

Type: **T0-2-8211/I1**  
 Article No.: **207102**

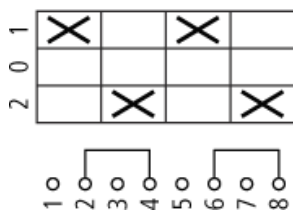


With black thumb-grip and grey front plate

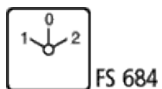
### Ordering information

|                                                                                        |                      |    |                       |
|----------------------------------------------------------------------------------------|----------------------|----|-----------------------|
| Design                                                                                 |                      |    | Surface mounting      |
| Description                                                                            |                      |    | With 0 (Off) position |
| No. of poles                                                                           |                      | M  | 2                     |
| Max. three-phase motor rating (per set of 3 contacts) 50-60 Hz AC-3 400/415 V 50-60 Hz | <i>P</i>             | kW | 11                    |
| Rated uninterrupted current                                                            | <i>I<sub>u</sub></i> | A  | 20                    |
| Description                                                                            |                      |    | With 0 (Off) position |

### Contact sequence



### Front plate no.



## 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   | $\times 10^6$ | 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 (shock duration 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-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 |

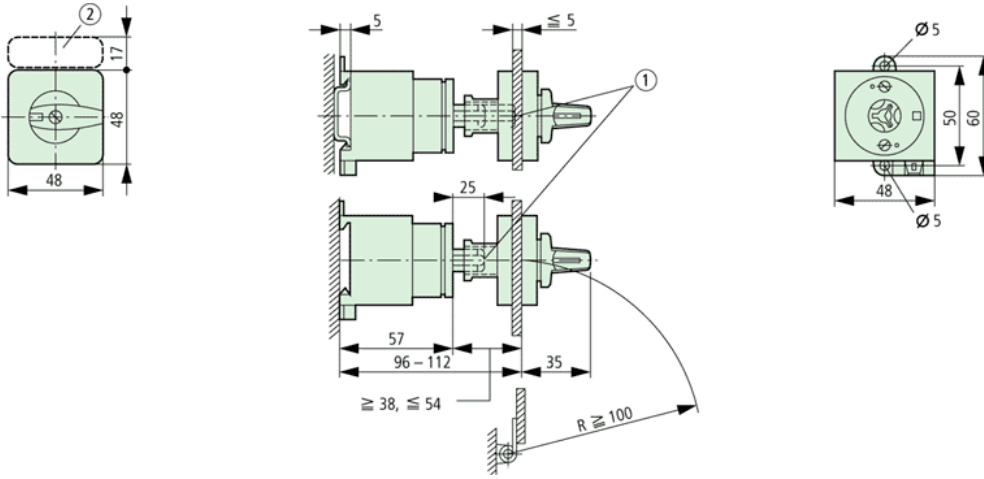
|                                                                 |       |                 |                                      |
|-----------------------------------------------------------------|-------|-----------------|--------------------------------------|
|                                                                 |       |                 | 30                                   |
| Contact units                                                   |       |                 | 11                                   |
| Double-break contacts                                           |       |                 | max. 22                              |
| Current heat loss per contact at $I_e$                          |       | W               | 0,6                                  |
| <b>Terminal capacities</b>                                      |       |                 |                                      |
| 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              | 2,2                                  |
| 230 V Star-delta                                                | $P$   | kW              | 4                                    |
| 400 V                                                           | $P$   | kW              | 2,2                                  |
| 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                                                                                                                    |
| <b>Notes</b>                                  |                   |          |                                                                                                                                                                 |
|                                               |                   |          | For mechanical shock resistance: T3.../I... >12g<br>Applies to T0(3).../SVB: isolating characteristics to IEC/EN 60947 Ufor rated operational voltage up to 500 |

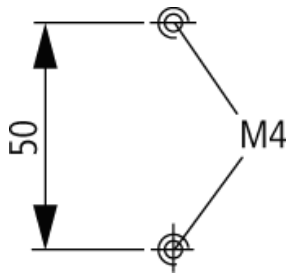
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|-------------------|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   |  |  | <p>V AC</p> <p>Applies to rated uninterrupted current <math>I_u</math> of the contact: with T5-4-8344/I5 max. 95 A</p> <p>For terminal capacity solid, stranded and flexible:<br/> T0(3), (6), (8)...: Maximum of 2 cross-section sizes difference admissible between 2 conductors<br/> 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> |
| <b>Dimensions</b> |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                   |  |  | Extension possible with ZVV-T0, max. 4 × 25 = 100 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                   |  |  | Diameter of drilled hole Bottom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                   |  |  | 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>                                                                                                                                                                                                                                                                           |

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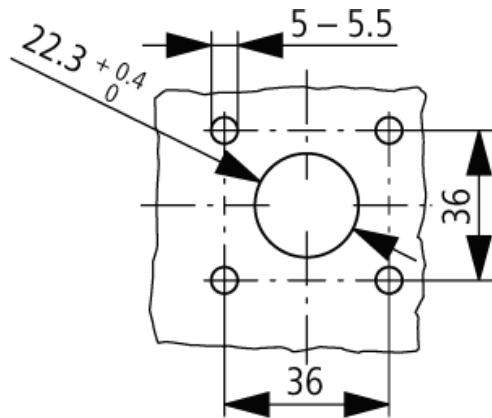
## Dimensions



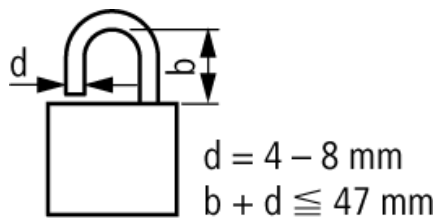
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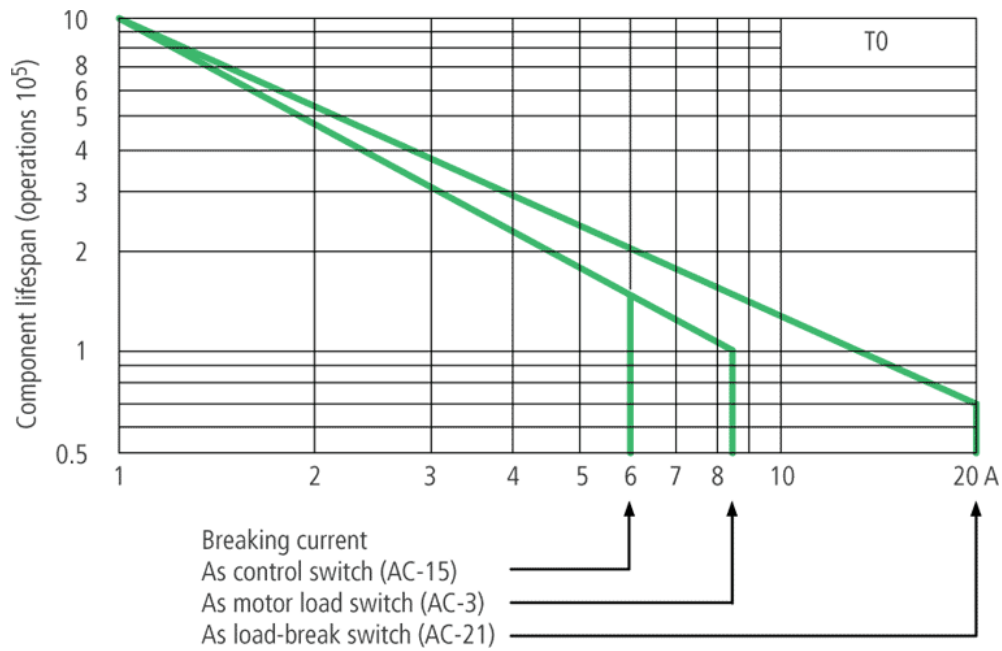
### Dimensions



### Dimensions



### Characteristic curve



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