



On-Off switch, T3, 32 A, flush mounting, 6 contact unit(s), 6 pole, Emergency switching off function, with red thumb grip and yellow front plate



Part no. T3-6-13/E-RT
Catalog No. 004225

Similar to illustration

Delivery program

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------|-----------------|---|--|---|---|---|--|---|---|--|---|---|--|---|---|--|---|---|--|---|---|--|---|---|--|---|---|--|---|---|--|---|----|--|---|----|--|---|----|--|---|
| Product range | | | On-Off switch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Part group reference | | | T3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stop Function | | | Emergency switching off function | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | with red thumb grip and yellow front plate | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Number of poles | | | 6 pole | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Degree of Protection | | | Front IP65 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Design | | | flush mounting | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Contact sequence | | | <table border="1"> <tr> <td></td> <td>0</td> <td>1</td> </tr> <tr> <td>1</td> <td></td> <td>X</td> </tr> <tr> <td>2</td> <td></td> <td>X</td> </tr> <tr> <td>3</td> <td></td> <td>X</td> </tr> <tr> <td>4</td> <td></td> <td>X</td> </tr> <tr> <td>5</td> <td></td> <td>X</td> </tr> <tr> <td>6</td> <td></td> <td>X</td> </tr> <tr> <td>7</td> <td></td> <td>X</td> </tr> <tr> <td>8</td> <td></td> <td>X</td> </tr> <tr> <td>9</td> <td></td> <td>X</td> </tr> <tr> <td>10</td> <td></td> <td>X</td> </tr> <tr> <td>11</td> <td></td> <td>X</td> </tr> <tr> <td>12</td> <td></td> <td>X</td> </tr> </table> | | 0 | 1 | 1 | | X | 2 | | X | 3 | | X | 4 | | X | 5 | | X | 6 | | X | 7 | | X | 8 | | X | 9 | | X | 10 | | X | 11 | | X | 12 | | X |
| | 0 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | X | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Switching angle | | ° | 90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Switching performance | | | maintained | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Design number | | | 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Front plate no. | | | FS 908 GE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| front plate | | | 0-1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Motor rating AC-23A, 50 - 60 Hz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 400 V | P | kW | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated uninterrupted current | I_u | A | 32 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Note on rated uninterrupted current I_u | | | Rated uninterrupted current I_u is specified for max. cross-section. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Number of contact units | | contact unit(s) | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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 | | | |
| Open | | °C | -25 - +50 |
| 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

| | | | |
|---|----------|--------------|--|
| Mechanical variables | | | |
| Number of poles | | | 6 pole |
| Electrical characteristics | | | |
| Rated operational voltage | U_e | V AC | 690 |
| Rated uninterrupted current | I_u | A | 32 |
| Note on rated uninterrupted current I_u | | | Rated uninterrupted current I_u is specified for max. cross-section. |
| Load rating with intermittent operation, class 12 | | | |
| AB 25 % DF | | $\times I_e$ | 2 |
| AB 40 % DF | | $\times I_e$ | 1.6 |
| AB 60 % DF | | $\times I_e$ | 1.3 |
| Short-circuit rating | | | |
| Fuse | | A gG/gL | 35 |
| Rated short-time withstand current (1 s current) | I_{cw} | A_{rms} | 650 |
| Note on rated short-time withstand current I_{cw} | | | Current for a time of 1 second |
| Rated conditional short-circuit current | I_q | kA | 1 |

Switching capacity

| | | | |
|--|--------------|---------------|-------|
| cos ϕ rated making capacity as per IEC 60947-3 | | A | 320 |
| Rated breaking capacity cos ϕ to IEC 60947-3 | | A | |
| 230 V | | A | 260 |
| 400/415 V | | A | 260 |
| 500 V | | A | 240 |
| 690 V | | A | 170 |
| Safe isolation to EN 61140 | | | |
| between the contacts | | V AC | 440 |
| Current heat loss per contact at I_e | | W | 1.1 |
| Current heat loss per auxiliary circuit at I_e (AC-15/230 V) | | CO | 1.1 |
| Lifespan, mechanical | Operations | $\times 10^6$ | > 0.5 |
| Maximum operating frequency | Operations/h | | 1200 |
| AC | | | |
| AC-3 | | | |
| Rating, motor load switch | P | kW | |
| 220 V 230 V | P | kW | 5.5 |
| 230 V Star-delta | P | kW | 7.5 |
| 400 V 415 V | P | kW | 11 |
| 400 V Star-delta | P | kW | 15 |
| 500 V | P | kW | 15 |
| 500 V Star-delta | P | kW | 18.5 |
| 690 V | P | kW | 11 |
| 690 V Star-delta | P | kW | 22 |
| Rated operational current motor load switch | | | |
| 230 V | I_e | A | 23.7 |
| 230 V star-delta | I_e | A | 32 |

| | | | |
|---|-------------------|----------------|--|
| 400V 415 V | I _e | A | 23.7 |
| 400 V star-delta | I _e | A | 32 |
| 500 V | I _e | A | 23.7 |
| 500 V star-delta | I _e | A | 32 |
| 690 V | I _e | A | 14.7 |
| 690 V star-delta | I _e | A | 25.5 |
| AC-21A | | | |
| Rated operational current switch | | | |
| 440 V | I _e | A | 32 |
| AC-23A | | | |
| Motor rating AC-23A, 50 - 60 Hz | | | |
| 230 V | P | kW | 7.5 |
| 400 V 415 V | P | kW | 15 |
| 500 V | P | kW | 15 |
| 690 V | P | kW | 15 |
| Rated operational current motor load switch | | | |
| 230 V | I _e | A | 32 |
| 400 V 415 V | I _e | A | 32 |
| 500 V | I _e | A | 26.4 |
| 690 V | I _e | A | 17 |
| DC | | | |
| DC-1, Load-break switches L/R = 1 ms | | | |
| Rated operational current | | | |
| | I _e | A | 25 |
| Voltage per contact pair in series | | | |
| | | V | 60 |
| DC-21A | | | |
| Rated operational current | | | |
| | I _e | A | 1 |
| Contacts | | | |
| | | Quantity | 1 |
| DC-23A, motor load switch L/R = 15 ms | | | |
| 24 V | | | |
| Rated operational current | | | |
| | I _e | A | 25 |
| Contacts | | | |
| | | Quantity | 1 |
| 48 V | | | |
| Rated operational current | | | |
| | I _e | A | 25 |
| Contacts | | | |
| | | Quantity | 2 |
| 60 V | | | |
| Rated operational current | | | |
| | I _e | A | 25 |
| Contacts | | | |
| | | Quantity | 3 |
| 120 V | | | |
| Rated operational current | | | |
| | I _e | A | 12 |
| Contacts | | | |
| | | Quantity | 3 |
| 240 V | | | |
| Rated operational current | | | |
| | I _e | A | 5 |
| Contacts | | | |
| | | Quantity | 5 |
| DC-13, Control switches L/R = 50 ms | | | |
| Rated operational current | | | |
| | I _e | A | 20 |
| 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 (1 - 6) 2 x (1 - 6) |
| Flexible with ferrules to DIN 46228 | | mm ² | 1 x (0.75 - 4) 2 x (0.75 - 4) |
| Terminal screw | | | M4 |
| Tightening torque for terminal screw | | Nm | 1.6 |

Technical safety parameters:

| Notes | | | B10 _d values as per EN ISO 13849-1, table C1 |
|--|----------------|-------|---|
| Rating data for approved types | | | |
| Contacts | | | |
| Rated operational voltage | U _e | V AC | 600 |
| Rated uninterrupted current max. | | | |
| Main conducting paths | | | |
| General use | | A | 25 |
| Auxiliary contacts | | | |
| General Use | I _U | A | 10 |
| Pilot Duty | | | A 600 |
| Switching capacity | | | |
| Maximum motor rating | | | |
| Single-phase | | | |
| 120 V AC | | HP | 1.5 |
| 200 V AC | | HP | 3 |
| 240 V AC | | HP | 3 |
| Three-phase | | | |
| 200 V AC | | HP | 3 |
| 240 V AC | | HP | 3 |
| 480 V AC | | HP | 7.5 |
| 600 V AC | | HP | 10 |
| Short Circuit Current Rating | | | |
| | | SCCR | |
| Basic Rating | | kA | 5 |
| max. Fuse | | A | 40 |
| High fault rating | | kA | 10 |
| max. Fuse | | A | 40, Class J |
| Terminal capacity | | | |
| Solid or flexible conductor with ferrule | | AWG | 14 - 10 |
| Terminal screw | | | M4 |
| Tightening torque | | lb-in | 17.7 |

Design verification as per IEC/EN 61439

| | | | |
|--|-------------------|----|--|
| Technical data for design verification | | | |
| Rated operational current for specified heat dissipation | I _n | A | 32 |
| Heat dissipation per pole, current-dependent | P _{vid} | W | 1.1 |
| 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 |
| 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. |

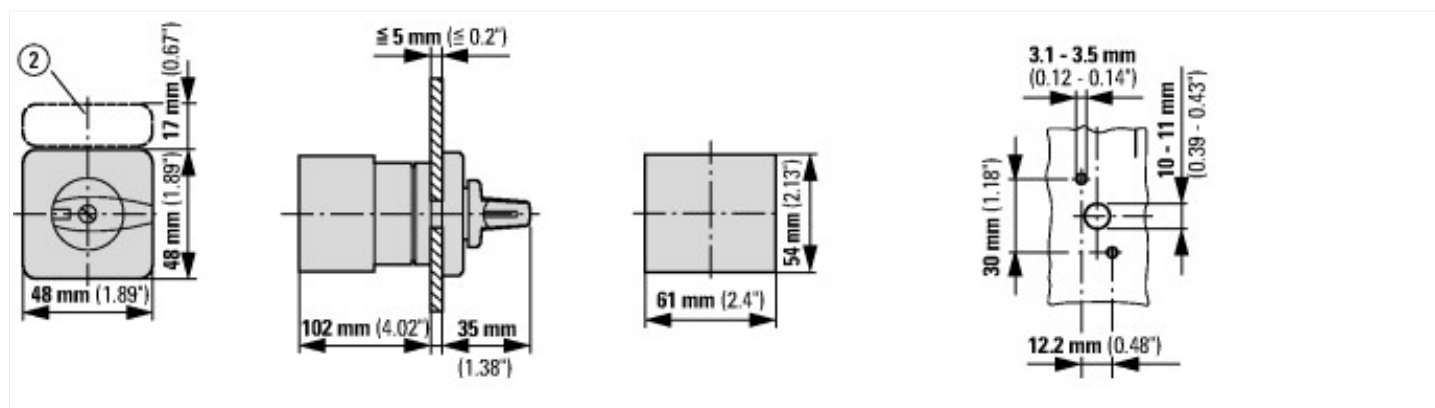
Technical data ETIM 7.0

| | | | |
|---|----|--|--|
| Low-voltage industrial components (EG000017) / Switch disconnecter (EC000216) | | | |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnecter (ecI@ss10.0.1-27-37-14-03 [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 U _e AC | V | | 690 |
| Rated operating voltage | V | | 690 - 690 |
| Rated permanent current I _u | A | | 32 |
| Rated permanent current at AC-23, 400 V | A | | 32 |
| Rated permanent current at AC-21, 400 V | A | | 32 |
| Rated operation power at AC-3, 400 V | kW | | 11 |
| Rated short-time withstand current I _{cw} | kA | | 0.65 |
| Rated operation power at AC-23, 400 V | kW | | 15 |
| Switching power at 400 V | kW | | 15 |
| Conditioned rated short-circuit current I _q | kA | | 1 |
| 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 | | | Toggle |
| Interlockable | | | No |
| Type of electrical connection of main circuit | | | Screw connection |
| Degree of protection (IP), front side | | | IP65 |
| Degree of protection (NEMA) | | | 12 |

Approvals

| | |
|-----------------------------|--|
| Product Standards | UL 60947-4-1; CSA - C22.2 No. 60947-4-1-14; CSA-C22.2 No. 94; IEC/EN 60947-3; CE marking |
| UL File No. | E36332 |
| UL Category Control No. | NLRV |
| CSA File No. | 12528 |
| CSA Class No. | 3211-05 |
| North America Certification | UL listed, CSA certified |
| Suitable for | Branch circuits, suitable as motor disconnect |
| Degree of Protection | IEC: IP65; UL/CSA Type 1, 12 |

Dimensions



② ZFS-... Label mount not included as standard

Additional product information (links)

IL03801020Z (AWA1150-0586) Cam switches: flush mounting

| | |
|--|---|
| IL03801020Z (AWA1150-0586) Cam switches: flush mounting | ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL03801020Z2018_05.pdf |
| Display flip catalog page. | http://ecat.moeller.net/flip-cat/?edition=K115A&startpage=41 |
| 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) | ftp://ftp.moeller.net/DOCUMENTATION/PDF/MZ008005ZU_Orderform_Customized_Switch.pdf |
| Ordering form for SOND switches and SOND front plates(DE_EN) | ftp://ftp.moeller.net/DOCUMENTATION/PDF/MZ008006ZU_Orderform_Customized_Switch.pdf |