

# Specifications



## Eaton 191102

Eaton Moeller® series MSC-DM DOL starter,  
380 V 400 V 415 V: 0.06 kW,  $I_r = 0.16 - 0.25$  A,  
24 V DC, DC voltage MSC-DM-0,25-  
M7(24VDC)/MSFA

### General specifications

|                                 |                                                         |
|---------------------------------|---------------------------------------------------------|
| <b>PRODUCT NAME</b>             | Eaton Moeller® series<br>MSC-DM DOL starter             |
| <b>CATALOG NUMBER</b>           | 191102                                                  |
| <b>MODEL CODE</b>               | MSC-DM-0,25-<br>M7(24VDC)/MSFA                          |
| <b>EAN</b>                      | 4015081916009                                           |
| <b>PRODUCT<br/>LENGTH/DEPTH</b> | 115 mm                                                  |
| <b>PRODUCT HEIGHT</b>           | 180 mm                                                  |
| <b>PRODUCT WIDTH</b>            | 45 mm                                                   |
| <b>PRODUCT WEIGHT</b>           | 0.724 kg                                                |
| <b>CERTIFICATIONS</b>           | UL 508 (on request)<br>CSA-C22.2 No. 14 (on<br>request) |

## Climatic environmental conditions

|                                            |             |
|--------------------------------------------|-------------|
| <b>ALTITUDE</b>                            | Max. 2000 m |
| <b>AMBIENT OPERATING TEMPERATURE - MAX</b> | 55 °C       |
| <b>AMBIENT OPERATING TEMPERATURE - MIN</b> | -25 °C      |

## 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                                                                                                        |

|                                                                 |                                                                    |
|-----------------------------------------------------------------|--------------------------------------------------------------------|
| <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.                             |

| Electrical rating                                                  |                |
|--------------------------------------------------------------------|----------------|
| <b>RATED OPERATIONAL CURRENT (IE)</b>                              | 0.21 A         |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V</b> | 0.25 A         |
| <b>RATED OPERATIONAL POWER AT AC-3, 220/230 V, 50 HZ</b>           | 0.04 kW        |
| <b>RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ</b>           | 0.06 kW        |
| <b>RATED OPERATIONAL VOLTAGE</b>                                   | 230 - 415 V AC |

| Features & functions |                                             |
|----------------------|---------------------------------------------|
| <b>FITTED WITH:</b>  | Short-circuit release                       |
| <b>FUNCTIONS</b>     | Temperature compensated overload protection |

## General information

|                                                                |                                       |
|----------------------------------------------------------------|---------------------------------------|
| <b>CLASS</b>                                                   | CLASS 10 A                            |
| <b>CONNECTION</b>                                              | Screw terminals                       |
| <b>CONNECTION TO SMARTWIRE-DT</b>                              | No                                    |
| <b>COORDINATION TYPE</b>                                       | 2                                     |
| <b>DEGREE OF PROTECTION</b>                                    | IP20<br>NEMA Other                    |
| <b>MODEL</b>                                                   | IEC starter                           |
| <b>MOUNTING METHOD</b>                                         | Motor starter Feeder System           |
| <b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b> | 0                                     |
| <b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>   | 1                                     |
| <b>OVERLOAD RELEASE CURRENT SETTING - MAX</b>                  | 0.25 A                                |
| <b>OVERLOAD RELEASE CURRENT SETTING - MIN</b>                  | 0.16 A                                |
| <b>OVERVOLTAGE CATEGORY</b>                                    | III                                   |
| <b>POLLUTION DEGREE</b>                                        | 3                                     |
| <b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>                  | 6000 V AC                             |
| <b>SUITABLE FOR</b>                                            | Also motors with efficiency class IE3 |
| <b>TYPE</b>                                                    | Starter with Bi-Metal release         |
| <b>VOLTAGE TYPE</b>                                            | DC                                    |

## Short-circuit rating

|                                                                                  |         |
|----------------------------------------------------------------------------------|---------|
| <b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 380 V, 400 V, 415 V</b> | 50000 A |
| <b>SHORT-CIRCUIT RELEASE (IRM) - MAX</b>                                         | 3.9 A   |

## Magnet system

**POWER CONSUMPTION (SEALING) AT DC** 2.6 W

**RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX** 24 V

**RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN** 24 V

## Resources

|                            |                                                                                        |
|----------------------------|----------------------------------------------------------------------------------------|
| BROCHURES                  | <a href="#">eaton-motor-starters-system-xstart-brochure-br03407001en-en-us.pdf</a>     |
|                            | <a href="#">eaton-msfs-motor-starter-feeder-system-brochure-br034005en-en-us.pdf</a>   |
| CATALOGUES                 | <a href="#">eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf</a> |
| DECLARATIONS OF CONFORMITY | <a href="#">eaton-dol-starter-declaration-of-conformity-uk251157en.pdf</a>             |

|                           |                                                                                                                                                                                                                                             |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           | <a href="#">eaton-dol-starter-declaration-of-conformity-eu250674en.pdf</a>                                                                                                                                                                  |
| DRAWINGS                  | <a href="#">eaton-manual-motor-starters-msc-d-dol-starter-dimensions-005.eps</a><br><a href="#">eaton-general-ie-ready-dilm-contactor-standards.eps</a><br><a href="#">eaton-manual-motor-starters-msc-d-dol-starter-3d-drawing-003.eps</a> |
| ECAD MODEL                | <a href="#">ETN.191102.edz</a>                                                                                                                                                                                                              |
| INSTALLATION INSTRUCTIONS | <a href="#">IL034030ZU</a><br><a href="#">IL015082ZU.pdf</a>                                                                                                                                                                                |
| INSTALLATION VIDEOS       | <a href="#">WIN-WIN with push-in technology</a>                                                                                                                                                                                             |
| MCAD MODEL                | <a href="#">eaton-motor-starter-mcad-drawings-msc-dm-mfsa.dwg</a><br><a href="#">DA-CS-msc_dm_mfsa</a>                                                                                                                                      |
| SALES NOTES               | <a href="#">eaton-link-module-for-motor-starters-pkz-flyer-fl034003en-en-us.pdf</a>                                                                                                                                                         |
| WIRING DIAGRAMS           | <a href="#">eaton-manual-motor-starters-device-msc-d-dol-starter-wiring-diagram.eps</a>                                                                                                                                                     |

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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