

ON-OFF switches, Contacts: 3, 10 A, front plate: 0-1, 90 °, maintained, centre mounting

Powering Business Worldwide*

1/5

Part no. Article no. TM-2-8292/EZ 015096



Similar to illustration

| Delivery program | | | |
|---------------------------------|----------------|--------------------|---|
| Product range | | | Control switches |
| Part group reference | | | тм |
| Basic function | | | ON-OFF switches |
| | | | with black thumb grip and front plate |
| Contacts | | | 3 |
| Degree of Protection | | | Front IP65 |
| Design | | | centre mounting |
| | | | |
| Contact sequence | | | 0 |
| Switching angle | | 0 | 90 |
| Switching performance | | | maintained With 0 (Off) position |
| Front plate no. | | | F 056 |
| front plate | | | 0-1 |
| Motor rating AC-23A, 50 - 60 Hz | | | |
| 400 V | P | kW | 3 |
| Rated uninterrupted current | l _u | Α | 10 |
| Number of contact units | | contact unit(s) | 2 |

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 |
| Protection against direct contact when actuated from front (EN 50274) | | | Finger and back-of-hand proof |

| Contacts | | | |
|---|-------------------|-------------------|---|
| Electrical characteristics | | | |
| Rated operational voltage | U _e | V AC | 500 |
| Rated uninterrupted current | lu | Α | 10 |
| Note on rated uninterrupted current $!_{u}$ | | | Rated uninterrupted current lu 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 | P | kW | |
| 400 V 415 V | P | kW | 3 |
| Control circuit reliability at 24 V DC, 10 mA | Fault probability | H _F | $< 10^{-5}$, < 1 fault in 100000 operations |
| Terminal capacities | | | |
| Solid or stranded | | mm ² | 1 x 1,5 2 x 1,5 |
| Flexible | | mm ² | 1 x 1.5 2 x 1.5 |
| Terminal screw | | | M2.5 |
| Max. tightening torque | | Nm | 0.35 |
| Rating data for approved types | | | |
| Contacts | | | |
| Rated operational voltage | U _e | V AC | 300 |
| Rated uninterrupted current max. | | | |
| Main conducting paths | | | |
| General use | I _U | Α | 10 |
| Auxiliary contacts | | | |
| General Use | I _U | 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 | | НР | 0.75 |
| Three-phase | | | |

Three-phase

120 V AC 240 V AC

Terminal capacity

Terminal screw

Tightening torque

Solid or flexible conductor with ferrule
Flexible

Design verification as per IEC/EN 61439

| 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 |

HP

ΗР

AWG

AWG

lb-in

0.75

M2.5 5

| 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 | | | Please enquire |
| 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. $\label{eq:specification}$ |
| 10.13 Mechanical function | | | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |

Technical data ETIM 6.0

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@ss8.1-27-37-14-03

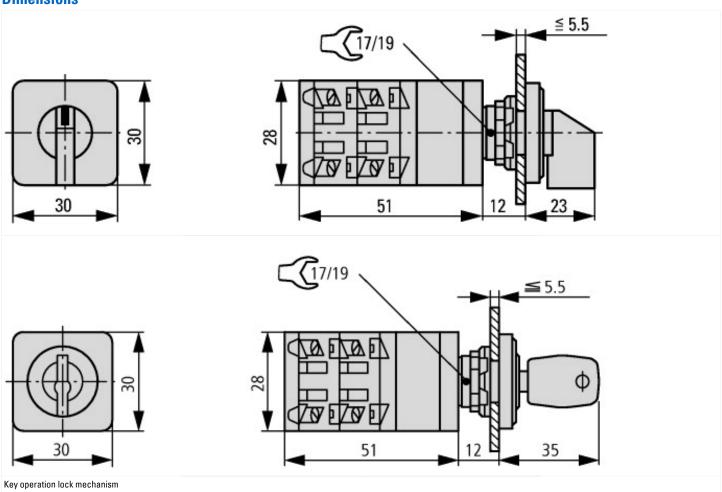
| Version as maintenance-/service switch Version as safety switch Version as emergency stop installation Version as reversing switch Max. rated operation voltage Ue AC Rated operating voltage Rated permanent current lu Rated permanent current at AC-21, 400 V Rated permanent current at AC-21, 400 V Rated operation power at AC-3, 400 V Rated operation power at AC-23, 400 V Rated operation power at AC-20, 400 V Rated operation power at AC-21, 400 V Rated | [AKF060010]) | | |
|--|---|----|-----------|
| Version as safety switch Version as emergency stop installation Version as reversing switch Max. rated operation voltage Ue AC Max. rated operation voltage Ue AC Rated operating voltage Rated operation power at AC-21, 400 V Rated operation power at AC-21, 400 V Rated operation power at AC-3, 400 V Rated operation power at AC-3, 400 V Rated operation power at AC-3, 400 V Rated operation power at AC-23, 400 V Rated operation power at AC-24, 400 V Rated operation power at AC-25, 400 V Rated operation power at AC-26, 400 V Rated operation power at AC-27, 400 V Rated operation power at AC-29, 4 | Version as main switch | | No |
| Version as emergency stop installation Version as reversing switch Max. rated operation voltage Ue AC Rated operating voltage Rated operating voltage Rated permanent current lu Rated permanent current at AC-21, 400 V Rated permanent current at AC-3, 400 V Rated peration power at AC-3, 400 V Rated short-time withstand current lcw Rated operation power at AC-23, 400 V Rated short-time withstand current lcw Rated operation power at AC-23, 400 V Rated operation power at AC-23, 400 V Rated operation power at AC-23, 400 V Rounditioned rated short-circuit current lq Rated operation power at AC-23, 400 V Rounditioned rated short-circuit current lq Rated operation power at AC-23, 400 V Rounditioned rated short-circuit current lq Roundber of poles Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact Motor drive optional Motor drive integrated No No No No No No No No No N | Version as maintenance-/service switch | | No |
| No Max. rated operation voltage Ue AC Max. rated operating voltage Max. rated operating voltage Rated operating voltage Rated permanent current lu Rated permanent current at AC-21, 400 V Rated operation power at AC-3, 400 V Rated operation power at AC-3, 400 V Rated operation power at AC-23, 400 V Rated short-time withstand current lcw Rated operation power at AC-23, 400 V Rated short-time withstand current lcw Rated operation power at AC-23, 400 V Rw Routed operation power at 400 V Conditioned rated short-circuit current Iq RATED Routed operation power at 400 V Conditioned rated short-circuit current Iq RATED Routed operation power at 400 V Conditioned rated short-circuit current Iq RATED Routed operation power at 400 V Rou | Version as safety switch | | No |
| Max. rated operation voltage Ue AC Rated operating voltage Rated operating voltage Rated permanent current lu Rated permanent current at AC-21, 400 V Rated permanent current at AC-21, 400 V Rated operation power at AC-3, 400 V Rated short-time withstand current lcw Rated operation power at AC-23, 400 V Rated short-time withstand current lcw Rated operation power at AC-23, 400 V Rw Rated operation power at AC-23, 400 V Rw Conditioned rated short-circuit current lq RA Number of poles Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as normally open contact Motor drive optional Motor drive integrated No Motor drive integrated No | Version as emergency stop installation | | No |
| Rated operating voltage Rated permanent current lu Rated permanent current at AC-21, 400 V Rated permanent current at AC-21, 400 V Rated operation power at AC-3, 400 V Rated short-time withstand current lcw Rated operation power at AC-23, 400 V Rated operation power at AC-21, 400 V Rated operation power at AC-23, 400 V Rated operation | Version as reversing switch | | No |
| Rated permanent current lu Rated permanent current at AC-21, 400 V Rated operation power at AC-3, 400 V Rated short-time withstand current lcw Rated operation power at AC-23, 400 V Rated short-time withstand current lcw Rated operation power at AC-23, 400 V Roted operation power at AC-3, 400 V Roted operation power at AC-3, 400 V Rote operation power at AC-23, 400 V Rote operation power at AC | Max. rated operation voltage Ue AC | V | 500 |
| Rated permanent current at AC-21, 400 V Rated operation power at AC-3, 400 V Rated short-time withstand current lcw Rated operation power at AC-23, 400 V Rated operation power at AC-23, 400 V Rw 0 Switching power at 400 V Rw 0 Conditioned rated short-circuit current lq Rated operation power at 400 V Rw 0 Conditioned rated short-circuit current lq Rated operation power at 400 V Rw 0 Conditioned rated short-circuit current lq Rated operation power at 400 V Rw 0 Conditioned rated short-circuit current lq Rated operation power at 400 V Rw 0 Conditioned rated short-circuit current lq Rated operation power at 400 V Rw 0 Conditioned rated short-circuit current lq Rated operation power at AC-23, 400 V Rw 0 Conditioned rated short-circuit current lq Rated operation power at AC-3, 400 V Rw 0 Rw 0 Rw 0 Rw 0 Roter of auxiliary contacts as normally closed contact Rw 0 | Rated operating voltage | V | 500 - 500 |
| Rated operation power at AC-3, 400 V Rated short-time withstand current Icw Rated operation power at AC-23, 400 V RW Rated operation power at AC-23, 400 V RW Rounditioned rated short-circuit current Iq RATED ROUNDING RO | Rated permanent current lu | Α | 10 |
| Rated short-time withstand current lcw Rated operation power at AC-23, 400 V RW O Switching power at 400 V RW Conditioned rated short-circuit current Iq RATED SWITCHING SWITCHI | Rated permanent current at AC-21, 400 V | А | 0 |
| Rated operation power at AC-23, 400 V Switching power at 400 V Conditioned rated short-circuit current Iq kA 0 Number of poles 3 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 Motor drive integrated kW 0 0 No | Rated operation power at AC-3, 400 V | kW | 0 |
| Switching power at 400 V Conditioned rated short-circuit current Iq kA 0 Number of poles 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 Motor drive integrated kW 0 0 0 No | Rated short-time withstand current lcw | kA | 0 |
| Conditioned rated short-circuit current Iq kA 0 Number of poles 3 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 Number of auxiliary contacts as change-over contact 0 Motor drive optional No Motor drive integrated No | Rated operation power at AC-23, 400 V | kW | 0 |
| Number of poles Number of auxiliary contacts as normally closed contact Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact No Motor drive optional Motor drive integrated 3 0 0 No | Switching power at 400 V | kW | 0 |
| Number of auxiliary contacts as normally closed contact O Number of auxiliary contacts as normally open contact O Number of auxiliary contacts as change-over contact O Motor drive optional Motor drive integrated No | Conditioned rated short-circuit current Iq | kA | 0 |
| Number of auxiliary contacts as normally open contact Number of auxiliary contacts as change-over contact O Motor drive optional No Motor drive integrated No | Number of poles | | 3 |
| Number of auxiliary contacts as change-over contact Motor drive optional Motor drive integrated No | Number of auxiliary contacts as normally closed contact | | 0 |
| Motor drive optional No | Number of auxiliary contacts as normally open contact | | 0 |
| Motor drive integrated No | Number of auxiliary contacts as change-over contact | | 0 |
| | Motor drive optional | | No |
| Voltage release optional No | Motor drive integrated | | No |
| | Voltage release optional | | No |

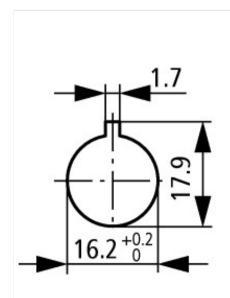
| Device construction | Built-in device fixed built-in technique |
|---|--|
| Suitable for ground mounting | No |
| Suitable for front mounting 4-hole | No |
| Suitable for front mounting center | Yes |
| Suitable for distribution board installation | No |
| Suitable for intermediate mounting | No |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

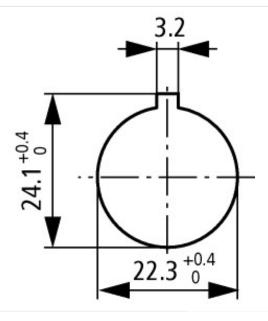
Approvals

| 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







Door drilling dimensions

Drilling dimensions: either 16.2 mm = without reduction RMQ16 or 22.3 mm = with reduction RMQ Titan

Additional product information (links)

| IL03801025Z On-Off-switch, changeover switch | L03801025Z On-Off-switch, changeover switch, control switch | | |
|--|--|--|--|
| IL03801025Z On-Off-switch, changeover switch, control switch | ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801025Z2014_12.pdf | | |
| Form for ordering non-standard front plates | http://ecat.moeller.net/flip-cat/?edition=HPLEN&startpage=4.87 | | |
| Display flip catalog page. | http://ecat.moeller.net/flip-cat/?edition=K115A&startpage=40 | | |
| 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 | | |