Specifications

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

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.

Powering Business Worldwide

Features & Functions

Fitted with:

Short-circuit release

Functions

Temperature compensated overload protection

General

Class

CLASS 10 A

Connection

Screw terminals

Connection to SmartWire-DT

No

Coordination type

1

Degree of protection

IP20

NEMA Other

Model

IEC 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

10 A

Overload release current setting - max

16 A

Overvoltage category

III

Pollution degree

3

Rated impulse withstand voltage (Uimp)

6000 V AC

Type

Starter with Bi-Metal release

Voltage type

AC

Climatic environmental conditions

Electrical rating

Altitude

Max. 2000 m

Ambient operating temperature - min

-25 °C

Ambient operating temperature - max

55 °C

Rated operational current (Ie)

15.2 A

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

15 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 operational voltage

230 - 415 V AC

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)

Short-circuit rating

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

50 A

Short-circuit release (Irm) - max

248 A

Magnet system

Power consumption, sealing, 50 Hz

1.4 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

Equipment heat dissipation, current-dependent Pvid

10.5 W

Resources

Brochures

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

Heat dissipation capacity Pdiss

0 W

Heat dissipation per pole, current-dependent Pvid

3.5 W

Rated operational current for specified heat dissipation (In)

15.5 A

Static heat dissipation, non-current-dependent Pvs

1.4 W

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.

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.

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

10.7 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.

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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