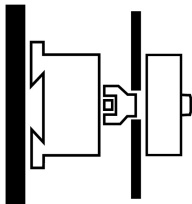
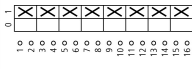
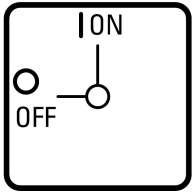




**Main switch, T3, 32 A, rear mounting, 4 contact unit(s), 8-pole, Emergency switching off function, With red rotary handle and yellow locking ring, Lockable in the 0 (Off) position**

**Part no. T3-4-8344/V/SVB**  
**Catalog No. 020598**

**Delivery program**

|  |                |                 |  |
|--|----------------|-----------------|--|
| Product range                                      |                |                 | Main switch<br>maintenance switch<br>Repair switch                                   |
| Part group reference                               |                |                 | T3   |
| Stop Function                                      |                |                 | Emergency switching off function   |
|  |                |                 | With red rotary handle and yellow locking ring                                       |
| Number of poles                                    |                |                 | 8-pole   |
| Locking facility                                   |                |                 | Lockable in the 0 (Off) position   |
| Degree of Protection                               |                |                 | Front IP65   |
| Design   |                |                 | rear mounting  |
|  |                |                 |    |
| Contact sequence                                   |                |                 |   |
| Switching angle                                    |                | °               | 90   |
| Design number                                      |                |                 | 8344   |
| Function   |                |                 |  |
| <b>Motor rating AC-23A, 50 - 60 Hz</b>             |                |                 |  |
| 400 V  | P              | kW              | 15   |
| Rated uninterrupted current                        | I <sub>u</sub> | A               | 32   |
| Note on rated uninterrupted current I <sub>u</sub> |                |                 | Rated uninterrupted current I <sub>u</sub> is specified for max. cross-section.      |
| Number of contact units                            |                | contact unit(s) | 4  |

**Technical data**

**General**

|                                       |                  |      |  |
|---------------------------------------|------------------|------|--|
| Standards                             |                  |      | IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL<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 <sub>imp</sub> | V AC | 6000   |
| Mechanical shock resistance           |                  | g    | 15   |
| Mounting position                     |                  |      | As required  |

**Contacts**

|                      |  |  |  |
|----------------------|--|--|--|
| Mechanical variables |  |  |  |
|----------------------|--|--|--|

|   |          |              |  |
|---|----------|--------------|--|
| Number of poles                                     |          |              | 8-pole   |
| Electrical characteristics                          |          |              |  |
| Rated operational voltage                           | $U_e$    | V AC         | 690  |
| Rated uninterrupted current                         | $I_u$    | A            | 32   |
| 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      | 35   |
| Rated short-time withstand current (1 s current)    | $I_{cw}$ | $A_{rms}$    | 650  |
| Note on rated short-time withstand current $I_{cw}$ |          |              | Current for a time of 1 second   |
| Rated conditional short-circuit current             | $I_q$    | kA           | 1  |

### Switching capacity

|  |              |               |       |
|--|--------------|---------------|-------|
| $\cos \varphi$ rated making capacity as per IEC 60947-3        |              | A             | 320   |
| Rated breaking capacity $\cos \varphi$ to IEC 60947-3          |              | A             |       |
| 230 V  |              | A             | 260   |
| 400/415 V  |              | A             | 260   |
| 500 V  |              | A             | 240   |
| 690 V  |              | A             | 170   |
| Safe isolation to EN 61140                                     |              |               |       |
| between the contacts   |              | V AC          | 440   |
| Current heat loss per contact at $I_e$                         |              | W             | 1.1   |
| Current heat loss per auxiliary circuit at $I_e$ (AC-15/230 V) |              | CO            | 1.1   |
| 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            | 5.5   |
| 230 V Star-delta   | P            | kW            | 7.5   |
| 400 V 415 V  | P            | kW            | 11    |
| 400 V Star-delta   | P            | kW            | 15    |
| 500 V  | P            | kW            | 15    |
| 500 V Star-delta   | P            | kW            | 18.5  |
| 690 V  | P            | kW            | 11    |
| 690 V Star-delta   | P            | kW            | 22    |
| Rated operational current motor load switch                    |              |               |       |
| 230 V  | $I_e$        | A             | 23.7  |
| 230 V star-delta   | $I_e$        | A             | 32    |
| 400V 415 V   | $I_e$        | A             | 23.7  |
| 400 V star-delta   | $I_e$        | A             | 32    |
| 500 V  | $I_e$        | A             | 23.7  |
| 500 V star-delta   | $I_e$        | A             | 32    |
| 690 V  | $I_e$        | A             | 14.7  |
| 690 V star-delta   | $I_e$        | A             | 25.5  |
| AC-21A   |              |               |       |
| Rated operational current switch                               |              |               |       |
| 440 V  | $I_e$        | A             | 32    |
| AC-23A   |              |               |       |
| Motor rating AC-23A, 50 - 60 Hz                                | P            | kW            |       |
| 230 V  | P            | kW            | 7.5   |
| 400 V 415 V  | P            | kW            | 15    |

|   |                   |                |  |
|---|-------------------|----------------|--|
| 500 V   | P                 | kW             | 15   |
| 690 V   | P                 | kW             | 15   |
| Rated operational current motor load switch   |                   |                |  |
| 230 V   | I <sub>e</sub>    | A              | 32   |
| 400 V 415 V                                   | I <sub>e</sub>    | A              | 32   |
| 500 V   | I <sub>e</sub>    | A              | 26.4   |
| 690 V   | I <sub>e</sub>    | A              | 17   |
| DC  |                   |                |  |
| DC-1, Load-break switches L/R = 1 ms          |                   |                |  |
| Rated operational current                     | I <sub>e</sub>    | A              | 25   |
| Voltage per contact pair in series            |                   | V              | 60   |
| DC-21A  |                   |                |  |
| Rated operational current                     | I <sub>e</sub>    | A              | 1  |
| Contacts                                      |                   | Quantity       | 1  |
| DC-23A, motor load switch L/R = 15 ms         |                   |                |  |
| 24 V  |                   |                |  |
| Rated operational current                     | I <sub>e</sub>    | A              | 25   |
| Contacts                                      |                   | Quantity       | 1  |
| 48 V  |                   |                |  |
| Rated operational current                     | I <sub>e</sub>    | A              | 25   |
| Contacts                                      |                   | Quantity       | 2  |
| 60 V  |                   |                |  |
| Rated operational current                     | I <sub>e</sub>    | A              | 25   |
| Contacts                                      |                   | Quantity       | 3  |
| 120 V   |                   |                |  |
| Rated operational current                     | I <sub>e</sub>    | A              | 12   |
| Contacts                                      |                   | Quantity       | 3  |
| 240 V   |                   |                |  |
| Rated operational current                     | I <sub>e</sub>    | A              | 5  |
| Contacts                                      |                   | Quantity       | 5  |
| DC-13, Control switches L/R = 50 ms           |                   |                |  |
| Rated operational current                     | I <sub>e</sub>    | A              | 20   |
| Voltage per contact pair in series            |                   | V              | 24   |
| 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 (1 - 6)<br>2 x (1 - 6)       |
| Flexible with ferrules to DIN 46228  |  | mm <sup>2</sup> | 1 x (0.75 - 4)<br>2 x (0.75 - 4) |
| Terminal screw                       |  |                 | M4                               |
| Tightening torque for terminal screw |  | Nm              | 1.6                              |

### 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    | 25    |
| Auxiliary contacts               |                |      |       |
| General Use                      | I <sub>U</sub> | A    | 10    |
| Pilot Duty                       |                |      | A 600 |
| Switching capacity               |                |      |       |
| Maximum motor rating             |                |      |       |
| Single-phase                     |                |      |       |

|  |       |             |
|--|-------|-------------|
| 120 V AC                                 | HP    | 1.5         |
| 200 V AC                                 | HP    | 3           |
| 240 V AC                                 | HP    | 3           |
| Three-phase                              |       |             |
| 200 V AC                                 | HP    | 3           |
| 240 V AC                                 | HP    | 3           |
| 480 V AC                                 | HP    | 7.5         |
| 600 V AC                                 | HP    | 10          |
| Short Circuit Current Rating             | SCCR  |             |
| Basic Rating                             | kA    | 5           |
| max. Fuse                                | A     | 40          |
| High fault rating                        | kA    | 10          |
| max. Fuse                                | A     | 40, Class J |
| Terminal capacity                        |       |             |
| Solid or flexible conductor with ferrule | AWG   | 14 - 10     |
| Terminal screw                           |       | M4          |
| Tightening torque                        | lb-in | 17.7        |

## Design verification as per IEC/EN 61439

|  |            |    |     |
|--|------------|----|-----|
| Technical data for design verification   |            |    |     |
| Rated operational current for specified heat dissipation   | $I_n$      | A  | 32  |
| Heat dissipation per pole, current-dependent   | $P_{vid}$  | W  | 1.1 |
| Equipment heat dissipation, current-dependent  | $P_{vid}$  | W  | 0   |
| Static heat dissipation, non-current-dependent   | $P_{vs}$   | W  | 0   |
| Heat dissipation capacity  | $P_{diss}$ | 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.                         |            |    |     |

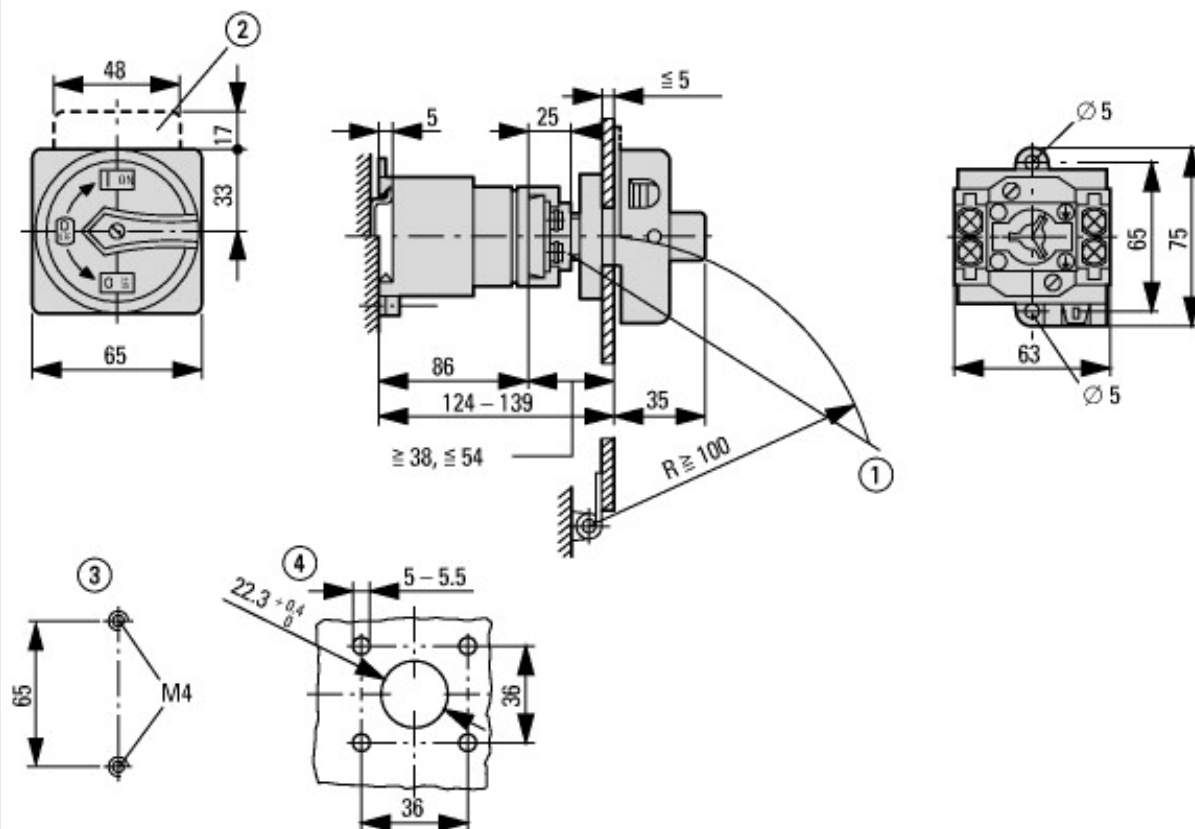
## Technical data ETIM 7.0

| 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 (ec@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  | 32                                       |
| Rated permanent current at AC-23, 400 V  | A  | 32                                       |
| Rated permanent current at AC-21, 400 V  | A  | 32                                       |
| Rated operation power at AC-3, 400 V   | kW | 11                                       |
| Rated short-time withstand current Icw   | kA | 0.65                                     |
| Rated operation power at AC-23, 400 V  | kW | 15                                       |
| Switching power at 400 V   | kW | 15                                       |
| Conditioned rated short-circuit current Iq   | kA | 1  |
| Number of poles  |    | 8  |
| 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   |    | Yes                                      |
| 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                                       |

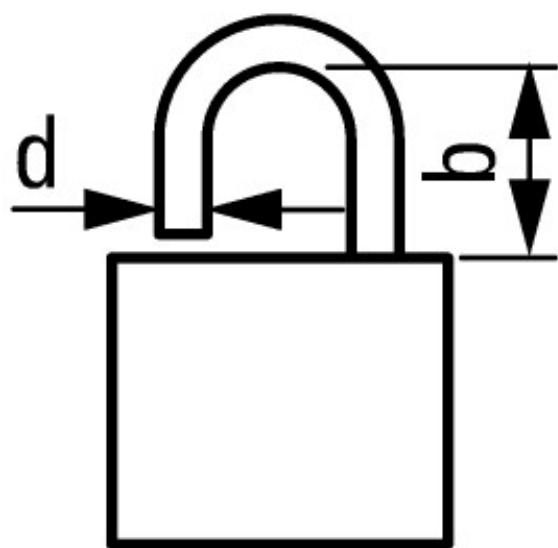
## Approvals

|                             |  |  |
|-----------------------------|--|--|
| 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



- ① Shaft and interlock extension with ZAV-T0 + ZVV-T0 possible, max. 4 x 25 = 100 mm
- ② ZFS-... Label mount not included as standard
- ③ Drilling dimensions base
- ④ Drilling dimensions door



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

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

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

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

≤ 3 padlocks

## Assets (links)

### Declaration of CE Conformity

00003074

### Instruction Leaflets

IL03801021Z2018\_05

## Additional product information (links)

### IL03801021Z (AWA1150-0587) Cam switch: Rear mounting

IL03801021Z (AWA1150-0587) Cam switch: Rear mounting [ftp://ftp.moeller.net/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL03801021Z2018\\_05.pdf](ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801021Z2018_05.pdf)

Display flip catalog page.

<http://ecat.moeller.net/flip-cat/?edition=K115A&startpage=41>

|  |   |
|--|---|
| 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="ftp://ftp.moeller.net/DOCUMENTATION/PDF/MZ008005ZU_Orderform_Customized_Switch.pdf">ftp://ftp.moeller.net/DOCUMENTATION/PDF/MZ008005ZU_Orderform_Customized_Switch.pdf</a>             |
| Ordering form for SOND switches and SOND front plates(DE_EN) | <a href="ftp://ftp.moeller.net/DOCUMENTATION/PDF/MZ008006ZU_Orderform_Customized_Switch.pdf">ftp://ftp.moeller.net/DOCUMENTATION/PDF/MZ008006ZU_Orderform_Customized_Switch.pdf</a>             |