



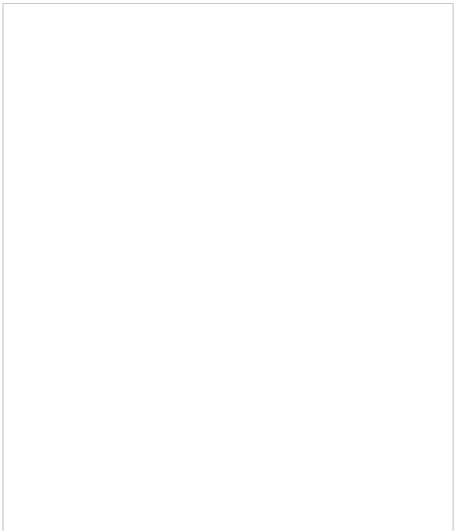
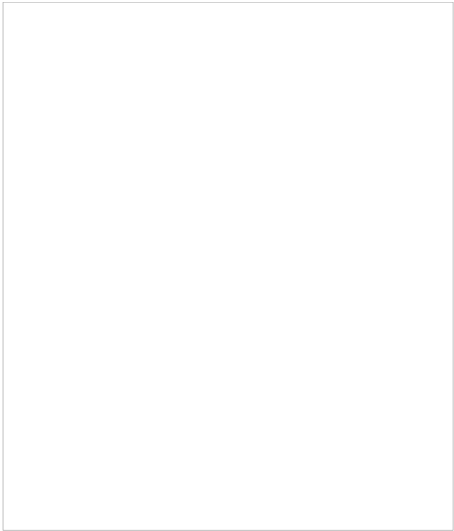
MSC MOTOR STARTERS COMBINATIONS  
121751

  
Overview

  
Specifications

  
Resources

  
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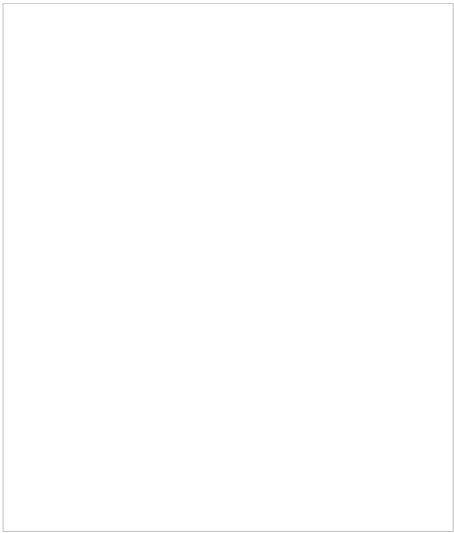
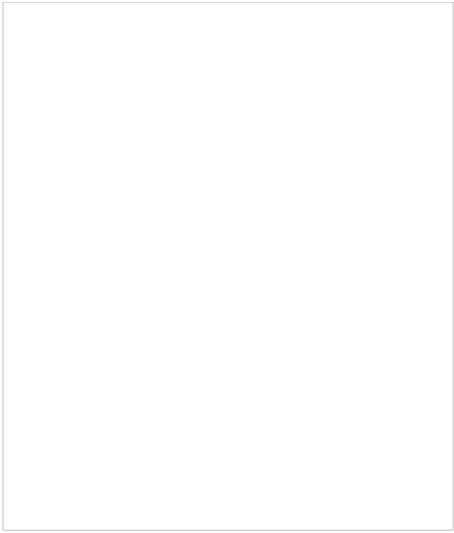
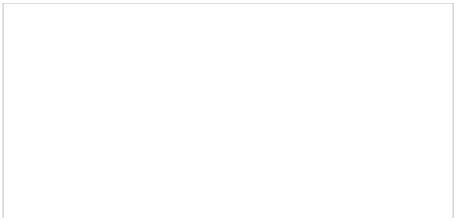


# 121751

Eaton Moeller® series MSC-DE DOL starter, 380 V  
kA, Ir= 8 - 32 A, 230 V 50 Hz, 240 V 60 Hz, AC voltage

  
How to buy

 [Configurator Motor starter combinations](#)



GENERAL SPECIFICATIONS

General specifications

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Product specifications

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PRODUCT NAME	Eaton Moeller® series MSC-DE DOL starter
CATALOG NUMBER	121751
MODEL CODE	MSC-DE-32-M32(230V50HZ)
EAN	4015081195619
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

PRODUCT SPECIFICATIONS

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	32 A
10.11 SHORT-CIRCUIT RATING	Is the panel builder's responsibility. The specification must be observed.
RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ	15 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 specification 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 lifted
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

<b>FITTED WITH:</b>	Short-circuit release
<b>CURRENT FLOW TIMES - MIN</b>	700 (Class 10) AC-4 cycle operation, Main conduct Note: Going below the minimum current flow time of the load (motor). 900 (Class 15) AC-4 cycle operation, Main conduct For all combinations with an SWD activation, you the minimum current flow times and minimum cut- 1000 (Class 20) AC-4 cycle operation, Main conduc 500 (Class 5) AC-4 cycle operation, Main conductin
<b>NUMBER OF PILOT LIGHTS</b>	0
<b>SHORT-CIRCUIT CURRENT RATING (BASIC RATING)</b>	5 kA, SCCR (UL/CSA)
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX</b>	230 V
<b>COORDINATION TYPE</b>	2
<b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>	Is the panel builder's responsibility.
<b>COORDINATION CLASS (IEC 60947-4-3)</b>	Class 2
<b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT, TYPE 1, 600 Y/347 V</b>	0 A
<b>POWER CONSUMPTION, SEALING, 50 HZ</b>	2.1 W, Dual-frequency coil in a cold state and 1.0 x
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	55 °C
<b>RATED OPERATIONAL POWER AT AC-3, 220/230 V, 50 HZ</b>	7.5 kW
<b>CONNECTION TO SMARTWIRE-DT</b>	No
<b>NUMBER OF COMMAND POSITIONS</b>	0
<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>	2.1 W
<b>ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT</b>	Screw connection
<b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), 500 V</b>	50 A
<b>ELECTRICAL CONNECTION TYPE FOR AUXILIARY- AND CONTROL-CURRENT CIRCUIT</b>	Screw connection
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX</b>	0 V
<b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>	Is the panel builder's responsibility.
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>	Does not apply, since the entire switchgear needs to
<b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>	Does not apply, since the entire switchgear needs to
<b>CLASS</b>	Adjustable

<b>10.13 MECHANICAL FUNCTION</b>	The device meets the requirements, provided the instructions in the instruction leaflet (IL) is observed.
<b>10.2.6 MECHANICAL IMPACT</b>	Does not apply, since the entire switchgear needs to be tested.
<b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>	Is the panel builder's responsibility.
<b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>	Does not apply, since the entire switchgear needs to be tested.
<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>	3.5 W
<b>ACTUATING VOLTAGE</b>	230 V 50 Hz 240 V 60 Hz
<b>VOLTAGE TYPE</b>	AC
<b>OVERLOAD RELEASE CURRENT SETTING - MIN</b>	8 A
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>	10.5 W
<b>HEAT DISSIPATION CAPACITY PDISS</b>	0 W
<b>RATED OPERATIONAL CURRENT (IE)</b>	29.3 A
<b>SUITABLE FOR</b>	Also motors with efficiency class IE3
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b>	0
<b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 380 V, 400 V, 415 V</b>	100000 A
<b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>	Meets the product standard's requirements.
<b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b>	Meets the product standard's requirements.
<b>RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ</b>	18.5 kW
<b>OVERLOAD RELEASE CURRENT SETTING - MAX</b>	32 A
<b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>	Is the panel builder's responsibility.
<b>OVERVOLTAGE CATEGORY</b>	III
<b>DEGREE OF PROTECTION</b>	IP20 NEMA Other
<b>POLLUTION DEGREE</b>	3
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN</b>	0 V
<b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>	Is the panel builder's responsibility.
<b>RATED IMPULSE WITHSTAND VOLTAGE (UIMP)</b>	6000 V AC
<b>CONNECTION</b>	Screw terminals

<b>10.10 TEMPERATURE RISE</b>	The panel builder is responsible for the temperature Eaton will provide heat dissipation data for the devi
<b>FUNCTIONS</b>	Temperature compensated overload protection
<b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V</b>	28.9 A
<b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 230 V</b>	100000 A
<b>TYPE</b>	Starter with electronic trip unit
<b>10.2.2 CORROSION RESISTANCE</b>	Meets the product standard's requirements.
<b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>	Meets the product standard's requirements.
<b>10.2.7 INSCRIPTIONS</b>	Meets the product standard's requirements.
<b>SHORT-CIRCUIT RELEASE (IRM) - MAX</b>	496 A
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX</b>	0 V
<b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V</b>	32 A
<b>MODEL</b>	Direct starter
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>	1

Brochures

Catalogs

Certification reports

Drawings

eCAD model

Installation instructions

Installation videos

mCAD model

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## Wiring diagrams

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121751



Eaton is an intelligent power management company dedicated to improving the quality of life and protecting the environment for people everywhere. We are guided by our commitment to do business right, to operate sustainably and to help our customers manage power — today and well into the future. By capitalizing on the global growth trends of electrification and digitalization, we’re accelerating the planet’s transition to renewable energy and helping to solve the world’s most urgent power management challenges.