



**Main switch, P3, 63 A, rear mounting, 3 pole, Emergency switching off function, With red rotary handle and yellow locking ring, Lockable in the 0 (Off) position**



**Part no. P3-63/V/SVB**  
**Catalog No. 048218**

**EL-Nummer 0001456125**  
**(Norway)**

## Delivery program

|                                           |       |     |                                                                        |
|-------------------------------------------|-------|-----|------------------------------------------------------------------------|
| Product range                             |       |     | Main switch<br>maintenance switch<br>Repair switch                     |
| Part group reference                      |       |     | P3                                                                     |
| Stop Function                             |       |     | Emergency switching off function                                       |
|                                           |       |     | With red rotary handle and yellow locking ring                         |
| Information about equipment supplied      |       |     | Auxiliary contact or neutral conductor fitted by user.                 |
| Number of poles                           |       |     | 3 pole                                                                 |
| <b>Auxiliary contacts</b>                 |       |     |                                                                        |
|                                           |       | N/O | 0                                                                      |
|                                           |       | N/C | 0                                                                      |
| Locking facility                          |       |     | Lockable in the 0 (Off) position                                       |
| Degree of Protection                      |       |     | Front IP65                                                             |
| Design                                    |       |     | rear mounting                                                          |
|                                           |       |     |                                                                        |
| Contact sequence                          |       |     |                                                                        |
| Function                                  |       |     |                                                                        |
| <b>Motor rating AC-23A, 50 - 60 Hz</b>    |       |     |                                                                        |
| 400 V                                     | P     | kW  | 30                                                                     |
| Rated uninterrupted current               | $I_u$ | A   | 63                                                                     |
| Note on rated uninterrupted current $I_u$ |       |     | Rated uninterrupted current $I_u$ is specified for max. cross-section. |

## Technical data

|                     |  |    |                                                                                                            |
|---------------------|--|----|------------------------------------------------------------------------------------------------------------|
| <b>General</b>      |  |    |                                                                                                            |
| Standards           |  |    | IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL<br>Switch-disconnector according to IEC/EN 60947-3<br>NEMA12 |
| Climatic proofing   |  |    | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30                             |
| Ambient temperature |  |    |                                                                                                            |
| Open                |  | °C | -25 - +50                                                                                                  |
| Enclosed            |  | °C | -25 - +40                                                                                                  |

|                                                            |                  |                   |                                                                                 |
|------------------------------------------------------------|------------------|-------------------|---------------------------------------------------------------------------------|
| Overvoltage category/pollution degree                      |                  |                   | III/3                                                                           |
| Rated impulse withstand voltage                            | U <sub>imp</sub> | V AC              | 6000                                                                            |
| Mechanical shock resistance                                |                  | g                 | 15                                                                              |
| Mounting position                                          |                  |                   | As required                                                                     |
| <b>Contacts</b>                                            |                  |                   |                                                                                 |
| Mechanical variables                                       |                  |                   |                                                                                 |
| Number of poles                                            |                  |                   | 3 pole                                                                          |
| Auxiliary contacts                                         |                  |                   |                                                                                 |
|                                                            |                  | N/O               | 0                                                                               |
|                                                            |                  | N/C               | 0                                                                               |
| Electrical characteristics                                 |                  |                   |                                                                                 |
| Rated operational voltage                                  | U <sub>e</sub>   | V AC              | 690                                                                             |
| Rated uninterrupted current                                | I <sub>u</sub>   | A                 | 63                                                                              |
| Note on rated uninterrupted current I <sub>u</sub>         |                  |                   | Rated uninterrupted current I <sub>u</sub> is specified for max. cross-section. |
| Load rating with intermittent operation, class 12          |                  |                   |                                                                                 |
| AB 25 % DF                                                 |                  | x I <sub>e</sub>  | 2                                                                               |
| AB 40 % DF                                                 |                  | x I <sub>e</sub>  | 1.6                                                                             |
| AB 60 % DF                                                 |                  | x I <sub>e</sub>  | 1.3                                                                             |
| Short-circuit rating                                       |                  |                   |                                                                                 |
| Fuse                                                       |                  | A gG/gL           | 80                                                                              |
| Rated short-time withstand current (1 s current)           | I <sub>cw</sub>  | A <sub>rms</sub>  | 1260                                                                            |
| Note on rated short-time withstand current I <sub>cw</sub> |                  |                   | Current for a time of 1 second                                                  |
| Rated conditional short-circuit current                    | I <sub>q</sub>   | kA                | 4                                                                               |
| <b>Switching capacity</b>                                  |                  |                   |                                                                                 |
| cos φ rated making capacity as per IEC 60947-3             |                  | A                 | 800                                                                             |
| Rated breaking capacity cos φ to IEC 60947-3               |                  | A                 |                                                                                 |
| 230 V                                                      |                  | A                 | 640                                                                             |
| 400/415 V                                                  |                  | A                 | 600                                                                             |
| 500 V                                                      |                  | A                 | 590                                                                             |
| 690 V                                                      |                  | A                 | 340                                                                             |
| Safe isolation to EN 61140                                 |                  |                   |                                                                                 |
| between the contacts                                       |                  | V AC              | 440                                                                             |
| Current heat loss per contact at I <sub>e</sub>            |                  | W                 | 4.5                                                                             |
| Lifespan, mechanical                                       | Operations       | x 10 <sup>6</sup> | > 0.1                                                                           |
| Maximum operating frequency                                | Operations/h     |                   | 1200                                                                            |
| <b>AC</b>                                                  |                  |                   |                                                                                 |
| AC-3                                                       |                  |                   |                                                                                 |
| Rating, motor load switch                                  | P                | kW                |                                                                                 |
| 220 V 230 V                                                | P                | kW                | 15                                                                              |
| 400 V 415 V                                                | P                | kW                | 30                                                                              |
| 500 V                                                      | P                | kW                | 30                                                                              |
| 690 V                                                      | P                | kW                | 30                                                                              |
| Rated operational current motor load switch                |                  |                   |                                                                                 |
| 230 V                                                      | I <sub>e</sub>   | A                 | 51                                                                              |
| 400V 415 V                                                 | I <sub>e</sub>   | A                 | 55                                                                              |
| 500 V                                                      | I <sub>e</sub>   | A                 | 44                                                                              |
| 690 V                                                      | I <sub>e</sub>   | A                 | 22.1                                                                            |
| AC-21A                                                     |                  |                   |                                                                                 |
| Rated operational current switch                           |                  |                   |                                                                                 |
| 440 V                                                      | I <sub>e</sub>   | A                 | 63                                                                              |
| AC-23A                                                     |                  |                   |                                                                                 |
| Motor rating AC-23A, 50 - 60 Hz                            | P                | kW                |                                                                                 |
| 230 V                                                      | P                | kW                | 18.5                                                                            |
| 400 V 415 V                                                | P                | kW                | 30                                                                              |

|                                               |                   |                |                                                                  |
|-----------------------------------------------|-------------------|----------------|------------------------------------------------------------------|
| 500 V                                         | P                 | kW             | 45                                                               |
| 690 V                                         | P                 | kW             | 55                                                               |
| Rated operational current motor load switch   |                   |                |                                                                  |
| 230 V                                         | I <sub>e</sub>    | A              | 63                                                               |
| 400 V 415 V                                   | I <sub>e</sub>    | A              | 63                                                               |
| 500 V                                         | I <sub>e</sub>    | A              | 63                                                               |
| 690 V                                         | I <sub>e</sub>    | A              | 63                                                               |
| DC                                            |                   |                |                                                                  |
| DC-1, Load-break switches L/R = 1 ms          |                   |                |                                                                  |
| Rated operational current                     | I <sub>e</sub>    | A              | 63                                                               |
| Voltage per contact pair in series            |                   | V              | 60                                                               |
| DC-23A, motor load switch L/R = 15 ms         |                   |                |                                                                  |
| 24 V                                          |                   |                |                                                                  |
| Rated operational current                     | I <sub>e</sub>    | A              | 50                                                               |
| Contacts                                      |                   | Quantity       | 1                                                                |
| 48 V                                          |                   |                |                                                                  |
| Rated operational current                     | I <sub>e</sub>    | A              | 50                                                               |
| Contacts                                      |                   | Quantity       | 2                                                                |
| 60 V                                          |                   |                |                                                                  |
| Rated operational current                     | I <sub>e</sub>    | A              | 50                                                               |
| Contacts                                      |                   | Quantity       | 2                                                                |
| 120 V                                         |                   |                |                                                                  |
| Rated operational current                     | I <sub>e</sub>    | A              | 25                                                               |
| Contacts                                      |                   | Quantity       | 3                                                                |
| Control circuit reliability at 24 V DC, 10 mA | Fault probability | H <sub>F</sub> | < 10 <sup>-5</sup> , < 1 failure in 100,000 switching operations |

### Terminal capacities

|                                      |  |                 |                                  |
|--------------------------------------|--|-----------------|----------------------------------|
| Solid or stranded                    |  | mm <sup>2</sup> | 1 x (2,5 - 35)<br>2 x (2,5 - 10) |
| Flexible with ferrules to DIN 46228  |  | mm <sup>2</sup> | 1 x (1.5 - 25)<br>2 x (1.5 - 6)  |
| Terminal screw                       |  |                 | M5                               |
| Tightening torque for terminal screw |  | Nm              | 3                                |

### Technical safety parameters:

|              |  |  |                                                         |
|--------------|--|--|---------------------------------------------------------|
| <b>Notes</b> |  |  | B10 <sub>d</sub> values as per EN ISO 13849-1, table C1 |
|--------------|--|--|---------------------------------------------------------|

### Rating data for approved types

|                                  |                |      |                |
|----------------------------------|----------------|------|----------------|
| Contacts                         |                |      |                |
| Rated operational voltage        | U <sub>e</sub> | V AC | 600            |
| Rated uninterrupted current max. |                |      |                |
| Main conducting paths            |                |      |                |
| General use                      |                | A    | 60             |
| Auxiliary contacts               |                |      |                |
| General Use                      | I <sub>U</sub> | A    | 10             |
| Pilot Duty                       |                |      | A 600<br>P 600 |
| Switching capacity               |                |      |                |
| Maximum motor rating             |                |      |                |
| Single-phase                     |                |      |                |
| 120 V AC                         |                | HP   | 3              |
| 200 V AC                         |                | HP   | 7.5            |
| 240 V AC                         |                | HP   | 10             |
| Three-phase                      |                |      |                |
| 200 V AC                         |                | HP   | 15             |
| 240 V AC                         |                | HP   | 15             |
| 480 V AC                         |                | HP   | 40             |
| 600 V AC                         |                | HP   | 50             |
| Short Circuit Current Rating     |                | SCCR |                |

|                                          |       |        |
|------------------------------------------|-------|--------|
| Basic Rating                             | kA    | 10     |
| max. Fuse                                | A     | 150    |
| Terminal capacity                        |       |        |
| Solid or flexible conductor with ferrule | AWG   | 14 - 2 |
| Terminal screw                           |       | M5     |
| Tightening torque                        | lb-in | 26.5   |

## Design verification as per IEC/EN 61439

|                                                                                                                        |                   |    |                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------|-------------------|----|----------------------------------------------------------------------------------------------------------------------------------|
| Technical data for design verification                                                                                 |                   |    |                                                                                                                                  |
| Rated operational current for specified heat dissipation                                                               | I <sub>n</sub>    | A  | 63                                                                                                                               |
| Heat dissipation per pole, current-dependent                                                                           | P <sub>vid</sub>  | W  | 4.5                                                                                                                              |
| Equipment heat dissipation, current-dependent                                                                          | P <sub>vid</sub>  | W  | 0                                                                                                                                |
| Static heat dissipation, non-current-dependent                                                                         | P <sub>vs</sub>   | W  | 0                                                                                                                                |
| Heat dissipation capacity                                                                                              | P <sub>diss</sub> | W  | 0                                                                                                                                |
| Operating ambient temperature min.                                                                                     |                   | °C | -25                                                                                                                              |
| Operating ambient temperature max.                                                                                     |                   | °C | 50                                                                                                                               |
| 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                                                                       |                   |    | UV resistance only in connection with protective shield.                                                                         |
| 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

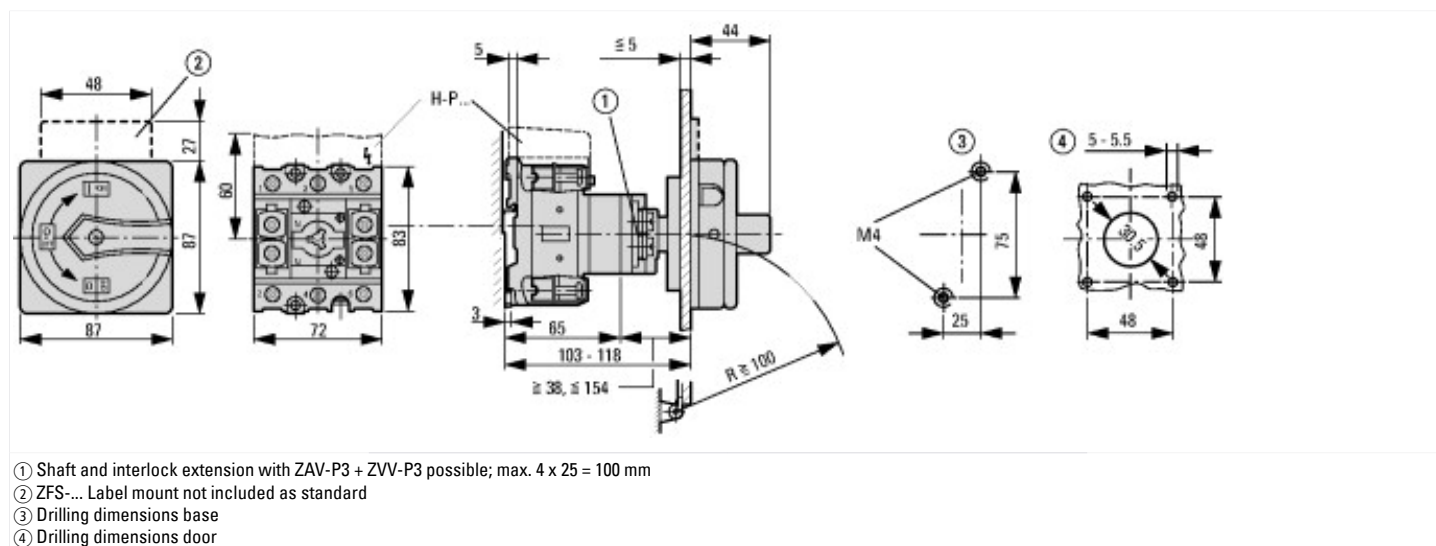
|                                                                                                                                                                                                               |  |   |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---|-----|
| Low-voltage industrial components (EG000017) / Switch disconnecter (EC000216)                                                                                                                                 |  |   |     |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnecter (ecI@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                                                                                                                                                                                            |  |   | 1   |
| Max. rated operation voltage U <sub>e</sub> AC                                                                                                                                                                |  | V | 690 |

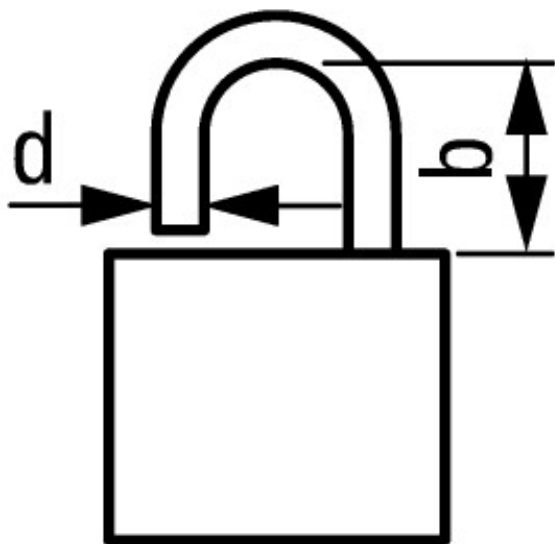
|                                                         |    |                                          |
|---------------------------------------------------------|----|------------------------------------------|
| Rated operating voltage                                 | V  | 690 - 690                                |
| Rated permanent current I <sub>u</sub>                  | A  | 63                                       |
| Rated permanent current at AC-23, 400 V                 | A  | 63                                       |
| Rated permanent current at AC-21, 400 V                 | A  | 63                                       |
| Rated operation power at AC-3, 400 V                    | kW | 30                                       |
| Rated short-time withstand current I <sub>cw</sub>      | kA | 1.26                                     |
| Rated operation power at AC-23, 400 V                   | kW | 30                                       |
| Switching power at 400 V                                | kW | 30                                       |
| Conditioned rated short-circuit current I <sub>q</sub>  | kA | 4                                        |
| Number of poles                                         |    | 3                                        |
| Number of auxiliary contacts as normally closed contact |    | 0                                        |
| Number of auxiliary contacts as normally open contact   |    | 0                                        |
| Number of auxiliary contacts as change-over contact     |    | 0                                        |
| Motor drive optional                                    |    | No                                       |
| Motor drive integrated                                  |    | No                                       |
| Voltage release optional                                |    | No                                       |
| Device construction                                     |    | Built-in device fixed built-in technique |
| Suitable for ground mounting                            |    | Yes                                      |
| Suitable for front mounting 4-hole                      |    | No                                       |
| Suitable for front mounting centre                      |    | No                                       |
| Suitable for distribution board installation            |    | No                                       |
| Suitable for intermediate mounting                      |    | No                                       |
| Colour control element                                  |    | Red                                      |
| Type of control element                                 |    | Door coupling rotary drive               |
| Interlockable                                           |    | Yes                                      |
| Type of electrical connection of main circuit           |    | Screw connection                         |
| Degree of protection (IP), front side                   |    | IP65                                     |
| Degree of protection (NEMA)                             |    | 12                                       |

## Approvals

|                             |                                                                                          |
|-----------------------------|------------------------------------------------------------------------------------------|
| Product Standards           | UL 60947-4-1; CSA - C22.2 No. 60947-4-1-14; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking |
| UL File No.                 | E36332                                                                                   |
| UL Category Control No.     | NLRV                                                                                     |
| CSA File No.                | 12528                                                                                    |
| CSA Class No.               | 3211-05                                                                                  |
| North America Certification | UL listed, CSA certified                                                                 |
| Suitable for                | Branch circuits, suitable as motor disconnect                                            |
| Degree of Protection        | IEC: IP65; UL/CSA Type 1, 12                                                             |

## Dimensions





$$d = 4 - 8 \text{ mm}$$

$$b + d \leq 47 \text{ mm}$$

$$d = 0.16 - 0.31''$$

$$b + d \leq 1.85''$$

≤ 3 padlocks

### Additional product information (links)

#### IL03802005Z (AWA1150-1981) Switch-Disconnectors for flush mounting

|                                                                    |                                                                                                                                                                                                 |
|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IL03802005Z (AWA1150-1981) Switch-Disconnectors for flush mounting | <a href="https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL03802005Z2018_05.pdf">https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL03802005Z2018_05.pdf</a>               |
| Technical overview cam switch, switch-disconnector                 | <a href="http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.2">http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.2</a>                                     |
| System overview cam switch T                                       | <a href="http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.4">http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.4</a>                                     |
| System overview switch-disconnector P                              | <a href="http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.6">http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.6</a>                                     |
| Key to part numbers Cam switch                                     | <a href="http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.8">http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.8</a>                                     |
| Key to part numbers Switch-disconnector                            | <a href="http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.8">http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&amp;startpage=4.8</a>                                     |
| Switches for ATEX                                                  | <a href="http://www.coopercrouse-hinds.eu/en/products/25-ex-safety-and-main-current-switches.html">http://www.coopercrouse-hinds.eu/en/products/25-ex-safety-and-main-current-switches.html</a> |
| Ordering form for SOND switches and SOND front plates(DE_EN)       | <a href="https://es-assets.eaton.com/DOCUMENTATION/PDF/MZ008005ZU_Orderform_Customized_Switch.pdf">https://es-assets.eaton.com/DOCUMENTATION/PDF/MZ008005ZU_Orderform_Customized_Switch.pdf</a> |
| Ordering form for SOND switches and SOND front plates(DE_EN)       | <a href="https://es-assets.eaton.com/DOCUMENTATION/PDF/MZ008006ZU_Orderform_Customized_Switch.pdf">https://es-assets.eaton.com/DOCUMENTATION/PDF/MZ008006ZU_Orderform_Customized_Switch.pdf</a> |