

# Specifications



Photo is representative



## Eaton 191108

Eaton Moeller® series MSC-DM DOL starter,  
380 V 400 V 415 V: 1.1, 1.5 kW, I<sub>r</sub>= 2.5 - 4 A,  
24 V DC, DC voltage

### General specifications

|                                 |                                                         |
|---------------------------------|---------------------------------------------------------|
| <b>PRODUCT NAME</b>             | Eaton Moeller® series<br>MSC-DM DOL starter             |
| <b>CATALOG NUMBER</b>           | 191108                                                  |
| <b>MODEL CODE</b>               | MSC-DM-4-<br>M7(24VDC)/MSFA                             |
| <b>EAN</b>                      | 4015081916061                                           |
| <b>PRODUCT<br/>LENGTH/DEPTH</b> | 115 mm                                                  |
| <b>PRODUCT HEIGHT</b>           | 180 mm                                                  |
| <b>PRODUCT WIDTH</b>            | 45 mm                                                   |
| <b>PRODUCT WEIGHT</b>           | 0.767 kg                                                |
| <b>CERTIFICATIONS</b>           | UL 508 (on request)<br>CSA-C22.2 No. 14 (on<br>request) |

## Features & Functions

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

## Climatic environmental conditions

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

## General

|                                                                |                                       |
|----------------------------------------------------------------|---------------------------------------|
| <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 - MIN</b>                  | 2.5 A                                 |
| <b>OVERLOAD RELEASE CURRENT SETTING - MAX</b>                  | 4 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                                    |

## Electrical rating

|                                                                    |         |
|--------------------------------------------------------------------|---------|
| <b>RATED OPERATIONAL CURRENT (IE)</b>                              | 3.6 A   |
| <b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V</b> | 4 A     |
| <b>RATED OPERATIONAL POWER AT AC-3, 220/230 V, 50 HZ</b>           | 0.75 kW |
| <b>RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ</b>           | 1.5 kW  |

|                                  |                |
|----------------------------------|----------------|
| <b>RATED OPERATIONAL VOLTAGE</b> | 230 - 415 V AC |
|----------------------------------|----------------|

## Short-circuit rating

**RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 380 V, 400 V, 415 V** 50000 A

**SHORT-CIRCUIT RELEASE (IRM) - MAX** 62 A

## Magnet system

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

**RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN** 0 V

**RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX** 0 V

**RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN** 0 V

**RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX** 0 V

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

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

## Design verification

**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.

**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** Is the panel builder's responsibility.

## Resources

### BROCHURES

[eaton-msfs-motor-starter-feeder-system-brochure-br034005en-en-us.pdf](#)

[eaton-motor-starters-system-xstart-brochure-br03407001en-en-us.pdf](#)

### CATALOGUES

[eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf](#)

[Product Range Catalog Switching and protecting motors](#)

### DECLARATIONS OF CONFORMITY

[eaton-dol-starter-declaration-of-conformity-uk251157en.pdf](#)

[eaton-dol-starter-declaration-of-conformity-eu250674en.pdf](#)

### DRAWINGS

[eaton-manual-motor-starters-msc-d-dol-starter-dimensions-005.eps](#)

[eaton-manual-motor-starters-msc-d-dol-starter-3d-drawing-003.eps](#)

[eaton-general-ie-ready-dilm-contactor-standards.eps](#)

### ECAD MODEL

[ETN.191108.edz](#)

### INSTALLATION INSTRUCTIONS

[IL015082ZU.pdf](#)

[IL034030ZU](#)

### INSTALLATION VIDEOS

[WIN-WIN with push-in technology](#)

### MCAD MODEL

[DA-CD-msc\\_dm\\_mfsa](#)

[DA-CS-msc\\_dm\\_mfsa](#)

### SALES NOTES

[eaton-link-module-for-motor-starters-pkz-flyer-fl034003en-en-us.pdf](#)

### WIRING DIAGRAMS

[eaton-manual-motor-starters-device-msc-d-dol-starter-wiring-diagram.eps](#)

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**INSULATING MATERIAL****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.

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**PROJECT NAME:**

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**PROJECT NUMBER:**

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**PREPARED BY:**

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**DATE:**

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