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Eaton Moeller® series MSC-R Reversing starter, 380 V 400 V 415 V: 0.75 kW, Ir= 1.6 - 2.5 A, 24 VDC, DC voltage MSC-R-2,5-M7(24VDC)/BBA

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General specifications

Product Name

Eaton Moeller® series MSC-R Reversing starter

Catalog Number

103002

Model Code

MSC-R-2,5-M7(24VDC)/BBA

EAN

4015081028412

Product Length/Depth

200 mm

Product Height

153 mm

Product Width

90 mm

Product Weight

1.67 kg

Certifications

CSA Class No.: 3211-04

CSA-C22.2 No. 14-10

UL60947-4-1A

CE

UL Category Control No.: NKJH

CSA-C22.2 No. 14 (on request)
UL 508 (on request)
CSA File No.: 012528
IEC/EN 60947-4-1
UL
CSA
UL File No.: E123500

Product specifications

Rated operational current for specified heat dissipation (In)

2.5 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

0.75 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

Rail mounting possible

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

2

10.8 Connections for external conductors

Is the panel builder's responsibility.

Coordination class (IEC 60947-4-3)

Class 2

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

0.37 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
3 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 Pvid
1.9 W

Actuating voltage
24 VDC

Voltage type
DC

Switching capacity (auxiliary contacts, general use)
1 A, 250 VDC, (UL/CSA)
15 A, 600 VAC, (UL/CSA)

Overload release current setting - min
1.6 A

Equipment heat dissipation, current-dependent Pvid
5.7 W

Heat dissipation capacity Pdis
0 W

Rated operational current (Ie)
1.9 A

Suitable for
Also motors with efficiency class IE3

Number of auxiliary contacts (normally closed contacts)
0

Rated conditional short-circuit current (Iq), type 2, 380 V, 400 V, 415 V
50000 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
2.5 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 (Us) at AC, 60 Hz - min
0 V

10.7 Internal electrical circuits and connections

Is the panel builder's responsibility.

Rated impulse withstand voltage (Uimp)

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

50000 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

38.8 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

2.5 A

Model

Reversing starter

Number of auxiliary contacts (normally open contacts)

0

Altitude

Max. 2000 m

Switching capacity (auxiliary contacts, pilot duty)

P300, DC operated (UL/CSA)

A600, AC 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

- [Save time and space thanks to the new link module PKZM0-XDM32ME](#)
- [Simple, flexible and safe! Distribution system for motor-starter combinations](#)
- [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-busbar-msc-r-reversing-starter-dimensions-002.eps](#)
- [eaton-general-ie-ready-dilm-contactor-standards.eps](#)

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eCAD model

- [DA-CE-ETN.MSC-R-2,5-M7\(24VDC\)_BBA](#)

Installation instructions

- [IL03402006Z](#)
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Installation videos

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mCAD model

- [DA-CD-msc_r_bba_bg1](#)
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Wiring diagrams

- [eaton-manual-motor-starters-starter-msc-r-reversing-starter-wiring-diagram.eps](#)

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