DATASHEET - TM-3-8326/E/SVB



Control circuit switches, TM, 10 A, flush mounting, 3 contact unit(s), Contacts: 6, 90 °, up to 250 V AC per contact, Design number 8326



Part no. TM-3-8326/E/SVB Catalog No. 045498

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| Delivery program | | | |
|--|----------------|--------------------|--|
| Product range | | | Control switches |
| Part group reference | | | TM |
| Basic function | | | Control circuit switches |
| Stop Function | | | Emergency switching off function |
| | | | With red rotary handle and yellow locking ring |
| Notes | | | up to 250 V AC per contact |
| Contacts | | | 6 |
| Locking facility | | | Lockable in the 0 (Off) position |
| Degree of Protection | | | Front IP65 |
| Design | | | flush mounting |
| | | | |
| Contact sequence | | | 0 |
| Switching angle | | 0 | 90 |
| Design number | | | 8326 |
| Front plate no. | | | 1 Network 1 Network 2 e.g. Helling or modelum frequency drive |
| Motor rating AC-23A, 50 - 60 Hz | | | |
| 400 V | P | kW | 3 |
| Rated uninterrupted current | I _u | Α | 10 |
| Note on rated uninterrupted current !u | | | Rated uninterrupted current $I_{\rm u}$ is specified for max. cross-section. |
| Number of contact units | | contact unit(s) | 3 |

Technical data

General

| Standards | | | IEC/EN 60947, VDE 0660, CSA, UL Control switch as per IEC/EN 60947-5-1 Auxiliary switch as per IEC/EN 60947-5-1 |
|---------------------------------------|-----------|------|---|
| Climatic proofing | | | Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30 |
| Ambient temperature | | | |
| Open | | °C | -25 - +50 |
| Overvoltage category/pollution degree | | | III/3 |
| Rated impulse withstand voltage | U_{imp} | V AC | 4000 |
| Mounting position | | | As required |
| Contacts | | | |

| Electrical characteristics | | | |
|----------------------------|----------------|------|-----|
| Rated operational voltage | U _e | V AC | 500 |

| Rated uninterrupted current | Iu | Α | 10 |
|---|----------------|-------------------|--|
| Note on rated uninterrupted current !u | | | Rated uninterrupted current $\mathbf{I}_{\mathbf{u}}$ is specified for max. cross-section. |
| Short-circuit rating | | | |
| Fuse | | A gG/gL | 10 |
| Switching capacity | | | |
| Safe isolation to EN 61140 | | | |
| Current heat loss per contact at I _e | | W | 0.15 |
| Current heat loss per auxiliary circuit at I _e (AC-15/230 V) | | CO | 0.15 |
| Lifespan, mechanical | Operations | x 10 ⁶ | >1 |
| Maximum operating frequency | Operations/h | | 1200 |
| AC | | | |
| AC-23A | | | |
| Motor rating AC-23A, 50 - 60 Hz | Р | kW | |
| 400 V 415 V | Р | kW | 3 |
| Control circuit reliability at 24 V DC, 10 mA | Fault | H _F | < 10 ⁻⁵ ,< 1 failure in 100,000 switching operations |
| | probability | ľ | C TO , C I failule in 100,000 Switching Operations |
| Terminal capacities | | | |
| Solid or stranded | | mm ² | 1 x 1,5 2 x 1,5 |
| Flexible with ferrules to DIN 46228 | | mm ² | 1 x 1.0 2 x 1.0 |
| Flexible | | mm ² | 1 x 1.5 2 x 1.5 |
| Terminal screw | | | M2.5 |
| Tightening torque for terminal screw | | Nm | 0.4 |
| Rating data for approved types | | | |
| Contacts | | | |
| Rated operational voltage | U _e | V AC | 300 |
| Rated uninterrupted current max. | | | |
| Main conducting paths | | | |
| General use | | Α | 10 |
| Auxiliary contacts | | | |
| General Use | lu | Α | 10 |
| Pilot Duty | | | A 300 |
| Switching capacity | | | |
| Maximum motor rating | | | |
| Single-phase | | | |
| 120 V AC | | НР | 0.33 |
| 240 V AC | | HP | 0.75 |
| 277 V AC | | HP | 0.75 |
| | | 111 | 0.73 |
| Three-phase | | LID | 0.75 |
| 120 V AC | | HP | 0.75 |
| 240 V AC | | HP | 1 |
| Terminal capacity | | | |
| Solid or flexible conductor with ferrule | | AWG | 14 |
| Terminal screw | | | M2.5 |

Design verification as per IEC/EN 61439

Tightening torque

| Technical data for design verification | | | |
|--|-------------------|----|------|
| Rated operational current for specified heat dissipation | In | Α | 10 |
| Heat dissipation per pole, current-dependent | P_{vid} | W | 0.15 |
| 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 |

lb-in

3.5

| 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 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 switch gear must be observed. $\label{eq:specification}$ |
| 10.12 Electromagnetic compatibility | | Is the panel builder's responsibility. The specifications for the switch gear must be observed. $\label{eq:constraint}$ |
| 10.13 Mechanical function | | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. $\label{eq:continuous}$ |

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])

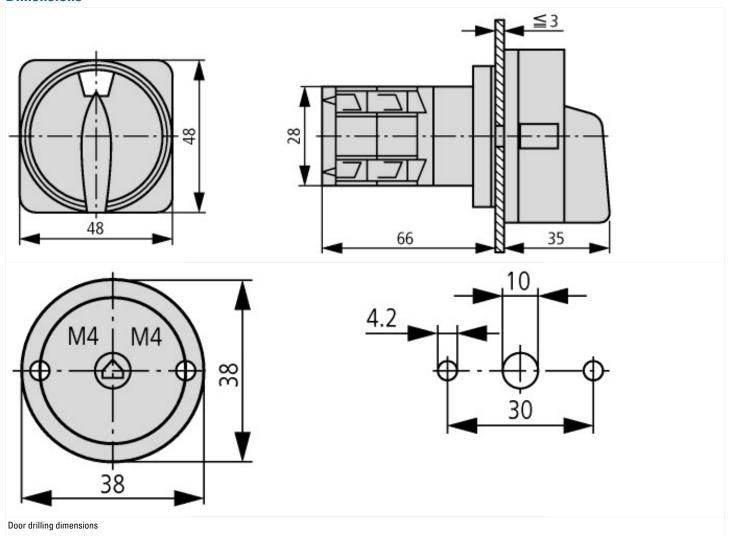
| [AKF060013]) | | |
|---|----|-----------|
| Version as main switch | | No |
| Version as maintenance-/service switch | | No |
| Version as safety switch | | No |
| Version as emergency stop installation | | Yes |
| Version as reversing switch | | No |
| Number of switches | | 1 |
| Max. rated operation voltage Ue AC | V | 500 |
| Rated operating voltage | V | 500 - 500 |
| Rated permanent current lu | Α | 10 |
| Rated permanent current at AC-23, 400 V | Α | |
| Rated permanent current at AC-21, 400 V | Α | 0 |
| Rated operation power at AC-3, 400 V | kW | 0 |
| Rated short-time withstand current lcw | kA | 0 |
| Rated operation power at AC-23, 400 V | kW | 0 |
| Switching power at 400 V | kW | 0 |
| Conditioned rated short-circuit current Iq | kA | 0 |
| Number of poles | | 6 |
| 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 |
| | | |

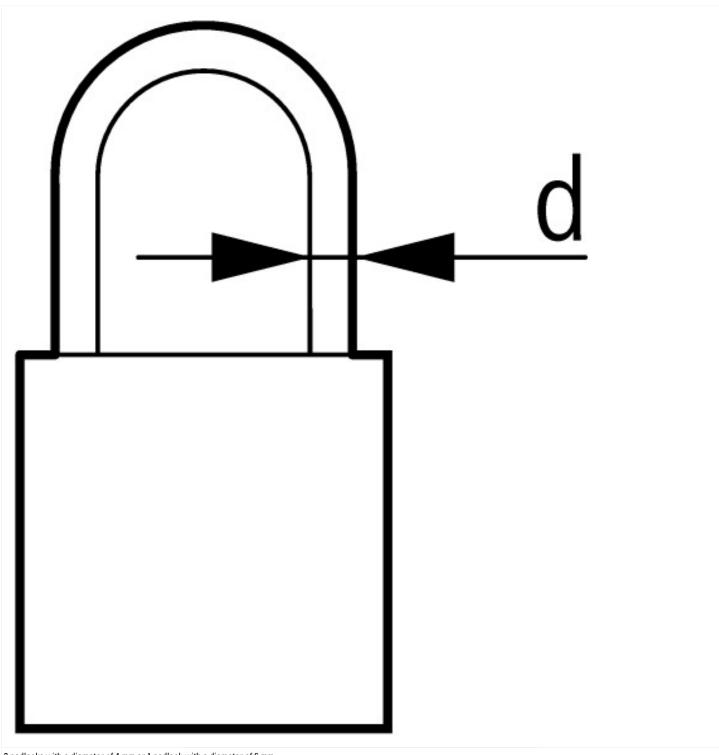
| Device construction | Built-in device fixed built-in technique |
|---|--|
| Suitable for ground mounting | No |
| Suitable for front mounting 4-hole | Yes |
| Suitable for front mounting centre | No |
| Suitable for distribution board installation | No |
| Suitable for intermediate mounting | No |
| 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 |

Approvals

| Product Standards | UL 508; CSA-C22.2 No. 14-05; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking |
|-----------------------------|---|
| UL File No. | E36332 |
| UL Category Control No. | NLRV |
| CSA File No. | UL report applies to both US and Canada |
| North America Certification | UL listed, certified by UL for use in Canada |
| Degree of Protection | IEC: IP65; UL/CSA Type: – |

Dimensions





2 padlocks with a diameter of 4 mm or 1 padlock with a diameter of 6 mm

Assets (links)

Declaration of CE Conformity

00002932

Instruction Leaflets

IL03801028Z2018_04

Additional product information (links)

| IL03801028Z Mini-Nockenschalter: main switc | h |
|--|--|
| IL03801028Z Mini-Nockenschalter: main switch | ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801028Z2018_04.pdf |
| 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 |

Ordering form for SOND switches and SOND front plates(DE_EN)

Ordering form for SOND switches and SOND front plates(DE_EN)

front plates(DE_EN)

ftp://ftp.moeller.net/DOCUMENTATION/PDF/MZ008005ZU_Orderform_Customized_Switch.pdf

ftp://ftp.moeller.net/DOCUMENTATION/PDF/MZ008006ZU_Orderform_Customized_Switch.pdf