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- [Training and education](#)
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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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- Features & Functions
- General
- Climatic environmental conditions
- Electrical rating
- Short-circuit rating
- Magnet system
- Design verification

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 (Uimp)
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 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)
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 Pdis
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](#)
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Catalogs

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

Declarations of conformity

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

Drawings

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eCAD model

- [DA-CE-ETN.MSC-D-0.63-M7\(24VDC\)_BBA](#)

Installation instructions

- [IL034014ZU](#)
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Wiring diagrams

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

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