DATASHEET - P3-63/I4/SVB-SW



Main switch, P3, 63 A, surface mounting, 3 pole, STOP function, With black rotary handle and locking ring, Lockable in the 0 (Off) position



Part no. Catalog No. P3-63/I4/SVB-SW 207344

| Delivery program | | | |
|---------------------------------------|----|------------|--|
| Product range | | | Main switch maintenance switch Repair switch |
| Part group reference | | | Р3 |
| Stop Function | | | STOP function |
| | | | With black rotary handle and locking ring |
| Information about equipment supplied | | | Auxiliary contact or neutral conductor fitted by user. |
| Number of poles | | | 3 pole |
| Auxiliary contacts | | | |
| 7 | | N/O N/C | 0 |
| Locking facility | | | Lockable in the 0 (Off) position |
| Degree of Protection | | | IP65 |
| | | | totally insulated |
| Design | | | surface mounting |
| | | | |
| Contact sequence | | | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| Switching angle | | o | 90 |
| Function | | | |
| Motor rating AC-23A, 50 - 60 Hz | | | |
| 400 V | P | kW | 30 |
| Rated uninterrupted current | lu | A | 63 |
| Note on rated uninterrupted current ! | | | Rated uninterrupted current I _{II} is specified for max. cross-section. |

| Technical data | | | |
|---|---------------------|-------------------|--|
| General | | | |
| Standards | | | IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL 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 | | | 111/3 |
| Rated impulse withstand voltage | U _{imp} | V AC | 6000 |
| Mechanical shock resistance | | g | 15 |
| Mounting position | | | As required |
| Contacts | | | |
| Mechanical variables | | | |
| Number of poles | | | 3 pole |
| Auxiliary contacts | | N/0 | 0 |
| | | N/C | 0 |
| Electrical characteristics | | | |
| Rated operational voltage | Ue | V AC | 690 |
| Rated uninterrupted current | l _u | A | 63 |
| Note on rated uninterrupted current !u | u | | Rated uninterrupted current I _u is specified for max. cross-section. |
| | | | המכט מהחתורו בעונט טורורות ון וא איסטווט וווא. 1055-366001. |
| 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 | 80 |
| Rated short-time withstand current (1 s current) | I _{cw} | A _{rms} | 1260 |
| Note on rated short-time withstand current lcw | | | Current for a time of 1 second |
| Rated conditional short-circuit current | Ιq | kA | 4 |
| Switching capacity | | | |
| $\cos \phi$ rated making capacity as per IEC 60947-3 | | A | 800 |
| Rated breaking capacity $\cos \phi$ to IEC 60947-3 | | Α | |
| 230 V | | A | 640 |
| 400/415 V | | A | 600 |
| 500 V | | A | 590 |
| 690 V | | Α | 340 |
| Safe isolation to EN 61140 | | | |
| between the contacts | | V AC | 440 |
| Current heat loss per contact at I _e | | W | 4.5 |
| Lifespan, mechanical | Operations | x 10 ⁶ | > 0.1 |
| Maximum operating frequency | Operations/h | | 1200 |
| AC | | | |
| AC-3 | | | |
| Rating, motor load switch | Р | kW | |
| 220 V 230 V | Ρ | kW | 15 |
| 400 V 415 V | Р | kW | 30 |
| 500 V | Р | kW | 30 |
| 500 V | | kW | 30 |
| 690 V | Р | | |
| 690 V Rated operational current motor load switch | | | |
| 690 V Rated operational current motor load switch 230 V | P I _e | A | 51 |
| 690 V Rated operational current motor load switch | | | 51 55 |
| 690 V Rated operational current motor load switch 230 V | I _e | A | |

| AC-23A | | | |
|---|----------------|---------------------|---|
| Motor rating AC-23A, 50 - 60 Hz | Р | kW | |
| 230 V | Р | kW | 18.5 |
| 400 V 415 V | Р | kW | 30 |
| 500 V | Ρ | kW | 45 |
| 690 V | Р | kW | 55 |
| Rated operational current motor load switch | | | |
| 230 V | l _e | Α | 63 |
| 400 V 415 V | le | A | 63 |
| 500 V | l _e | A | 63 |
| 690 V | l _e | A | 63 |
| DC | 0 | | |
| DC-1, Load-break switches L/R = 1 ms | | | |
| Rated operational current | le | A | 63 |
| | 'e | v | |
| Voltage per contact pair in series | | v | 60 |
| DC-23A, motor load switch L/R = 15 ms | | | |
| 24 V | | | |
| Rated operational current | l _e | A | 50 |
| Contacts | | Quantity | 1 |
| 48 V | | | |
| Rated operational current | l _e | Α | 50 |
| Contacts | | Quantity | 2 |
| 60 V | | | |
| Rated operational current | l _e | Α | 50 |
| Contacts | | Quantity | 2 |
| 120 V | | | |
| Rated operational current | le | A | 25 |
| Contacts | | Quantity | 3 |
| Control circuit reliability at 24 V DC, 10 mA | Fault | , H _F | < 10 ⁻⁵ ,< 1 failure in 100,000 switching operations |
| Terminal equation | probability | | |
| Terminal capacities Solid or stranded | | 2 | 1 x (2,5 - 35) |
| | | mm ² | 2 x (2,5 - 10) |
| Flexible with ferrules to DIN 46228 | | mm ² | 1 x (1.5 - 25) |
| | | | 2 x (1.5 - 6) |
| Terminal screw | | | M5 |
| Tightening torque for terminal screw | | Nm | 3 |
| Technical safety parameters: | | | D10 |
| Notes | | | B10 _d values as per EN ISO 13849-1, table C1 |
| Rating data for approved types Contacts | | | |
| Rated operational voltage | Ue | V AC | 600 |
| | €e | 110 | |
| Rated uninterrupted current max. | | | |
| Main conducting paths | | | |
| General use | | A | 60 |
| Auxiliary contacts | | | |
| General Use | IU | A | 10 |
| Pilot Duty | | | A 600 P 600 |
| Switching capacity | | | |
| Maximum motor rating | | | |
| Single-phase | | | |
| | | | |
| 120 V AC | | HP | 3 |
| 120 V AC 200 V AC | | HP HP | 3 7.5 |
| | | | |
| 200 V AC 240 V AC | | HP | 7.5 |
| 200 V AC | | HP | 7.5 |

| 240 V AC | HP | 15 |
|--|-------|--------|
| 480 V AC | HP | 40 |
| 600 V AC | HP | 50 |
| Short Circuit Current Rating | SCCR | |
| Basic Rating | kA | 10 |
| max. Fuse | А | 150 |
| Terminal capacity | | |
| Solid or flexible conductor with ferrule | AWG | 14 - 2 |
| Terminal screw | | M5 |
| Tightening torque | lb-in | 26.5 |

Design verification as per IEC/EN 61439

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

 Version as main switch
 Yes

 Version as maintenance-/service switch
 Yes

 Version as safety switch
 No

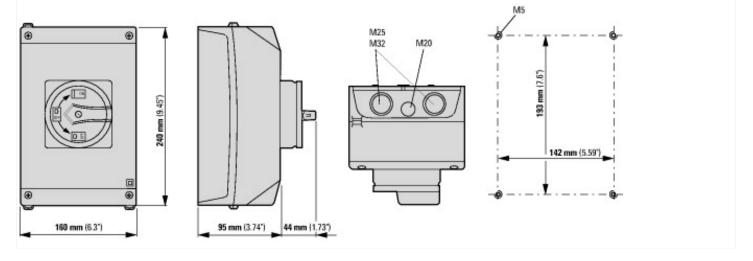
| Variation as roversing which Non-intermediation whitege which is subscription which is subscription whitege whitege which is subscription whitege whiteg | | | |
|--|---|----|----------------------------|
| Number of switches Image: space of | Version as emergency stop installation | | No |
| Aracted operation voltage Ue AC V 80 Rated operation voltage Ue AC V 80 800 Rated operation voltage Ue AC A 8 3 Rated permanent current ta AC-23, 400 V A 8 3 Rated operation power at AC-3, 400 V K 8 3 Rated operation power at AC-3, 400 V K 8 3 Rated operation power at AC-3, 400 V K 8 3 Rated operation power at AC-3, 400 V K 8 3 Switching power at AC-3, 400 V K 8 3 Namber of power at AC-3, 400 V K 8 3 Switching power at AC-3, 400 V K 8 3 Switching power at AC-3, 400 V K 8 3 Switching power at AC-3, 400 V K 8 3 Switching power at AC-3, 400 V K 8 3 Number of power at AC-3, 400 V K 8 3 Number of auxiliary contacts as normally closed contact K 8 4 < | Version as reversing switch | | No |
| Number of subject V 800 - 690 Rated permanent current lu 60 - 690 Rated permanent current at AC-23, 400 V A 63 Rated operation power at AC-23, 400 V KM 63 Rated operation power at AC-23, 400 V KM 63 Rated operation power at AC-23, 400 V KM 63 Rated operation power at AC-23, 400 V KM 63 Switching power at AC-23, 400 V KM 63 <td>Number of switches</td> <td></td> <td>1</td> | Number of switches | | 1 |
| Action permanent current lu A Side Rated permanent current at AC-23, 400 V I A Side < | Max. rated operation voltage Ue AC | V | 690 |
| Rated permanent current at AC-23, 400 V A 6 Rated permanent current at AC-21, 400 V KW 30 Rated operation power at AC-3, 400 V KW 30 Rated operation power at AC-23, 400 V KW 30 Rated short-time withstand current two KW 30 Switching power at 400 V KW 30 Conditioned rated short-tircuit current 1q KW 30 Number of backliery contacts as normally closed contact KW 30 Number of auxiliary contacts as change-over contact FM 30 Number of auxiliary contacts as change-over contact FM 30 Number of auxiliary contacts as change-over contact FM 30 Number of auxiliary contacts as change-over contact FM 30 Number of auxiliary contacts as change-over contact FM 30 Sutable for ground mounting FM 50 50 Sutable for from mounting 4-hole FM 50 50 Sutable for first mounting centre FM 50 50 50 Sutable for first mounting centre FM 50 50 50 Sutable for | Rated operating voltage | V | 690 - 690 |
| Rated operation power at AC-31,400 V F 6 Rated operation power at AC-31,400 V KW 30 Rated operation power at AC-33,400 V KW 30 Rated operation power at AC-33,400 V KW 30 Switching power at 400 V KW 30 Switching power at 400 V KW 30 Conditioned rated short-circuit current lq KW 30 Number of poles 0 30 Number of poles 0 0 Number of auxiliary contacts as normally closed contact M 0 Number of auxiliary contacts as change-over contact M No Number of auxiliary contacts as change-over contact M No Notor drive potional Complete device in housing No Sutable for front mounting 4-hole Complete device in housing No Sutable for intermediate mounting M No No Sutable for intermediate | Rated permanent current lu | А | 63 |
| Rated operation power at AC-3, 400 V KW 3 Rated operation power at AC-23, 400 V KM 126 Rated operation power at AC-23, 400 V SM 3 Switching power at 400 V SM 3 Conditioned rated short-circuit current Iq KM 3 Number of poles F 4 Number of auxiliary contacts as normally closed contact F 3 Number of auxiliary contacts as normally coper contact F 0 Number of auxiliary contacts as normally coper contact F 0 Number of auxiliary contacts as normally coper contact F 0 Number of auxiliary contacts as normally coper contact F 0 Number of auxiliary contacts as normally coper contact F 0 Number of auxiliary contacts as normally coper contact F 0 Number of auxiliary contacts as normally coper contact F No Number of auxiliary contacts as normally coper contact F No Number of auxiliary contacts as normally coper contact F No Subted for front mounting 4-bole F No | Rated permanent current at AC-23, 400 V | А | 63 |
| Rated short-time withstand current low Image: Rated operation power at AC-23, 400 V Image: Rated operation power at AC-23, 400 V Switching power at 400 V Image: Rated operation power at A00 V Image: Rated operation power at A00 V Switching power at 400 V Image: Rated operation power at A00 V Image: Rated operation power at A00 V Conditioned rated short-circuit current lq Image: Rated operation power at A00 V Image: Rated operation power at A00 V Number of auxiliary contacts as normally open contact Image: Rated operation power ontact Image: Rated operation power ontact Number of auxiliary contacts as normally open contact Image: Rated operation power ontact Image: Rated operation power ontact Number of auxiliary contacts as normally open contact Image: Rated operation power ontact Image: Rated operation power ontact Number of auxiliary contacts as normally open contact Image: Rated open power ontact Image: Rated open power ontact Number of auxiliary contacts as normally open contact Image: Rated open power ontact Image: Rated open power ontact Number of auxiliary contacts as normally open contact Image: Rated open power ontact Image: Rated open power ontact Number of auxiliary contacts as normally open contact Image: Rated open power ontact Image: Rated open power ontact Number of auxiliary | Rated permanent current at AC-21, 400 V | А | 63 |
| Rated operation power at AC-23, 400 V Image: Margin and Status at | Rated operation power at AC-3, 400 V | kW | 30 |
| Withing power at 400 Y IM IM IM IM IM Image: Conditioned rated short-circuit current Iq Image: | Rated short-time withstand current lcw | kA | 1.26 |
| Automation of rated short-circuit current lq Image: Automation of auxiliary contacts as normally closed contact Image: Automation of auxiliary contacts as normally closed contact Image: Automation of auxiliary contacts as normally closed contact Image: Automation of auxiliary contacts as normally closed contact Image: Automation of auxiliary contacts as normally closed contact Image: Automation of auxiliary contacts as change-over contact Image: Automation of au | Rated operation power at AC-23, 400 V | kW | 30 |
| Number of poles 3 Number of auxiliary contacts as normally open contact 0 Number of auxiliary contacts as normally open contact 0 Number of auxiliary contacts as normally open contact 0 Motor drive optional 0 Motor drive optional 0 Motor drive integrated 0 Voltage release optional 0 Device construction 0 Suitable for front mounting 4-hole 0 Suitable for front mounting centre 0 Suitable for intermediate mounting 0 | Switching power at 400 V | kW | 30 |
| Aumber 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 0 Motor drive integrated 0 Voltage release optional 0 Device construction 0 Suitable for ground mounting 4-hole Yes Suitable for front mounting centre 0 Suitable for intermediate mounting | Conditioned rated short-circuit current Iq | kA | 4 |
| Number of auxiliary contacts as normally open contact Image: Provide auxiliary contacts as normally open contacts Image: Provide auxiliary contacts as normally open contacts Image: Provide auxiliary contacts Image: Provide auxilia | Number of poles | | 3 |
| Number of auxiliary contacts as change-over contact Image: Page of the section of main circuit Image: Page of the section of main circuit Number of auxiliary contacts as change-over contact Image: Page of the section of main circuit Image: Page of the section of the se | Number of auxiliary contacts as normally closed contact | | 0 |
| Active optional No Motor drive optional No Motor drive integrated No Voltage release optional No Device construction Complete device in housing Suitable for ground mounting 4-hole Yes Suitable for front mounting centre No Suitable for front mounting centre No Suitable for front mounting centre No Suitable for intermediate mounting Yes Suitable for intermediate mounting Yes Colour control element Yes Type of centrol element Yes Type of electrical connection of main circuit Yes Bage of protection (IP), front side Yes Bage of protection (IP), front side Yes | Number of auxiliary contacts as normally open contact | | 0 |
| Motor drive integrated Motor drive integrated No Voltage release optional Ko No Device construction Complete device in housing Suitable for ground mounting Ko Source construction Suitable for front mounting 4-hole Ko No Suitable for front mounting centre Ko No Suitable for intermediate mounting Ko No Suitable for intermediate mounting Ko No Colour control element Ko No Type of control of main circuit Ko Ko Type of electrical connection of main circuit Ko Ko Buggee of protection (IP), front side Ko Ko | Number of auxiliary contacts as change-over contact | | 0 |
| 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 No Type of control element Serve connection Type of electrical connection of main circuit Serve connection Begree of protection (IP), front side Serve connection | Motor drive optional | | No |
| Device constructionComplete device in housingSuitable for ground mountingYesSuitable for front mounting 4-holeNoSuitable for front mounting centreNoSuitable for distribution board installationNoSuitable for intermediate mountingNoSuitable for intermediate mountingNoColour control elementSuitableType of control elementSuitableInterlockableYesType of electrical connection of main circuitSetterneSuitable for intermediate mountingSetterneSuitable for intermediate< | Motor drive integrated | | No |
| 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 No Type of control element Suitable Type of electrical connection of main circuit Sector Proge of protection (IP), front side Sector | Voltage release optional | | No |
| Suitable for front mounting 4-holeNoSuitable for front mounting centreNoSuitable for distribution board installationNoSuitable for intermediate mountingNoColour control elementBlackType of control elementOtherInterlockableYesType of electrical connection of main circuitSet of the set of the | Device construction | | Complete device in housing |
| Suitable for front mounting centre No Suitable for distribution board installation No Suitable for intermediate mounting No Colour control element No Type of control element Black Interlockable Yes Type of electrical connection of main circuit Screw connection Degree of protection (IP), front side Image: Screw connection of main circuit | Suitable for ground mounting | | Yes |
| Suitable for distribution board installation No Suitable for intermediate mounting No Colour control element No Type of control element Black Interlockable Other Type of electrical connection of main circuit Screw connection Degree of protection (IP), front side Image: Screw connection | Suitable for front mounting 4-hole | | No |
| Suitable for intermediate mounting No Suitable for intermediate mounting Black Colour control element Other Type of control element Yes Interlockable Screw connection of main circuit Degree of protection (IP), front side Yes | Suitable for front mounting centre | | No |
| Colour control element Black Type of control element Other Interlockable Yes Type of electrical connection of main circuit Screw connection Degree of protection (IP), front side Image: Screw connection | Suitable for distribution board installation | | No |
| Type of control element Other Interlockable Yes Type of electrical connection of main circuit Screw connection Degree of protection (IP), front side Image: Screw connection | Suitable for intermediate mounting | | No |
| Interlockable Yes Type of electrical connection of main circuit OB Generation (IP), front side ID Egree of protection (IP), fr | Colour control element | | Black |
| Type of electrical connection of main circuit Screw connection Degree of protection (IP), front side IP65 | Type of control element | | Other |
| Degree of protection (IP), front side | Interlockable | | Yes |
| | Type of electrical connection of main circuit | | Screw connection |
| Degree of protection (NEMA) Other | Degree of protection (IP), front side | | IP65 |
| | Degree of protection (NEMA) | | Other |

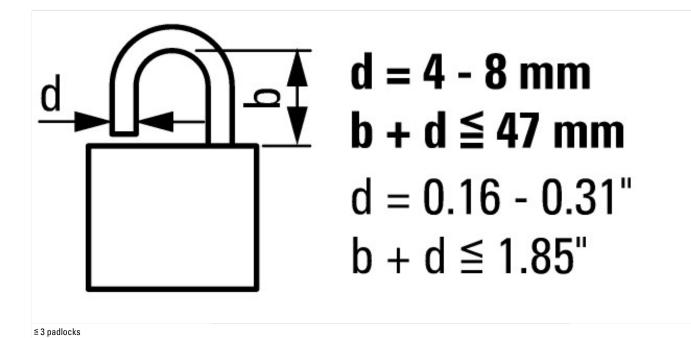
Approvals

North America Certification

For UL/CSA certification order article number 255898

Dimensions





06/18/2021