

Part no.

Article no.

Switch-disconnector, 4 pole, 63 A, With black rotary handle and drive shaft, surface mounting, Vertical connection

DMM-63/4

1314162



## **Delivery program**

| Product range                        |                |     | Switch-disconnector<br>Main switch                    |
|--------------------------------------|----------------|-----|---|
|                                      |                |     | maintenance switch                                    |
| Part group reference                 |                |     | DMM   |
|                                      |                |     | With black rotary handle and drive shaft              |
| Information about equipment supplied |                |     | auxiliary contact fitted by user.                     |
| Number of poles                      |                |     | 4 pole  |
| Auxiliary contacts                   |                |     |   |
| ť.                                   |                | N/0 | 0   |
| 7                                    |                | N/C | 0   |
| Notes                                |                |     | 1 padlock, Ø 5 mm                                     |
| Locking facility                     |                |     | Lockable in the 0 (Off) position                      |
| Degree of Protection                 |                |     | IP20  |
| Design                               |                |     | surface mounting                                      |
|                                      |                |     |   |
| Contact sequence                     |                |     | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ |
| Motor rating AC-23A, 50 - 60 Hz      |                |     |   |
| 400 V                                | Р              | kW  | 30  |
| Rated uninterrupted current          | Ι <sub>u</sub> | А   | 63  |
| Connection technique                 |                |     | Vertical connection                                   |

## Technical data

| General                               |                  |    |  |
|---------------------------------------|------------------|----|--|
| Standards                             |                  |    | IEC/EN 60947, VDE 0660, IEC/EN 60204,<br>Switch-disconnector according to IEC/EN 60947-3 |
| Certifications                        |                  |    | CE, RoHs, KEMA, GOST-R, Lloyds   |
| Ambient temperature                   |                  |    |  |
| Operation                             | 9                | °C | -25 - +55  |
| Storage                               | 9                | °C | -30 - +80  |
| Overvoltage category/pollution degree |                  |    | 111/3  |
| Rated impulse withstand voltage       | U <sub>imp</sub> | kV | 6  |
| Rated insulation voltage              | Ui               | V  | 1000   |
| Mounting position                     |                  |    | As required  |

| Protection against direct contact when actuated from front (EN 50274)   |                 |                  | Finger and back-of-hand proof                                       |
|---|-----------------|------------------|---|
| Contacts  |                 |                  | · · · · · · · · · · · · · · · · · · ·                               |
| Mechanical variables  |                 |                  |   |
| Number of poles   |                 |                  | 4 pole  |
| Auxiliary contacts  |                 |                  |   |
|   |                 | N/0              | 0   |
|   |                 | N/C              | 0   |
| Electrical characteristics  |                 | N/C              | 0   |
|   |                 | V A C            |   |
| Rated operational voltage   | U <sub>e</sub>  | V AC             | 690   |
| Rated uninterrupted current   | lu              | A                | 63  |
| Note on rated uninterrupted current ${\boldsymbol{!}}_{\boldsymbol{u}}$ |                 |                  | Rated uninterrupted current lu is specified for max. cross-section. |
| Short-circuit rating  |                 |                  |   |
| fuse  |                 |                  | 80/50   |
| Rated conditional short-circuit current                                 | lq              | kA               | In = 80: 50<br>In = 50: 100   |
| Breaking current  |                 | kA               | ln = 80: 9.7<br>ln = 50: 9.6  |
| max. let-through energy   |                 | kA²s             | ln = 80: 44<br>ln = 50: 10  |
| Rated short-time withstand current (1 s current)                        | I <sub>cw</sub> | A <sub>rms</sub> | 1500  |
| Note on rated short-time withstand current lcw                          |                 |                  | Current for a time of 1 second                                      |
| Switching capacity  |                 |                  |   |
| Rated breaking capacity $\cos \phi$ to IEC 60947-3                      |                 | А                |   |
| 400/415 V   |                 | A                | 504   |
| 500 V   |                 | А                | 264   |
| 690 V   |                 | A                | 200   |
| Safe isolation to EN 61140  |                 |                  |   |
| Current heat loss per contact at le                                     |                 | W                | 6   |
| Lifespan, mechanical  | Operations      |                  | 8500  |
| AC  |                 |                  |   |
| AC-21A  |                 |                  |   |
| Rated operational current switch  |                 |                  |   |
| 400 V 415 V   | 1               | A                | 63  |
|   | l <sub>e</sub>  |                  |   |
| 500 V   | le              | A                | 63  |
| 690 V   | le              | A                | 63  |
| AC-22A  |                 |                  |   |
| Rated operational current switch  |                 |                  |   |
| 400 V 415 V   | l <sub>e</sub>  | А                | 63  |
| 500 V   | le              | А                | 63  |
| 690 V   | l <sub>e</sub>  | А                | 63  |
| AC-23A  |                 |                  |   |
| Rated operational current switch  |                 |                  |   |
| 400 V 415 V   | l <sub>e</sub>  | A                | 63  |
| 500 V   | l <sub>e</sub>  | A                | 33  |
| 690 V   | l <sub>e</sub>  | A                | 25  |
|   | P               |                  |   |
| Motor rating AC-23A, 50 - 60 Hz   | P               | kW               | 20  |
| 400 V 415 V   |                 | kW               | 30  |
| 500 V   | P               | kW               | 22  |
| 690 V   | Р               | kW               | 22  |
| Terminal capacities Solid   |                 | 2                | 2.5 - 16  |
|   |                 | mm <sup>2</sup>  |   |
| Flexible with ferrules to DIN 46228                                     |                 | mm <sup>2</sup>  |   |
| flexible  |                 | mm <sup>2</sup>  | 1.5 - 25  |
| Max. tightening torque  |                 | Nm               | 3   |
| Technical safety parameters:  |                 |                  |   |
| Notes   |                 |                  | B10 <sub>d</sub> values as per EN ISO 13849-1, table C1             |

| Rate operational current for specified heat dissipation         I         A         B           Heat dissipation per pole, current-dependent         Pode         W0         0           Equipment heat dissipation, current-dependent         Pode         W0         0           Batic heat dissipation, current-dependent         Pode         W0         0           Operating ambient temperature mix.         Pode         W0         0           Operating ambient temperature max.         Fode         Fode         Fode           102 Storegit on resistance         Omerating antibult temperature max.         Mest the product standard's requirements.           102.2 Corresion resistance         Fode         Fode         Mest the product standard's requirements.           102.3 Verification of translating materials to normal heat         Fode         Fode         Mest the product standard's requirements.           102.3 Verification of resistance of insulating materials to abnormal heat         Fode         Fode         Mest the product standard's requirements.           102.3 Verification of resistance of insulating materials to abnormal heat         Fode         Fode         Mest the product standard's requirements.           102.3 Verification of resistance of insulating materials to abnormal heat         Fode         Fode         Mest the product standard's requirements.           102  | Design verification as per IEC/EN 61439                                    |                   |    |  |
|---|--|-------------------|----|--|
| Heat dissipation per pole, current-dependent         Pud         Weil         General dissipation, current-dependent         Pud         Weil         General dissipation, concurrent-dependent         Pud         Rest dissipation, concurrent-dependent         Pud         Rest dissipation, concurrent-dependent         Pud         General dissipation, concurrent-dependent         Pud         General dissipation, concurrent-dependent         Pud         General dissipation, concurrent-dependent         Pud         General dissipation dissipation dissipation dissipation dispitation dispitatis dispitation dispitation dispitation dispitation   | Technical data for design verification                                     |                   |    |  |
| Equipment had idisplation, current-dependent         Peid         We         Output to the second s                          | Rated operational current for specified heat dissipation                   | In                | А  | 63   |
| Static heat dissipation, non-current-dependentPerW0Heat dissipation capacityPainetW0Operating ambient temperature min.*0-25Operating ambient temperature min.*0-25Operating ambient temperature max.*0-2610.23 Wordfreation*10*1010.23 Vordfreation of materials and parts*10*1010.23 Vordfreation of resistance*10*1010.23 Vordfreation of resistance of insulating materials to normal heat*10*1010.23 Verdfreation of resistance of insulating materials to abnormal heat*10*1010.24 Resistance to involved ing materials to abnormal heat*10*10*1010.24 Resistance to involved ing materials to abnormal heat*10*10*1010.24 Resistance to involved ing materials to abnormal heat*10*10*10*1010.25 Uning*10*10*10*10*10*1010.24 Resistance to involved ing materials to abnormal heat*10*10*10*10*1010.25 Uning*10*  | Heat dissipation per pole, current-dependent                               | P <sub>vid</sub>  | W  | 6  |
| Head dissipation capacity         Pass         W           Operating ambient tamperature min.         25           Operating ambient tamperature max.         5           Deproting ambient tamperature max.         5           Deproting ambient tamperature max.         6           Deproting ambient tamperature  | Equipment heat dissipation, current-dependent                              | P <sub>vid</sub>  | W  | 0  |
| Operating ambient temperature min.         -2           Operating ambient temperature max.         *2           S         5           EVER 61438 design verification         ************************************   | Static heat dissipation, non-current-dependent                             | P <sub>vs</sub>   | W  | 0  |
| Operating ambient temperature max.         "C         5           EXEN 61439 design verification         Mets the product standard's requirements.         Mets the product standard's requirements.           10.22 Corrosion resistance of insulating materials to normal host and fire due to internal electric effects         Mets the product standard's requirements.           10.2.3 Verification of resistance of insulating materials to abnormal host and fire due to internal electric effects         Mets the product standard's requirements.           10.2.4 Resistance to ultra-violet (UV) radiation         Mets the product standard's requirements.           10.2.5 Urification of resistance of insulating materials to abnormal host and fire due to internal electric effects         Mets the product standard's requirements.           10.2.4 Resistance to ultra-violet (UV) radiation         Does not apply, since the entire switchgear needs to be evaluated.           10.2.5 Urifing         Does not apply, since the entire switchgear needs to be evaluated.           10.2.5 Urification against electric shock         Does not apply, since the entire switchgear needs to be evaluated.           10.2.6 Chearances and creepage distances         Does not apply, since the entire switchgear needs to be evaluated.           10.4 Chearances and components         Does not apply, since the entire switchgear needs to be evaluated.           10.8 Connections for external conductors         Ender En   | Heat dissipation capacity  | P <sub>diss</sub> | W  | 0  |
| CEN 61439 design verification       Image: Centre of the second sec                | Operating ambient temperature min.   |                   | °C | -25  |
| 10.2 Strength of materials and parts       Meets the product standard's requirements.         10.2.3 Verification of resistance of insulating materials to abnormal heat       Meets the product standard's requirements.         10.2.3.3 Verification of resistance of insulating materials to abnormal heat       Meets the product standard's requirements.         10.2.3.1 Verification of resistance of insulating materials to abnormal heat       Meets the product standard's requirements.         10.2.3.2 Verification of resistance of insulating materials to abnormal heat       Meets the product standard's requirements.         10.2.5 Lifting       Does not apply, since the entire switchgear needs to be evaluated.         10.2.5 Lifting       Does not apply, since the entire switchgear needs to be evaluated.         10.2.5 Interpreter of protection of ASSEMBLIES       Does not apply, since the entire switchgear needs to be evaluated.         10.3.5 Protection against electric shock       Meets the product standard's requirements.         10.4 Clearances and creepage distances       Meets the product standard's requirements.         10.5 Protection of switching devices and components       Does not apply, since the entire switchgear needs to be evaluated.         10.5 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       Is the panel builder's responsibility.   | Operating ambient temperature max.   |                   | °C | 55   |
| 10.22 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 abnormal heat and fire due to internal electric effects       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       Does not apply, since the entire switchgear needs to be evaluated.         10.2.5 Utring       Does not apply, since the entire switchgear needs to be evaluated.         10.2.5 Itring       Does not apply, since the entire switchgear needs to be evaluated.         10.3 Degree of protection of ASSEMBLIES       Does not apply, since the entire switchgear needs to be evaluated.         10.4 Clearances and creepage distances       Does not apply, since the entire switchgear needs to be evaluated.         10.4 Clearances and creepage distances       Does not apply, since the entire switchgear needs to be evaluated.         10.5 Protection against electric al circuits and connections       Does not apply, since the entire switchgear needs to be evaluated.         10.6 Incorporation of switching devices and components       Is the panel builder's responsibility.         10.8 Connections for external conductors       Is the panel builder's responsibility.  | IEC/EN 61439 design verification   |                   |    |  |
| 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 abnormal heat       Meets the product standard's requirements.         10.2.3.3 Verification of resistance of insulating materials to abnormal heat       Meets the product standard's requirements.         10.2.3 Verification of resistance of insulating materials to abnormal heat       Meets the product standard's requirements.         10.2.4 Resistance to ultra-violet (UV) radiation       Meets the product standard's requirements.         10.2.5 Lifting       Does not apply, since the entire switchgear needs to be evaluated.         10.2.5 Lifting       Does not apply, since the entire switchgear needs to be evaluated.         10.2.5 Lifting       Does not apply, since the entire switchgear needs to be evaluated.         10.3.0 Egree 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       Is the panel builder's responsibility.         10.8 Connections for external conductors       Is the panel builder's responsibility.         10.9 Some-frequency electric strength       Is the panel builder's responsibility.      <   | 10.2 Strength of materials and parts                                       |                   |    |  |
| 10.2.3.2 Verification of resistance of insulating materials to abnormal heat       Meets the product standard's requirements.         10.2.3.3 Verification of resistance of insulating materials to abnormal heat       Meets the product standard's requirements.         10.2.4 Resistance to ultra-violet (UV) radiation       Meets the product standard's requirements.         10.2.5 Lifting       Does not apply, since the entire switchgear needs to be evaluated.         10.2.5 Lots Lifting       Does not apply, since the entire switchgear needs to be evaluated.         10.2.5 Lots Lifting       Does not apply, since the entire switchgear needs to be evaluated.         10.2.5 Lots Lifting       Does not apply, since the entire switchgear needs to be evaluated.         10.3.0 Egree of protection of ASSEMBLIES       Does not apply, since the entire switchgear needs to be evaluated.         10.5 Protection against electric shock       Does not apply, since the entire switchgear needs to be evaluated.         10.5 Incorporation of switching devices and components       Does not apply, since the entire switchgear needs to be evaluated.         10.5 Incorporation of switching devices and components       Does not apply, since the entire switchgear needs to be evaluated.         10.8 Connections for external conductors       Is the panel builder's responsibility.         10.9.1 Insulation properties       Is the panel builder's responsibility.         10.9.2 Power-frequency electric strength       Is the panel builder's responsibility. <td>10.2.2 Corrosion resistance</td> <td></td> <td></td> <td>Meets the product standard's requirements.</td>   | 10.2.2 Corrosion resistance  |                   |    | 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       Meets the product standard's requirements.         10.2.5 Lifting       Does not apply, since the entire switchgear needs to be evaluated.         10.2.5 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.         10.8 Connections for external conductors       Is the panel builder's responsibility.         10.9 Insulation properties       Is the panel builder's responsibility.         10.9.1 Thermal electric strength       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.         10.10 Temperature rise       Is the panel   | 10.2.3.1 Verification of thermal stability of enclosures                   |                   |    | Meets the product standard's requirements.   |
| and fire due to internal electric effects       Meets the product standard's requirements.         102.4 Resistance to ultra-violet (UV) radiation       Meets the product standard's requirements.         102.5 Lifting       Does not apply, since the entire switchgear needs to be evaluated.         102.6 Mechanical impact       Does not apply, since the entire switchgear needs to be evaluated.         102.7 Inscriptions       Meets the product standard's requirements.         103.0 Degree of protection of ASSEMBLIES       Does not apply, since the entire switchgear needs to be evaluated.         104.Clearances and creepage distances       Meets the product standard's requirements.         105.Protection against electric shock       Does not apply, since the entire switchgear needs to be evaluated.         106.Incorporation of switching devices and components       Does not apply, since the entire switchgear needs to be evaluated.         108.Connections for external conductors       Does not apply, since the entire switchgear needs to be evaluated.         10.9.1 Neutation properties       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 insulation material       Is the panel builder's responsibility.         10.9.1 Temperature rise       Is the panel builder's responsibility.   | 10.2.3.2 Verification of resistance of insulating materials to normal heat |                   |    | Meets the product standard's requirements.   |
| 10.2.5 LiftingDees not apply, since the entire switchgear needs to be evaluated.10.2.6 Mechanical impactDees not apply, since the entire switchgear needs to be evaluated.10.2.7 InscriptionsMeets the product standard's requirements.10.3 Degree of protection of ASSEMBLIESDees not apply, since the entire switchgear needs to be evaluated.10.4 Clearances and creepage distancesMeets the product standard's requirements.10.5 Protection against electric shockDees not apply, since the entire switchgear needs to be evaluated.10.6 Incorporation of switching devices and componentsDees not apply, since the entire switchgear needs to be evaluated.10.7 Internal electrical circuits and connectionsDees not apply, since the entire switchgear needs to be evaluated.10.9 Insulation propertiesIs the panel builder's responsibility.10.9.1 Sulation gropertiesIs the panel builder's responsibility.10.3.1 mpulse withstand voltageIs the panel builder's responsibility.10.10 Temperature riseIs the panel builder's responsibility.10.11 Short-circuit ratingIs the panel builder's responsibility.10.12 Electromagnetic compatibilityIs the panel builder's responsibility.10.13 Mechanical functionIs the panel builder's responsibility. The specifications for the switchgear must I observed.10.13 Mechanical functionIs the panel builder's responsibility. The specifications for the switchgear must I observed.   |  |                   |    | Meets the product standard's requirements.   |
| 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       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.         10.10 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 to observed.         10.13 Mechanical function       Is the panel builder's responsibility. The specifications for the switchgear must to o  | 10.2.4 Resistance to ultra-violet (UV) radiation                           |                   |    | Meets the product standard's requirements.   |
| 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       Is the panel builder's responsibility.         10.9.1 Supply swithstand voltage       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.         10.10 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 to observed.         10.12 Electromagnetic compatibility       Is the panel builder's responsibility. The specifications for the switchgear must to observed.         10.13 Mechanical function       The device meets the requirements,  | 10.2.5 Lifting   |                   |    | Does not apply, since the entire switchgear needs to be evaluated.                             |
| 10.3 Degree of protection of ASSEMBLIES       Dees 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       Does not apply, since the entire switchgear needs to be evaluated.         10.8 Connections for external conductors       Is the panel builder's responsibility.         10.9 Insulation properties       Is the panel builder's responsibility.         10.9.1 Supprese withstand voltage       Is the panel builder's responsibility.         10.9.2 Power-frequency electric strength       Is the panel builder's responsibility.         10.9.1 Supprese withstand voltage       Is the panel builder's responsibility.         10.9.1 Temperature rise       Is 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 hosesreed.         10.12 Electromagnetic compatibility       Is the panel builder's responsibility. The specifications for the switchgear must hosesreed.         10.13 Mechanical function       The devi  | 10.2.6 Mechanical impact   |                   |    | 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       Is the panel builder's responsibility.         10.9.1 Supulse withstand voltage       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.         10.10 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 dosserved.         10.12 Electromagnetic compatibility       Is the panel builder's responsibility. The specifications for the switchgear must dosserved.         10.13 Mechanical function       The device meets the requirements, provided the information in the instruction  | 10.2.7 Inscriptions  |                   |    | 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       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.         10.10 Temperature rise       Is the panel builder's responsibility.         10.11 Short-circuit rating       Is the panel builder's responsibility.         10.12 Electromagnetic compatibility       Is the panel builder's responsibility. The specifications for the switchgear must to observed.         10.13 Mechanical function       The device meets the requirements, provided the information in the instruction  | 10.3 Degree of protection of ASSEMBLIES                                    |                   |    | 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       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       Is the panel builder's responsibility.         10.11 Short-circuit rating       Is the panel builder's responsibility. The specifications for the switchgear must to observed.         10.12 Electromagnetic compatibility       Is the panel builder's responsibility. The specifications for the switchgear must to observed.         10.13 Mechanical function       The device meets the requirements, provided the information in the instruction  | 10.4 Clearances and creepage distances                                     |                   |    | Meets the product standard's requirements.   |
| 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       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       Is the panel builder's responsibility.         10.11 Short-circuit rating       Is the panel builder's responsibility. The specifications for the switchgear must fobserved.         10.12 Electromagnetic compatibility       Is the panel builder's responsibility. The specifications for the switchgear must fobserved.         10.13 Mechanical function       Is the panel builder's responsibility. The specifications for the switchgear must fobserved.  | 10.5 Protection against electric shock                                     |                   |    | Does not apply, since the entire switchgear needs to be evaluated.                             |
| 10.8 Connections for external conductors       Is the panel builder's responsibility.         10.9 Insulation properties       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 is responsibility.         10.11 Short-circuit rating       Is the panel builder's responsibility. The specifications for the switchgear must to observed.         10.12 Electromagnetic compatibility       Is the panel builder's responsibility. The specifications for the switchgear must to observed.         10.13 Mechanical function       The device meets the requirements, provide the information in the instruction  | 10.6 Incorporation of switching devices and components                     |                   |    | Does not apply, since the entire switchgear needs to be evaluated.                             |
| 10.9 Insulation propertiesImage: Constraint of the second sec | 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       Is 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 the observed.         10.12 Electromagnetic compatibility       Is the panel builder's responsibility. The specifications for the switchgear must the 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       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 responsibile for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.         10.11 Short-circuit rating       Is the panel builder is responsibility. The specifications for the switchgear must hobserved.         10.12 Electromagnetic compatibility       Is the panel builder is responsibility. The specifications for the switchgear must hobserved.         10.13 Mechanical function       The device meets the requirements, provide the information in the instruction   | 10.9 Insulation properties   |                   |    |  |
| 10.9.4 Testing of enclosures made of insulating material       Is the panel builder's responsibility.         10.10 Temperature rise       The panel builder is responsibility.         10.11 Short-circuit rating       Is the panel builder's responsibility. The specifications for the switchgear must hobserved.         10.12 Electromagnetic compatibility       Is the panel builder's responsibility. The specifications for the switchgear must hobserved.         10.13 Mechanical function       The device meets the requirements, provided the information in the instruction   | 10.9.2 Power-frequency electric strength                                   |                   |    | 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 hobserved.         10.12 Electromagnetic compatibility       Is the panel builder's responsibility. The specifications for the switchgear must hobserved.         10.13 Mechanical function       The device meets the requirements, provided the information in the instruction   | 10.9.3 Impulse withstand voltage   |                   |    | Is the panel builder's responsibility.   |
| 10.11 Short-circuit rating       provide heat dissipation data for the devices.         10.11 Short-circuit rating       Is the panel builder's responsibility. The specifications for the switchgear must hobserved.         10.12 Electromagnetic compatibility       Is the panel builder's responsibility. The specifications for the switchgear must hobserved.         10.13 Mechanical function       The device meets the requirements, provided the information in the instruction   | 10.9.4 Testing of enclosures made of insulating material                   |                   |    | Is the panel builder's responsibility.   |
| 10.12 Electromagnetic compatibility       Is the panel builder's responsibility. The specifications for the switchgear must builder's responsibility.         10.13 Mechanical function       The device meets the requirements, provided the information in the instruction  | 10.10 Temperature rise   |                   |    |  |
| 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 6.0**

Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)

| Electric engineering, automation, process control engineering / Low-voltage switc<br>[AKF060010]) | h technology / Off-load | switch, circuit breaker, control switch / Switch disconnector (ecl@ss8.1-27-37-14-03 |
|---|-------------------------|--|
| 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   |
| Max. rated operation voltage Ue AC  | V                       | 690  |
| Rated operating voltage   | V                       | 690 - 690  |
| Rated permanent current lu  | А                       | 63   |
| Rated permanent current at AC-21, 400 V   | А                       | 63   |
| Rated operation power at AC-3, 400 V  | kW                      | 0  |
| Rated short-time withstand current lcw  | kA                      | 1.5  |
| Rated operation power at AC-23, 400 V   | kW                      | 30   |
| Switching power at 400 V  | kW                      | 0  |
| Conditioned rated short-circuit current Iq  | kA                      | 100  |

| Number of poles   | 4  |
|---|--|
| 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                            | Yes                                      |
| Suitable for front mounting 4-hole                      | No                                       |
| Suitable for front mounting center                      | No                                       |
| Suitable for distribution board installation            | Yes                                      |
| 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                   | IP20                                     |

## **Dimensions**

