

# Specifications



## Eaton 1314207

Eaton DMM Switch-disconnector, DMM, 125 A, 4 pole, With blue rotary handle (Type C) and drive shaft, Vertical connection

### General specifications

|                     |                               |
|---------------------|-------------------------------|
| <b>PRODUCT NAME</b> | Eaton DMM Switch-disconnector |
|---------------------|-------------------------------|

|                       |         |
|-----------------------|---------|
| <b>CATALOG NUMBER</b> | 1314207 |
|-----------------------|---------|

|                   |              |
|-------------------|--------------|
| <b>MODEL CODE</b> | DMM-125/4+CM |
|-------------------|--------------|

|            |               |
|------------|---------------|
| <b>EAN</b> | 8711426752757 |
|------------|---------------|

|                             |        |
|-----------------------------|--------|
| <b>PRODUCT LENGTH/DEPTH</b> | 152 mm |
|-----------------------------|--------|

|                       |        |
|-----------------------|--------|
| <b>PRODUCT HEIGHT</b> | 108 mm |
|-----------------------|--------|

|                      |        |
|----------------------|--------|
| <b>PRODUCT WIDTH</b> | 132 mm |
|----------------------|--------|

|                       |         |
|-----------------------|---------|
| <b>PRODUCT WEIGHT</b> | 1.04 kg |
|-----------------------|---------|

|                       |                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------|
| <b>CERTIFICATIONS</b> | RoHS<br>CE<br>EAC<br>IEC/EN 60947-3<br>KEMA<br>Lloyds<br>VDE 0660<br>IEC/EN 60204<br>IEC/EN 60947 |
|-----------------------|---------------------------------------------------------------------------------------------------|

## Climatic environmental conditions

|                                        |       |
|----------------------------------------|-------|
| AMBIENT OPERATING<br>TEMPERATURE - MAX | 55 °C |
|----------------------------------------|-------|

|                                      |       |
|--------------------------------------|-------|
| AMBIENT STORAGE<br>TEMPERATURE - MAX | 80 °C |
|--------------------------------------|-------|

|                                        |        |
|----------------------------------------|--------|
| AMBIENT OPERATING<br>TEMPERATURE - MIN | -25 °C |
|----------------------------------------|--------|

|                                      |        |
|--------------------------------------|--------|
| AMBIENT STORAGE<br>TEMPERATURE - MIN | -30 °C |
|--------------------------------------|--------|

## Contacts

|                                                            |   |
|------------------------------------------------------------|---|
| NUMBER OF AUXILIARY<br>CONTACTS (CHANGE-<br>OVER CONTACTS) | 0 |
|------------------------------------------------------------|---|

|                                                               |   |
|---------------------------------------------------------------|---|
| NUMBER OF AUXILIARY<br>CONTACTS (NORMALLY<br>CLOSED CONTACTS) | 0 |
|---------------------------------------------------------------|---|

|                                                             |   |
|-------------------------------------------------------------|---|
| NUMBER OF AUXILIARY<br>CONTACTS (NORMALLY<br>OPEN CONTACTS) | 0 |
|-------------------------------------------------------------|---|

## Design verification

|                                                                                         |                                                                                                                                  |
|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>10.10 TEMPERATURE RISE</b>                                                           | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| <b>10.11 SHORT-CIRCUIT RATING</b>                                                       | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| <b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>                                              | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| <b>10.13 MECHANICAL FUNCTION</b>                                                        | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.                         |
| <b>10.2.2 CORROSION RESISTANCE</b>                                                      | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>                         | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>       | Meets the product standard's requirements.                                                                                       |
| <b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b> | Meets the product standard's requirements.                                                                                       |
| <b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>                                 | Meets the product standard's requirements.                                                                                       |
| <b>10.2.5 LIFTING</b>                                                                   | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| <b>10.2.6 MECHANICAL IMPACT</b>                                                         | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| <b>10.2.7 INSCRIPTIONS</b>                                                              | Meets the product standard's requirements.                                                                                       |
| <b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>                                          | Does not apply, since the entire switchgear needs to be evaluated.                                                               |
| <b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>                                           | Meets the product standard's requirements.                                                                                       |
| <b>10.5 PROTECTION</b>                                                                  | Does not apply, since the                                                                                                        |

## Electrical rating

|                                                                      |        |
|----------------------------------------------------------------------|--------|
| <b>RATED BREAKING CAPACITY AT 400/415 V (COS PHI TO IEC 60947-3)</b> | 480 A  |
| <b>RATED BREAKING CAPACITY AT 500 V (COS PHI TO IEC 60947-3)</b>     | 520 A  |
| <b>RATED BREAKING CAPACITY AT 660/690 V (COS PHI TO IEC 60947-3)</b> | 352 A  |
| <b>RATED INSULATION VOLTAGE (UI)</b>                                 | 1000 V |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-21, 400 V, 415 V</b>         | 125 A  |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-21, 500 V</b>                | 125 A  |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-21, 690 V</b>                | 125 A  |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-22, 380 V, 400 V, 415 V</b>  | 125 A  |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-22, 500 V</b>                | 125 A  |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-22, 690 V</b>                | 125 A  |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-23A, 400 V, 415 V</b>        | 63 A   |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-23A, 500 V</b>               | 63 A   |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-23A, 690 V</b>               | 45 A   |
| <b>RATED OPERATIONAL POWER AT AC-23A, 400 V, 50 HZ</b>               | 30 kW  |
| <b>RATED OPERATIONAL POWER AT AC-23A, 500 V, 50 HZ</b>               | 45 kW  |
| <b>RATED OPERATIONAL POWER AT AC-23A, 690 V, 50 HZ</b>               | 40 kW  |
| <b>RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ</b>             | 0 kW   |

|                                                                      |                                                                    |
|----------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>AGAINST ELECTRIC SHOCK</b>                                        | entire switchgear needs to be evaluated.                           |
| <b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>        | Does not apply, since the entire switchgear needs to be evaluated. |
| <b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>             | Is the panel builder's responsibility.                             |
| <b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>                      | Is the panel builder's responsibility.                             |
| <b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>                      | Is the panel builder's responsibility.                             |
| <b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>                              | Is the panel builder's responsibility.                             |
| <b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>      | Is the panel builder's responsibility.                             |
| <b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>            | 0 W                                                                |
| <b>HEAT DISSIPATION CAPACITY PDISS</b>                               | 0 W                                                                |
| <b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>             | 4.5 W                                                              |
| <b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b> | 125 A                                                              |
| <b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>            | 0 W                                                                |

|                                                   |                                                                     |
|---------------------------------------------------|---------------------------------------------------------------------|
| <b>RATED OPERATIONAL VOLTAGE (UE) AT AC - MAX</b> | 690 V                                                               |
| <b>RATED UNINTERRUPTED CURRENT (IU)</b>           | 125 A                                                               |
| <b>UNINTERRUPTED CURRENT</b>                      | Rated uninterrupted current Iu is specified for max. cross-section. |

| Features & functions    |                                                                  |
|-------------------------|------------------------------------------------------------------|
| <b>FEATURES</b>         | Version as maintenance-/service switch<br>Version as main switch |
| <b>FITTED WITH:</b>     | Blue rotary handle (Type C) and drive shaft                      |
| <b>LOCKING FACILITY</b> | Lockable in the 0 (Off) position                                 |
| <b>NUMBER OF POLES</b>  | Four-pole                                                        |

| General information                      |                                   |
|------------------------------------------|-----------------------------------|
| <b>ACCESSORIES</b>                       | Auxiliary contact fitted by user. |
| <b>ACTUATOR COLOR</b>                    | Other                             |
| <b>ACTUATOR TYPE</b>                     | Short thumb-grip                  |
| <b>CONNECTION TYPE</b>                   | Vertical                          |
| <b>DEGREE OF PROTECTION</b>              | NEMA Other                        |
| <b>DEGREE OF PROTECTION (FRONT SIDE)</b> | IP20                              |
| <b>LIFESPAN, MECHANICAL</b>              | 10,000 Operations                 |
| <b>MOUNTING METHOD</b>                   | Flush mounting                    |
| <b>MOUNTING POSITION</b>                 | As required                       |
| <b>OVERVOLTAGE CATEGORY</b>              | III                               |

|                                               |                                                                                                |
|-----------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>POLLUTION DEGREE</b>                       | 3                                                                                              |
| <b>PRODUCT CATEGORY</b>                       | <ul style="list-style-type: none"> <li>• Main switch</li> <li>• Switch-disconnector</li> </ul> |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b> | 6000 V                                                                                         |
| <b>SAFETY PARAMETER (EN ISO 13849-1)</b>      | B10d values as per EN ISO 13849-1, table C.1                                                   |
| <b>SUITABLE FOR</b>                           | Ground mounting<br>Intermediate mounting<br>Distribution board installation                    |

## Short-circuit rating

|                                                     |                                      |
|-----------------------------------------------------|--------------------------------------|
| <b>BREAKING CURRENT</b>                             | 14.5 kA                              |
| <b>LET-THROUGH ENERGY</b>                           | Max. 140 kA²s                        |
| <b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)</b> | 50 kA                                |
| <b>RATED SHORT-TIME WITHSTAND CURRENT (ICW)</b>     | 2.5 kA<br>2,5 kA, Contacts, 1 second |
| <b>SHORT-CIRCUIT PROTECTION RATING</b>              | 125, Fuse, Contacts                  |

## Terminal capacities

|                                      |                                                 |
|--------------------------------------|-------------------------------------------------|
| <b>STRIPPING LENGTH (MAIN CABLE)</b> | 21 mm                                           |
| <b>TERMINAL CAPACITY</b>             | 6 - 70 mm², flexible with ferrules to DIN 46228 |
| <b>TIGHTENING TORQUE</b>             | 7 Nm, Screw terminals                           |

## Resources

|                            |                                                                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CATALOGUES                 | <a href="#">eaton-industrial-switch-disconnectors-catalogue-ca008011en-en-gb.pdf</a>                                                                                        |
| DECLARATIONS OF CONFORMITY | <a href="#">eaton-switch-disconnector-declaration-of-conformity-eu250626en.pdf</a><br><a href="#">eaton-switch-disconnector-declaration-of-conformity-uk251109en.pdf</a>    |
| DRAWINGS                   | <a href="#">eaton-rotary-switches-dmm-switch-disconnector-dimensions-005.eps</a><br><a href="#">eaton-general-mounting-p1-main-switch-symbol.eps</a>                        |
| ECAD MODEL                 | <a href="#">DA-CE-ETN.DMM-125_4_CM</a>                                                                                                                                      |
| INSTALLATION INSTRUCTIONS  | <a href="#">eaton-switch-disconnector-dmm-dcm-il008025zu.pdf</a>                                                                                                            |
| WIRING DIAGRAMS            | <a href="#">eaton-rotary-switches-switch-dmm-switch-disconnector-wiring-diagram.eps</a><br><a href="#">eaton-rotary-switches-dmm-switch-disconnector-wiring-diagram.eps</a> |

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**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

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**Eaton Corporation plc** Eaton House  
30 Pembroke Road  
Dublin 4, Ireland  
Eaton.com

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