Specifications

# Eaton 199605



## Catalog Number: 199605

Eaton Moeller® series MSC-D DOL starter, 380 V 400 V 415 V: 4 kW, Ir= 6.3 - 10 A, 230 V 50 Hz, 240 V 60 Hz, AC voltage MSC-D-10-M11(230V50HZ)-PI

### General specifications

**Product Name**
Eaton Moeller® series MSC-D DOL starter

**Catalog Number**
199605

**EAN**
4015081983063

**Product Length/Depth**
115 mm

**Product Height**
214 mm

**Product Width**
45 mm

**Product Weight**
0.847 kg

**Certifications**
IEC/EN 60947-4-1
VDE 0660

**Catalog Notes**
Also suitable for motors with efficiency class IE3.

Powering Business Worldwide

## Features & Functions

Fitted with:

Short-circuit release

Functions

Temperature compensated overload protection

## General

Class

CLASS 10 A

Connection

Push in terminals

Connection to SmartWire-DT

No

Coordination type

2

Degree of protection

IP20

NEMA Other

Model

IEC/UL starter

Mounting method

DIN rail

Number of auxiliary contacts (normally closed contacts)

0

Number of auxiliary contacts (normally open contacts)

1

Overload release current setting - min

6.3 A

Overload release current setting - max

10 A

Overvoltage category

III

Pollution degree

3

Rated impulse withstand voltage (Uimp)

6000 V AC

Suitable for

Also motors with efficiency class IE3

Type

Starter with Bi-Metal release

Voltage type

AC

## Climatic environmental conditions

Altitude

Max. 2000 m

Ambient operating temperature - min

-25 °C

Ambient operating temperature - max

55 °C

## Electrical rating

Rated operational current (Ie)

8.5 A

Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V

10 A

Rated operational power at AC-3, 220/230 V, 50 Hz

2.2 kW

Rated operational power at AC-3, 380/400 V, 50 Hz

4 kW

Rated operational voltage

230 - 415 V AC

## Short-circuit rating

Rated conditional short-circuit current (Iq), type 2, 380 V, 400 V, 415 V

50 A

Short-circuit release (Irm) - max

155 A

## Magnet system

Power consumption, sealing, 50 Hz

2.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz

Rated control supply voltage (Us) at AC, 50 Hz - min

230 V

Rated control supply voltage (Us) at AC, 50 Hz - max

230 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

0 V

Rated control supply voltage (Us) at DC - max

0 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

## Resources

Brochures

eaton-msfs-motor-starter-feeder-system-brochure-br034005en-en-us.pdf

eaton-motor-starters-system-xstart-brochure-br03407001en-en-us.pdf

Catalogs

Product Range Catalog Switching and protecting motors

eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-

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 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.

us.pdf

### Declarations of conformity

DA-DC-00004912.pdf

DA-DC-00004880.pdf

### Drawings

eaton-manual-motor-starters-motortsarter-msc-d-dol-starter-dimensions-002.eps

### eCAD model

ETN.199605.edz

### Installation instructions

eaton-push-in-dol-msc-d-up-to-32a-il034097zu.pdf

### Installation videos

WIN-WIN with push-in technology

### mCAD model

msc_d_bg2_pi.dwg

msc_d_bg2_pi.stp

### Sales notes

eaton-link-module-for-motor-starters-pkz-flyer-fl034003en-en-us.pdf

### 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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