



I(G)/SVB main switch

Part no.

T5B-4-15682/14/SVB-SW

Article no.

207247



IP 65

IP 65

Delivery programme

| | | Without Emergency-Stop function | |
|---|----------------------|---------------------------------|------------------|
| | | With auxiliary contacts | |
| Contact sequence | | | |
| Main conducting paths | | | |
| No. of poles | | M | 6 |
| Auxiliary contacts | | N/O | 1 |
| | | B | 1 |
| Max. motor rating | | | |
| AC-23A | | | |
| 400/415 V 50-60 Hz | <i>P</i> | kW | 22 |
| Rated uninterrupted current | <i>I_u</i> | A | 63 |
| Design | | | Surface mounting |
| Note for table header With black rotary handle and locking collar, lockable in the 0 position | | | |

General

| | | | |
|---|--------------------------------|---------------|--|
| Standards | | | IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL Switch-disconnectors to IEC/EN 60947-3 Load-break switches to IEC/EN 60947-3 |
| Lifespan, mechanical | Operations | $\times 10^6$ | 0.5 |
| 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 | | °C | |
| 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 | <i>U_e</i> | V AC | 690 |
| Rated impulse withstand voltage | <i>U_{imp}</i> | V AC | 6000 |
| Overvoltage category/pollution degree | | | III/3 |
| Rated uninterrupted current | <i>I_u</i> | A | |
| open | <i>I_u</i> | A | 63 |
| Enclosed | <i>I_u</i> | A | 63 |
| 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 | 80 |
| Rated short-time withstand current (1 s current) | <i>I_{cw}</i> | <i>A_{rms}</i> | 1300 |

| | | | |
|---|--|------|----------------------|
| Safe isolation to VDE 0106 Part 101 and Part 101/A1 | | | |
| between the contacts | | V AC | 440 |
| Switching angles | | ° | 90 60 45 30 |
| Contact units | | | 10 |
| Double-break contacts | | | max. 20 |
| Current heat loss per contact at I_e | | W | 4.5 |

Terminal capacities

| | | | |
|------------------------------------|--|-----------------|----------------------------------|
| Solid or stranded | | mm ² | 1 × (2.5 – 35) 2 × (2.5 – 16) |
| Flexible with ferrule to DIN 46228 | | mm ² | 1 × (1.5 – 25) 2 × (1.5 – 10) |
| Terminal screw | | | M6 |
| Tightening torque | | Nm | 4 |

Switching capacity

| | | | |
|--|-------|----------|-----|
| AC | | × U_s | |
| Rated making capacity $\cos \varphi = 0.35$ | | A | 800 |
| Rated breaking capacity, motor load switch $\cos \varphi = 0.35$ | | A | |
| 230 V | | A | 520 |
| 400 V | | A | 600 |
| 500 V | | A | 480 |
| 690 V | | A | 340 |
| Rated operational current 440 V load-break switch AC-21A | I_e | A | 63 |
| AC-23A Motor load switches (main switches maintenance switches) | P | kW | |
| 230 V | P | kW | 15 |
| 400 V | P | kW | 22 |
| 500 V | P | kW | 22 |
| 690 V | P | kW | 22 |
| Rated operational current control switch AC-15 | | | |
| 230 V | I_e | A | 16 |
| 400 V | I_e | A | 6 |
| 500 V | I_e | A | 4 |
| DC | | × U_s | |
| DC-1, Load-break switches L/R = 1 ms | | | |
| Rated operational current | I_e | 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_e | A | 50 |
| Contacts | | Quantity | 1 |
| 48 V | | | |
| Rated operational current | I_e | A | 50 |
| Contacts | | Quantity | 2 |
| 60 V | | | |
| Rated operational current | I_e | A | 50 |
| Contacts | | Quantity | 3 |
| 120 V | | | |
| Rated operational current | I_e | A | 25 |
| Contacts | | Quantity | 3 |
| 240 V | | | |
| Rated operational current | I_e | A | 20 |
| Contacts | | Quantity | 6 |
| DC-13, Control switches L/R = 50 ms | | | |
| Rated operational current | I_e | A | 25 |

Voltage per contact pair in series

V

24

Control circuit reliability at 24 V DC, 10 mA

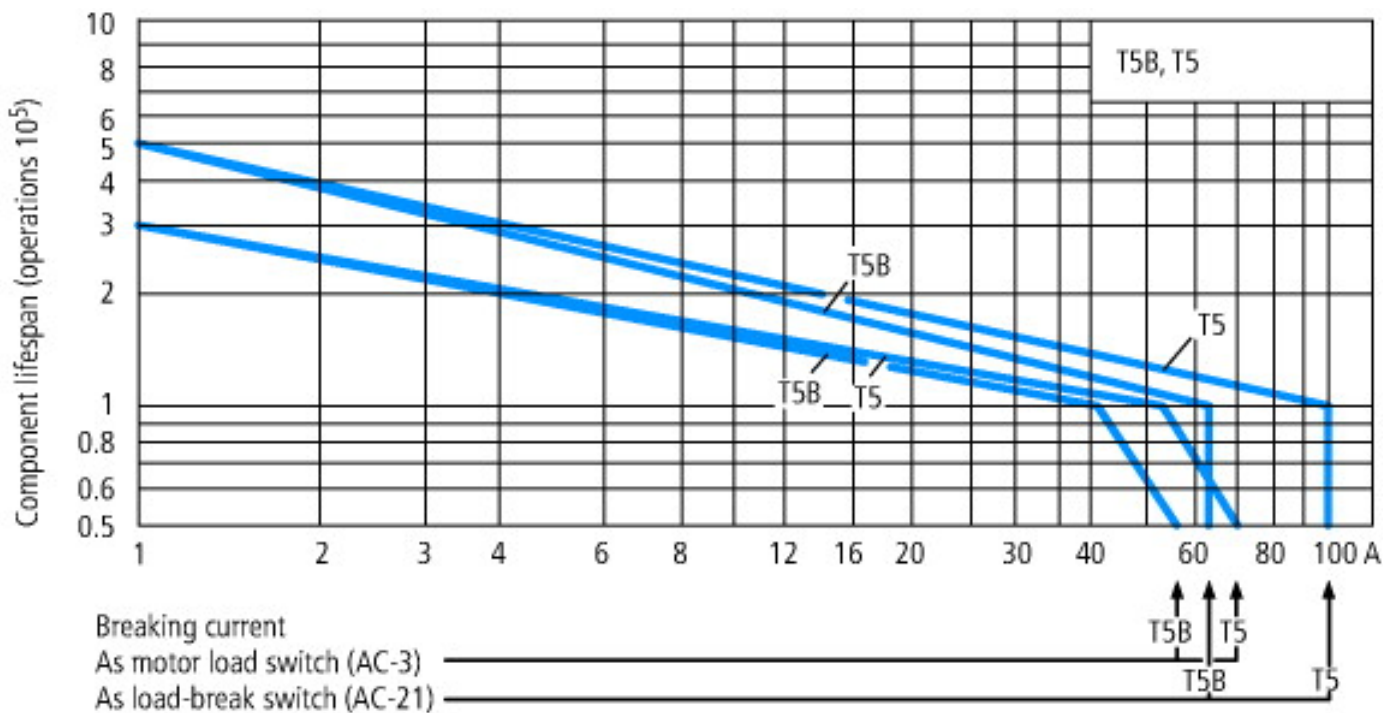
Fault probability

H_F

$< 10^{-5}$, < 1 fault in 100000 operations

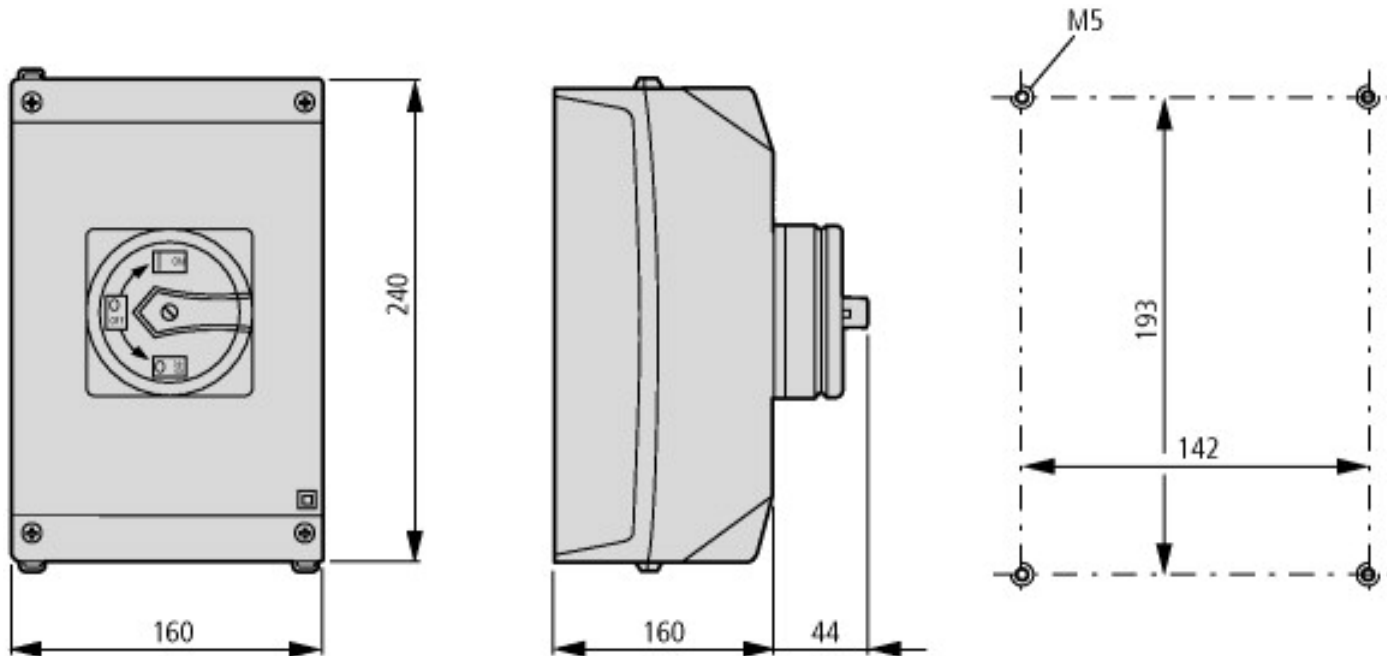
Notes

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 T5-4-8344/15 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

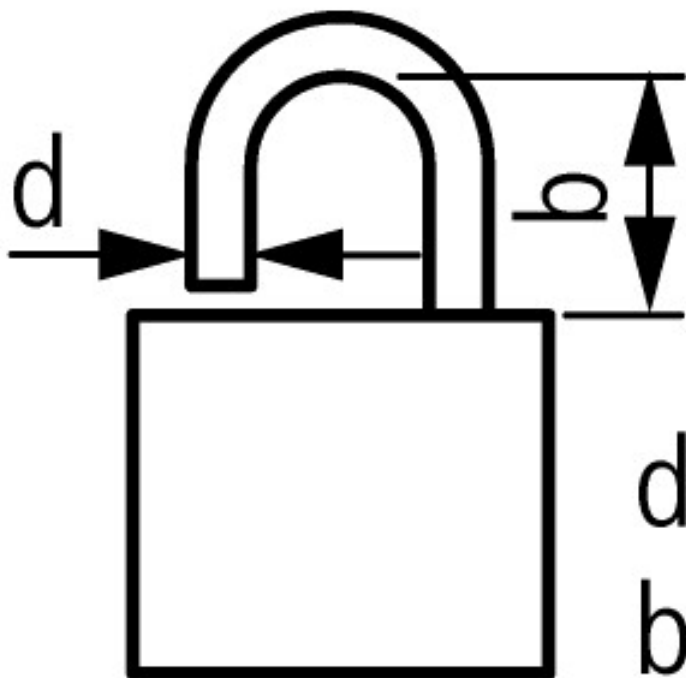


For utilisation category AC-4 (extreme load: 100 % inching, reversing or plugging)
 The blocked rotor current of the motor should not exceed the rated current of the switch for AC-21A to ensure a reasonable device lifespan.

Dimensions




Depth of one contact unit: 16.5 mm
 The rotary switches T5B and T5 are of identical design but differ in their contacts.



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

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

 3 Padlocks

Additional product information (links)

Installation instructions

AWA1150-1692 Rotary switch

ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/16920808.pdf