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Eaton Moeller® series MSC-D DOL starter, 380 V 400 V 415 V: 0.12, 0.18 kW, Ir= 0.4 - 0.63 A, 24 VDC, DC voltage

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General specifications

Product Name

Eaton Moeller® series MSC-D DOL starter

Catalog Number

102966

Model Code

MSC-D-0,63-M7(24VDC)/BBA

EAN

4015081028054

Product Length/Depth

154 mm

Product Height

200 mm

Product Width

45 mm

Product Weight

0.885 kg

Certifications

IEC/EN 60947-4-1
CSA Class No.: 3211-04
UL60947-4-1A
CE
UL File No.: E123500
UL Category Control No.: NKJH
UL
CSA File No.: 012528
UL 508 (on request)
CSA-C22.2 No. 14-10
CSA-C22.2 No. 14 (on request)
CSA

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
2
Degree of protection
IP20
NEMA Other
Model
Direct starter
Mounting method
Mounting on Busbar 60 mm
Number of auxiliary contacts (normally closed contacts)
0
Number of auxiliary contacts (normally open contacts)
1
Overload release current setting - min
0.4 A
Overload release current setting - max
0.63 A
Overvoltage category
III
Pollution degree
3
Rated impulse withstand voltage (Ui_{imp})
6000 V AC
Suitable for
Also motors with efficiency class IE3
Type
Starter with Bi-Metal release
Voltage type
DC

Climatic environmental conditions

Altitude
Max. 2000 m
Ambient operating temperature - min
-25 °C
Ambient operating temperature - max

55 °C

Electrical rating

Rated operational current (Ie)
0.6 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V
0.63 A
Rated operational power at AC-3, 220/230 V, 50 Hz
0.09 kW
Rated operational power at AC-3, 380/400 V, 50 Hz
0.18 kW
Rated operational voltage
230 - 415 VAC
Switching capacity (auxiliary contacts, general use)
1 A, 250 VDC, (UL/CSA)
15 A, 600 VAC, (UL/CSA)
Switching capacity (auxiliary contacts, pilot duty)
A600, AC operated (UL/CSA)
P300, DC operated (UL/CSA)

Short-circuit rating

Rated conditional short-circuit current (Iq), type 2, 380 V, 400 V, 415 V
50000 A
Short-circuit release (Irm) - max
9.8 A

Magnet system

Power consumption (sealing) at DC
3 W
Rated control supply voltage (Us) at AC, 50 Hz - min
0 V
Rated control supply voltage (Us) at AC, 50 Hz - max
0 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
24 V
Rated control supply voltage (Us) at DC - max
24 V

Design verification

Equipment heat dissipation, current-dependent Pvid
5.7 W
Heat dissipation capacity Pdiss
0 W
Heat dissipation per pole, current-dependent Pvid
1.9 W
Rated operational current for specified heat dissipation (In)
0.63 A
Static heat dissipation, non-current-dependent Pvs
2.6 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.

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.

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](#)

Declarations of conformity

- [DA-DC-00004878.pdf](#)
- [DA-DC-00004910.pdf](#)

Drawings

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

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eCAD model

- [DA-CE-ETN.MSC-D-0,63-M7\(24VDC\)_BBA](#)

Installation instructions

- [IL034014ZU](#)
- [IL03402015Z](#)
- [IL034038ZU](#)

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Installation videos

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

mCAD model

- [DA-CD-msc_d_bba_bg1](#)
- [DA-CS-msc_d_bba_bg1](#)

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Wiring diagrams

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

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