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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 VDC, DC voltage

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- General specifications
- Product specifications

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

Certifications  
IEC/EN 60947-4-1  
VDE 0660

**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 V AC

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  $P_{vs}$

0.86 W

Electrical connection type of main circuit

Screw connection

Rated conditional short-circuit current ( $I_q$ ), 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 ( $U_s$ ) 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  $P_{vid}$

2.14 W

Actuating voltage

24 V DC

Voltage type

DC

Overload release current setting - min

8 A

Equipment heat dissipation, current-dependent  $P_{vid}$

6.42 W

Heat dissipation capacity  $P_{diss}$

0 W

Rated operational current ( $I_e$ )

21.7 A

Suitable for

Also motors with efficiency class IE3

Number of auxiliary contacts (normally closed contacts)

0

Rated conditional short-circuit current ( $I_q$ ), 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 (Uimp)  
6000 V AC  
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 (Ie) at AC-3, 500 V  
23.4 A  
Rated conditional short-circuit current (Iq), 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 (Irm) - max  
496 A  
Rated control supply voltage (Us) at AC, 60 Hz - max  
0 V  
Rated operational current (Ie) 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](#)
- [eaton-manual-motor-starters-mounting-msc-d-dol-starter-3d-drawing.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](#)
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## Wiring diagrams

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

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- 121750

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