

Eaton 100414

Catalog Number: 100414

Eaton Moeller® series MSC-D DOL starter, 380 V 400 V 415 V: 7.5 kW, Ir= 10 - 16 A, 230 V 50 Hz, 240 V 60 Hz, AC MSC-D-16-M15(230V50HZ)



General specifications

Product Name

Eaton Moeller® series MSC-D DOL starter

Catalog Number

100414

Model Code

MSC-D-16-M15(230V50HZ)

EAN

4015081003914

Product Length/Depth

95 mm

Product Height

180 mm

Product Width

45 mm

Product Weight

0.589 kg

Certifications

CSA
UL
CE
IEC/EN 60947-4-1
UL Category Control No.: NLRV
CSA Class No.: 3211-24
CSA File No.: 012528
UL 60947-4-1
UL File No.: E36332
VDE 0660
CSA-C22.2 No. 60947-4-1-14

Catalog Notes

Not suitable for motors with efficiency class IE3.

Product specifications

Type

Starter with Bi-Metal release

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.

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.

Resources

Brochures

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

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

Catalogs

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

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

Declarations of conformity

[DA-DC-00004878.pdf](#)

[DA-DC-00004972.pdf](#)

[DA-DC-00004976.pdf](#)

[DA-DC-00004910.pdf](#)

Drawings

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

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

eCAD model

[ETN.100414.edz](#)

Installation instructions

[IL034038ZU](#)

Installation videos

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

mCAD model

[DA-CS-msc_d_bg2](#)

[DA-CS-msc_d_bg1](#)

[DA-CD-msc_d_bg1](#)

[DA-CD-msc_d_bg2](#)

Sales notes

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

Specifications and datasheets

[Eaton Specification Sheet - 100414](#)

Wiring diagrams

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

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.

Fitted with:

Short-circuit release

Pollution degree

3

Class

CLASS 10 A

Connection to SmartWire-DT

No

Rated impulse withstand voltage (Uimp)

6000 V AC

Model

IEC starter

Altitude

Max. 2000 m

Electrical connection type of main circuit

Screw connection

Voltage type

AC

Mounting method

DIN rail

Overvoltage category

III

Connection

Screw terminals

Functions

Temperature compensated overload protection

Overload release current setting - min

10 A

Rated conditional short-circuit current (I_q), type 2, 230 V

0 A

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

50 A

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

0 A

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

0 A

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

230 V

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

230 V

Rated control supply voltage (U_s) at AC, 60 Hz - max

0 V

Rated control supply voltage (U_s) at AC, 60 Hz - min

0 V

Rated control supply voltage (U_s) at DC - max

0 V

Rated control supply voltage (U_s) at DC - min

0 V

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

15 A

Power consumption, sealing, 50 Hz

1.4 W, Dual-frequency coil in a cold state and $1.0 \times U_s$, at 50 Hz

Switching capacity (auxiliary contacts, general use)

1 A, 250 V DC, (UL/CSA)

15 A, 600 V AC, (UL/CSA)

Switching capacity (auxiliary contacts, pilot duty)

P300, DC operated (UL/CSA)

A600, AC operated (UL/CSA)

Rated operational current (Ie)

15.2 A

Rated operational current for specified heat dissipation (In)

15.5 A

Rated operational voltage

230 - 415 V AC

Ambient operating temperature - max

55 °C

Ambient operating temperature - min

-25 °C

Coordination type

1

Equipment heat dissipation, current-dependent Pvid

10.5 W

Heat dissipation capacity Pdis

0 W

Heat dissipation per pole, current-dependent Pvid

3.5 W

Number of auxiliary contacts (normally closed contacts)

0

Number of auxiliary contacts (normally open contacts)

1

Number of command positions

0

Number of pilot lights

0

Overload release current setting - max

16 A

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

4 kW

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

7.5 kW

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

0 kW

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

0 kW

Short-circuit release (I_{rm}) - max

248 A

Static heat dissipation, non-current-dependent P_{vs}

1.4 W

Coordination class (IEC 60947-4-3)

Class 1

Degree of protection

IP20

NEMA Other

Electrical connection type for auxiliary- and control-current circuit

Screw connection

Actuating voltage

230 V 50 Hz

240 V 60 Hz

Power consumption

1.4 W



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