

Switch-disconnector, DMM, 63 A, 4 pole, Stop Function optional, Without rotary handle and drive shaft, Vertical connection



**Part no.** DMM-63/4-SK

1314158

**EL Number  
(Norway)**

4309092

| General specifications                 |  |  |
|--|--|--|
| Product name                           |  | Eaton DMM Switch-disconnector  |
| Part no.                               |  | DMM-63/4-SK  |
| EAN                                    |  | 8711426383135  |
| Product Length/Depth                   |  | 150 millimetre   |
| Product height                         |  | 80 millimetre  |
| Product width                          |  | 90 millimetre  |
| Product weight                         |  | 0.515 kilogram   |
| Certifications                         |  | VDE 0660<br>IEC/EN 60947-3<br>CE<br>EAC<br>IEC/EN 60947<br>Lloyds<br>KEMA<br>IEC/EN 60204<br>RoHS        |
| Product Tradename                      |  | DMM  |
| Product Type                           |  | Switch-disconnector  |
| Product Sub Type                       |  | None   |
| Catalog Notes                          |  | Rated Short-time Withstand Current (Icw) for a time of 1 second<br>Without rotary handle and drive shaft |
| Features & Functions                   |  |  |
| Features                               |  | Version as maintenance-/service switch<br>Version as main switch   |
| Functions                              |  | Optional Stop Function   |
| Number of poles                        |  | Four-pole  |
| General information                    |  |  |
| Accessories                            |  | Auxiliary contact fitted by user.  |
| Actuator color                         |  | Other  |
| Actuator type                          |  | Other  |
| Connection type                        |  | Vertical   |
| Degree of protection                   |  | NEMA Other   |
| Degree of protection (front side)      |  | IP20   |
| Lifespan, mechanical                   |  | 8,500 Operations   |
| Mounting method                        |  | Surface mounting   |
| Mounting position                      |  | As required  |
| Overvoltage category                   |  | III  |
| Pollution degree                       |  | 3  |
| Product Category                       |  | Main switch<br>Switch-disconnector   |
| Rated impulse withstand voltage (Uimp) |  | 6000 V   |
| Safety parameter (EN ISO 13849-1)      |  | B10d values as per EN ISO 13849-1, table C.1   |
| Suitable for                           |  | Ground mounting<br>Distribution board installation   |
| Climatic environmental conditions      |  |  |
| Ambient operating temperature - min    |  | -25 °C   |
| Ambient operating temperature - max    |  | 55 °C  |
| Ambient storage temperature - min      |  | -30 °C   |
| Ambient storage temperature - max      |  | 80 °C  |
| Terminal capacities                    |  |  |
| Terminal capacity                      |  | 1.5 - 25 mm <sup>2</sup> , flexible with ferrules to DIN 46228   |

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|  |  | 2.5 - 16 mm <sup>2</sup> , solid   |
| Stripping length (main cable)  |  | 14 mm  |
| <b>Electrical rating</b>   |  |  |
| Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3)                    |  | 504 A  |
| Rated breaking capacity at 500 V (cos phi to IEC 60947-3)                        |  | 264 A  |
| Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3)                    |  | 200 A  |
| Rated insulation voltage (Ui)  |  | 1000 V   |
| Rated operational current (Ie) at AC-21, 400 V, 415 V                            |  | 63 A   |
| Rated operational current (Ie) at AC-21, 500 V                                   |  | 63 A   |
| Rated operational current (Ie) at AC-21, 690 V                                   |  | 63 A   |
| Rated operational current (Ie) at AC-22, 380 V, 400 V, 415 V                     |  | 63 A   |
| Rated operational current (Ie) at AC-22, 500 V                                   |  | 63 A   |
| Rated operational current (Ie) at AC-22, 690 V                                   |  | 63 A   |
| Rated operational current (Ie) at AC-23A, 400 V, 415 V                           |  | 63 A   |
| Rated operational current (Ie) at AC-23A, 500 V                                  |  | 33 A   |
| Rated operational current (Ie) at AC-23A, 690 V                                  |  | 25 A   |
| Rated operational power at AC-23A, 400 V, 50 Hz                                  |  | 30 kW  |
| Rated operational power at AC-23A, 500 V, 50 Hz                                  |  | 22 kW  |
| Rated operational power at AC-23A, 690 V, 50 Hz                                  |  | 22 kW  |
| Rated operational power at AC-3, 380/400 V, 50 Hz                                |  | 0 kW   |
| Rated operational voltage (Ue) at AC - max                                       |  | 690 V  |
| Rated uninterrupted current (Iu)   |  | 63 A   |
| Uninterrupted current  |  | Rated uninterrupted current Iu is specified for max. cross-section.              |
| <b>Short-circuit rating</b>  |  |  |
| Breaking current   |  | 9.7 kA (at In = 80)<br>9.6 kA (at In = 50)                                       |
| Let-through energy   |  | Max. 10 kA <sup>2</sup> s (at In = 50)<br>Max. 44 kA <sup>2</sup> s (at In = 80) |
| Rated conditional short-circuit current (Iq)                                     |  | 100 kA<br>50 kA at In = 80   |
| Rated short-time withstand current (Icw)   |  | 1,5 kA, Contacts, 1 second<br>1.5 kA   |
| Short-circuit protection rating  |  | 80/50, Fuse, Contacts  |
| <b>Contacts</b>  |  |  |
| Number of auxiliary contacts (change-over contacts)                              |  | 0  |
| Number of auxiliary contacts (normally closed contacts)                          |  | 0  |
| Number of auxiliary contacts (normally open contacts)                            |  | 0  |
| <b>Design verification</b>   |  |  |
| Equipment heat dissipation, current-dependent Pvid                               |  | 1.3 W  |
| Heat dissipation capacity Pdis   |  | 0 W  |
| Heat dissipation per pole, current-dependent Pvid                                |  | 6 W  |
| Rated operational current for specified heat dissipation (In)                    |  | 63 A   |
| Static heat dissipation, non-current-dependent Pvs                               |  | 0 W  |
| 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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.               |
| 10.2.6 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.   |

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| 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 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 9.0

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|---|--|----|--|
| Low-voltage industrial components (EG000017) / Switch disconnecter (low voltage) (EC000216)   |  |    |  |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnecter (ecI@ss13-27-37-14-03 [AKF060018]) |  |    |  |
| Version as main switch  |  |    | Yes                                      |
| Version as maintenance-/service switch  |  |    | Yes                                      |
| 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 <sub>e</sub> AC  |  | V  | 690                                      |
| Rated operating voltage   |  | V  | 690 - 690                                |
| Rated permanent current I <sub>u</sub>  |  | A  | 63                                       |
| Rated permanent current at AC-23, 400 V   |  | A  | 63                                       |
| Rated permanent current at AC-21, 400 V   |  | A  | 63                                       |
| Rated operation power at AC-3, 400 V  |  | kW | 0  |
| Rated short-time withstand current I <sub>cw</sub>  |  | 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 I <sub>q</sub>  |  | 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 floor mounting   |  |    | Yes                                      |
| Suitable for front mounting 4-hole  |  |    | No                                       |
| Suitable for front mounting centre  |  |    | No                                       |
| Suitable for distribution board installation  |  |    | Yes                                      |
| Suitable for intermediate mounting  |  |    | No                                       |
| Colour control element  |  |    | Other                                    |
| Type of control element   |  |    | Other                                    |
| Interlockable   |  |    | No                                       |
| Type of electrical connection of main circuit   |  |    | Screw connection                         |
| With pre-assembled cabling  |  |    | No                                       |
| Degree of protection (IP), front side   |  |    | IP20                                     |
| Degree of protection (NEMA)   |  |    | Other                                    |
| Width   |  | mm | 90                                       |
| Height  |  | mm | 80                                       |
| Depth   |  | mm | 150                                      |
| Width in number of modular spacings   |  |    | 4  |

