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Eaton Moeller® series DILA Auxiliary contact module, Type: high version, 2 pole, Ith= 16 A, 2 NC, Front fixing, Screw terminals, MSC

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- General specifications
- Product specifications

**General specifications**

Product Name  
Eaton Moeller® series MSC-R Reversing starter  
Catalog Number  
102999  
Model Code  
MSC-R-0,63-M7(24VDC)/BBA  
EAN  
4015081028382  
Product Length/Depth  
200 mm  
Product Height  
153 mm  
Product Width  
90 mm  
Product Weight  
1.63 kg  
Certifications  
CSA-C22.2 No. 14 (on request)  
UL  
UL60947-4-1A  
CE

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

**Product specifications**

Rated operational current for specified heat dissipation (In)  
0.63 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  
0.18 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  
0.09 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 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  
0.4 A  
Equipment heat dissipation, current-dependent Pvid  
5.7 W  
Heat dissipation capacity Pdis  
0 W  
Rated operational current (Ie)  
0.6 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  
0.63 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

9.8 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

0.63 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-0,63-M7\(24VDC\)\\_BBA](#)

## Installation instructions

- [IL03402015Z](#)
- [IL03402006Z](#)

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## Installation videos

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

## 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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