

Specifications



Photo is representative



Eaton 283170

Eaton Moeller® series MSC-D DOL starter,
380 V 400 V 415 V: 15 kW, Ir= 25 - 32 A, 24 V
DC, DC voltage MSC-D-32-M32(24VDC)

General specifications

PRODUCT NAME	Eaton Moeller® series MSC-D DOL starter
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CATALOG NUMBER	283170
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MODEL CODE	MSC-D-32-M32(24VDC)
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EAN	4015082831707
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PRODUCT LENGTH/DEPTH	123.4 mm
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PRODUCT HEIGHT	228 mm
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PRODUCT WIDTH	45 mm
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PRODUCT WEIGHT	0.975 kg
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CERTIFICATIONS

CSA-C22.2 No. 60947-4-1-
14
UL
IEC/EN 60947-4-1
UL File No.: E36332
VDE 0660
CSA
CSA Class No.: 3211-24
CE
UL Category Control No.:
NLRV
CSA File No.: 012528
UL 60947-4-1



Powering Business Worldwide

Climatic environmental conditions

**AMBIENT OPERATING
TEMPERATURE - MAX** 55 °C

**AMBIENT OPERATING
TEMPERATURE - MIN** -25 °C

Design verification

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.

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

Does not apply, since the

AGAINST ELECTRIC SHOCK	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 INSULATING MATERIAL	Is the panel builder's responsibility.
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	19.5 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	6.5 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	32 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	0.9 W

Electrical rating

RATED OPERATIONAL CURRENT (IE)	29.3 A
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RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	32 A
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RATED OPERATIONAL POWER AT AC-3, 220/230 V, 50 HZ	7.5 kW
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RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	15 kW
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RATED OPERATIONAL VOLTAGE	230 - 415 V AC
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SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	1 A, 250 V DC, (UL/CSA) 15 A, 600 V AC, (UL/CSA)
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SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	A600, AC operated (UL/CSA) P300, DC operated (UL/CSA)
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Features & functions

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

CLASS	CLASS 10 A
CONNECTION	Screw terminals
CONNECTION TO SMARTWIRE-DT	No
COORDINATION TYPE	2
DEGREE OF PROTECTION	IP00 NEMA Other
MODEL	IEC starter
MOUNTING METHOD	DIN rail
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	1
OVERLOAD RELEASE CURRENT SETTING - MAX	32 A
OVERLOAD RELEASE CURRENT SETTING - MIN	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

Short-circuit rating

RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 380 V, 400 V, 415 V	50000 A
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	5 kA, SCCR (UL/CSA) 1 A, max. Fuse, SCCR (UL/CSA) 15 A, max. CB, SCCR (UL/CSA)
SHORT-CIRCUIT RELEASE (IRM) - MAX	496 A

Magnet system

POWER CONSUMPTION (SEALING) AT DC	0.86 W
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	24 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	24 V

Resources

BROCHURES	eaton-msfs-motor-starter-feeder-system-brochure-br034005en-en-us.pdf eaton-motor-starters-system-xstart-brochure-br03407001en-en-us.pdf
CATALOGUES	eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf
DECLARATIONS OF CONFORMITY	eaton-dol-starter-declaration-of-conformity-eu250676en.pdf

	eaton-dol-starter-declaration-of-conformity-uk251159en.pdf
DRAWINGS	eaton-manual-motor-starters-starter-msc-d-dol-starter-dimensions.eps eaton-manual-motor-starters-dol-starter-msc-d-3d-drawing.eps eaton-general-ie-ready-dilm-contactor-standards.eps eaton-manual-motor-starters-mounting-msc-d-dol-starter-3d-drawing.eps
ECAD MODEL	ETN.283170.edz
INSTALLATION INSTRUCTIONS	IL03402010Z
INSTALLATION VIDEOS	WIN-WIN with push-in technology
MCAD MODEL	eaton-motor-starter-mcad-drawings-msc-d-bg2.dwg DA-CS-msc_d_bg2
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

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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