

Switch-disconnector, DMM, 160 A, 3P + N (solid), Emergency switching off function, With red rotary handle and yellow locking ring, in CI-K5 enclosure



Part no. **DMM-160/3N/I5/P-R**
172791

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| Product name | Eaton DMM Switch-disconnector |
| Part no. | DMM-160/3N/I5/P-R |
| EAN | 4015081693764 |
| Product Length/Depth | 280 millimetre |
| Product height | 200 millimetre |
| Product width | 200 millimetre |
| Product weight | 2.47 kilogram |
| Certifications | CE VDE 0660 IEC/EN 60947-3 IEC/EN 60947 RoHS Lloyds IEC/EN 60204 EAC KEMA |
| Product Tradename | DMM |
| Product Type | Switch-disconnector |
| Product Sub Type | None |
| Globally Marketable | Yes |
| | 1 padlock, # 5 mm in CI-K5 enclosure Rated Short-time Withstand Current (Icw) for a time of 1 second |
| Features | Version as main switch Version as emergency stop installation Version as maintenance-/service switch |
| Fitted with: | Red rotary handle and yellow locking ring |
| Functions | Emergency switching off function Interlockable |
| Locking facility | Lockable in the 0 (Off) position |
| Number of poles | Three-pole + N |
| Accessories | Auxiliary contact fitted by user. |
| Degree of protection | NEMA 12 |
| Degree of protection (front side) | IP65 |
| Lifespan, mechanical | 10,000 Operations |
| Mounting method | Surface mounting |
| Mounting position | As required |
| Ovvoltage category | III |
| Pollution degree | 3 |
| 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 |
| Ambient operating temperature - min | -25 °C |
| Ambient operating temperature - max | 40 °C |
| Ambient storage temperature - min | -40 °C |
| Ambient storage temperature - max | 80 °C |
| Terminal capacity | 6 - 70 mm ² , flexible with ferrules to DIN 46228 |
| Stripping length (main cable) | 21 mm |

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| Tightening torque | 7 Nm, Screw terminals |
| Rated breaking capacity at 400/415 V (cos phi to IEC 60947-3) | 1080 A |
| Rated breaking capacity at 500 V (cos phi to IEC 60947-3) | 528 A |
| Rated breaking capacity at 660/690 V (cos phi to IEC 60947-3) | 336 A |
| Rated insulation voltage (Ui) | 1000 V |
| Rated operational current (Ie) at AC-21, 400 V, 415 V | 160 A |
| Rated operational current (Ie) at AC-21, 500 V | 160 A |
| Rated operational current (Ie) at AC-21, 690 V | 160 A |
| Rated operational current (Ie) at AC-22, 380 V, 400 V, 415 V | 160 A |
| Rated operational current (Ie) at AC-22, 500 V | 160 A |
| Rated operational current (Ie) at AC-22, 690 V | 160 A |
| Rated operational current (Ie) at AC-23A, 400 V, 415 V | 140 A |
| Rated operational current (Ie) at AC-23A, 500 V | 66 A |
| Rated operational current (Ie) at AC-23A, 690 V | 42 A |
| Rated operational power at AC-23A, 400 V, 50 Hz | 80 kW |
| Rated operational power at AC-23A, 500 V, 50 Hz | 45 kW |
| Rated operational power at AC-23A, 690 V, 50 Hz | 37 kW |
| Rated operational power at AC-3, 380/400 V, 50 Hz | 0 kW |
| Rated operational voltage (Ue) at AC - min | 690 V |
| Rated operational voltage (Ue) at AC - max | 690 V |
| Rated uninterrupted current (Iu) | 160 A |
| Uninterrupted current | Rated uninterrupted current Iu is specified for max. cross-section. |
| Breaking current | 13.5 kA |
| Let-through energy | Max. 86,9 kA ² s |
| Rated conditional short-circuit current (Iq) | 30 kA at 415 V 50 kA |
| Rated short-time withstand current (Icw) | 2,5 kA, Contacts, 1 second 2.5 kA |
| Short-circuit protection rating | 160, Fuse, Contacts |
| Number of auxiliary contacts (change-over contacts) | 0 |
| Number of auxiliary contacts (normally closed contacts) | 0 |
| Number of auxiliary contacts (normally open contacts) | 0 |
| Actuator color | Red |
| Actuator type | Short thumb-grip |
| Equipment heat dissipation, current-dependent Pvid | 9.1 W |
| Heat dissipation capacity Pdiss | 0 W |
| Heat dissipation per pole, current-dependent Pvid | 7.4 W |
| Rated operational current for specified heat dissipation (In) | 160 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 | 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. |

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| 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 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 8.0

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

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss10.0.1-27-37-14-03 [AKF060013])

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| Version as main switch | | Yes |
| Version as maintenance-/service switch | | Yes |
| Version as safety switch | | No |
| Version as emergency stop installation | | Yes |
| Version as reversing switch | | No |
| Number of switches | | 1 |
| Max. rated operation voltage Ue AC | V | 690 |
| Rated operating voltage | V | 690 - 690 |
| Rated permanent current Iu | A | 160 |
| Rated permanent current at AC-23, 400 V | A | 140 |
| Rated permanent current at AC-21, 400 V | A | 160 |
| Rated operation power at AC-3, 400 V | kW | 0 |
| Rated short-time withstand current Icw | kA | 2.5 |
| Rated operation power at AC-23, 400 V | kW | 80 |
| Switching power at 400 V | kW | 0 |
| Conditioned rated short-circuit current Iq | kA | 50 |
| 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 | | Complete device in housing |
| Suitable for floor mounting | | Yes |
| Suitable for front mounting 4-hole | | No |
| Suitable for front mounting centre | | No |
| Suitable for distribution board installation | | No |
| Suitable for intermediate mounting | | No |
| Colour control element | | Red |
| Type of control element | | Short thumb-grip |
| Interlockable | | Yes |
| Type of electrical connection of main circuit | | Screw connection |
| Degree of protection (IP), front side | | IP65 |
| Degree of protection (NEMA) | | 12 |