DATASHEET - T0-3-8250/XZ



Step switch, 2p, le=12A, 45°, maintained, replacement switch, base fixing

Powering Business Worldwide

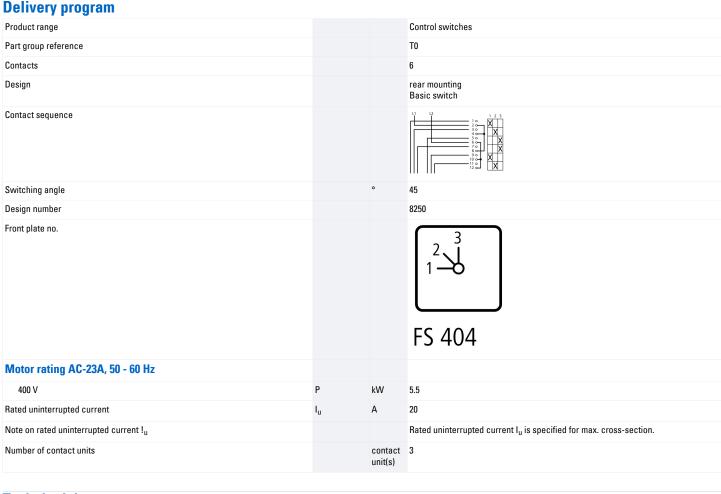


T0-3-8250/XZ 013455

EL-Nummer (Norway)

0001456701

Similar to illustration



Technical data

| General | | | |
|--|------------------|------------------|--|
| Standards | | | IEC/EN 60947, VDE 0660, IEC/EN 60204 Switch-disconnector according to IEC/EN 60947-3 |
| Climatic proofing | | | Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 |
| Ambient temperature | | | |
| Open | | °C | -25 - +50 |
| Enclosed | | °C | -25 - +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 | | | |
| Electrical characteristics | | | |
| Rated operational voltage | U _e | V AC | 690 |
| Rated uninterrupted current | lu | А | 20 |
| Note on rated uninterrupted current $\boldsymbol{!}_u$ | | | Rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$ is specified for max. cross-section. |
| Load rating with intermittent operation, class 12 | | | |
| AB 25 % DF | | x I _e | 2 |
| AB 40 % DF | | x I _e | 1.6 |

| AB 60 % DF | | x l _e | 1.3 |
|--|-----------------|-------------------|--------------------------------|
| Short-circuit rating | | | |
| Fuse | | A gG/gL | 20 |
| Rated short-time withstand current (1 s current) | I _{cw} | A _{rms} | 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 | | | |
| $\cos\phi$ rated making capacity as per IEC 60947-3 | | A | 130 |
| Rated breaking capacity $\cos \phi$ to IEC 60947-3 | | A | |
| 230 V | | A | 100 |
| 400/415 V | | A | 110 |
| 500 V | | A | 80 |
| 690 V | | A | 60 |
| Safe isolation to EN 61140 | | | |
| between the contacts | | V AC | 440 |
| Current heat loss per contact at l _e | | W | 0.6 |
| Current heat loss per auxiliary circuit at I_{e} (AC-15/230 V) | | CO | 0.6 |
| Lifespan, mechanical | Operations | x 10 ⁶ | > 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 | Р | kW | 4 |
| 690 V Star-delta | Р | kW | 5.5 |
| Rated operational current motor load switch | | | |
| 230 V | le | A | 11.5 |
| 230 V star-delta | l _e | A | 20 |
| 400V 415 V | | A | 11.5 |
| | l _e | | |
| 400 V star-delta | le | A | 20 |
| 500 V | l _e | A | 9 |
| 500 V star-delta | l _e | A | 15.6 |
| 690 V | l _e | А | 4.9 |
| 690 V star-delta | l _e | А | 8.5 |
| AC-23A | | | |
| Motor rating AC-23A, 50 - 60 Hz | Р | kW | |
| 230 V | Р | kW | 3 |
| 400 V 415 V | Р | kW | 5.5 |
| 500 V | Р | kW | 7.5 |
| 690 V | Р | kW | 5.5 |
| Rated operational current motor load switch | | | |
| 230 V | l _e | A | 13.3 |
| 400 V 415 V | I _e | A | 13.3 |
| 500 V | l _e | A | 13.3 |
| 690 V | l _e | A | 7.6 |
| DC | e | | |
| DC-1, Load-break switches L/R = 1 ms | | | |
| Rated operational current | I _e | A | 10 |
| | 'e | | |
| Voltage per contact pair in series | | V | 60 |

| DC-21A | le | А | |
|--|-------------------|-----------------|--|
| Rated operational current | l _e | A | 1 |
| Contacts | 'e | Quantity | |
| DC-23A, motor load switch L/R = 15 ms | | Quantity | |
| 24 V | | | |
| Rated operational current | le | A | 10 |
| Contacts | .6 | Quantity | |
| 48 V | | Quantity | |
| Rated operational current | le | A | 10 |
| Contacts | Ŭ | Quantity | 2 |
| 60 V | | , | |
| Rated operational current | l _e | A | 10 |
| Contacts | | Quantity | 3 |
| 120 V | | | |
| Rated operational current | le | A | 5 |
| Contacts | | Quantity | 3 |
| 240 V | | | |
| Rated operational current | l _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 | H _F | < 10 ⁻⁵ ,< 1 failure in 100,000 switching operations |
| Terminal capacities | probability | | |
| Solid or stranded | | mm ² | 1 x (1 - 2,5) |
| | | | 2 x (1 - 2,5) |
| Flexible with ferrules to DIN 46228 | | mm ² | 1 x (0.75 - 2.5) 2 x (0.75 - 2.5) |
| Terminal screw | | | M3.5 |
| Tightening torque for terminal screw | | Nm | 1 |
| Technical safety parameters: | | | |
| Notes | | | $B10_d$ values as per EN ISO 13849-1, table C1 |
| Rating data for approved types | | | |
| Terminal capacity | | | |
| Terminal screw | | | M3.5 |
| | | | |
| Design verification as per IEC/EN 61439 | | | |
| Technical data for design verification | | | |
| Rated operational current for specified heat dissipation | In | A | 20 |
| Heat dissipation per pole, current-dependent | P _{vid} | W | 0.6 |
| Equipment heat dissipation, current-dependent | P _{vid} | W | 0 |
| Static heat dissipation, non-current-dependent | P _{vs} | W | 0 |
| Heat dissipation capacity | P _{diss} | W | 0 |
| Operating ambient temperature min. | | °C | -25 |
| Operating ambient temperature max. | | °C | 50 |
| IEC/EN 61439 design verification | | | |
| 10.2 Strength of materials and parts | | | |
| 10.2.2 Corrosion resistance | | | Meets the product standard's requirements. |
| 10.2.3.1 Verification of thermal stability of enclosures | | | Meets the product standard's requirements. |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat | | | Meets the product standard's requirements. |
| 10.2.3.3 Verification of resistance of insulating materials to abnormal heat | | | Meets the product standard's requirements. |
| and fire due to internal electric effects | | | |
| and fire due to internal electric effects 10.2.4 Resistance to ultra-violet (UV) radiation | | | UV resistance only in connection with protective shield. |
| | | | UV resistance only in connection with protective shield. Does not apply, since the entire switchgear needs to be evaluated. |

| 10.2.7 Inscriptions | Meets the product standard's requirements. |
|--|--|
| 10.3 Degree of protection of ASSEMBLIES | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.4 Clearances and creepage distances | Meets the product standard's requirements. |
| 10.5 Protection against electric shock | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.6 Incorporation of switching devices and components | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.7 Internal electrical circuits and connections | Is the panel builder's responsibility. |
| 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. Eaton will provide heat dissipation data for the devices. |
| 10.11 Short-circuit rating | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| 10.12 Electromagnetic compatibility | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| 10.13 Mechanical function | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |

Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Control switch (EC002611)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Control switch (ecl@ss10.0.1-27-37-14-14 [ACN998011])

| Type of switch | | Level switch |
|--|---|-----------------|
| Number of poles | | 2 |
| Max. rated operation voltage Ue AC | V | 690 |
| Rated permanent current lu | А | 20 |
| Number of switch positions | | 3 |
| With 0 (off) position | | No |
| With retraction in 0-position | | No |
| Device construction | | Built-in device |
| Width in number of modular spacings | | 4 |
| Suitable for ground mounting | | Yes |
| Suitable for front mounting 4-hole | | No |
| Suitable for distribution board installation | | No |
| Suitable for intermediate mounting | | Yes |
| Complete device in housing | | No |
| Type of control element | | Other |
| Front shield size | | Other |
| Degree of protection (IP), front side | | IP00 |
| Degree of protection (NEMA), front side | | Other |
| | | |