# DATASHEET - T0-2-1/I2H/MBS/SVB



Main switch, 3-pole, 20A, Emergency-Stop function, 90 °, surface mounting, hard knockout version, with mounting plate screen



T0-2-1/I2H/MBS/SVB Part no. 182425 Catalog No.

**EL-Nummer** (Norway)

0001400401

| Delivery program                       |                |                    |   |
|--|----------------|--------------------|---|
| Product range                          |                |                    | Main switch<br>maintenance switch<br>Repair switch                              |
| Part group reference                   |                |                    | ТО  |
| Stop Function                          |                |                    | Emergency switching off function  |
|  |                |                    | With red rotary handle and yellow locking ring                                  |
| Notes                                  |                |                    | hard knockout version with assembly sheet screen                                |
| Number of poles                        |                |                    | 3 pole  |
| Locking facility                       |                |                    | Lockable in the 0 (Off) position  |
| Degree of Protection                   |                |                    | IP65  |
|  |                |                    | totally insulated   |
| Design                                 |                |                    | surface mounting  |
|  |                |                    |   |
| Contact sequence                       |                |                    | 0   |
| Switching angle                        |                | 0                  | 90  |
| Function                               |                |                    | ION<br>O OFF  |
| Motor rating AC-23A, 50 - 60 Hz        |                |                    |   |
| 400 V                                  | Р              | kW                 | 5.5   |
| Rated uninterrupted current            | I <sub>u</sub> | Α                  | 20  |
| Note on rated uninterrupted current !u |                |                    | Rated uninterrupted current $I_{\text{u}}$ is specified for max. cross-section. |
| Number of contact units                |                | contact<br>unit(s) | 2   |

## **Technical data**

| General                               |           |      |   |
|---------------------------------------|-----------|------|---|
| Standards                             |           |      | IEC/EN 60947, VDE 0660, IEC/EN 60204<br>Switch-disconnector according to IEC/EN 60947-3 |
| Climatic proofing                     |           |      | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30          |
| Ambient temperature                   |           |      |   |
| Enclosed                              |           | °C   | -20 - +40   |
| Overvoltage category/pollution degree |           |      | III/3   |
| Rated impulse withstand voltage       | $U_{imp}$ | V AC | 6000  |
| Mechanical shock resistance           |           | g    | 15  |

| Mounting position   |                 |                   | As required  |
|---|-----------------|-------------------|--|
| Contacts  |                 |                   | 1.14   |
| Mechanical variables  |                 |                   |  |
| Number of poles   |                 |                   | 3 pole   |
| Electrical characteristics  |                 |                   |  |
| Rated operational voltage   | U <sub>e</sub>  | V AC              | 690  |
| Rated uninterrupted current   | lu              | Α                 | 20   |
| Note on rated uninterrupted current !u                                  |                 |                   | Rated uninterrupted current $I_u$ is specified for max. cross-section. |
| Load rating with intermittent operation, class 12                       |                 |                   |  |
| AB 25 % DF  |                 | x l <sub>e</sub>  | 2  |
| AB 40 % DF  |                 | x I <sub>e</sub>  | 1.6  |
| AB 60 % DF  |                 | x l <sub>e</sub>  | 1.3  |
|   |                 | x ie              | 1.0  |
| Short-circuit rating  |                 | A = C/=1          | 20   |
| Fuse  |                 | A gG/gL           |  |
| Rated short-time withstand current (1 s current)                        | I <sub>cw</sub> | A <sub>rms</sub>  | 320  |
| Note on rated short-time withstand current lcw                          |                 |                   | Current for a time of 1 second   |
| Rated conditional short-circuit current                                 | Iq              | kA                | 6  |
| Switching capacity cos φ rated making capacity as per IEC 60947-3       |                 | Α                 | 130  |
| Rated breaking capacity cos φ to IEC 60947-3                            |                 | A                 |  |
| 230 V   |                 | A                 | 100  |
| 230 V<br>400/415 V  |                 | A                 | 110  |
| 500 V   |                 | A                 | 80   |
| 690 V   |                 | A                 | 60   |
| Safe isolation to EN 61140  |                 | A                 |  |
| between the contacts  |                 | V AC              | 440  |
| Current heat loss per contact at I <sub>e</sub>                         |                 | W                 | 0.6  |
|   |                 |                   |  |
| Current heat loss per auxiliary circuit at I <sub>e</sub> (AC-15/230 V) |                 | CO                | 0.6  |
| Lifespan, mechanical  | Operations      | x 10 <sup>6</sup> | > 0.4  |
| Maximum operating frequency   | Operations/h    |                   | 1200   |
| AC  |                 |                   |  |
| AC-3  |                 |                   |  |
| Rating, motor load switch   | Р               | kW                |  |
| 220 V 230 V   | Р               | kW                | 3  |
| 230 V Star-delta  | Р               | kW                | 5.5  |
| 400 V 415 V   | Р               | kW                | 5.5  |
| 400 V Star-delta  | Р               | kW                | 7.5  |
| 500 V   | Р               | kW                | 5.5  |
| 500 V Star-delta  | Р               | kW                | 7.5  |
| 690 V   | P               | kW                | 4  |
| 690 V Star-delta  | P               | kW                | 5.5  |
| Rated operational current motor load switch                             |                 |                   |  |
| 230 V   | l <sub>e</sub>  | Α                 | 11.5   |
| 230 V star-delta  | I <sub>e</sub>  | Α                 | 20   |
| 400V 415 V  | le              | Α                 | 11.5   |
| 400 V star-delta  | I <sub>e</sub>  | Α                 | 20   |
| 500 V   | I <sub>e</sub>  | Α                 | 9  |
| 500 V star-delta  | I <sub>e</sub>  | Α                 | 15.6   |
| 690 V   | I <sub>e</sub>  | Α                 | 4.9  |
| 690 V star-delta  |                 | A                 | 8.5  |
| AC-21A  | l <sub>e</sub>  | ^                 |  |
|   |                 |                   |  |
| Rated operational current switch  |                 | ۸                 | 20   |
| 440 V   | l <sub>e</sub>  | Α                 | 20   |
| AC-23A  |                 |                   |  |

| Terminal screw  |                   |                 | M3.5   |
|---|-------------------|-----------------|--|
|   |                   |                 | M3.5   |
| Rating data for approved types Terminal capacity                |                   |                 |  |
| Notes   |                   |                 | B10 <sub>d</sub> values as per EN ISO 13849-1, table C1  |
| Technical safety parameters:                                    |                   |                 | Pula Linea L |
| Tightening torque for terminal screw                            |                   | Nm              | 1  |
| Terminal screw  |                   |                 | M3.5   |
| Flexible with ferrules to DIN 46228                             |                   | mm <sup>2</sup> | 1 x (0.75 - 2.5)<br>2 x (0.75 - 2.5)   |
| Solid or stranded   |                   | mm <sup>2</sup> | 1 x (1 - 2,5)<br>2 x (1 - 2,5)   |
| Terminal capacities   | probability       |                 |  |
| Control circuit reliability at 24 V DC, 10 mA                   | Fault probability | H <sub>F</sub>  | < 10 <sup>-5</sup> , < 1 fault in 100000 operations  |
| Voltage per contact pair in series                              |                   | V               | 32   |
| Rated operational current                                       | l <sub>e</sub>    | Α               | 10   |
| DC-13, Control switches L/R = 50 ms                             |                   |                 |  |
| Contacts  |                   | Quantity        | 5  |
| Rated operational current                                       | I <sub>e</sub>    | Α               | 5  |
| 240 V   |                   |                 |  |
| Contacts  |                   | Quantity        | 3  |
| Rated operational current                                       | I <sub>e</sub>    | Α               | 5  |
| 120 V   |                   |                 |  |
| Contacts  |                   | Quantity        | 3  |
| Rated operational current                                       | I <sub>e</sub>    | Α               | 10   |
| 60 V  |                   |                 |  |
| Contacts  |                   | Quantity        |  |
| Rated operational current                                       | I <sub>e</sub>    | Α               | 10   |
| 48 V  |                   |                 |  |
| Contacts  | -6                | Quantity        |  |
| Rated operational current                                       | l <sub>e</sub>    | A               | 10   |
| 24 V  |                   |                 |  |
| DC-23A, motor load switch L/R = 15 ms                           |                   | Quantity        |  |
| Contacts  | ·e                | Quantity        |  |
| Rated operational current                                       | l <sub>e</sub>    | A               | 1  |
| Voltage per contact pair in series  DC-21A                      | l <sub>e</sub>    | A               |  |
|   | I <sub>e</sub>    | V               | 60   |
| DC-1, Load-break switches L/R = 1 ms  Rated operational current | ı                 | Α               | 10   |
| DC  |                   |                 |  |
| 690 V   | l <sub>e</sub>    | Α               | 7.6  |
| 500 V   | I <sub>e</sub>    | A               | 13.3   |
| 400 V 415 V   | l <sub>e</sub>    | A               | 13.3   |
| 230 V   | l <sub>e</sub>    | A               | 13.3   |
| Rated operational current motor load switch                     |                   | Δ.              | 13.3   |
| 690 V   | Р                 | kW              | 5.5  |
| 500 V   | P                 | kW              | 7.5  |
| 400 V 415 V   | P                 | kW              | 5.5  |
| 230 V   | P                 | kW              | 3  |
| Motor rating AC-23A, 50 - 60 Hz                                 |                   | kW              |  |

| Technical data for design verification                   |                  |   |     |
|--|------------------|---|-----|
| Rated operational current for specified heat dissipation | In               | Α | 20  |
| Heat dissipation per pole, current-dependent             | P <sub>vid</sub> | W | 0.6 |
| Equipment heat dissipation, current-dependent            | P <sub>vid</sub> | W | 0   |

| Heat dissipation capacity  Operating ambient temperature min.  Operating ambient temperature max.  IEC/EN 61439 design verification  10.2 Strength of materials and parts  10.2.2 Corrosion resistance  10.2.3.1 Verification of thermal stability of enclosures  10.2.3.2 Verification of tresistance of insulating materials to normal heat and fire due to internal electric effects  10.2.4 Resistance to ultra-violet (UV) radiation  10.2.5 Lifting  10.2.6 Mechanical impact  10.2.7 Inscriptions  10.3 Degree of protection of ASSEMBLIES  10.4 Clearances and creepage distances  10.5 Protection against electric shock  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  Pdiss  W  0  40  Weets the product standard's requirements.  Meets the product standard's requirements.  Weets the product standard's requirements.  UV resistance only in connection with protective shield.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Soes not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Soes not apply, since the entire switchgear needs to be evaluated.  Soes not apply, since the entire switchgear needs to be evaluated.  Soes not apply, since the entire switchgear needs to be evaluated.  Soes not apply, since the entire switchgear needs to be evaluated. |         |
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|   |         |
| 10.8 Connections for external conductors Is the panel builder's responsibility.   |         |
|   |         |
| 10.9 Insulation properties  |         |
| 10.9.2 Power-frequency electric strength Is the panel builder's responsibility.   |         |
| 10.9.3 Impulse withstand voltage Is the panel builder's responsibility.   |         |
| 10.9.4 Testing of enclosures made of insulating material Is the panel builder's responsibility.   |         |
| 10.10 Temperature rise  The panel builder is responsible for the temperature rise calculation. Eat provide heat dissipation data for the devices.   | n will  |
| 10.11 Short-circuit rating  Is the panel builder's responsibility. The specifications for the switchgea observed.   | must be |
| 10.12 Electromagnetic compatibility  Is the panel builder's responsibility. The specifications for the switchgea observed.  | must be |
| 10.13 Mechanical function  The device meets the requirements, provided the information in the instribution leaflet (IL) is observed.  | ction   |

# **Technical data ETIM 7.0**

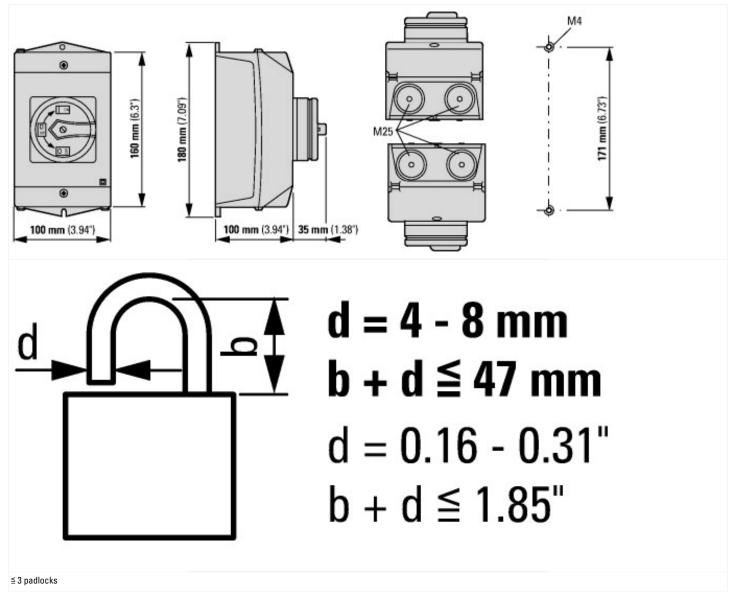
Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss10.0.1-27-37-14-03 [AKF060013])

| p and cook real   |    |           |
|---|----|-----------|
| Version as main switch                                  |    | Yes       |
| Version as maintenance-/service switch                  |    | Yes       |
| Version as safety switch                                |    | No        |
| Version as emergency stop installation                  |    | Yes       |
| Version as reversing switch                             |    | No        |
| Number of switches                                      |    | 1         |
| Max. rated operation voltage Ue AC                      | V  | 690       |
| Rated operating voltage                                 | V  | 690 - 690 |
| Rated permanent current lu                              | Α  | 20        |
| Rated permanent current at AC-23, 400 V                 | Α  | 13.3      |
| Rated permanent current at AC-21, 400 V                 | Α  | 20        |
| Rated operation power at AC-3, 400 V                    | kW | 5.5       |
| Rated short-time withstand current lcw                  | kA | 0.32      |
| Rated operation power at AC-23, 400 V                   | kW | 5.5       |
| Switching power at 400 V                                | kW | 5.5       |
| Conditioned rated short-circuit current Iq              | kA | 6         |
| Number of poles   |    | 3         |
| Number of auxiliary contacts as normally closed contact |    | 0         |
| Number of auxiliary contacts as normally open contact   |    | 0         |
|   |    |           |

| Number of auxiliary contacts as change-over contact  Motor drive optional  Motor drive integrated  Voltage release optional  Device construction  Suitable for ground mounting  Suitable for front mounting 4-hole  O  No  Complete device in housing  Yes  No  No |
|--|
| Motor drive integrated  Voltage release optional  Device construction  Suitable for ground mounting  No  Complete device in housing  Yes   |
| Voltage release optional  Device construction  Complete device in housing  Suitable for ground mounting  Yes   |
| Device construction Complete device in housing Suitable for ground mounting Yes  |
| Suitable for ground mounting  Yes  |
|  |
| Suitable for front mounting 4-hole No  |
|  |
| Suitable for front mounting centre No  |
| Suitable for distribution board installation No  |
| Suitable for intermediate mounting No  |
| Colour control element Red   |
| Type of control element Door coupling rotary drive   |
| Interlockable Yes  |
| Type of electrical connection of main circuit  Screw connection  |
| Degree of protection (IP), front side  |
| Degree of protection (NEMA) Other  |

## **Dimensions**



## **Assets (links)**

**Declaration of CE Conformity** 

00003075

**Instruction Leaflets** 

IL03801008Z2018 05