

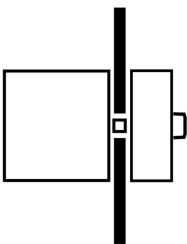
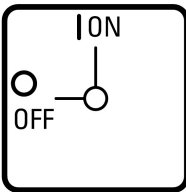


**Main switch, T5, 100 A, flush mounting, 3 contact unit(s), 5-pole,  
Emergency switching off function, With red rotary handle and yellow  
locking ring**



**Part no. T5-3-8341/EA/SVB**  
**Catalog No. 096397**

### Delivery program

| Product range                             |       |                 | Main switch<br>maintenance switch<br>Repair switch   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   |
|---|-------|-----------------|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---|---|
| Part group reference                      |       |                 | T5   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   |
| Stop Function                             |       |                 | Emergency switching off function   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   |
|   |       |                 | With red rotary handle and yellow locking ring   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   |
| Number of poles                           |       |                 | 5-pole   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   |
| Degree of Protection                      |       |                 | Front IP65   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   |
| Design                                    |       |                 | flush mounting   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   |
|   |       |                 |    |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   |
| Contact sequence                          |       |                 | <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>0</th> <th>1</th> </tr> </thead> <tbody> <tr><td>1</td><td>○</td><td>X</td></tr> <tr><td>2</td><td>○</td><td>X</td></tr> <tr><td>3</td><td>○</td><td>X</td></tr> <tr><td>4</td><td>○</td><td>X</td></tr> <tr><td>5</td><td>○</td><td>X</td></tr> <tr><td>6</td><td>○</td><td>X</td></tr> <tr><td>7</td><td>○</td><td>X</td></tr> <tr><td>8</td><td>○</td><td>X</td></tr> <tr><td>9</td><td>○</td><td>X</td></tr> <tr><td>10</td><td>○</td><td>X</td></tr> </tbody> </table> |  | 0 | 1 | 1 | ○ | X | 2 | ○ | X | 3 | ○ | X | 4 | ○ | X | 5 | ○ | X | 6 | ○ | X | 7 | ○ | X | 8 | ○ | X | 9 | ○ | X | 10 | ○ | X |
|   | 0     | 1               |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   |
| 1   | ○     | X               |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   |
| 2   | ○     | X               |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   |
| 3   | ○     | X               |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   |
| 4   | ○     | X               |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   |
| 5   | ○     | X               |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   |
| 6   | ○     | X               |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   |
| 7   | ○     | X               |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   |
| 8   | ○     | X               |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   |
| 9   | ○     | X               |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   |
| 10  | ○     | X               |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   |
| Switching angle                           |       | °               | 90   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   |
| Design number                             |       |                 | 8341   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   |
| Function                                  |       |                 |    |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   |
| <b>Motor rating AC-23A, 50 - 60 Hz</b>    |       |                 |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   |
| 400 V                                     | P     | kW              | 55   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   |
| Rated uninterrupted current               | $I_u$ | A               | 100  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   |
| Note on rated uninterrupted current $I_u$ |       |                 | Rated uninterrupted current $I_u$ is specified for max. cross-section.   |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   |
| Number of contact units                   |       | contact unit(s) | 3  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |   |   |

### Technical data

#### General

|           |  |  |   |
|-----------|--|--|---|
| Standards |  |  | IEC/EN 60947, VDE 0660, IEC/EN 60204<br>Switch-disconnector according to IEC/EN 60947-3 |
|-----------|--|--|---|

|                                       |           |      |  |
|---------------------------------------|-----------|------|--|
| 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       | $U_{imp}$ | V AC | 6000   |
| Mechanical shock resistance           |           | g    | 15   |
| Mounting position                     |           |      | As required  |

## Contacts

|   |          |              |  |
|---|----------|--------------|--|
| Mechanical variables                                |          |              |  |
| Number of poles                                     |          |              | 5-pole   |
| Electrical characteristics                          |          |              |  |
| Rated operational voltage                           | $U_e$    | V AC         | 690  |
| Rated uninterrupted current                         | $I_u$    | A            | 100  |
| Note on rated uninterrupted current $I_u$           |          |              | Rated uninterrupted current $I_u$ is specified for max. cross-section. |
| Load rating with intermittent operation, class 12   |          |              |  |
| AB 25 % DF  |          | $\times I_e$ | 2  |
| AB 40 % DF  |          | $\times I_e$ | 1.6  |
| AB 60 % DF  |          | $\times I_e$ | 1.3  |
| Short-circuit rating                                |          |              |  |
| Fuse  |          | A gG/gL      | 100  |
| Rated short-time withstand current (1 s current)    | $I_{cw}$ | $A_{rms}$    | 1700   |
| Note on rated short-time withstand current $I_{cw}$ |          |              | Current for a time of 1 second   |
| Rated conditional short-circuit current             | $I_q$    | kA           | 2  |

## Switching capacity

|  |              |               |       |
|--|--------------|---------------|-------|
| cos $\varphi$ rated making capacity as per IEC 60947-3         |              | A             | 950   |
| Rated breaking capacity cos $\varphi$ to IEC 60947-3           |              | A             |       |
| 230 V  |              | A             | 760   |
| 400/415 V  |              | A             | 740   |
| 500 V  |              | A             | 590   |
| 690 V  |              | A             | 420   |
| Safe isolation to EN 61140                                     |              |               |       |
| between the contacts   |              | V AC          | 440   |
| Current heat loss per contact at $I_e$                         |              | W             | 7.5   |
| Current heat loss per auxiliary circuit at $I_e$ (AC-15/230 V) |              | CO            | 7.5   |
| Lifespan, mechanical   | Operations   | $\times 10^6$ | > 0.5 |
| Maximum operating frequency                                    | Operations/h |               | 1200  |
| AC   |              |               |       |
| AC-3   |              |               |       |
| Rating, motor load switch                                      | P            | kW            |       |
| 220 V 230 V  | P            | kW            | 22    |
| 230 V Star-delta   | P            | kW            | 30    |
| 400 V 415 V  | P            | kW            | 30    |
| 400 V Star-delta   | P            | kW            | 45    |
| 500 V  | P            | kW            | 30    |
| 500 V Star-delta   | P            | kW            | 45    |
| 690 V  | P            | kW            | 15    |
| 690 V Star-delta   | P            | kW            | 22    |
| Rated operational current motor load switch                    |              |               |       |
| 230 V  | $I_e$        | A             | 71    |
| 230 V star-delta   | $I_e$        | A             | 100   |
| 400V 415 V   | $I_e$        | A             | 55    |
| 400 V star-delta   | $I_e$        | A             | 95.3  |
| 500 V  | $I_e$        | A             | 44    |

|   |                   |                |  |
|---|-------------------|----------------|--|
| 500 V star-delta                              | I <sub>e</sub>    | A              | 76.2   |
| 690 V   | I <sub>e</sub>    | A              | 17   |
| 690 V star-delta                              | I <sub>e</sub>    | A              | 29.4   |
| AC-21A  |                   |                |  |
| Rated operational current switch              |                   |                |  |
| 440 V   | I <sub>e</sub>    | A              | 100  |
| AC-23A  |                   |                |  |
| Motor rating AC-23A, 50 - 60 Hz               |                   |                |  |
| 230 V   | P                 | kW             | 30   |
| 400 V 415 V                                   | P                 | kW             | 55   |
| 500 V   | P                 | kW             | 37   |
| 690 V   | P                 | kW             | 30   |
| Rated operational current motor load switch   |                   |                |  |
| 230 V   | I <sub>e</sub>    | A              | 100  |
| 400 V 415 V                                   | I <sub>e</sub>    | A              | 100  |
| 500 V   | I <sub>e</sub>    | A              | 55   |
| 690 V   | I <sub>e</sub>    | A              | 32   |
| DC  |                   |                |  |
| DC-1, Load-break switches L/R = 1 ms          |                   |                |  |
| Rated operational current                     | I <sub>e</sub>    | A              | 80   |
| Voltage per contact pair in series            |                   | V              | 60   |
| 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 - 16) |
| Flexible with ferrules to DIN 46228  |  | mm <sup>2</sup> | 1 x (1 - 25)<br>2 x (1.5 - 10)   |
| Terminal screw                       |  |                 | M6                               |
| Tightening torque for terminal screw |  | Nm              | 4                                |

### Technical safety parameters:

|              |  |  |   |
|--------------|--|--|---|
| <b>Notes</b> |  |  | B10 <sub>q</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    | 65  |
| Terminal capacity                |                |      |     |
| Terminal screw                   |                |      | M6  |

## Design verification as per IEC/EN 61439

|  |                   |    |  |
|--|-------------------|----|--|
| Technical data for design verification                                     |                   |    |  |
| Rated operational current for specified heat dissipation                   | I <sub>n</sub>    | A  | 100  |
| Heat dissipation per pole, current-dependent                               | P <sub>vid</sub>  | W  | 7.5  |
| 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

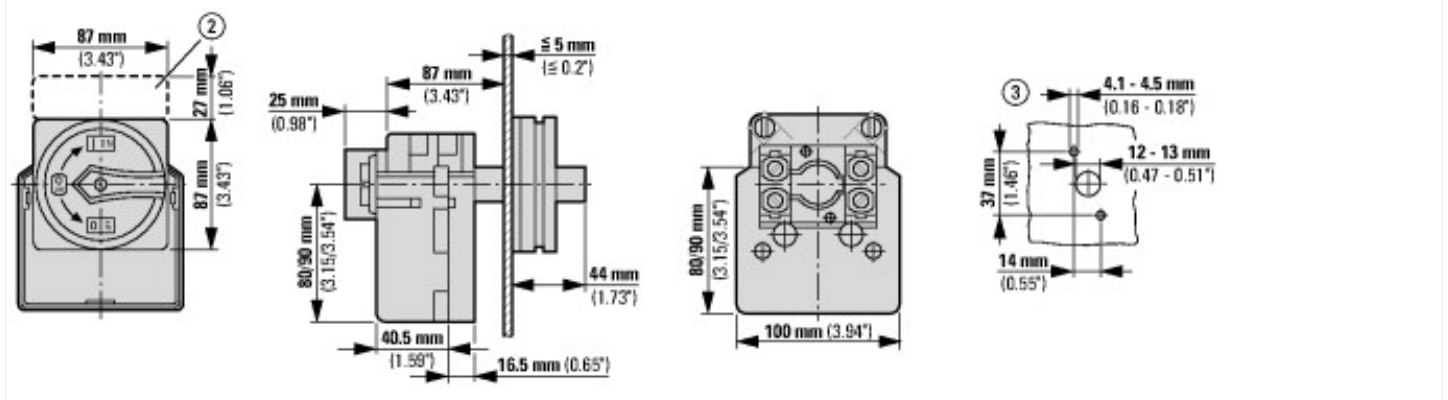
Low-voltage industrial components (EG000017) / Switch disconnecter (EC000216)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnecter (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                                      |    | 1  |
| Max. rated operation voltage Ue AC                      | V  | 690                                      |
| Rated operating voltage                                 | V  | 690 - 690                                |
| Rated permanent current Iu                              | A  | 100                                      |
| Rated permanent current at AC-23, 400 V                 | A  | 100                                      |
| Rated permanent current at AC-21, 400 V                 | A  | 100                                      |
| Rated operation power at AC-3, 400 V                    | kW | 30                                       |
| Rated short-time withstand current Icw                  | kA | 1.7                                      |
| Rated operation power at AC-23, 400 V                   | kW | 55                                       |
| Switching power at 400 V                                | kW | 55                                       |
| Conditioned rated short-circuit current Iq              | kA | 2  |
| Number of poles   |    | 5  |
| 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                            |    | No                                       |
| Suitable for front mounting 4-hole                      |    | No                                       |
| Suitable for front mounting centre                      |    | Yes                                      |
| 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)                   |  | Other                      |

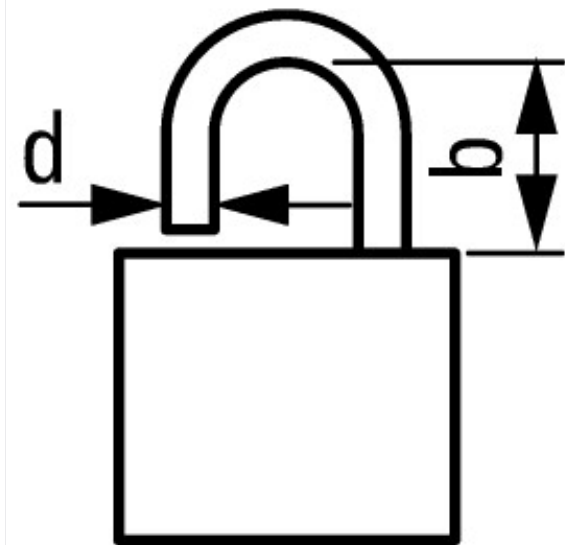
## Dimensions



② ZFS... Label mount not included as standard

③ Drilling dimensions door

Cam switches T5B and T5 are of identical design, only their contacts are different



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

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

**$d = 0.16 - 0.31''$**

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

$\leq 3$  padlocks

## Assets (links)

### Declaration of CE Conformity

00003073

### Instruction Leaflets

IL03801009Z2018\_05

## Additional product information (links)

### IL03801009Z (AWA1150-1692) Cam switches: switch-disconnectors

|   |   |
|---|---|
| IL03801009Z (AWA1150-1692) Cam switches: switch-disconnectors | <a href="ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801009Z2018_05.pdf">ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801009Z2018_05.pdf</a>                           |
| Display flip catalog page.                                    | <a href="http://ecat.moeller.net/flip-cat/?edition=K115A&amp;startpage=130">http://ecat.moeller.net/flip-cat/?edition=K115A&amp;startpage=130</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)

[ftp://ftp.moeller.net/DOCUMENTATION/PDF/MZ008005ZU\\_Orderform\\_Customized\\_Switch.pdf](ftp://ftp.moeller.net/DOCUMENTATION/PDF/MZ008005ZU_Orderform_Customized_Switch.pdf)

Ordering form for SOND switches and SOND front plates(DE\_EN)

[ftp://ftp.moeller.net/DOCUMENTATION/PDF/MZ008006ZU\\_Orderform\\_Customized\\_Switch.pdf](ftp://ftp.moeller.net/DOCUMENTATION/PDF/MZ008006ZU_Orderform_Customized_Switch.pdf)