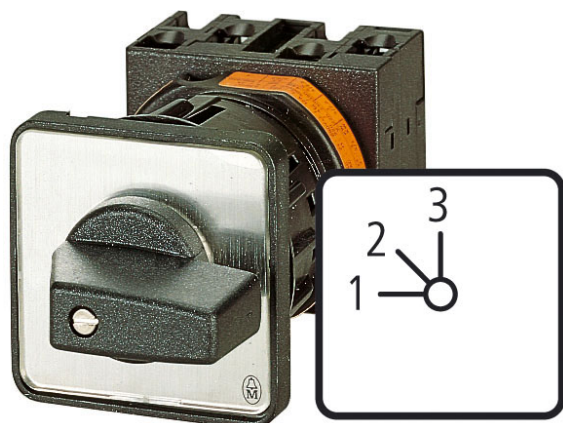


Type: **T0-2-8230/E**  
Article No.: **088685**



With black thumb-grip and grey front plate

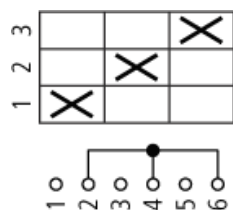
One contact closed per step

(without overlap)

### Ordering information

|             |  |  |                          |
|-------------|--|--|--------------------------|
| Design      |  |  | Flush mounting           |
| Description |  |  | Without 0 (Off) position |
| Pole        |  |  | 1                        |

### Contact sequence



### Front plate no.



### General

|           |  |  |                                                                                                                         |
|-----------|--|--|-------------------------------------------------------------------------------------------------------------------------|
| Standards |  |  | IEC/EN 60947, VDE 0660,<br>IEC/EN 60204, CSA, UL<br>Switch-disconnectors to<br>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                                                                    |
| Documentation                                         |              |               | Main catalogue HPL                                                             |
| Mechanical shock resistance<br>(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            | 20                   |
| Enclosed                                                   | $I_u$     | A            | 20                   |
| Load-carrying capacity in 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              | 11                                   |
| 500 V                                                           | $P$   | kW              | 7,5                                  |
| 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 switches 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 | $H_F$    | $< 10^{-5}$ , < 1 fault in 100000 operations |

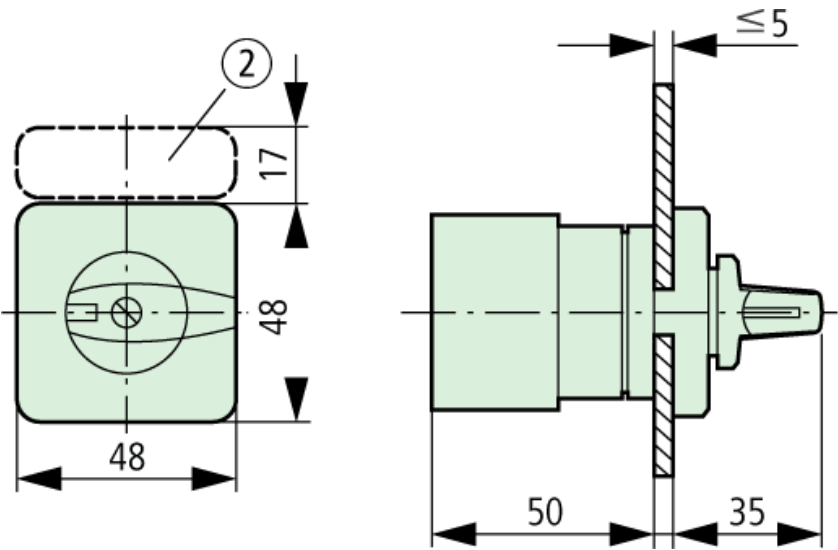
## Notes

|  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                      |
|--|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  |  | <p>For mechanical shock resistance: T3.../I... &gt;12g<br/> Applies to T0(3).../SVB: isolating characteristics to IEC/EN 60947 <math>U</math> for rated operational voltage up to 500 V AC<br/> Applies to rated uninterrupted current <math>I_u</math> of the contact: with T5-4-8344/I5 max. 95 A<br/> For terminal capacity solid, stranded and flexible:<br/> T0(3), (6), (8)...: Maximum of</p> |
|--|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

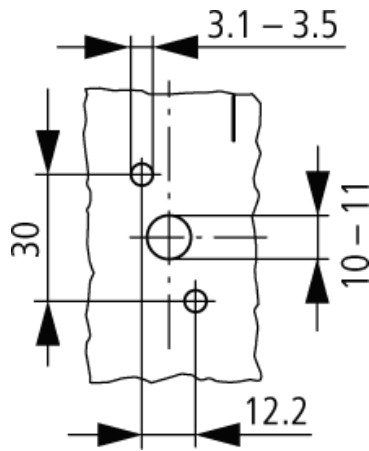
|  |  |  |                                                                                                                                                                                                                                                                                                           |
|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  |  | <p>2 cross-section sizes difference admissible between 2 conductors</p> <p>T5(B)-...: Maximum of 1 cross-section size difference admissible between 2 conductors</p> <p>For type T8-3-8342/... the following applies: switching angle = 90° and flat connection = 1 busbar 25 × 5 or 2 busbars 20 × 3</p> |
|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Dimensions  |  |  |                                                                                                                                                                                                                                              |
|-------------|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             |  |  | not included                                                                                                                                                                                                                                 |
|             |  |  | Diameter of drilled hole Door                                                                                                                                                                                                                |
| Explanation |  |  | <p>For utilisation category AC-4 (extreme load: 100 % inching, reversing or plugging)</p> <p>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.</p> |

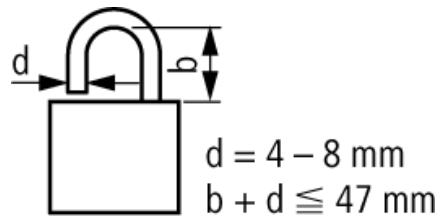
Dimensions



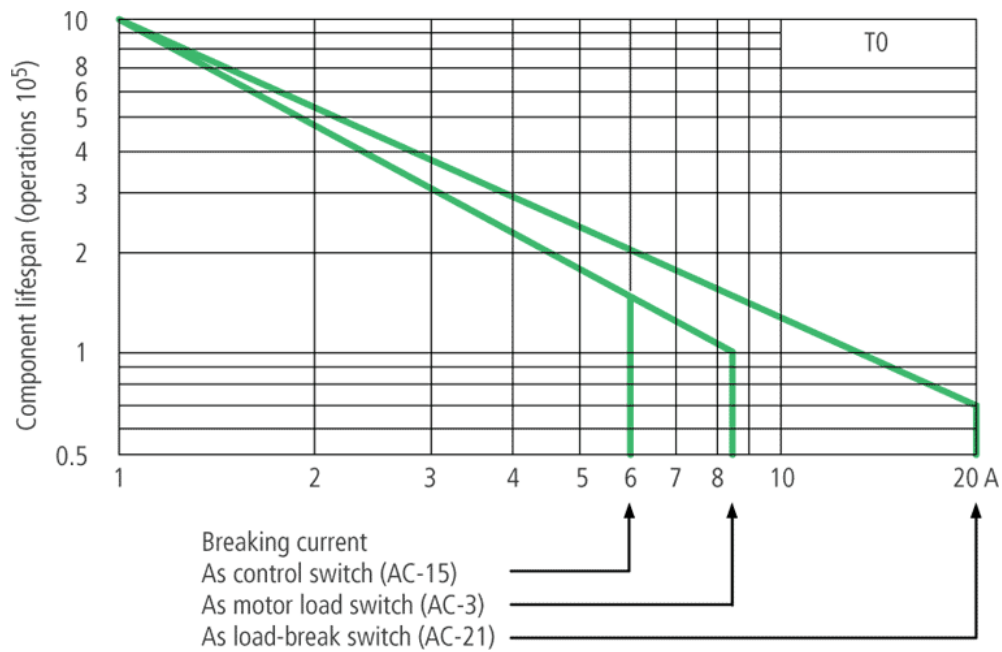
Dimensions



## Dimensions



## Characteristic curve



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