

Type: **T0-2-1/V/SVB**  
 Article No.: **043619**  
 Sales text **ON-OFF SWITCH**



**Ordering information**

|   |  |   |                                     |
|---|--|---|-------------------------------------|
|   |  |   | BME-CAT Fotos                       |
| Produktgruppen-Bezeichnung              |  |   | T0-...                              |
|   |  |   | Load current switches               |
|   |  |   | Main switches, maintenance switches |
| Design                                  |  |   | Rear mounting                       |
| Basic type for ... insert mounting form |  |   | T0-2-1/...                          |
| Mounting form                           |  |   | V/SVB                               |
| No. of poles                            |  | M | 3                                   |
| Description                             |  |   | As Emergency-Stop device            |

**General**

|                             |              |               |  |
|-----------------------------|--------------|---------------|--|
| Standards                   |              |               | IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL<br>Switch-disconnectors to IEC/EN 60947-3<br>Load-break switches to IEC/EN 60947-3 |
| Lifespan, mechanical        | Operations   | $\times 10^6$ | 1  |
| Maximum operating frequency | Operations/h |               | 3000   |
| Climatic proofing           |              |               | Damp heat, constant, to IEC 60068-2-78; Damp heat,   |

|   |                             |    |                             |
|---|-----------------------------|----|-----------------------------|
|   |                             |    | cyclical, to IEC 60068–2–30 |
| Ambient temperature                           |                             |    |                             |
| Open  |                             | °C | –25...50                    |
| Enclosed                                      |                             | °C | –25...40                    |
| Mounting position                             |                             |    | As required                 |
| Mechanical shock resistance to IEC 60068–2–27 | Half-sinusoidal shock 20 ms | g  | > 15                        |

### Contacts

|   |           |              |                      |
|---|-----------|--------------|----------------------|
| Rated operational voltage                           | $U_e$     | V AC         | 690                  |
| Rated impulse withstand voltage                     | $U_{imp}$ | V AC         | 6000                 |
| Overtoltage category/pollution degree               |           |              | III/3                |
| Rated uninterrupted current                         |           |              |                      |
| open  | $I_u$     | A            | 20                   |
| Enclosed  | $I_u$     | A            | 20                   |
| 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      | 20                   |
| Rated short-time withstand current (1 s current)    | $I_{cw}$  | $A_{rms}$    | 320                  |
| Safe isolation to VDE 0106 Part 101 and Part 101/A1 |           |              |                      |
| between the contacts                                |           | V AC         | 440                  |
| Switching angles                                    |           | °            | 90<br>60<br>45<br>30 |
| Contact units                                       |           |              | 11                   |
| Double-break contacts                               |           |              | max. 22              |
| Current heat loss per contact at $I_e$              |           | W            | 0,6                  |

### Terminal capacities

|                                    |  |                 |                                      |
|------------------------------------|--|-----------------|--------------------------------------|
| Solid or stranded                  |  | mm <sup>2</sup> | 1 × (1 – 2.5)<br>2 × (1 – 2.5)       |
| Flexible with ferrule to DIN 46228 |  | mm <sup>2</sup> | 1 × (0.75 – 1.5)<br>2 × (0.75 – 1.5) |
| Terminal screw                     |  |                 | M3.5                                 |

|   |       |    |     |
|---|-------|----|-----|
| Tightening torque   |       | Nm | 1   |
| <b>Switching capacity</b>                                       |       |    |     |
| AC  |       |    |     |
| Rated making capacity $\cos \phi = 0.35$                        |       | A  | 130 |
| Rated breaking capacity, motor load switch $\cos \phi = 0.35$   |       |    |     |
| 230 V   |       | A  | 100 |
| 400 V   |       | A  | 110 |
| 500 V   |       | A  | 80  |
| 690 V   |       | A  | 60  |
| Rated operational current 440 V load-break switch AC-21A        | $I_e$ | A  | 20  |
| AC-3 motor load switch motor rating                             |       |    |     |
| 230 V   | $P$   | kW | 3   |
| 230 V Star-delta  | $P$   | kW | 4   |
| 400 V   | $P$   | kW | 4   |
| 400 V Star-delta  | $P$   | kW | 5,5 |
| 500 V   | $P$   | kW | 5,5 |
| 500 V Star-delta  | $P$   | kW | 7,5 |
| 690 V   | $P$   | kW | 4   |
| 690 V Star-delta  | $P$   | kW | 5,5 |
| AC-23A Motor load switches (main switches maintenance switches) |       |    |     |
| 230 V   | $P$   | kW | 3,5 |
| 400 V   | $P$   | kW | 6,5 |
| 500 V   | $P$   | kW | 13  |
| Rated operational current control switch AC-15                  |       |    |     |
| 230 V   | $I_e$ | A  | 6   |
| 400 V   | $I_e$ | A  | 4   |
| 500 V   | $I_e$ | A  | 2   |
| DC  |       |    |     |
| DC-1, Load-break switches L/R = 1 ms                            |       |    |     |
| Rated operational current                                       | $I_e$ | A  | 10  |
| Voltage per contact pair in series                              |       | V  | 60  |
| DC-21A  |       |    |     |

|   |                   |                |   |
|---|-------------------|----------------|---|
| Rated operational current 240 V               | $I_e$             | A              | 1   |
| 240 V Contacts                                |                   | Quantity       | 1   |
| DC–23A, motor load switch L/R = 15 ms         |                   |                |   |
| 24 V  |                   |                |   |
| Rated operational current                     | $I_e$             | A              | 10  |
| Contacts                                      |                   | Quantity       | 1   |
| 48 V  |                   |                |   |
| Rated operational current                     | $I_e$             | A              | 10  |
| Contacts                                      |                   | Quantity       | 2   |
| 60 V  |                   |                |   |
| Rated operational current                     | $I_e$             | A              | 10  |
| Contacts                                      |                   | Quantity       | 3   |
| 120 V   |                   |                |   |
| Rated operational current                     | $I_e$             | A              | 5   |
| Contacts                                      |                   | Quantity       | 3   |
| 240 V   |                   |                |   |
| Rated operational current                     | $I_e$             | A              | 5   |
| Contacts                                      |                   | Quantity       | 5   |
| DC–13, Control switches L/R = 50 ms           |                   |                |   |
| Rated operational current                     | $I_e$             | A              | 10  |
| Voltage per contact pair in series            |                   | V              | 32  |
| Control circuit reliability at 24 V DC, 10 mA | Fault probability | H <sub>F</sub> | < 10 <sup>-5</sup> , < 1 fault in 100000 operations |

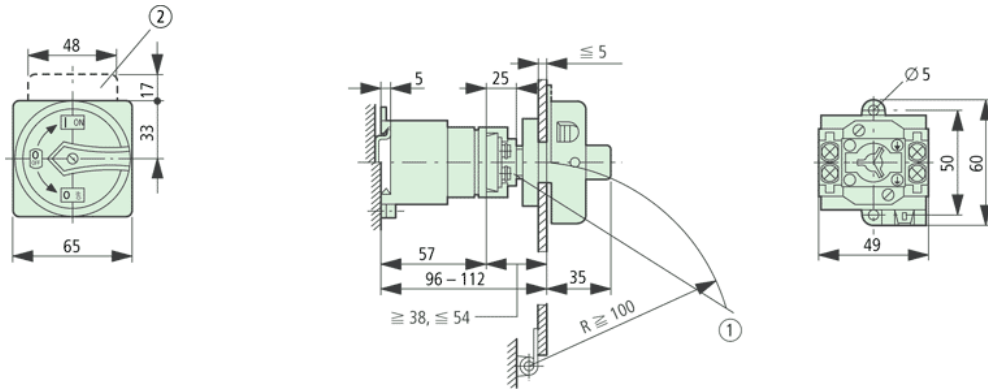
## Notes

### Notes

For mechanical shock resistance: T3.../I... >12g  
Applies to T0(3).../SVB: isolating characteristics to IEC/EN 60947 *U* for rated operational voltage up to 500 V AC  
Applies to rated uninterrupted current  $I_u$  of the contact: with T5–4–8344/I5 max. 95 A  
For terminal capacity solid, stranded and flexible:  
T0(3), (6), (8)...: Maximum of 2 cross-section sizes difference admissible between 2 conductors  
T5(B)–...: Maximum of 1

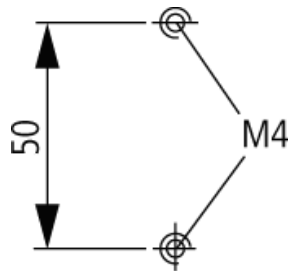
cross-section size difference admissible between 2 conductors  
 For type T8-3-8342/... the following applies: switching angle = 90° and flat connection = 1 busbar 25 × 5 or 2 busbars 20 × 3

**Dimensions**



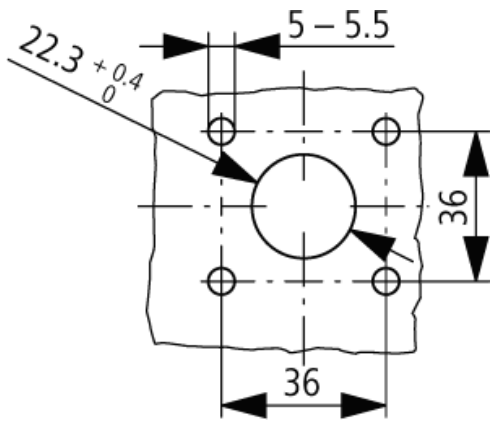
Extension can be extended using ZVV-T0 + ZAV-T0, max.  $4 \times 25 = 100$  mm not included  
 Depth of a contact unit: 9.5 mm

**Dimensions**



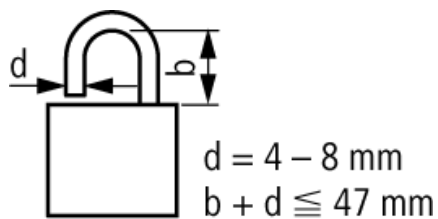
Diameter of drilled hole Bottom

**Dimensions**



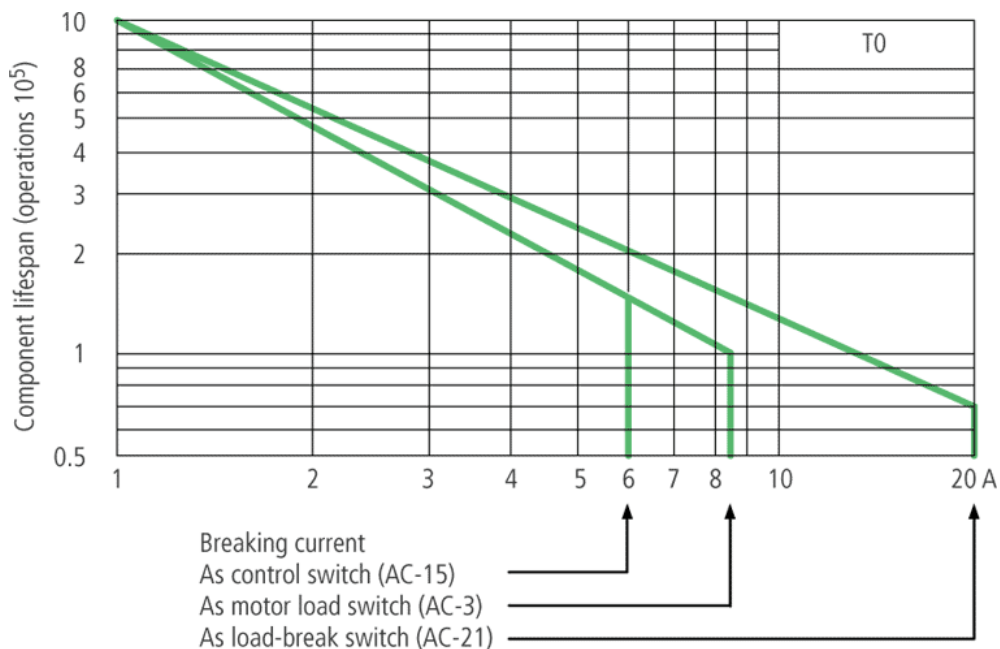
Diameter of drilled hole Door

### Dimensions



3 padlocks

### Characteristic curve



For utilisation category AC-4 (extreme load: 100 % inching, reversing or plugging)  
 The blocked rotor current of the motor should not exceed the rated current of the switch for AC-21A to ensure a reasonable device lifespan.

Moeller GmbH, Hein-Moeller-Str. 7-11, D-53115 Bonn  
E-Mail: [catalog@moeller.net](mailto:catalog@moeller.net), Internet: [www.moeller.net](http://www.moeller.net), <http://catalog.moeller.net>  
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