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102974

Eaton Moeller® series MSC-D DOL starter, 380 V 400 V 415 V: 5.5 kW, Ir= 8 - 12 A, 24 V DC, DC voltage MSC-D-12-M12(24VDC)/BBA

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- General specifications
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General specifications

Product Name
Eaton Moeller® series MSC-D DOL starter
Catalog Number
102974
Model Code
MSC-D-12-M12(24VDC)/BBA
EAN
4015081028139
Product Length/Depth
154 mm
Product Height
200 mm
Product Width
45 mm
Product Weight
0.93 kg
Certifications
UL60947-4-1A
CSA-C22.2 No. 14 (on request)
UL
CE
UL Category Control No.: NKJH
CSA-C22.2 No. 14-10
IEC/EN 60947-4-1
CSA Class No.: 3211-04
UL 508 (on request)
CSA
CSA File No.: 012528

Product specifications

Rated operational current for specified heat dissipation (In)
12 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
5.5 kW

Rated operational voltage
230 - 415 V AC

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
Mounting on Busbar 60 mm

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
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
3 kW

Connection to SmartWire-DT
No

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
4.5 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
CLASS 10 A
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 P_{vid}
3.4 W
Actuating voltage
24 V DC
Voltage type
DC
Switching capacity (auxiliary contacts, general use)
1 A, 250 V DC, (UL/CSA)
15 A, 600 V AC, (UL/CSA)
Overload release current setting - min
8 A
Equipment heat dissipation, current-dependent P_{vid}
10.2 W
Heat dissipation capacity P_{diss}
0 W
Rated operational current (I_e)
11.3 A
Suitable for
Also motors with efficiency class IE3
Number of auxiliary contacts (normally closed contacts)
0
Rated conditional short-circuit current (I_q), type 2, 380 V, 400 V, 415 V
100 A
Power consumption
2.6 W
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.
Overload release current setting - max
12 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 (U_s) at AC, 60 Hz - min
0 V
10.7 Internal electrical circuits and connections
Is the panel builder's responsibility.
Rated impulse withstand voltage (U_{imp})
6000 V AC
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 Bi-Metal release

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

12 A

Model

Direct starter

Number of auxiliary contacts (normally open contacts)

1

Altitude

Max. 2000 m

Switching capacity (auxiliary contacts, pilot duty)

A600, AC operated (UL/CSA)

P300, DC operated (UL/CSA)

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-12-M12\(24VDC\)_BBA](#)

Installation instructions

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

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Installation videos

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

mCAD model

- [DA-CD-msc_d_bba_bgl](#)
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Wiring diagrams

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

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