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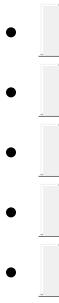
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# 121750

Eaton Moeller® series MSC-DE DOL starter, 380 V 400 V 415 V: 11 kW, Iq= 100 kA, Ir= 8 - 32 A, 24 V DC, DC voltage

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### General specifications

Product Name

Eaton Moeller® series MSC-DE DOL starter

Catalog Number

121750

Model Code

MSC-DE-32-M25(24VDC)

EAN

4015081195602

Product Length/Depth

128 mm

Product Height

242 mm

Product Width

45 mm

Product Weight

1.125 kg

## Product specifications

Rated operational current for specified heat dissipation (In)

25 A

10.11 Short-circuit rating

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

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

12.5 kW

Rated operational voltage

230 - 415 VAC

Rated conditional short-circuit current, type 1, 480 Y/277 V

0 A

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

0 V

10.4 Clearances and creepage distances

Meets the product standard's requirements.

10.12 Electromagnetic compatibility

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

Mounting method

DIN rail

Cut-out periods - min

≤ 500 ms, main conducting paths, AC-4 cycle operation

10.2.5 Lifting

Does not apply, since the entire switchgear needs to be evaluated.

Rated power at 575 V, 60 Hz, 3-phase

0 kW

Rated power at 460 V, 60 Hz, 3-phase

0 kW

10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

Rated control supply voltage (Us) at DC - min

24 V

Fitted with:

Short-circuit release

Current flow times - min

500 (Class 5) AC-4 cycle operation, Main conducting paths

For all combinations with an SWD activation, you need not adhere to the minimum current flow times and minimum cut-out periods.

1000 (Class 20) AC-4 cycle operation, Main conducting paths

Note: Going below the minimum current flow time can cause overheating of the load (motor).

700 (Class 10) AC-4 cycle operation, Main conducting paths

900 (Class 15) AC-4 cycle operation, Main conducting paths

Number of pilot lights

0

Short-circuit current rating (basic rating)

10 kA, SCCR (UL/CSA)

600 A, max. CB, SCCR (UL/CSA)

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

0 V

Coordination type

2

10.8 Connections for external conductors

Is the panel builder's responsibility.

Coordination class (IEC 60947-4-3)

Class 2

Rated conditional short-circuit current, type 1, 600 Y/347 V

0 A

Ambient operating temperature - max

55 °C

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

5.5 kW

Connection to SmartWire-DT

No  
Number of command positions  
0  
Static heat dissipation, non-current-dependent Pvs  
0.86 W  
Electrical connection type of main circuit  
Screw connection  
Rated conditional short-circuit current (Iq), 500 V  
50 A  
Electrical connection type for auxiliary- and control-current circuit  
Screw connection  
Power consumption (sealing) at DC  
0.86 W  
Rated control supply voltage (Us) at DC - max  
24 V  
10.9.3 Impulse withstand voltage  
Is the panel builder's responsibility.  
Ambient operating temperature - min  
-25 °C  
10.6 Incorporation of switching devices and components  
Does not apply, since the entire switchgear needs to be evaluated.  
10.5 Protection against electric shock  
Does not apply, since the entire switchgear needs to be evaluated.  
Class  
Adjustable  
10.13 Mechanical function  
The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.  
10.2.6 Mechanical impact  
Does not apply, since the entire switchgear needs to be evaluated.  
10.9.4 Testing of enclosures made of insulating material  
Is the panel builder's responsibility.  
10.3 Degree of protection of assemblies  
Does not apply, since the entire switchgear needs to be evaluated.  
Heat dissipation per pole, current-dependent Pvid  
2.14 W  
Actuating voltage  
24 VDC  
Voltage type  
DC  
Overload release current setting - min  
8 A  
Equipment heat dissipation, current-dependent Pvid  
6.42 W  
Heat dissipation capacity Pdiss  
0 W  
Rated operational current (Ie)  
21.7 A  
Suitable for  
Also motors with efficiency class IE3  
Number of auxiliary contacts (normally closed contacts)  
0  
Rated conditional short-circuit current (Iq), type 2, 380 V, 400 V, 415 V  
100000 A  
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.  
Rated operational power at AC-3, 500 V, 50 Hz  
15 kW  
Overload release current setting - max  
32 A  
10.9.2 Power-frequency electric strength  
Is the panel builder's responsibility.  
Overvoltage category  
III

Degree of protection  
IP20  
NEMA Other  
Pollution degree  
3  
Rated control supply voltage (Us) at AC, 60 Hz - min  
0 V  
10.7 Internal electrical circuits and connections  
Is the panel builder's responsibility.  
Rated impulse withstand voltage (Ui<sub>imp</sub>)  
6000 VAC  
Connection  
Screw terminals  
10.10 Temperature rise  
The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.  
Functions  
Temperature compensated overload protection  
Rated operational current (I<sub>e</sub>) at AC-3, 500 V  
23.4 A  
Rated conditional short-circuit current (I<sub>q</sub>), type 2, 230 V  
100000 A  
Type  
Starter with electronic trip unit  
10.2.2 Corrosion resistance  
Meets the product standard's requirements.  
10.2.4 Resistance to ultra-violet (UV) radiation  
Meets the product standard's requirements.  
10.2.7 Inscriptions  
Meets the product standard's requirements.  
Short-circuit release (I<sub>rm</sub>) - max  
496 A  
Rated control supply voltage (Us) at AC, 60 Hz - max  
0 V  
Rated operational current (I<sub>e</sub>) at AC-3, 380 V, 400 V, 415 V  
25 A  
Model  
Direct starter  
Number of auxiliary contacts (normally open contacts)  
1  
Serial Number Verified :  
Authenticated:   
The product is verified as being authentic; however, this does not guarantee the condition or fit for purpose of the product.

## Brochures

- [Motor Starters in System xStart - brochure](#)
- [Save time and space thanks to the new link module PKZM0-XDM32ME](#)
- [Simple, flexible and safe! Distribution system for motor-starter combinations](#)

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## Catalogs

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

## Certification reports

- [DA-DC-00004245.pdf](#)
- [DA-DC-00004109.pdf](#)

## Drawings

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

- [eaton-general-ie-ready-dilm-contactor-standards.eps](#)
- [eaton-manual-motor-starters-dol-starter-msc-d-3d-drawing-002.eps](#)
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## eCAD model

- [DA-CE-ETN.MSC-DE-32-M25\(24VDC\)](#)

## Installation instructions

- [IL03402010Z](#)

## Installation videos

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

## mCAD model

- [DA-CS-msc\\_de\\_bg2](#)
- [DA-CD-msc\\_de\\_bg2](#)

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## Wiring diagrams

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

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