DATASHEET - T0-4-8344/I1/SVB



Main switch, T0, 20 A, surface mounting, 4 contact unit(s), 8-pole, Emergency switching off function, With red rotary handle and yellow locking ring, Lockable in the 0 (Off) position



Part no. Catalog No. T0-4-8344/I1/SVB 207163

Delivery program

| Product range | | | Main switch maintenance switch Repair switch |
|----------------------------------------|----|--------------------|---------------------------------------------------------------------------------|
| Part group reference | | | ТО |
| Stop Function | | | Emergency switching off function |
| | | | With red rotary handle and yellow locking ring |
| Number of poles | | | 8-pole |
| Locking facility | | | Lockable in the 0 (Off) position |
| Degree of Protection | | | IP65 |
| | | | totally insulated |
| Design | | | surface mounting |
| | | | |
| Contact sequence | | | |
| Switching angle | | 0 | 90 |
| Design number | | | 8344 |
| Function | | | |
| Motor rating AC-23A, 50 - 60 Hz | | | |
| 400 V | Р | kW | 5.5 |
| Rated uninterrupted current | lu | A | 20 |
| Note on rated uninterrupted current !u | | | Rated uninterrupted current I _u is specified for max. cross-section. |
| Number of contact units | | contact unit(s) | 4 |
| | | | |

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 | | | |
| 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 | | | As required |
| Mechanical variables | | | |
| Number of poles | | | 8-pole |
| Electrical characteristics | | | |
| Rated operational voltage | Ue | V AC | 690 |
| Rated uninterrupted current | l _u | A | 20 |
| Note on rated uninterrupted current !u | ·u | | Rated uninterrupted current I _u is specified for max. cross-section. |
| Load rating with intermittent operation, class 12 | | | |
| AB 25 % DF | | x l _e | 2 |
| AB 40 % DF | | | 1.6 |
| | | x l _e | |
| AB 60 % DF | | x I _e | 1.3 |
| Short-circuit rating | | | |
| Fuse | | A gG/gL | |
| 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 | | ٨ | 130 |
| cos φ rated making capacity as per IEC 60947-3 Rated breaking capacity cos φ to IEC 60947-3 | | A A | 130 |
| | | | 100 |
| 230 V 400/415 V | | A A | 100 |
| 400/415 V 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) | | C0 | 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 | P | kW | 7.5 |
| 690 V | P | 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 | le | А | 20 |
| 400V 415 V | le | А | 11.5 |
| 400 V star-delta | le | А | 20 |
| 500 V | le | А | 9 |
| 500 V star-delta | le | А | 15.6 |
| 690 V | le | A | 4.9 |
| 690 V star-delta | le | A | 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 | P | kW | 5.5 |
| Rated operational current motor load switch | 1 | KVV | |
| 230 V | le | A | 13.3 |
| 400 V 415 V | | A | 13.3 |
| | l _e | | |
| 500 V | l _e | A | 13.3 |
| 690 V | le | A | 7.6 |
| | | | |
| DC-1, Load-break switches L/R = 1 ms | | | |
| Rated operational current | le | A | 10 |
| Voltage per contact pair in series | | | 60 |
| DC-21A | l _e | A | |
| Rated operational current | le | A | 1 |
| Contacts | | Quantity | 1 |
| DC-23A, motor load switch L/R = 15 ms | | | |
| 24 V | | | |
| Rated operational current | l _e | A | 10 |
| Contacts | | Quantity | 1 |
| 48 V | | | |
| Rated operational current | le | А | 10 |
| Contacts | | Quantity | 2 |
| 60 V | | | |
| Rated operational current | le | А | 10 |
| Contacts | | Quantity | 3 |
| 120 V | | | |
| Rated operational current | l _e | А | 5 |
| Contacts | | Quantity | 3 |
| 240 V | | | |
| Rated operational current | le | А | 5 |
| Contacts | | Quantity | 5 |
| DC-13, Control switches L/R = 50 ms | | | |
| Rated operational current | le | А | 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 failure in 100,000 switching operations |
| Terminal capacities | | | |
| 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: | | | P10. voluce co por EN ISO 12940 1 toble C1 |
| Notes Rating data for approved types | | | $B10_d$ values as per EN ISO 13849-1, table C1 |
| Terminal capacity | | | |
| Terminal screw | | | M3.5 |
| Tightening torque | | | 8.83 |
| | | | |

Design verification as per IEC/EN 61439

| Technical data for design verification | | | |
|----------------------------------------------------------|-------------------|---|-----|
| Rated operational current for specified heat dissipation | I _n | А | 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 | 40 |
| 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

| D6/16/2021 Eaton 207163 ED2021 V80.0 EN | | | 4/7 |
|---------------------------------------------------------------------------------------------------|------------------------|----------------------------------------------------------------------------------|--------------|
| אוסנסו טוועי וווניצוומניט | | NU | |
| Motor drive optional Motor drive integrated | | No | |
| Number of auxiliary contacts as change-over contact | | 0 | |
| Number of auxiliary contacts as normally open contact | | 0 | |
| Number of auxiliary contacts as normally closed contact | | 0 | |
| Number of poles | | 8 | |
| Conditioned rated short-circuit current Iq | kA | | |
| Switching power at 400 V | kW | | |
| Rated operation power at AC-23, 400 V | kW | W 5.5 | |
| Rated short-time withstand current Icw | kA | A 0.32 | |
| Rated operation power at AC-3, 400 V | kW | W 5.5 | |
| Rated permanent current at AC-21, 400 V | А | 20 | |
| Rated permanent current at AC-23, 400 V | А | 13.3 | |
| Rated permanent current lu | А | 20 | |
| Rated operating voltage | V | 690 - 690 | |
| Max. rated operation voltage Ue AC | V | 690 | |
| Number of switches | | 1 | |
| Version as reversing switch | | No | |
| Version as emergency stop installation | | Yes | |
| Version as safety switch | | Yes | |
| Version as maintenance-/service switch | | Yes | |
| Version as main switch | | Yes | |
| Electric engineering, automation, process control engineering / Low-voltage switc [AKF060013]) | ch technology / Off-lo | load switch, circuit breaker, control switch / Switch disconnector (ecl@ss10.0.1 | -27-37-14-03 |
| Low-voltage industrial components (EG000017) / Switch disconnector (EC000216) | | | |

| Voltage release optional | No |
|-----------------------------------------------|----------------------------|
| Device construction | Complete device in housing |
| 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 | IP65 |
| Degree of protection (NEMA) | Other |

Dimensions





