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General specifications

Product Name
 Eaton Moeller® series MSC-D DOL starter
 Catalog Number
 102957
 Model Code
 MSC-D-12-M12(230V50HZ)/BBA
 EAN
 4015081027965
 Product Length/Depth
 154 mm
 Product Height
 200 mm
 Product Width
 45 mm
 Product Weight
 0.875 kg
 Certifications
 CSA Class No.: 3211-04
 IEC/EN 60947-4-1
 CE
 UL Category Control No.: NKJH
 CSA-C22.2 No. 14-10
 CSA
 CSA-C22.2 No. 14 (on request)
 UL 508 (on request)
 CSA File No.: 012528
 UL
 UL File No.: E123500
 UL60947-4-1A

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
 Mounting on Busbar 60 mm
 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 VDC, (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 P_{diss}
 0 W
 Rated operational current (I_e)
 11.3 A
 Suitable for
 Also motors with efficiency class IE3
 Number of auxiliary contacts (normally closed contacts)
 0
 Rated conditional short-circuit current (I_q), 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 (U_s) at AC, 60 Hz - min
 0 V
 10.7 Internal electrical circuits and connections
 Is the panel builder's responsibility.
 Rated impulse withstand voltage (U_{imp})
 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 (I_q), 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 (I_{rm}) - max
 186 A
 Rated control supply voltage (U_s) at AC, 60 Hz - max
 0 V
 Rated operational current (I_e) at AC-3, 380 V, 400 V, 415 V
 12 A
 Model
 Direct starter
 Number of auxiliary contacts (normally open contacts)
 1
 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

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- [eaton-general-ie-ready-dilm-contactor-standards.eps](#)

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eCAD model

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Installation instructions

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