max.   | x. r                              | mm              | (2 x) 10 x 50 x 1.0   |
| Connection width extension   | r                                 | mm              | (2 x) 10 x 80 x 1.0   |
| Cu strip (number of segments x width x segment thickness)  |                                   |                 |   |
| Flat conductor terminal  |                                   |                 |   |
| min.   | ı. r                              | mm              | 6 x 16 x 0.8  |
| max.   | x. r                              |                 | (2 x) 10 x 32 x 1.0   |
| Module plate   |                                   |                 |   |
| Single hole  | r                                 | mm              | (2 x) 10 x 50 x 1.0   |
| Bolt terminal and rear-side connection   |                                   |                 |   |
| Flat copper strip, with holes min.   | ı. r                              | mm              | (2 x) 10 x 50 x 1.0   |
| Flat copper strip, with holes max.   |                                   |                 | (2 x) 10 x 50 x 1.0   |
| Connection width extension   |                                   |                 | (2 x) 10 x 80 x 1.0   |
| Copper busbar (width x thickness) mm   |                                   |                 |   |
| Bolt terminal and rear-side connection   |                                   |                 |   |
| Screw connection   |                                   |                 | M10   |
| Direct on the switch   |                                   |                 | -   |
| min.   | . r                               | mm              | 25 x 5  |
| max.   |                                   |                 | 2 x (50 x 10)   |
|  |                                   |                 | 2 x (80 x 10)   |
| Module plate   |                                   |                 |   |
| Single hole min.   | ı. r                              | mm              | 25 x 5  |
| Single hole max.   | x. r                              | mm              | 2 x (50 x 10)   |
| Module plate   |                                   |                 |   |
| Double hole  | r                                 | mm              | 2 x (50 x 10)   |

| Connection width extension |      | mm            |                                      |
|----------------------------|------|---------------|--------------------------------------|
| Connection width extension | min. | mm            | 60 x 10                              |
| Connection width extension | max. | mm            | 2 x (80 x 10)                        |
| Control cables             |      |               |                                      |
|                            |      | $\text{mm}^2$ | 1 x (0.75 - 2.5)<br>2 x (0.75 - 1.5) |

# Design verification as per IEC/EN 61439

| Technical data for design verification   |                  |   |  |
|--|------------------|---|--|
| Rated operational current for specified heat dissipation   | In               | Α | 1000   |
| Equipment heat dissipation, current-dependent  | P <sub>vid</sub> | W | 111  |
| IEC/EN 61439 design verification   |                  |   |  |
| 10.2 Strength of materials and parts   |                  |   |  |
| 10.2.2 Corrosion resistance  |                  |   | Meets the product standard's requirements.   |
| 10.2.3.1 Verification of thermal stability of enclosures   |                  |   | Meets the product standard's requirements.   |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat   |                  |   | Meets the product standard's requirements.   |
| 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects |                  |   | Meets the product standard's requirements.   |
| 10.2.4 Resistance to ultra-violet (UV) radiation   |                  |   | Meets the product standard's requirements.   |
| 10.2.5 Lifting   |                  |   | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.2.6 Mechanical impact   |                  |   | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.2.7 Inscriptions  |                  |   | Meets the product standard's requirements.   |
| 10.3 Degree of protection of ASSEMBLIES  |                  |   | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.4 Clearances and creepage distances   |                  |   | Meets the product standard's requirements.   |
| 10.5 Protection against electric shock   |                  |   | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.6 Incorporation of switching devices and components   |                  |   | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.7 Internal electrical circuits and connections  |                  |   | Is the panel builder's responsibility.   |
| 10.8 Connections for external conductors   |                  |   | Is the panel builder's responsibility.   |
| 10.9 Insulation properties   |                  |   |  |
| 10.9.2 Power-frequency electric strength   |                  |   | Is the panel builder's responsibility.   |
| 10.9.3 Impulse withstand voltage   |                  |   | Is the panel builder's responsibility.   |
| 10.9.4 Testing of enclosures made of insulating material   |                  |   | Is the panel builder's responsibility.   |
| 10.10 Temperature rise   |                  |   | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| 10.11 Short-circuit rating   |                  |   | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| 10.12 Electromagnetic compatibility  |                  |   | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| 10.13 Mechanical function  |                  |   | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.                         |

#### **Technical data ETIM 7.0**

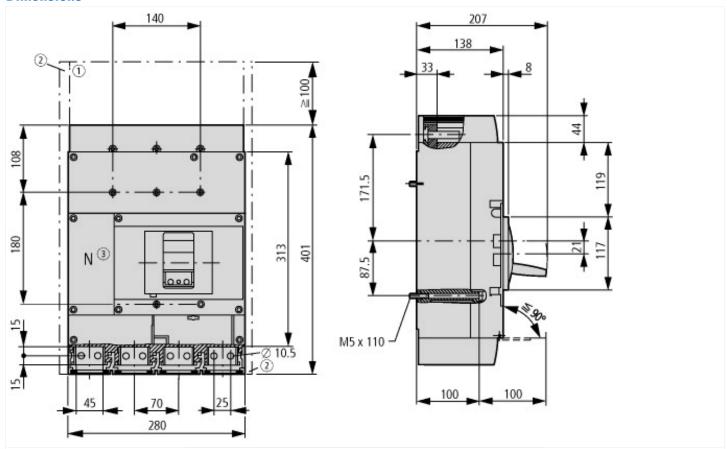
Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss10.0.1-27-37-14-03 [AKF060013])

| • |    |           |
|---|----|-----------|
| Version as main switch                  |    | Yes       |
| Version as maintenance-/service switch  |    | Yes       |
| Version as safety switch                |    | No        |
| Version as emergency stop installation  |    | Yes       |
| Version as reversing switch             |    | No        |
| Number of switches                      |    |           |
| Max. rated operation voltage Ue AC      | V  | 400       |
| Rated operating voltage                 | V  | 690 - 690 |
| Rated permanent current lu              | А  | 1000      |
| Rated permanent current at AC-23, 400 V | А  |           |
| Rated permanent current at AC-21, 400 V | А  | 0         |
| Rated operation power at AC-3, 400 V    | kW | 0         |
| Rated short-time withstand current lcw  | kA | 25        |
|   |    |           |

| Switching power at 400 V Conditioned rated short-circuit current Iq Number of poles Number of poles Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as change-over contact No No No No Suitable for ground mounting Yes Suitable for front mounting 4-hole No Suitable for front mounting centre No Suitable for front mounting centre No Suitable for distribution board installation Yes Suitable for intermediate mounting Golour control element Yes Colour control element Type of control element No Type of control element No Type of control element No Type of electrical connection of main circuit No   |   |    |  |
|--|---|----|--|
| Conditioned rated short-circuit current Iq  Number of poles  Number of auxiliary contacts as normally closed contact  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as change-over contact  Number of auxiliary contacts as change-over contact  Number of auxiliary contacts as change-over contact  Notor drive optional  Motor drive integrated  Voltage release optional  Device construction  Suitable for ground mounting  Suitable for front mounting 4-hole  Suitable for front mounting 4-hole  Suitable for front mounting centre  Suitable for distribution board installation  Suitable for intermediate mounting  Suitable for intermediate mounting  Colour control element  Type of control element  Type of control element  Type of electrical connection of main circuit  Degree of protection (IP), front side  IP20  | Rated operation power at AC-23, 400 V                   | kW | 560                                      |
| Number of poles Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Number of auxiliary contacts as normally open contact Number of auxiliary contact as normally open contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as normally contact Number of auxiliary contacts as normally open contacts contac | Switching power at 400 V                                | kW | 0  |
| Number of auxiliary contacts as normally closed contact  Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as change-over contact  No  Motor drive optional  No  Voltage release optional  No  Voltage release optional  Device construction  Suitable for ground mounting  Suitable for front mounting 4-hole  Suitable for front mounting 4-hole  Suitable for front mounting centre  Suitable for distribution board installation  Yes  Suitable for intermediate mounting  Colour control element  Type of control element  Rocker lever  Type of electrical connection of main circuit  Degree of protection (IP), front side  P20   | Conditioned rated short-circuit current Iq              | kA | 100                                      |
| Number of auxiliary contacts as normally open contact  Number of auxiliary contacts as change-over contact  Number of auxiliary contacts as change-over contact  Notor drive optional  Motor drive integrated  No  Ves  No  Ves  Device construction  Suitable for ground mounting  Suitable for front mounting 4-hole  Suitable for front mounting entre  Suitable for distribution board installation  Suitable for intermediate mounting  Suitable for intermediate mounting  Colour control element  Type of control element  Interlockable  Type of electrical connection of main circuit  Degree of protection (IP), front side  Degree of protection (IP), front side   | Number of poles   |    | 4  |
| Number of auxiliary contacts as change-over contact  Motor drive optional  Motor drive integrated  No  Voltage release optional  Device construction  Suitable for ground mounting  Suitable for front mounting 4-hole  Suitable for front mounting centre  Suitable for distribution board installation  Suitable for intermediate mounting  Colour control element  Type of control element  Interlockable  Type of electrical connection of main circuit  Degree of protection (IP), front side  No  Yes  O  Rocker lever  HP20   | Number of auxiliary contacts as normally closed contact |    | 0  |
| Motor drive optional Motor drive integrated Motor drive integrated No Voltage release optional Pevice construction Suitable for ground mounting Suitable for front mounting 4-hole Suitable for front mounting centre Suitable for firont mounting centre No Suitable for distribution board installation Suitable for intermediate mounting Colour control element Type of control element Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side  Yes No No Rocker lever Bolt connection Bolt connection IP20   | Number of auxiliary contacts as normally open contact   |    | 0  |
| Motor drive integrated  Voltage release optional  Device construction  Suitable for ground mounting  Suitable for front mounting 4-hole  Suitable for front mounting centre  Suitable for distribution board installation  Suitable for intermediate mounting  Colour control element  Type of control element  Interlockable  Type of electrical connection of main circuit  Degree of protection (IP), front side  No  No  No  No  No  No  Rocker lever  Yes  Bolt connection  Bolt connection  IP20   | Number of auxiliary contacts as change-over contact     |    | 0  |
| Voltage release optional  Device construction  Suitable for ground mounting  Suitable for front mounting 4-hole  Suitable for front mounting centre  Suitable for distribution board installation  Suitable for intermediate mounting  Colour control element  Type of control element  Interlockable  Type of electrical connection of main circuit  Degree of protection (IP), front side  Yes  Suitable for intermediate  Yes  Suitable for intermediate mounting  Yes  Interlockable  Yes  Type of electrical connection of main circuit  Bolt connection  IP20  | Motor drive optional                                    |    | Yes                                      |
| Device construction  Built-in device fixed built-in technique  Yes  Suitable for ground mounting 4-hole  No  Suitable for front mounting centre  No  Suitable for distribution board installation  Suitable for intermediate mounting  Yes  Suitable for intermediate mounting  Colour control element  Type of control element  Rocker lever  Interlockable  Type of electrical connection of main circuit  Degree of protection (IP), front side  Built-in device fixed built-in technique  Yes  No  No  Rocker lever  Grey  Built-in device fixed built-in technique  No  No  Suitable for intermediate mounting Yes  Suitable for intermediate mounting  Yes  Type of control element  Bocker lever  Hero  Built-in device fixed built-in technique  No  No  Suitable for front mounting 4-hole  No  Suitable for fort mounting 4-hole | Motor drive integrated                                  |    | No                                       |
| Suitable for ground mounting Suitable for front mounting 4-hole No Suitable for front mounting centre No Suitable for distribution board installation Suitable for intermediate mounting Yes Colour control element Grey Type of control element No Rocker lever Interlockable Type of protection (IP), front side  Yes Interlockable IP20   | Voltage release optional                                |    | Yes                                      |
| Suitable for front mounting 4-hole  Suitable for front mounting centre  No  Suitable for distribution board installation  Yes  Suitable for intermediate mounting  Yes  Colour control element  Type of control element  Interlockable  Type of electrical connection of main circuit  Degree of protection (IP), front side  No  No  No  Yes  Yes  Yes  Suitable for intermediate mounting  Yes  Grey  Type  Solver lever  Yes  Interlockable  IP20   | Device construction                                     |    | Built-in device fixed built-in technique |
| Suitable for front mounting centre  Suitable for distribution board installation  Yes  Suitable for intermediate mounting  Yes  Colour control element  Type of control element  Interlockable  Type of electrical connection of main circuit  Degree of protection (IP), front side  No  Yes  No  Yes  Suitable for intermediate mounting  Yes  Rocker lever  Bolt connection  IP20   | Suitable for ground mounting                            |    | Yes                                      |
| Suitable for distribution board installation  Yes  Suitable for intermediate mounting  Yes  Colour control element  Type of control element  Interlockable  Type of electrical connection of main circuit  Degree of protection (IP), front side  Yes  Yes  Type  Yes  Bolt connection  IP20   | Suitable for front mounting 4-hole                      |    | No                                       |
| Suitable for intermediate mounting Yes Colour control element Grey Type of control element Rocker lever Interlockable Type of electrical connection of main circuit Degree of protection (IP), front side Yes IP20   | Suitable for front mounting centre                      |    | No                                       |
| Colour control element  Type of control element  Rocker lever  Interlockable  Type of electrical connection of main circuit  Degree of protection (IP), front side  Grey  Rocker lever  Yes  Bolt connection  IP20   | Suitable for distribution board installation            |    | Yes                                      |
| Type of control element  Interlockable  Type of electrical connection of main circuit  Degree of protection (IP), front side  Rocker lever  Yes  Bolt connection  IP20   | Suitable for intermediate mounting                      |    | Yes                                      |
| Interlockable Yes Type of electrical connection of main circuit Degree of protection (IP), front side IP20   | Colour control element                                  |    | Grey                                     |
| Type of electrical connection of main circuit  Degree of protection (IP), front side  Bolt connection  IP20  | Type of control element                                 |    | Rocker lever                             |
| Degree of protection (IP), front side  | Interlockable   |    | Yes                                      |
|  | Type of electrical connection of main circuit           |    | Bolt connection                          |
| Degree of protection (NEMA)  | Degree of protection (IP), front side                   |    | IP20                                     |
|  | Degree of protection (NEMA)                             |    |  |

## **Dimensions**



- ① Blow out area, minimum clearance to other parts: Ui  $\leq 690~V{:}~100~mm$
- Ui ≤ 1500 V: 200 mm
- ② Minimum clearance to adjacent parts: Ui ≤ 1500 V: 70 mm

### **Additional product information (links)**

#### IL01210018Z circuit-breaker LZM4, switch-disconnector LN4

IL01210018Z circuit-breaker LZM4, switchdisconnector LN4

 $https://es-assets.eaton.com/DOCUMENTATION/AWA\_INSTRUCTIONS/IL01210018Z2017\_05.pdf$