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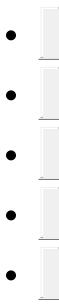
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121755

Eaton Moeller® series MSC-DEA DOL starter, 380 V 400 V 415 V: 3 kW, 100 kA, Ir: 3 - 12 A, Connection to SmartWire-DT: yes, 24 VDC, DC
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General specifications

Product Name

Eaton Moeller® series MSC-DEA DOL starter

Catalog Number

121755

Model Code

MSC-DEA-12-M7(24VDC)

EAN

4015081195657

Product Length/Depth

102 mm

Product Height

198 mm

Product Width

45 mm

Product Weight

0.78 kg

Certifications

IEC/EN 60947-4-1

VDE 0660

Product specifications

Rated operational current for specified heat dissipation (In)

7 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

3 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

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

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

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

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

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

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

Number of pilot lights

0

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

0 V

Coordination type

1

10.8 Connections for external conductors

Is the panel builder's responsibility.

Coordination class (IEC 60947-4-3)

Class 1

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

1.5 kW

Connection to SmartWire-DT

In conjunction with PKE-SWD-32 SmartWire DT PKE module

Yes

Number of command positions

0

Static heat dissipation, non-current-dependent Pvs

2.6 W

Electrical connection type of main circuit

Screw connection

Electrical connection type for auxiliary- and control-current circuit

Screw connection

Power consumption (sealing) at DC

2.6 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

0.4 W

Actuating voltage

24 VDC

Voltage type

DC

Overload release current setting - min

1 A

Equipment heat dissipation, current-dependent Pvid

1.3 W

Heat dissipation capacity Pdiss

0 W

Rated operational current (Ie)

6.6 A

Suitable for

Also motors with efficiency class IE3

Number of auxiliary contacts (normally closed contacts)

1

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

100 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.

Protocol

Other bus systems

Overload release current setting - max

4 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 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 conditional short-circuit current (Iq), type 2, 230 V

0 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

186 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

7 A

Model

Direct starter

Number of auxiliary contacts (normally open contacts)

0

Altitude

Max. 2000 m

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

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

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Catalogs

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

Certification reports

- [DA-DC-00004108.pdf](#)
- [DA-DC-00004244.pdf](#)

Drawings

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

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eCAD model

- [ETN.MSC-DEA-12-M7\(24VDC\).edz](#)

Installation instructions

- [IL034038ZU](#)

Installation videos

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

mCAD model

- [DA-CS-msc_de_bg1](#)
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Wiring diagrams

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