



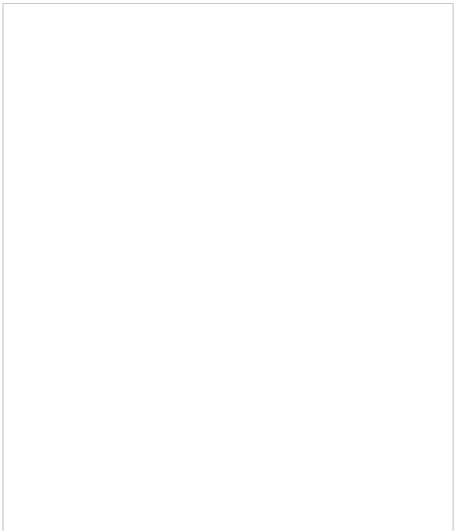
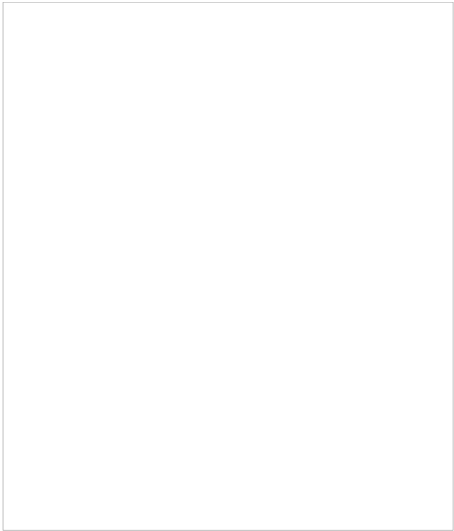
MSC MOTOR STARTERS COMBINATIONS  
121735

  
Overview

  
Specifications

  
Resources

How to

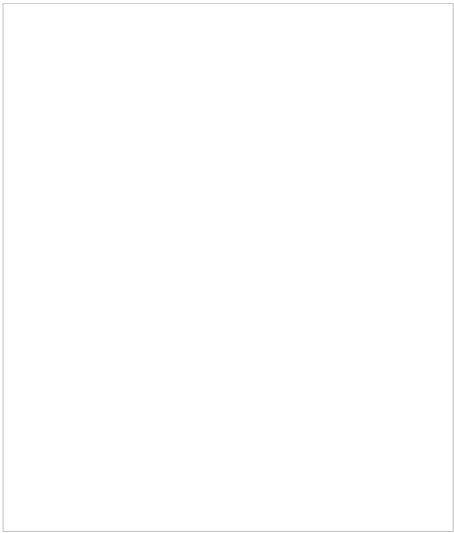
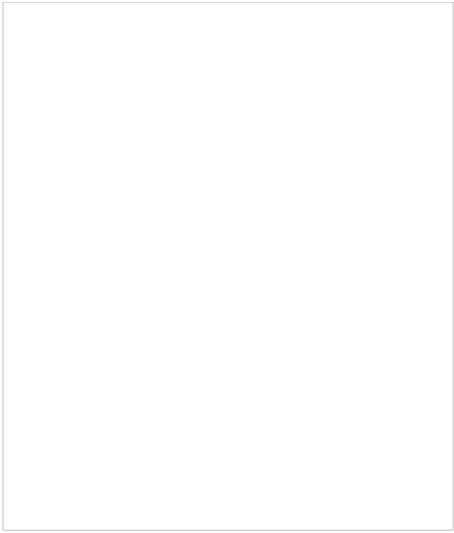
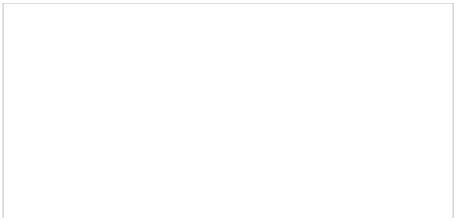


# 121735

Eaton Moeller® series MSC-DE DOL starter, 380 V  
100 kA, Ir= 0.3 - 1.2 A, 230 V 50 Hz, 240 V 60 Hz, AC  
MSC-DE-1,2-M7(230V50HZ)

How to buy

 Configurator Motor starter combinations



# Designed to work together

Discover other Eaton products and accessories built to enhance this product.

101044

Eaton Moeller® series DILA Auxiliary contact module, Type: high version, 4 pole, Ith= 16 A, 2 N/O, 2 NC, Front fixing, Screw terminals, MSC

101043

Eaton Moeller® series DILA Auxiliary contact module, Type: high version, 2 pole, Ith= 16 A, 1 N/O, 1 NC, Front fixing, Screw terminals, MSC

101042

Eaton Moeller® series DILA Auxiliary contact module, Type: high version, 2 pole, Ith= 16 A, 2 N/O, Front fixing, Screw terminals, MSC

101041

Eaton Moeller® series DILA Auxiliary contact module, Type: high version, 2 pole, Ith= 16 A, 2 NC, Front fixing, Screw terminals, MSC

View more

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## GENERAL SPECIFICATIONS

General specifications	>	PRODUCT NAME	Eaton Moeller® series MSC-DE DOL starter
		CATALOG NUMBER	121735
Product specifications	>	MODEL CODE	MSC-DE-1,2-M7(230V50HZ)
		EAN	4015081195459
		PRODUCT LENGTH/DEPTH	102 mm
		PRODUCT HEIGHT	198 mm
		PRODUCT WIDTH	45 mm
		PRODUCT WEIGHT	0.724 kg
		CERTIFICATIONS	VDE 0660 IEC/EN 60947-4-1

## PRODUCT SPECIFICATIONS

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	1.2 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	0.37 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 (UIS) AT AC 50	

<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 specification 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>	700 (Class 10) AC-4 cycle operation, Main conducting paths 900 (Class 15) AC-4 cycle operation, Main conducting paths Note: Going below the minimum current flow time of the load (motor). For all combinations with an SWD activation, you must observe the minimum current flow times and minimum cut-off times. 500 (Class 5) AC-4 cycle operation, Main conducting paths 1000 (Class 20) AC-4 cycle operation, Main conducting paths
<b>NUMBER OF PILOT LIGHTS</b>	0
<b>SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)</b>	10 A, Class J/CC, max. Fuse, SCCR (UL/CSA) 100 kA, Fuse, SCCR (UL/CSA)
<b>RATED CONTROL SUPPLY VOLTAGE(US) AT AC, 50 HZ - MAX</b>	230 V
<b>COORDINATION TYPE</b>	1
<b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>	Is the panel builder's responsibility.
<b>COORDINATION CLASS (IEC 60947-4-3)</b>	Class 1
<b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT, TYPE 1, 600 V/347 V</b>	0 A
<b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)</b>	100 kA at 380 – 400 V
<b>POWER CONSUMPTION, SEALING, 50 HZ</b>	1.4 W, Dual-frequency coil in a cold state and 1.0 W in a warm state
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	55 °C
<b>RATED OPERATIONAL POWER AT AC-3, 220/230 V, 50 HZ</b>	0.18 kW
<b>CONNECTION TO SMARTWIRE-DT</b>	No
<b>NUMBER OF COMMAND POSITIONS</b>	0

<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>	1.4 W
<b>ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT</b>	Screw connection
<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 inf 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>	0.2 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>	0.3 A
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>	0.6 W
<b>HEAT DISSIPATION CAPACITY PDISS</b>	0 W
<b>RATED OPERATIONAL CURRENT (IE)</b>	1.1 A
<b>SUITABLE FOR</b>	Also motors with efficiency class IE3
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b>	0
<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>OVERLOAD RELEASE CURRENT SETTING - MAX</b>	1.2 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 CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 230 V</b>	0 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>	186 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>	1.2 A
<b>MODEL</b>	Direct starter
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>	1
<b>ALTITUDE</b>	Max. 2000 m

Brochures

Catalogs

Certification reports

Drawings

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eCAD model

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Installation instructions

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Installation videos

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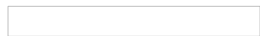
mCAD model

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Wiring diagrams

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121735



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.