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Eaton Moeller® series MSC-DEA DOL starter, 380 V 400 V 415 V: 3 kW, 100 kA, Ir: 3 - 12 A, Connection to SmartWire-DT: yes, 24 VDC, DC

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- General specifications
- Product specifications

General specifications

Product Name
Eaton Moeller® series MSC-DEA DOL starter

Catalog Number
121755

Model Code
MSC-DEA-12-M7(24VDC)

EAN
4015081195657

Product Length/Depth
102 mm

Product Height
198 mm

Product Width
45 mm

Product Weight
0.78 kg

Certifications
IEC/EN 60947-4-1
VDE 0660

Product specifications

Rated operational current for specified heat dissipation (In)
7 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
DIN rail

Cut-out periods - min
≤ 500 ms, main conducting paths, AC-4 cycle operation

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
Current flow times - min
1000 (Class 20) AC-4 cycle operation, Main conducting paths
700 (Class 10) AC-4 cycle operation, Main conducting paths
900 (Class 15) AC-4 cycle operation, Main conducting paths
Note: Going below the minimum current flow time can cause overheating of the load (motor).
For all combinations with an SWD activation, you need not adhere to the minimum current flow times and minimum cut-out periods.
500 (Class 5) AC-4 cycle operation, Main conducting paths
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
In conjunction with PKE-SWD-32 SmartWire DT PKE module
Yes
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
2.6 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
Adjustable
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
0.4 W
Actuating voltage
24 VDC
Voltage type
DC
Overload release current setting - min
1 A

Equipment heat dissipation, current-dependent P_{vid}
 1.3 W
 Heat dissipation capacity P_{diss}
 0 W
 Rated operational current (I_e)
 6.6 A
 Suitable for
 Also motors with efficiency class IE3
 Number of auxiliary contacts (normally closed contacts)
 1
 Rated conditional short-circuit current (I_q), type 2, 380 V, 400 V, 415 V
 100 A
 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.
 Protocol
 Other bus systems
 Overload release current setting - max
 4 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 electronic trip unit
 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
 7 A
 Model
 Direct starter
 Number of auxiliary contacts (normally open contacts)
 0
 Altitude
 Max. 2000 m
 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](#)

Certification reports

- [DA-DC-00004108.pdf](#)
- [DA-DC-00004244.pdf](#)

Drawings

- [eaton-manual-motor-starters-starter-msc-d-dol-starter-dimensions-002.eps](#)
- [eaton-manual-motor-starters-mounting-msc-d-dol-starter-3d-drawing.eps](#)
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Installation instructions

- [IL034038ZU](#)

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mCAD model

- [DA-CS-msc_de_bg1](#)
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Wiring diagrams

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

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