ON-OFF button, T0, 20 A, surface mounting, 2 contact unit(s), Contacts: 4, Spring-return in START position, 90 °, maintained, With 0 (Off) position, With spring-return to 1, 0-1<START, Design number 15512



Part no. T0-2-15512/l1 207093

| General specifications                         |  |
|--|--|
| Product name                                   | Eaton Moeller® series TO Accessory ON OFF button                                 |
| Part no.                                       | T0-2-15512/l1  |
| EAN  | 4015082070939  |
| Product Length/Depth                           | 137 millimetre   |
| Product height                                 | 102 millimetre   |
| Product width                                  | 80 millimetre  |
| Product weight                                 | 0.264 kilogram   |
| Certifications                                 | IEC/EN 60204<br>IEC/EN 60947-3<br>IEC/EN 60947<br>VDE 0660                       |
| Product Tradename                              | ТО   |
| Product Type                                   | Accessory  |
| Product Sub Type                               | ON OFF button  |
| Catalog Notes                                  | Rated Short-time Withstand Current (Icw) for a time of 1 second                  |
| Features & Functions                           |  |
| Features                                       | Complete device in housing   |
| Fitted with:                                   | 0 (off) position<br>Retraction in 0-position<br>Black thumb grip and front plate |
| Inscription                                    | " 0-1 <start "<="" td=""></start>  |
| Number of poles                                | Two-pole   |
| General information                            |  |
| Degree of protection                           | IP65   |
| Degree of protection (front side)              | IP65<br>NEMA 12  |
| Lifespan, mechanical                           | 400,000 Operations   |
| Mounting method                                | Surface mounting   |
| Mounting position                              | As required  |
| Number of contact units                        | 2  |
| Operating frequency                            | 1200 Operations/h  |
| Overvoltage category                           | III  |
| Pollution degree                               | 3  |
| Product category                               | Control switches   |
| Rated impulse withstand voltage (Uimp)         | 6000 V AC  |
| Safe isolation                                 | 440 V AC, Between the contacts, According to EN 61140                            |
| Safety parameter (EN ISO 13849-1)              | B10d values as per EN ISO 13849-1, table C.1                                     |
| Shock resistance                               | 15 g, Mechanical, According to IEC/EN 60068-2-27, Half-sinusoidal shock 20 ms    |
| Suitable for                                   | Ground mounting  |
| Switching angle                                | 90 °   |
| Туре   | ON-OFF button  |
| Climatic environmental conditions              |  |
| Ambient operating temperature - min            | -25 °C   |
| Ambient operating temperature - max            | 40 °C  |
| Ambient operating temperature (enclosed) - min | -25 °C   |
| Ambient operating temperature (enclosed) - max | 40 °C  |
| Climatic proofing                              | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30   |

| Ferminal capacities  |   |
|--|---|
| Terminal capacity (flexible with ferrule)                              | 1 x (0.75 - 2.5) mm², ferrules to DIN 46228   |
| Terminal capacity (solid/stranded)                                     | 2 x (0.75 - 2.5) mm <sup>2</sup> , ferrules to DIN 46228 2 x (1 - 2.5) mm <sup>2</sup>  |
| is initial supersty (sens) statistics,                                 | 1 x (1 - 2.5) mm <sup>2</sup>   |
| Screw size   | M3.5, Terminal screw  |
| Tightening torque  | 1 Nm, Screw terminals<br>8.8 lb-in, Screw terminals   |
| lectrical rating   |   |
| Rated breaking capacity at 220/230 V (cos phi to IEC 60947-3)          | 100 A   |
| Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)          | 110 A   |
| Rated breaking capacity at 500 V (cos phi to IEC 60947-3)              | 80 A  |
| Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3)          | 60 A  |
| Rated operating voltage (Ue) at AC - max                               | 690 V   |
| Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V            | 11.5 A  |
| Rated operational current (le) at AC-3, 380 V, 400 V, 415 V            | 11.5 A  |
| Rated operational current (Ie) at AC-3, 500 V                          | 9 A   |
| Rated operational current (Ie) at AC-3, 660 V, 690 V                   | 4.9 A   |
| Rated operational current (Ie) at AC-21, 440 V                         | 20 A  |
| Rated operational current (Ie) at AC-23A, 230 V                        | 13.3 A  |
| Rated operational current (Ie) at AC-23A, 400 V, 415 V                 | 13.3 A  |
| Rated operational current (Ie) at AC-23A, 500 V                        | 13.3 A  |
| Rated operational current (Ie) at AC-23A, 690 V                        | 7.6 A   |
| Rated operational current (Ie) at DC-1, load-break switches I/r = 1 ms | 10 A  |
| Rated operational current (le) at DC-13, control switches L/R = 50 ms  | 10 A  |
| Rated operational current (le) at DC-21, 240 V                         | 1 A   |
| Rated operational current (Ie) at DC-23A, 24 V                         | 10 A  |
| Rated operational current (Ie) at DC-23A, 48 V                         | 10 A  |
| Rated operational current (Ie) at DC-23A, 60 V                         | 10 A  |
| Rated operational current (le) at DC-23A, 120 V                        | 5 A   |
| Rated operational current (le) at DC-23A, 240 V                        | 5 A   |
| Rated operational current (le) star-delta at AC-3, 230 V               | 20 A  |
| Rated operational current (le) star-delta at AC-3, 400 V               | 20 A  |
| Rated operational current (le) star-delta at AC-3, 500 V               | 15.6 A  |
| Rated operational current (le) star-delta at AC-3, 690 V               | 8.5 A   |
| Rated operational power at AC-3, 415 V, 50 Hz                          | 5.5 kW  |
| Rated operational power at AC-3, 500 V, 50 Hz                          | 5.5 kW  |
| Rated operational power at AC-3, 690 V, 50 Hz                          | 4 kW  |
| Rated operational power at AC-23A, 220/230 V, 50 Hz                    | 3 kW  |
| Rated operational power at AC-23A, 400 V, 50 Hz                        | 5.5 kW  |
| Rated operational power at AC-23A, 500 V, 50 Hz                        | 7.5 kW  |
| Rated operational power at AC-23A, 690 V, 50 Hz                        | 5.5 kW  |
| Rated operational power star-delta at 220/230 V, 50 Hz                 | 5.5 kW  |
| Rated operational power star-delta at 380/400 V, 50 Hz                 | 7.5 kW  |
| Rated operational power star-delta at 500 V, 50 Hz                     | 7.5 kW  |
| Rated operational power star-delta at 690 V, 50 Hz                     | 5.5 kW  |
| Rated uninterrupted current (Iu)                                       | 20 A  |
| Uninterrupted current  | Rated uninterrupted current lu is specified for max. cross-section.   |
| hort-circuit rating  |   |
| Rated conditional short-circuit current (Iq)                           | 6 kA  |
| Rated short-time withstand current (Icw)                               | 320 A, Contacts, 1 second   |
| Short-circuit protection rating  | 20 A gG/gL, Fuse, Contacts  |
| witching capacity  |   |
| Load rating  | $1.3 \times l\#$ (with intermittent operation class 12, 60 % duty factor) $1.6 \times l\#$ (with intermittent operation class 12, 40 % duty factor) $2 \times l\#$ (with intermittent operation class 12, 25 % duty factor) |
| Number of contacts in series at DC-21A, 240 V                          | 1   |

| Number of contacts in series at DC-22A, 49 V  Number of contacts in series at DC-22A, 20 V  Number of contacts in series at DC-22A, 20 V  Stand making capacity up at 88 W (see pix to IEC/EN 95947-3)  Number of contacts in series at DC-22A, 20 V  Stand making capacity up at 88 W (see pix to IEC/EN 95947-3)  Tailure per 100,000 switching operations statistically determined, at 24 V DC, 10 milk per 100,000 switching operations statistically determined, at 24 V DC, 10 milk per 100,000 switching operations statistically determined, at 24 V DC, 10 milk per 100,000 switching operations statistically determined, at 24 V DC, 10 milk per 100,000 switching operations statistically determined, at 24 V DC, 10 milk per 100,000 switching operations statistically determined, at 24 V DC, 10 milk per 100,000 switching operations statistically determined, at 24 V DC, 10 milk per 100,000 switching operations statistically determined, at 24 V DC, 10 milk per 100,000 switching operations statistically determined, at 24 V DC, 10 milk per 100,000 switching operations statistically determined, at 24 V DC, 10 milk per 100,000 switching operations statistically determined, at 24 V DC, 10 milk per 100,000 switching operations statistically determined, at 24 V DC, 10 milk per 100,000 switching operations statistically determined, at 24 V DC, 10 milk per 100,000 switching operations statistically determined, at 24 V DC, 10 milk per 100,000 switching operations statistically determined, at 24 V DC, 10 milk per 100,000 switching operations statistically determined, at 24 V DC, 10 milk per 100,000 switching operations statistically determined, at 24 V DC, 10 milk per 100,000 switching operations statistically determined, at 24 V DC, 10 milk per 100,000 switching operations statistically determined, at 24 V DC, 10 milk per 100,000 switching operations statistically determined, at 24 V DC, 10 milk per 100,000 switching operations statistically determined, at 24 V DC, 10 milk per 100,000 switching operations statistically determined at 24 V DC, 1 |  |  |
|--|--|--|
| Number of contacts in series at DC-22A, 20V  Number of contacts in series at DC-22A, 20V  Rated making capacity up to 950V loss pin to ECIFN 9597-3)  Yolkape are contact pair in series  Control Circuit reliability  Number of contacts  Control Circuit reliability  Number of contacts  Control Circuit reliability  Actuator function  Actuator pe  Actuator function  Actuator pe  Actuator function  Actuator pe  Actuator function  Actuator fu | Number of contacts in series at DC-23A, 24 V                                     | 1  |
| Number of contacts in series at IDC-204, 170 V Number of contacts in series at IDC-204, 240 V Reader already capacity up to 800 V Contacts Control circuit reliability Influence of contacts Control circuit reliability Influence of contacts Actuator Actuator type Actuator type Actuator type Actuator type Toggle Toggle Actuator type Toggle Toggle Toggle Toggle Toggle Toggle Toggle Toggle | Number of contacts in series at DC-23A, 48 V                                     | 2  |
| Number of contacts in series at DC-204, 240 V Rated making capacity up to 80 V (cos plu to IEC/EN 89847-3)  Wholtage per contact pair in series  Contracts  Contract circuit reliability  Number of contacts  Actuator  Actuator  Actuator  Actuator of contacts  Actuat | Number of contacts in series at DC-23A, 60 V                                     | 3  |
| Rated making capacity up to 980 V (cos phi to EC/EN 80947-3)  Whitage per contact pair in series  Contacts  Contacts  Tailure per 100,000 switching operations statistically determined, at 24 V DC, 10 mAI  Number of certification  Actuator function  Actuator function  Actuator type  Actuator function  Actuator type  Actuator type  Toggle  Number of switch positions  Design verification  Equipment heat dissipation, current-dependent Pivid  Well of Olifon paration  Equipment heat dissipation, current-dependent Pivid  OW  Rated operational current for specified heat dissipation (In)  State heat dissipation, non-current-dependent Pivid  OW  Rated operational current for specified heat dissipation (In)  State heat dissipation, non-current-dependent Pivid  OW  Rated operational current for specified heat dissipation (In)  State heat dissipation of meritance of insulating materials to normal heat  102.22 Verification of fleatmass etability of enclosures  Meets the product standard's requirements.  102.23.1 Verification of fleatmass eclipsishing materials to normal heat  102.2.2 Fersional majors  102.2 Fersional majors  102.3 Fersional majors  102.4 Decrease only in connection with protective shield.  102.5 Mechanical impact  102.6 Fersional majors  102.7 Inscriptions  Meets the product standard's requirements.  102.8 Fersional majors  102.9 Fersional majors are there in except the product standard's requirements.  102.9 Fersional majors are the entire switchpear needs to be evaluated.  103.1 Personal majors are the entire switchpear needs to be evaluated.  104.1 Fersional destrical circuits and connections  105.2 Fersional majors are therefore the entire switchpear needs to be evaluated.  106.2 Fersional destrical circuits and connections  107.1 Internal electrical circuits and connections  108.1 Fersional circuits and connections  109.2 Fersional majors | Number of contacts in series at DC-23A, 120 V                                    | 3  |
| Wilsage per contact pair in series  Control circuit reliability  Number of contacts  Actuator  Actuator function  Actuator type  Actuator type  Actuator type  Toggle  Number of awich positions  Equipment heat dissipation, current-dependent Prid  Heat dissipation capacity Prids  Heat dissipation par pole, current-dependent Prid  Heat dissipation par pole, current-dependent Prid  Heat dissipation par pole, current-dependent Prid  Actuator for positions  Equipment heat dissipation, non-current-dependent Prid  Heat dissipation par pole, current-dependent Prid  Heat dissipation par pole, current-dependent Prid  Actuator for specific heat dissipation, non-current-dependent Prid  Heat dissipation par pole, current-dependent Prid  Balance dissipation par pole, current-dependent Prid  Heat dissipation par pole, current-dependent Prid  Heat dissipation par pole, current-dependent Prid  Balance dissipation, non-current-dependent Prid  Heat dissipation par pole, current-dependent Prid  Balance dissipation, non-current-dependent Prid  Balance dissipation dissipation dissipation dissipation dissipation dissipati | Number of contacts in series at DC-23A, 240 V                                    | 5  |
| Control circuit reliability Number of contacts  Actuator  Actuator fyre  | Rated making capacity up to 690 V (cos phi to IEC/EN 60947-3)                    | 130 A  |
| Control circuit reliability  Number of contacts  4  Actuator  Actuator function  Actuator function  Actuator function  Actuator function  Actuator function  Actuator function  Actuator rype  Actuator rype  Actuator rype  Actuator rype  Actuator rype  Toggle  3  Design verification  Equipment heat dissipation, current-dependent Pvid  Actuator price  Heat dissipation or apack; Prides  Heat dissipation or apack; Prides  Heat dissipation on apack; Prides  Heat dissipation on on-current-dependent Pvid  Actuator rype  Heat dissipation on repident price  Heat dissipation on repident price  Heat dissipation on repident price  Heat dissipation on resistance  Meats the product standard's requirements.  Meets the product standard's requirements.  10.2.3 Verification of terminal stability of enclosures  10.2.4 Resistance to ultra-violet (IV) radiation  10.2.5 Ufficing  Does not apply, since the entire switchpear needs to be evaluated.  10.3 Financy product standard's requirements.  Meets the product standard's requirements.  Meets the product standard's requirements.  10.3 Product standard's requirements.  Meets the product standard's requirements.  10.3 Incorporation of switching devices and components  10.4 Desirance and creepage distances  Meets the product standard's requirements.  Meets the product standard's requirements.  10.5 Incorporation of switching devices and components  10.6 Desirance and respo | Voltage per contact pair in series   | 60 V   |
| Mourber of contacts Actuator Actuator function Actuator function Actuator function Actuator function Actuator function Actuator type Toggle Number of switch positions  Design verification Equipment heat dissipation, current-dependent Pvid Heat dissipation capacity Pdiss UW Heat dissipation capacity Pdiss UW Heat dissipation per pole, current-dependent Pvid Heat dissipation per pole, current-dependent Pvid Heat dissipation per pole, current-dependent Pvid UW Heat dissipation per pole, current-dependent Pvid Heat dissipation non-current opendent Pvid UW Heat dissipation in the main stability of enclosures UW Static heat dissipation non-current dependent Pvid UW Heat dissipation in the main stability of enclosures UW 10.2.2 Oransion resistance Meets the product standard's requirements. UW resistance of insulating materials to normal heat UW resistance only in connection with protective shield. UW | Contacts   |  |
| Actuator function  Actuator function  Actuator function  Actuator function  Actuator function  Actuator type  Actuator type  Toggle  Toggle To | Control circuit reliability  |  |
| Actuator function  Actuator type  Actuator type  Number of switch positions  Beginner return in START position  Actuator type  Number of switch positions  Beginner of switch positions  Beginner of switch positions  Beginner of switch positions  Beginner theat dissipation, current-dependent Pvid  OW  Heat dissipation per pole, current-dependent Pvid  Heat dissipation per pole, current-dependent Pvid  Heat dissipation per pole, current-dependent Pvid  Bated operational current for specified heat dissipation lin  Static heat dissipation, non-current-dependent Pvs  OW  10.2.2 Corrosion resistance  Meets the product standard's requirements.  10.2.3.1 Verification of resistance of insulating materials to normal heat  10.2.2.3 Verification of resistance of insulating materials to normal heat  10.2.3.2 Verification of resistance of insulating materials to normal heat  10.2.4 Resistance to ultra-violet (IVI) rediation  10.2.5 Litting  Does not apply, since the entire switchgear needs to be evaluated.  10.2.7 Inscriptions  10.3 Degree of protection of assemblies  10.4 Dearnances and creopage distances  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  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9 Protection against electric shock  Does not apply, since the entire switchgear needs to be evaluated.  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9 Protection against electric shock  Does not apply, since the entire switchgear needs to be evaluated.  10.7 Internal electrical circuits and connections  10.8 February electric stency  10.9 Repeated of the switchgear needs to be evaluated.  10.7 Internal electrical circuits and connections  10.8 Leptance and creopage distances  10.9 Protection against electric stency  10.9 Repeated beated single and a treductors o | Number of contacts   | 4  |
| Actuator type Number of switch positions  Design verification  Equipment heat dissipation, current-dependent Pvid Heat dissipation per pole, current-dependent Pvid Heat dissipation per pole, current-dependent Pvid Heat dissipation per pole, current-dependent Pvid Rated operational current for specified heat dissipation (IIn) Static heat dissipation, non-current-dependent Pvid Rated operational current for specified heat dissipation (IIn) Static heat dissipation, non-current-dependent Pvid Mest dissipation, non-current-dependent Pvid Mest dissipation, non-current-dependent Pvid Mest dissipation, non-current-dependent Pvid Mest the product standard's requirements.  10.2.3 Verification of fermals stability of enclosures Mests the product standard's requirements.  10.2.3 Verification of fermals stability of enclosures Mests the product standard's requirements.  10.2.3 Verification of resistance of insulating materials to normal heat Mest the product standard's requirements.  10.2.4 Resistance to ultra-violet (IVV) radiation UV resistance only in connection with protective shield.  10.2 Financipations Mests the product standard's requirements.  10.2 Degree of protection of assemblies Does not apply, since the entries switchpear needs to be evaluated.  10.2 Protection against electric shock Does not apply, since the entries switchpear needs to be evaluated.  10.4 Protection against electric shock Does not apply, since the entries switchpear needs to be evaluated.  10.5 Incorporation of switching devices and components In Short-directive and connections Is the panel builder's responsibility.  10.4 Feating of enclosures made of insulating material In Short-directive and connections In the panel builder's responsibility.  10.4 Feating of enclosures made of insulating material In Short-circuit rating In the panel builder's responsibility. In the panel builder's responsibility. The specifications for the switchgear must be observed.  10.1 Mechanical function The device meets the requirements, provided the information in t | Actuator   |  |
| Design verification  Equipment heat dissipation, current-dependent Pvid 0W Heat dissipation capacity Pdiss 0W Heat dissipation capacity Pdiss 0W Rated operational current for specified heat dissipation (In) 2D A Static heat dissipation, non-current-dependent Pvid 0W 10.2.2 Corrosion resistance 0Weets the product standard's requirements. 10.2.3.1 Verification of thermal stability of enclosures 0Weets the product standard's requirements. 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3 Resistance to ultra-violet (IVI radiation 10.2.4 Resistance to ultra-violet (IVI radiation 10.2.5 Lifting 10.2.5 Mechanical impact 10.2.5 Verification of Verification 10.2.5 Ver | Actuator function  | Maintained<br>Spring-return to 1   |
| Design verification  Equipment heat dissipation, current-dependent Pvid 0W  Heat dissipation capacity Pdiss 0W  Heat dissipation per pole, current-dependent Pvid 0.5 W  Rated operational current for specified heat dissipation (In)  Static heat dissipation, per pole, current-dependent Pvid 0.5 W  10.2.2 Corrosion resistance 0Wets the product standard's requirements.  10.2.3 I Verification of thermal stability of enclosures Meets the product standard's requirements.  10.2.3 Verification of resistance of insulating materials to normal heat Meets the product standard's requirements.  10.2.4 Verification of tresistance of insulating materials to normal heat Meets the product standard's requirements.  10.2.5 Lifting 0Des not apply, since the entire switchgear needs to be evaluated.  10.2.5 Lifting 0Des not apply, since the entire switchgear needs to be evaluated.  10.2.5 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 Power-frequency electric strength Is the panel builder's responsibility.  10.9 Power-frequency electric strength Is the panel builder's responsibility.  10.9 Power-frequency electric strength Is the panel builder's responsibility.  10.9 Power-frequency electric strength Is the panel builder's responsibility.  10.10 Temperature rise The panel builder's responsibility.  10.10 Temperature rise The panel builder's responsibility.  10.11 Short-circuit rating Is the panel builder's responsibility.  10.12 Electromag | Actuator type  | Toggle   |
| Equipment heat dissipation, current-dependent Pvid  Heat dissipation capacity Pdiss  0 W  Heat dissipation per pole, current-dependent Pvid  Rated operational current for specified heat dissipation (In)  20 A  Static heat dissipation, non-current-dependent Pvs  10.22 Corrosion resistance  Meets the product standard's requirements.  10.23.1 Verification of thermal stability of enclosures  10.23.2 Verification of resistance of insulating materials to normal heat  10.23.3 Resist, of insul. mat. to abnormal heat/fire by internal elect. effects  10.24 Resistance to ultra-violet (UV) radiation  10.25 Lifting  Does not apply, since the entire switchgear needs to be evaluated.  10.26 Mechanical impact  10.27 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  10.7 Internal electric circuits and connections  In the panel builder's responsibility.  10.8 Connections for external conductors  Is the panel builder's responsibility.  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  Is the panel builder's responsibility.  10.12 Electromagnetic compatibility  Is the panel builder's responsibility.  10.12 Electromagnetic compatibility  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction  The device meets the requirements, provided the information in the instruction  | Number of switch positions   | 3  |
| Heat dissipation capacity Pdiss  Heat dissipation per pole, current-dependent Pvid  Rated operational current for specified heat dissipation (In)  Static heat dissipation, non-current-dependent Pvs  0 W  10.22 Corrosion resistance  10.23.1 Verification of thermal stability of enclosures  10.23.2 Verification of resistance of insulating materials to normal heat  10.23.3 Resist of insul. mat. to abnormal heat/fire by internal elect. effects  10.24 Resistance to ultra-violet (IV) radiation  10.25 Lifting  10.25 Lifting  10.26 Mechanical impact  10.27 Inscriptions  10.30 Degree of protection of assemblies  10.40 Clearances and creepage distances  10.50 Protection against electric shock  10.50 Protection against electric shock  10.50 Protection of switching devices and components  10.51 Internal electrical circuits and connections  10.52 Power-frequency electric strength  10.53 Impulse withstand voltage  10.54 Testing of enclosures made of insulating material  10.55 Internal electrical circuit retires and connections  10.55 Internal electrical circuits retired and components  10.56 Incorporation of switching devices and components  10.57 Internal electric electric shock  10.58 Connections for external conductors  10.59 Power-frequency electric strength  10.50 Incorporation of switching devices and components  10.51 Internal electrical circuit strength  10.52 Power-frequency electric strength  10.53 Impulse withstand voltage  10.54 Testing of enclosures made of insulating material  10.55 The panel builder's responsibility.  10.56 The panel builder's responsibility.  10.57 Internal electric active responsibility.  10.58 The panel builder's responsibility.  10.59 Temperature rise  10.50 The panel builder's responsibility.  10.51 The panel builder's responsibility.  10.52 Temperature rise  10.54 Testing of enclosures made of insulating material  10.55 Temperature rise  10.55 Temperature rise calculation. Eaton will provide heat dissipation data for the devices.  10.55 Temperature rise calculation in the instruction obse | Design verification  |  |
| Heat dissipation per pole, current-dependent Pvid  Rated operational current for specified heat dissipation (In)  Static heat dissipation, non-current-dependent Pvs  0 W  Meets the groduct standard's requirements.  10.2.3.1 Verification of thermal stability of enclosures  10.2.3.2 Verification of resistance of insulating materials to normal heat  10.2.3.2 Verification of resistance of insulating materials to normal heat  10.2.3.2 Verification of resistance of insulating materials to normal heat  10.2.3.2 Verification of resistance of insulating materials to normal heat  10.2.3.3 Resistance to ultra-violet (UV) radiation  10.2.4 Resistance to ultra-violet (UV) radiation  10.2.5 Lifting  10.2.5 Lifting  10.2.6 Mechanical impact  10.2.7 Inscriptions  10.3 Degree of protection of assemblies  10.3 Degree of protection of assemblies  10.4 Clearances and creepage distances  10.5 Protection against electric shock  10.6 Incorporation of switching devices and components  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9 Power-frequency electric strength  10.9 Sone tapply, since the entire switchgear needs to be evaluated.  10.9 Internal electrical circuits and connections  10.9 Internal electrical circuits and connections  10.9 Internal electrical circuits and connections  10.1 Thernal electrical circuits are doubters  10.2 Internal electrical circuits are doubters  10.3 Impulse withstand voltage  10.4 Fearing of enclosures made of insulating material  10.5 Internal electrical circuits are doubters  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 The panel builder's responsibility.  10.9 Internal electrical circuits and connections  10.1 Short-circuit rating              | Equipment heat dissipation, current-dependent Pvid                               | 0 W  |
| Rated operational current for specified heat dissipation (In)  Static heat dissipation, non-current-dependent Pvs  0 W  10.22 Corrosion resistance  10.2.3.1 Verification of thermal stability of enclosures  10.2.3.2 Verification of resistance of insulating materials to normal heat  10.2.3.3 Resists. of insul. mat. to abnormal heat/fire by internal elect. effects  10.2.4 Resistance to ultra-violet (UV) radiation  10.2.5 Lifting  10.2.5 Lifting  10.2.5 Lifting  10.2.6 Mechanical impact  10.2.7 Inscriptions  10.3 Degree of protection of assemblies  10.4 Clearances and creepage distances  10.5 Protection against electric shock  10.5 Protection against electric shock  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9 Power-frequency electric strength  10.9 Power-frequency electric istrength  10.9 Power-frequency electric istrength  10.9 Insulation of encolosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  10.13 Mechanical function  10.14 Mechanical function  10.15 Protection against electric strength  10.16 Insulating of enclosures made of insulating material  10.17 Internal electrical circuits and connections  10.18 Lift peanel builder's responsibility.  10.19 Power-frequency electric strength  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  10.14 Mechanical function  10.15 Mechanical function  10.16 Memory of the switchgear must be observed.  10.18 Mechanical function  10.19 Memory of the switchgear must be observed.  10.11 Short-circuit rating  10.11 Short-circuit rating  10.11 Short-circuit reting  10.12 Electromagnetic compatibility  10.13 Mechanical function  10.14 Mechanical function   | Heat dissipation capacity Pdiss  | 0 W  |
| Static heat dissipation, non-current-dependent Pvs  10.2.2 Corrosion resistance  10.2.3.1 Verification of thermal stability of enclosures  10.2.3.2 Verification of resistance of insulating materials to normal heat  10.2.3.3 Resists of insul. mat. to abnormal heat/fire by internal elect. effects  10.2.4 Resistance of unitar-violet (UV) radiation  10.2.5 Lifting  10.2.5 Lifting  10.2.5 Lifting  10.2.6 Meets the product standard's requirements.  10.2.1 Inscriptions  10.2.3 Inscriptions  10.3 Degree of protection of assemblies  10.3 Degree of protection of assemblies  10.4 Clearances and creepage distances  10.5 Protection against electric shock  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.13 Mechanical function  10.13 Mechanical function  10.13 Mechanical function  | Heat dissipation per pole, current-dependent Pvid                                | 0.6 W  |
| 10.2.2 Corrosion resistance  10.2.3.1 Verification of thermal stability of enclosures  10.2.3.2 Verification of thermal stability of enclosures  10.2.3.2 Verification of resistance of insulating materials to normal heat  10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects  10.2.4 Resistance to ultra-violet (UV) radiation  10.2.5 Lifting  10.2.5 Lifting  10.2.5 Inscriptions  10.2.7 Inscriptions  10.3.2 Opes not apply, since the entire switchgear needs to be evaluated.  10.4.1 Clearances and creepage distances  10.5 Protection against electric shock  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Meets the product standard's requirements.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Is the panel builder's responsibility.  In the panel builder's responsibility. The specifications for the switchgear must be observed.  In the device meets the requirements, provided the information in the instruction   | Rated operational current for specified heat dissipation (In)                    | 20 A   |
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| 10.2.32 Verification of resistance of insulating materials to normal heat 10.2.33 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3 Degree of protection of assemblies 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Power-frequency electric strength 10.9.1 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function  Meets the product standard's requirements. 10.2 Versistance only in connection with protective shield. 10.2 Power in connection with protective shield. 10.2 Power needs to be evaluated. 10.3 Does not apply, since the entire switchgear needs to be evaluated. 10.5 Protection against electric switchgear needs to be evaluated. 10.6 Incorporation of switching devices and components 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 The panel builder's responsibility. 10.9.2 Power-frequency electric strength 10.15 Expanel builder's responsibility. 10.16 The panel builder's responsibility. 10.17 Internal electrical circuit rating 10.18 Expanel builder's responsibility. 10.19 Expanel builder's responsibility. 11.10 Expanel builder's responsibility. 12.11 Expanel builder's responsibility. | 10.2.2 Corrosion resistance  | Meets the product standard's requirements.   |
| 10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects  10.2.4 Resistance to ultra-violet (UV) radiation  10.2.5 Lifting  10.2.6 Mechanical impact  10.2.6 Mechanical impact  10.2.7 Inscriptions  10.3 Degree of protection of assemblies  10.4 Clearances and creepage distances  10.4 Clearances and creepage distances  10.5 Protection against electric shock  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Is the panel builder's responsibility.  Is the panel builder's responsibility. The specifications for the switchgear must be observed.  Is the panel builder's responsibility. The specifications for the switchgear must be observed.  Is the panel builder's responsibility. The specifications for the switchgear must be observed.  | 10.2.3.1 Verification of thermal stability of enclosures                         | 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.  10.9.2 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  10.10 Temperature rise  The panel builder's responsibility.  10.10 Temperature rise  Is the panel builder's responsibility.  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   | 10.2.3.2 Verification of resistance of insulating materials to normal heat       | Meets the product standard's requirements.   |
| 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.  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.  10.9.2 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's responsibility.  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.   | 10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects | Meets the product standard's requirements.   |
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| 10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Is the panel builder's responsibility.  Is the panel builder's responsibility.  The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.  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  | 10.7 Internal electrical circuits and connections                                | Is the panel builder's responsibility.   |
| 10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Is the panel builder's responsibility.  The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.  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   | 10.8 Connections for external conductors   | Is the panel builder's responsibility.   |
| 10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Is the panel builder's responsibility.  The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.  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   | 10.9.2 Power-frequency electric strength   |  |
| 10.9.4 Testing of enclosures made of insulating material  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   |  | · · · · · · · · · · · · · · · · · · ·  |
| 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   |  | · · · · · · · · · · · · · · · · · · ·  |
| 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  |  | The panel builder is responsible for the temperature rise calculation. Eaton will              |
| observed.  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction   | 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  |  |

## **Technical data ETIM 9.0**

Low-voltage industrial components (EG000017) / Control switch (EC002611)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Control switch (ecl@ss13-27-37-14-14 [ACN998016])

| [AG14330010])                      |   |               |
|------------------------------------|---|---------------|
| Type of switch                     |   | On/Off switch |
| Number of poles                    |   | 2             |
| Max. rated operation voltage Ue AC | V | 690           |
| Rated permanent current lu         | Α | 20            |

| Number of switch positions                   | 3                      |
|--|------------------------|
| With zero (off) position                     | Yes                    |
| With retraction in 0-position                | Yes                    |
| Device construction                          | Surface mounted device |
| Width in number of modular spacings          | 0                      |
| Suitable for floor mounting                  | Yes                    |
| Suitable for front mounting                  | No                     |
| Suitable for distribution board installation | No                     |
| Suitable for intermediate mounting           | No                     |
| Complete device in housing                   | Yes                    |
| Type of control element                      | Toggle                 |
| Front shield size                            | 48x48 mm               |
| Degree of protection (IP), front side        | IP65                   |
| Degree of protection (NEMA), front side      | 12                     |