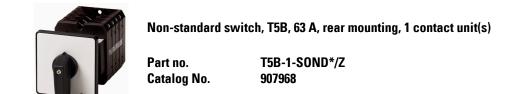
DATASHEET - T5B-1-SOND*/Z





Delivery program

| Product range | | | Non-standard switch |
|--|----------------|--------------------|---|
| Part group reference | | | T5B |
| Notes | | | customized version according to form |
| Degree of Protection | | | Front IP65 |
| Design | | | rear mounting |
| | | | |
| Motor rating AC-23A, 50 - 60 Hz | | | |
| 400 V | Р | kW | 30 |
| Rated uninterrupted current | l _u | А | 63 |
| Note on rated uninterrupted current ${\boldsymbol{!}}_u$ | | | Rated uninterrupted current \boldsymbol{I}_{u} is specified for max. cross-section. |
| Number of contact units | | contact unit(s) | 1 |

Technical data

| Note of the second se | General | | | |
|---|---|------------------|------------------|--|
| Anionic description Anionic description Anionic description Anionic description Anionic description Anionic description % | Standards | | | |
| Open C Spended | Climatic proofing | | | |
| Eclosed222EclosedVarue230Nature inputs withstand voltageVarueVarue300Nature inputs withstand voltageVarue30300Nature inputs withstand voltageVarue30300Nature inputs withstand voltageVarue300300Nature inputs with voltageVarue300300Rated uninterrupted current 1Varue300300Nature inputs with intermittent operation, class 12Varue300AB 26% DFVarueVarue300AB 40% DFVarue400300AB 40% DFVarue400300Noto current 1Varue400300Noto current 1Varue300300Noto current 1Varue100300Noto current 1Varue100300Noto current 1Varue100300Noto current 10Varue100300Noto current 10Varue100< | Ambient temperature | | | |
| New York Notes Notes Aver Vaca Yapp VAC 900 Aver Vaca Sold Sold Sold Match in pulse with stand voltage Yapp VAC Sold | Open | | °C | -25 - +50 |
| Act of upulse withstand voltage VAC 600 Mechanical shock resistance g | Enclosed | | °C | -25 - +40 |
| Mechanical shock resistance Mechanical shock resistance <t< td=""><td>Overvoltage category/pollution degree</td><td></td><td></td><td>111/3</td></t<> | Overvoltage category/pollution degree | | | 111/3 |
| Note on rated operational voltage Are required Rated operational voltage Image: Sector Sect | Rated impulse withstand voltage | U _{imp} | V AC | 6000 |
| Contacts Sector of the sec | Mechanical shock resistance | | g | 15 |
| letrical characteristics Image: Constraint of the second seco | Mounting position | | | As required |
| Rated operational voltage Ue VAC 6000000000000000000000000000000000000 | Contacts | | | |
| Rated uninterrupted current 1 Load ratin with interrupted current 1 Load ratin with interr | Electrical characteristics | | | |
| Note on rated uninterrupted current lu Amount of the specified for max. cross-section. Note on rated uninterrupted current lu Specified for max. cross-section. AB 25% DF Image: Specified for max. cross-section. AB 40% DF Image: Specified for max. cross-section. AB 60% DF Image: Specified for max. cross-section. AB 60% DF Image: Specified for max. cross-section. Fuse Image: Specified for max. cross-section. Fuse Image: Specified for max. cross-section. Rated short-time withstand current los current los control Image: Specified for max. cross-section. Note on rated short-time withstand current los current los control Image: Specified for max. cross-section. Rated conditional short-circuit current los control Image: Specified for max. cross-section. Specified control Image: Specified for max. cross-section. Rated short-time withstand current los control Image: Specified for max. cross-section. Rated conditional short-circuit current los control Image: Specified for max. cross-section. Specified control Image: Specified for max. cross-section. Specified control Image: Specified for max. cross-section. Specified control Image: Specified for max. | Rated operational voltage | U _e | V AC | 690 |
| Load rating with intermittent operation, class 12 and the second | Rated uninterrupted current | l _u | Α | 63 |
| AB 25 % DF x le 2 AB 40 % DF x le 16 AB 60 % DF x le 1.3 Short-circuit rating x le 3.4 Fuse A gG/gL 2 Rated short-time withstand current (1s current) Icw Arms 300 Rated conditional short-circuit current Iq Ka Arms Rated conditional short-circuit current Iq Ka 300 | Note on rated uninterrupted current $!_{\rm u}$ | | | Rated uninterrupted current $\mathbf{I}_{\mathbf{U}}$ is specified for max. cross-section. |
| AB 40 % DF x le 1.6 AB 60 % DF x le 1.6 AB 60 % DF x le 1.6 Short-circuit rating x le 1.6 Fuse A gG/gL A gG/gL Rated short-time withstand current (1 s current) Image: A gG/gL 3.00 Note on rated short-time withstand current (2 s current) Image: A gG/gL 3.00 Rated conditional short-circuit current Image: A gG/gL Current for a time of 1 second Rated conditional short-circuit current Image: A gG/gL Sold | Load rating with intermittent operation, class 12 | | | |
| AB 60 % DFx le13Short-circuit rating | AB 25 % DF | | x I _e | 2 |
| Short-circuit rating A gG/gL Fuse A gG/gL Rated short-time withstand current (1s current) Icw Note on rated short-time withstand current lcw Igq Rated conditional short-circuit current Iq Korteching capacity Icm | AB 40 % DF | | x le | 1.6 |
| FuseA gG/zA gG/z< | AB 60 % DF | | x I _e | 1.3 |
| Rated short-time withstand current (1 s current) Icw Arms 1300 Note on rated short-time withstand current lcw Icw Icw Icw Rated conditional short-circuit current Iq KA Icw Switching capacity Score or rated making capacity as per IEC 60947-3 Icw Icw | Short-circuit rating | | | |
| Note on rated short-time withstand current low Image: Current for a time of 1 second Rated conditional short-circuit current Iq kA 2 Switching capacity So a rated making capacity as per IEC 60947-3 Image: Current for a time of 1 second Image: Current for a time of 1 second | Fuse | | A gG/gL | 80 |
| Rated conditional short-circuit current lq kA 2 Switching capacity cos φ rated making capacity as per IEC 60947-3 A A 800 | Rated short-time withstand current (1 s current) | I _{cw} | A _{rms} | 1300 |
| Switching capacity cos φ rated making capacity as per IEC 60947-3 A A | Note on rated short-time withstand current lcw | | | Current for a time of 1 second |
| cos φ rated making capacity as per IEC 60947-3 A 800 | Rated conditional short-circuit current | Iq | kA | 2 |
| | Switching capacity | | | |
| Stated breaking capacity cos of to JEC 60947-3 | $\cos\phi$ rated making capacity as per IEC 60947-3 | | А | 800 |
| | Rated breaking capacity $\cos\phi$ to IEC 60947-3 | | А | |

| 230 V | | А | 520 |
|---|----------------|-------------------|-------|
| 400/415 V | | A | 600 |
| 500 V | | A | 480 |
| 690 V | | A | 340 |
| Safe isolation to EN 61140 | | ~ | |
| between the contacts | | V AC | 440 |
| Current heat loss per contact at l _e | | W | 4.5 |
| Current heat loss per auxiliary circuit at I _e (AC-15/230 V) | | | 4.5 |
| | 0 ii | CO | |
| Lifespan, mechanical | Operations | x 10 ⁶ | > 0.5 |
| Maximum operating frequency | Operations/h | | 1200 |
| AC | | | |
| AC-3 | | | |
| Rating, motor load switch | Р | kW | |
| 220 V 230 V | Р | kW | 15 |
| 230 V Star-delta | Р | kW | 18.5 |
| 400 V 415 V | Р | kW | 22 |
| 400 V Star-delta | Р | kW | 30 |
| 500 V | Р | kW | 22 |
| 500 V Star-delta | Р | kW | 37 |
| 690 V | Р | kW | 15 |
| 690 V Star-delta | Р | kW | 22 |
| Rated operational current motor load switch | | | |
| 230 V | le | A | 51 |
| 230 V star-delta | l _e | А | 63 |
| 400V 415 V | I _e | А | 41 |
| 400 V star-delta | l _e | А | 63 |
| 500 V | I _e | A | 33 |
| 500 V star-delta | le | A | 57.2 |
| 690 V | l _e | A | 17 |
| 690 V star-delta | l _e | A | 29.4 |
| AC-23A | U C | | |
| Motor rating AC-23A, 50 - 60 Hz | Р | kW | |
| 230 V | P | kW | 18.5 |
| 400 V 415 V | P | kW | 30 |
| 500 V | P | kW | 22 |
| 690 V | P | kW | 22 |
| Rated operational current motor load switch | • | | |
| 230 V | 1 | A | 63 |
| 400 V 415 V | l _e | | 63 |
| | l _e | A | |
| 500 V | l _e | A | 33 |
| 690 V | le | A | 23.8 |
| DC | | | |
| DC-1, Load-break switches L/R = 1 ms | | | |
| Rated operational current | l _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 | le | А | 50 |
| Contacts | | Quantity | 1 |
| 48 V | | | |
| Rated operational current | l _e | А | 50 |
| Contacts | | Quantity | 2 |
| 60 V | | | |
| Rated operational current | I _e | А | 50 |
| | | | |

| Contacts | | Quantity | 3 |
|---|----------------------|-----------------|---|
| 120 V | | | |
| Rated operational current | le | А | 25 |
| Contacts | | Quantity | 3 |
| 240 V | | | |
| Rated operational current | le | А | 20 |
| Contacts | | Quantity | 6 |
| DC-13, Control switches L/R = 50 ms | | | |
| Rated operational current | l _e | А | 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 failure in 100,000 switching operations |
| Terminal capacities | | | |
| Solid or stranded | | mm ² | 1 x (2,5 - 35) 2 x (2,5 - 16) |
| Flexible with ferrules to DIN 46228 | | mm ² | 1 x (1 - 25) 2 x (1.5 - 10) |
| Terminal screw | | | M6 |
| Tightening torque for terminal screw | | Nm | 4 |
| Fechnical safety parameters: | | | |
| Notes | | | B10 _d values as per EN ISO 13849-1, table C1 |
| Rating data for approved types | | | |
| Terminal capacity | | | |
| | | | |

Design verification as per IEC/EN 61439

| Design vernication as per 120/211 01755 | | | |
|--|-------------------|----|--|
| Technical data for design verification | | | |
| Rated operational current for specified heat dissipation | In | А | 63 |
| Heat dissipation per pole, current-dependent | P _{vid} | W | 4.5 |
| 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 |
| EC/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 and fire due to internal electric effects | | | Meets the product standard's requirements. |
| 10.2.4 Resistance to ultra-violet (UV) radiation | | | UV resistance only in connection with protective shield. |
| 10.2.5 Lifting | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.6 Mechanical impact | | | 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. |

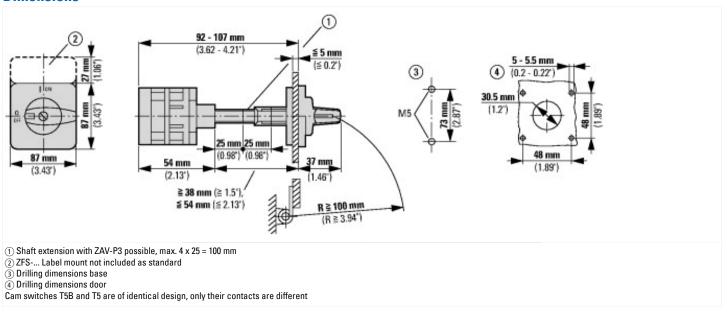
Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / 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]) |

| [AKF060013]) | | |
|---|----|--|
| Version as main switch | | No |
| Version as maintenance-/service switch | | No |
| Version as safety switch | | No |
| Version as emergency stop installation | | No |
| 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 | А | 63 |
| Rated permanent current at AC-23, 400 V | А | 63 |
| Rated permanent current at AC-21, 400 V | А | 63 |
| Rated operation power at AC-3, 400 V | kW | 22 |
| Rated short-time withstand current lcw | kA | 1.3 |
| Rated operation power at AC-23, 400 V | kW | 30 |
| Switching power at 400 V | kW | 30 |
| Conditioned rated short-circuit current Iq | kA | 2 |
| Number of poles | | 0 |
| 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 | | 0 |
| Motor drive optional | | No |
| Motor drive integrated | | No |
| Voltage release optional | | No |
| Device construction | | Built-in device fixed built-in technique |
| 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 | | Yes |
| Colour control element | | Black |
| Type of control element | | Toggle |
| Interlockable | | No |
| Type of electrical connection of main circuit | | Screw connection |
| Degree of protection (IP), front side | | IP65 |
| Degree of protection (NEMA) | | Other |
| | | |

Dimensions



Additional product information (links)

| Technical overview cam switch, switch-disconnector | http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.2 |
|--|--|
| System overview cam switch T | http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.4 |
| System overview switch-disconnector P | http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.6 |
| Key to part numbers Cam switch | http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.8 |
| Key to part numbers Switch-disconnector | http://de.ecat.moeller.net/flip-cat/?edition=HPLTEv1&startpage=4.8 |
| Switches for ATEX | http://www.coopercrouse-hinds.eu/en/products/25-ex-safety-and-main-current-switches.html |