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- [Training and education](#)
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- General specifications
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General specifications

Product Name
Eaton Moeller® series MSC-R Reversing starter
Catalog Number
102991
Model Code
MSC-R-12-M12(230V50HZ)/BBA
EAN
4015081028306
Product Length/Depth
200 mm
Product Height
153 mm
Product Width
90 mm
Product Weight
1.56 kg
Certifications
UL Category Control No.: NKJH
UL
UL 508 (on request)
UL60947-4-1A
CSA
CSA-C22.2 No. 14-10
CSA-C22.2 No. 14 (on request)
UL File No.: E123500
CE
IEC/EN 60947-4-1
CSA Class No.: 3211-04
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
230 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
0 V
Fitted with:
Short-circuit release
Number of pilot lights

0
Rated control supply voltage (Us) at AC, 50 Hz - max
230 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
Power consumption, sealing, 50 Hz
1.2 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
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
1.4 W
Electrical connection type of main circuit
Screw connection
Electrical connection type for auxiliary- and control-current circuit
Screw connection
Rated control supply voltage (Us) at DC - max
0 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
230 V 50 Hz
240 V 60 Hz
Voltage type
AC
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 Pvid
9.3 W
Heat dissipation capacity Pdis
0 W
Rated operational current (Ie)
11.3 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
1.4 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 (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
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
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.

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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

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Installation instructions

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mCAD model

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Wiring diagrams

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

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