

**MSC MOTOR STARTERS COMBINATIONS**  
**121747**

  
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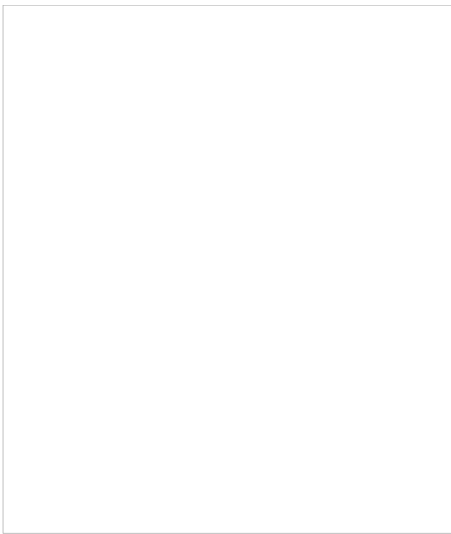


Photo is representative

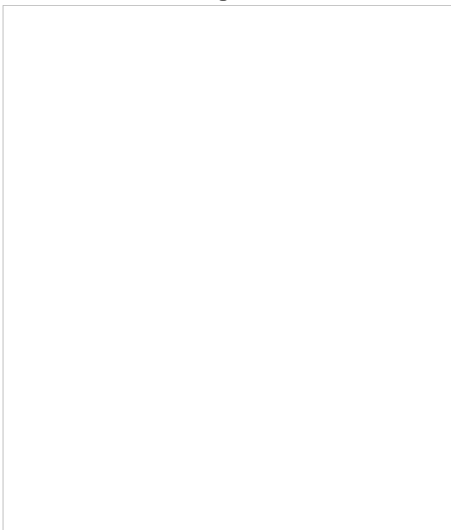


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121747

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](#)

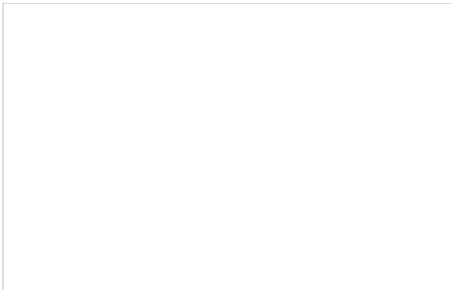


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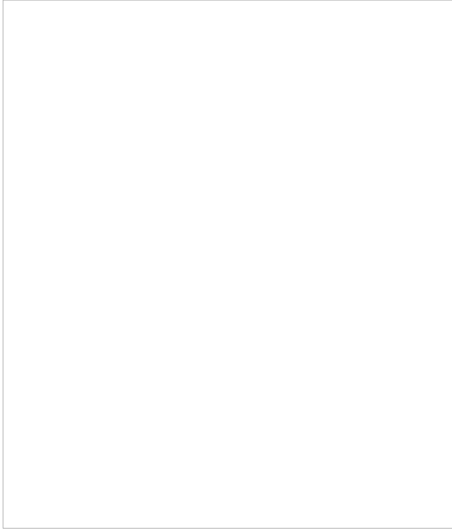


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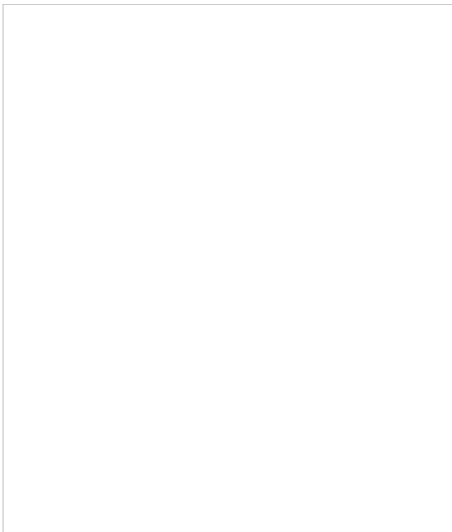


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## GENERAL SPECIFICATIONS

General specifications	>	<b>PRODUCT NAME</b>	Eaton Moeller® series MSC-DE DOL starter
		<b>CATALOG NUMBER</b>	121747
Product specifications	>	<b>MODEL CODE</b>	MSC-DE-32-M17(230V50HZ)
		<b>EAN</b>	4015081195572
		<b>PRODUCT LENGTH/DEPTH</b>	128 mm
		<b>PRODUCT HEIGHT</b>	242 mm
		<b>PRODUCT WIDTH</b>	45 mm
		<b>PRODUCT WEIGHT</b>	1.025 kg
		<b>CERTIFICATIONS</b>	VDE 0660 IEC/EN 60947-4-1

## PRODUCT SPECIFICATIONS

<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	17 A
<b>10.11 SHORT-CIRCUIT RATING</b>	Is the panel builder's responsibility. The specifications must be observed.
<b>RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ</b>	7.5 kW
<b>RATED OPERATIONAL VOLTAGE</b>	230 - 415 V AC
<b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT, TYPE 1, 480 Y/277 V</b>	0 A
<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN</b>	230 V
<b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>	Meets the product standard's requirements.
<b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>	Is the panel builder's responsibility. The specifications must be observed.
<b>MOUNTING METHOD</b>	DIN rail
<b>CUT-OUT PERIODS - MIN</b>	≤ 500 ms, main conducting paths, AC-4 cycle operation
<b>10.2.5 LIFTING</b>	Does not apply, since the entire switchgear needs to be lifted.
<b>RATED POWER AT 575 V, 60 HZ, 3-PHASE</b>	0 kW
<b>RATED POWER AT 460 V, 60 HZ, 3-PHASE</b>	0 kW

<b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>	Meets the product standard's requirements.
<b>RATED CONTROL SUPPLY VOLTAGE(US) AT DC - MIN</b>	0 V
<b>FITTED WITH:</b>	Short-circuit release
<b>CURRENT FLOW TIMES - MIN</b>	Note: Going below the minimum current flow time of the load (motor). 700 (Class 10) AC-4 cycle operation, Main conduct 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- 500 (Class 5) AC-4 cycle operation, Main conductin 1000 (Class 20) AC-4 cycle operation, Main conduc
<b>NUMBER OF PILOT LIGHTS</b>	0
<b>SHORT-CIRCUIT CURRENT RATING (BASIC RATING)</b>	250 A, max. CB, SCCR (UL/CSA) 10 kA, SCCR (UL/CSA) 250 A, max. Fuse, 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>	4 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 instruction leaflet (IL) is observed.
<b>10.2.6 MECHANICAL IMPACT</b>	Does not apply, since the entire switchgear needs to
<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
<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>	0.85 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>	2.55 W
<b>HEAT DISSIPATION CAPACITY PDISS</b>	0 W
<b>RATED OPERATIONAL CURRENT (IE)</b>	16.7 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>	7.5 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 device
<b>FUNCTIONS</b>	Temperature compensated overload protection
<b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 500 V</b>	12.1 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>	17 A
<b>MODEL</b>	Direct starter
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>	1

Brochures

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Certification reports

Drawings

eCAD model

Installation instructions

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## Installation videos

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## mCAD model

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## Wiring diagrams

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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.