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102960

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102960

Eaton Moeller® series MSC-D DOL starter, 380 V 400 V 415 V: 5.5 kW, Ir= 8 - 12 A, 230 V 50 Hz, 240 V 60 Hz, AC voltage MSC-D-12-M17(230V50HZ)/BBA

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- Features & Functions
- General
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- Electrical rating
- Short-circuit rating
- Magnet system
- Design verification

General specifications

Product Name

Eaton Moeller® series MSC-D DOL starter

Catalog Number

102960

Model Code

MSC-D-12-M17(230V50HZ)/BBA

EAN

4015081027996

Product Length/Depth

156 mm

Product Height

200 mm

Product Width

45 mm

Product Weight

1.04 kg

Certifications

UL File No.: E123500

CSA

UL 508 (on request)

IEC/EN 60947-4-1

UL

CSA-C22.2 No. 14-10

CSA-C22.2 No. 14 (on request)

CSA Class No.: 3211-04

UL60947-4-1A

CSA File No.: 012528

UL Category Control No.: NKJH

CE

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

IP00

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

8 A

Overload release current setting - max

12 A

Overvoltage category

III

Pollution degree

3

Rated impulse withstand voltage (U_{imp})

6000 V AC

Suitable for

Also motors with efficiency class IE3

Type

Starter with Bi-Metal release

Voltage type
AC

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)
11.3 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V
12 A
Rated operational power at AC-3, 220/230 V, 50 Hz
3 kW
Rated operational power at AC-3, 380/400 V, 50 Hz
5.5 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
50000 A
Short-circuit release (I_{rm}) - max
186 A

Magnet system

Power consumption, sealing, 50 Hz
2.1 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 P_{vid}
8.7 W
Heat dissipation capacity P_{diss}
0 W
Heat dissipation per pole, current-dependent P_{vid}
2.9 W
Rated operational current for specified heat dissipation (I_n)
12 A
Static heat dissipation, non-current-dependent P_{vs}

2.1 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

- [Motor Starters in System xStart - brochure](#)
- [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](#)

Certification reports

- [DA-DC-00004242.pdf](#)
- [DA-DC-00004106.pdf](#)

Drawings

- [eaton-manual-motor-starters-adapter-msc-d-dol-starter-dimensions-002.eps](#)
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eCAD model

- [DA-CE-ETN.MSC-D-12-M17\(230V50HZ\)_BBA](#)

Installation instructions

- [IL03402015Z](#)
- [IL03402010Z](#)

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Installation videos

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

mCAD model

- [DA-CS-msc_d_bba_bg2](#)
- [DA-CD-msc_d_bba_bg2](#)

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Wiring diagrams

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

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