

Specifications



Eaton 121749

Eaton Moeller® series MSC-DE DOL starter, 380 V 400 V 415 V: 11 kW, I_q= 100 kA, I_r= 8 - 32 A, 230 V 50 Hz, 240 V 60 Hz, AC voltage

General specifications

PRODUCT NAME	Eaton Moeller® series MSC-DE DOL starter
CATALOG NUMBER	121749
MODEL CODE	MSC-DE-32- M25(230V50HZ)
EAN	4015081195596
PRODUCT LENGTH/DEPTH	128 mm
PRODUCT HEIGHT	242 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	1.025 kg
CERTIFICATIONS	VDE 0660 IEC/EN 60947-4-1

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	6.42 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	2.14 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	25 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	2.1 W

Electrical rating

RATED OPERATIONAL CURRENT (IE)	21.7 A
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RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	25 A
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RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V	23.4 A
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RATED OPERATIONAL POWER AT AC-3, 220/230 V, 50 HZ	5.5 kW
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RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	12.5 kW
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RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	15 kW
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RATED OPERATIONAL VOLTAGE	230 - 415 V AC
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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	Adjustable
CONNECTION	Screw terminals
CONNECTION TO SMARTWIRE-DT	No
COORDINATION TYPE	2
CURRENT FLOW TIMES - MIN	For all combinations with an SWD activation, you need not adhere to the minimum current flow times and minimum cut-out periods. 1000 (Class 20) AC-4 cycle operation, Main conducting paths 900 (Class 15) AC-4 cycle operation, Main conducting paths 500 (Class 5) AC-4 cycle operation, Main conducting paths 700 (Class 10) AC-4 cycle operation, Main conducting paths Note: Going below the minimum current flow time can cause overheating of the load (motor).
CUT-OUT PERIODS - MIN	≤ 500 ms, main conducting paths, AC-4 cycle operation
DEGREE OF PROTECTION	IP20 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	8 A
OVERVOLTAGE CATEGORY	III
POLLUTION DEGREE	3
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC

Magnet system

POWER CONSUMPTION, SEALING, 50 HZ	2.1 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
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RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	230 V
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RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	230 V
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SUITABLE FOR	Also motors with efficiency class IE3
TYPE	Starter with electronic trip unit
VOLTAGE TYPE	AC

Short-circuit rating

RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), 500 V	50 A
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 380 V, 400 V, 415 V	100000 A
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	500 A, max. CB, SCCR (UL/CSA) 10 kA, SCCR (UL/CSA)
SHORT-CIRCUIT RELEASE (IRM) - MAX	496 A

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-uk251161en.pdf
	eaton-dol-starter-declaration-of-conformity-eu250678en.pdf
DRAWINGS	eaton-manual-motor-starters-dol-starter-msc-d-dimensions.eps
	eaton-general-ie-ready-dilm-contactor-standards.eps
	eaton-manual-motor-starters-mounting-msc-d-dol-starter-3d-drawing.eps
	eaton-manual-motor-starters-dol-starter-msc-d-3d-drawing-002.eps
ECAD MODEL	ETN.121749.edz
INSTALLATION INSTRUCTIONS	IL03402010Z
INSTALLATION VIDEOS	WIN-WIN with push-in technology
MCAD MODEL	eaton-motor-starter-mcad-drawings-msc-de-bg2.dwg
	DA-CS-msc_de_bg2
SALES NOTES	eaton-link-module-for-motor-starters-pkz-flyer-fl034003en-en-us.pdf

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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