# Flush mounting

## Product group data T3-...

### General

| | | | |
|---|---|---|---|
| Standards and specifications | | | IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL,<br>Switch-disconnector to IEC/EN 60947-3<br>Load-break switch to IEC/EN 60947-3 |
| Lifespan, mechanical | Operations | × $10^6$ | 0,5 |
| Maximum operating frequency | Operations/h | | 3000 |
| Climatic proofing | | | Damp heat, constant, to IEC 60 068 Part -2--3 Damp heat, cyclical, to IEC 60068 Part -2--30 |
| Ambient temperature | | | |
| Open | | C | -25/50 |
| enclosed | | C | -25/40 |
| Mounting position | | | As required |
| Mechanical shock resistance (shock duration 20 ms) | | g | 15 |

### Contacts

| | | | |
|---|---|---|---|
| Rated operational voltage | $U_e$ | V AC | 690 |
| Rated impulse withstand voltage | $U_{imp}$ | V AC | 6000 |
| Overvoltage category/pollution degree | | | III/3 |
| Rated uninterrupted current | | | |
| open | $I_u$ | A | 32 |
| Enclosed | $I_u$ | A | 32 |
| Load-carrying capacity in intermittent operation, Class 12 | | | |
| AB 25 % DF | | × $I_e$ | 2 |
| AB 40 % DF | | × $I_e$ | 1,6 |
| AB 60 % DF | | × $I_e$ | 1,3 |
| Short-circuit rating | | | |
| Fuse | | A gG/gL | 35 |
| Rated short-time withstand current (1 s current) | $I_{cw}$ | $A_{eff}$ | 650 |
| Safe isolation to VDE 0106 Part 101 and Part 101/A1 | | | |
| between the contacts | | V AC | 440 |
| Protection against direct contact | | | Finger and back-of-hand proof to IEC 100 |
| 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 | 1,1 |

### Terminal capacity

| | | | |
|---|---|---|---|
| Solid or stranded | | $mm^2$ | 1 × (1 – 6)<br>2 × (1 – 6) |
| Terminal capacities flexible with ferrule DIN 46228 | | $mm^2$ | 1 × (0,75 – 4)<br>2 × (0,75 – 4) |
| Terminal screw | | | M4 |
| Tightening torque | | Nm | 1,6 |

### Switching capacity

| | | | |
|---|---|---|---|
| AC | | | |
| Rated making capacity *cos* φ = 0.35 | | A | 320 |
| Rated breaking capacity Motor load switches cos φ = 0,35 | | | |
| 230 V | | A | 260 |
| 400 V | | A | 260 |
| 500 V | | A | 240 |
| 690 V | | A | 170 |
| Rated operational current Load-break switch AC-21A 440 V | $I_e$ | A | 32 |
| AC-3 Motor load switches, for operational switching | | | |
| 230 V | *P* | kW | 1,8 |
| 230 V Star-delta | *P* | kW | 11 |
| 400 V | *P* | kW | 3,6 |
| 400 V Star-delta | *P* | kW | 18,5 |
| 500 V | *P* | kW | 15 |
| 500 V Star-delta | *P* | kW | 22 |
| 690 V | *P* | kW | 0 |
| 690 V Star-delta | *P* | kW | 22 |

| | | | |
|---|---|---|---|
| AC-23A Motor load switches (main switches maintenance switches) | | | |
| 230 V | *P* | kW | 7,5 |
| 400 V | *P* | kW | 13 |
| 500 V | *P* | kW | 15 |
| AC-15 Control switches Rated operational current | | | |
| 230 V | $I_e$ | A | 10 |
| 400 V | $I_e$ | A | 6 |
| 500 V | $I_e$ | A | 4 |
| DC | | | |
| DC-1, Load-break switches L/R = 1 ms | | | |
| Rated operational current | $I_e$ | A | 25 |
| 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 switches L/R = 15 ms | | | |
| 24 V | | | |
| Rated operational current | $I_e$ | A | 25 |
| Contacts | | Quantity | 1 |
| 48 V | | | |
| Rated operational current | $I_e$ | A | 25 |
| Contacts | | Quantity | 2 |
| 60 V | | | |
| Rated operational current | $I_e$ | A | 25 |
| Contacts | | Quantity | 3 |
| 120 V | | | |
| Rated operational current | $I_e$ | A | 12 |
| 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 | 20 |
| Voltage per contact pair in series | | V | 32 |
| Control circuit reliability at 24 V DC, 10 mA | Fault probability | $H_F$ | $< 10^{-5}$, < 1 fault in 100000 operations |

## Notes

For rated operational voltage: Isolating characteristics to IEC/EN 60947 for construction type .../SVB up to 500 VAC.

For solid, stranded or flexible terminal capacities:

T0(3), (6), (8)...: Max. 2 cross-section sizes difference admissible when using 2 conductors

T5(B)-...: Max. 1 cross-section size difference admissible when using 2 conductors

T3.../I... >12 g

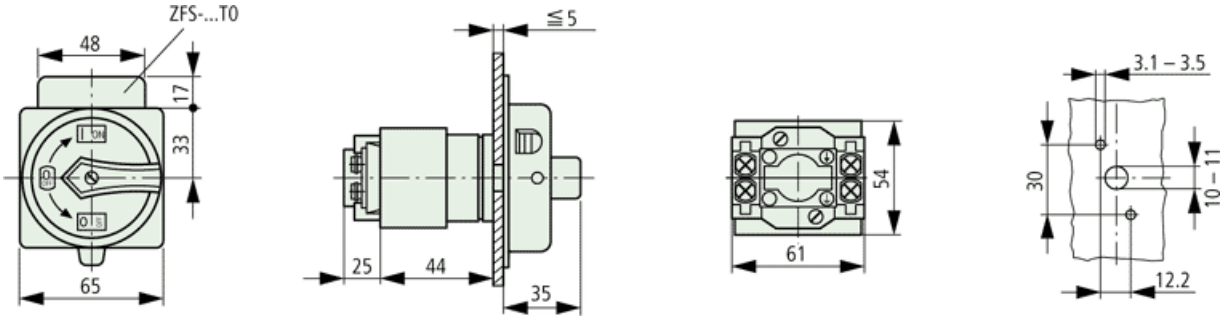
T0(3): Isolating characteristics to IEC/EN 60947 for construction type.../SVB Rated operational voltage $U_e$ bis 500 V AC

## Dimensions

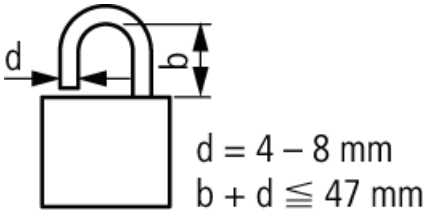
Depth of one contact unit: 11.5 mm

≦ 3 Padlocks

**Dimensions**




Depth of one contact unit: 11.5 mm




≦ 3 Padlocks