

Specifications



Eaton 191102

Eaton Moeller® series MSC-DM DOL starter,
380 V 400 V 415 V: 0.06 kW, $I_r = 0.16 - 0.25$ A,
24 V DC, DC voltage MSC-DM-0,25-
M7(24VDC)/MSFA

General specifications

PRODUCT NAME	Eaton Moeller® series MSC-DM DOL starter
CATALOG NUMBER	191102
MODEL CODE	MSC-DM-0,25- M7(24VDC)/MSFA
EAN	4015081916009
PRODUCT LENGTH/DEPTH	115 mm
PRODUCT HEIGHT	180 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.724 kg
CERTIFICATIONS	UL 508 (on request) CSA-C22.2 No. 14 (on request)

Features & Functions

FITTED WITH:	Short-circuit release
FUNCTIONS	Temperature compensated overload protection

Climatic environmental conditions

ALTITUDE	Max. 2000 m
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT OPERATING TEMPERATURE - MAX	55 °C

General

CLASS	CLASS 10 A
CONNECTION	Screw terminals
CONNECTION TO SMARTWIRE-DT	No
COORDINATION TYPE	2
DEGREE OF PROTECTION	IP20 NEMA Other
MODEL	IEC starter
MOUNTING METHOD	Motor starter Feeder System
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	1
OVERLOAD RELEASE CURRENT SETTING - MIN	0.16 A
OVERLOAD RELEASE CURRENT SETTING - MAX	0.25 A
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
SUITABLE FOR	Also motors with efficiency class IE3
TYPE	Starter with Bi-Metal release
VOLTAGE TYPE	DC

Electrical rating

RATED OPERATIONAL CURRENT (IE)	0.21 A
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	0.25 A
RATED OPERATIONAL POWER AT AC-3, 220/230 V, 50 HZ	0.04 kW
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	0.06 kW

RATED OPERATIONAL VOLTAGE	230 - 415 V AC
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Short-circuit rating

RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 380 V, 400 V, 415 V 50000 A

SHORT-CIRCUIT RELEASE (IRM) - MAX 3.9 A

Magnet system

POWER CONSUMPTION (SEALING) AT DC 2.6 W

RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN 0 V

RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX 0 V

RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN 0 V

RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX 0 V

RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN 24 V

RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX 24 V

Design verification

10.2.2 CORROSION RESISTANCE Meets the product standard's requirements.

10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES Meets the product standard's requirements.

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.

10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION Meets the product standard's requirements.

10.2.5 LIFTING Does not apply, since the entire switchgear needs to be evaluated.

10.2.6 MECHANICAL IMPACT Does not apply, since the entire switchgear needs to be evaluated.

10.2.7 INSCRIPTIONS Meets the product standard's requirements.

10.3 DEGREE OF PROTECTION OF ASSEMBLIES Does not apply, since the entire switchgear needs to be evaluated.

10.4 CLEARANCES AND CREEPAGE DISTANCES Meets the product standard's requirements.

10.5 PROTECTION AGAINST ELECTRIC SHOCK Does not apply, since the entire switchgear needs to be evaluated.

10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS Does not apply, since the entire switchgear needs to be evaluated.

10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS Is the panel builder's responsibility.

10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS Is the panel builder's responsibility.

10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH Is the panel builder's responsibility.

10.9.3 IMPULSE WITHSTAND VOLTAGE Is the panel builder's responsibility.

10.9.4 TESTING OF ENCLOSURES MADE OF Is the panel builder's responsibility.

Resources

BROCHURES

[eaton-motor-starters-system-xstart-brochure-br03407001en-en-us.pdf](#)

[eaton-msfs-motor-starter-feeder-system-brochure-br034005en-en-us.pdf](#)

CATALOGUES

[eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf](#)

[Product Range Catalog Switching and protecting motors](#)

DECLARATIONS OF CONFORMITY

[eaton-dol-starter-declaration-of-conformity-uk251157en.pdf](#)

[eaton-dol-starter-declaration-of-conformity-eu250674en.pdf](#)

DRAWINGS

[eaton-manual-motor-starters-msc-d-dol-starter-dimensions-005.eps](#)

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

[eaton-manual-motor-starters-msc-d-dol-starter-3d-drawing-003.eps](#)

ECAD MODEL

[ETN.191102.edz](#)

INSTALLATION INSTRUCTIONS

[IL034030ZU](#)

[IL015082ZU.pdf](#)

INSTALLATION VIDEOS

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

MCAD MODEL

[DA-CD-msc_dm_mfsa](#)

[DA-CS-msc_dm_mfsa](#)

SALES NOTES

[eaton-link-module-for-motor-starters-pkz-flyer-fl034003en-en-us.pdf](#)

WIRING DIAGRAMS

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

INSULATING MATERIAL

10.10 TEMPERATURE RISE

The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

10.11 SHORT-CIRCUIT RATING

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

10.12 ELECTROMAGNETIC COMPATIBILITY

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

10.13 MECHANICAL FUNCTION

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:

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