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Eaton Moeller® series MSC-R Reversing starter, 380 V 400 V 415 V: 3 kW, I_r= 6.3 - 10 A, 24 V DC, DC voltage MSC-R-10-M7(24VDC)/BBA

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- General specifications
- Product specifications

General specifications

Product Name
Eaton Moeller® series MSC-R Reversing starter

Catalog Number
103005

Model Code
MSC-R-10-M7(24VDC)/BBA

EAN
4015081028443

Product Length/Depth
200 mm

Product Height
153 mm

Product Width
90 mm

Product Weight
1.67 kg

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

UL Category Control No.: NKJH
UL
UL File No.: E123500
CE
CSA-C22.2 No. 14-10
UL60947-4-1A
CSA Class No.: 3211-04

Product specifications

Rated operational current for specified heat dissipation (In)
10 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
3 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
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
1.5 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
 3.1 W
 Actuating voltage
 24 VDC
 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
 6.3 A
 Equipment heat dissipation, current-dependent Pvid
 9.3 W
 Heat dissipation capacity Pdis
 0 W
 Rated operational current (Ie)
 6.6 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
 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
 10 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

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

155 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

7 A

Model

Reversing starter

Number of auxiliary contacts (normally open contacts)

0

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-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-10-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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