

MSC MOTOR STARTERS COMBINATIONS
121739



Overview



Specifications



Resources

How to buy

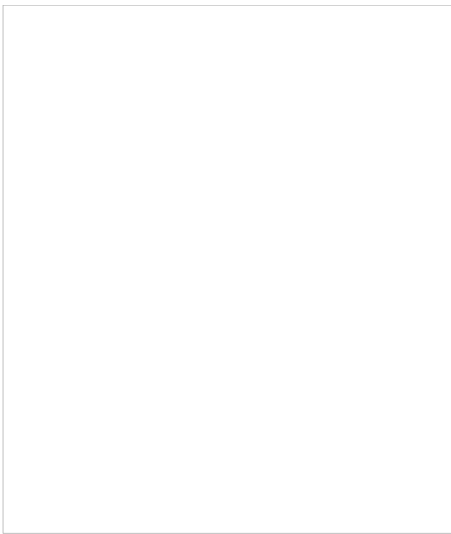


Photo is representative

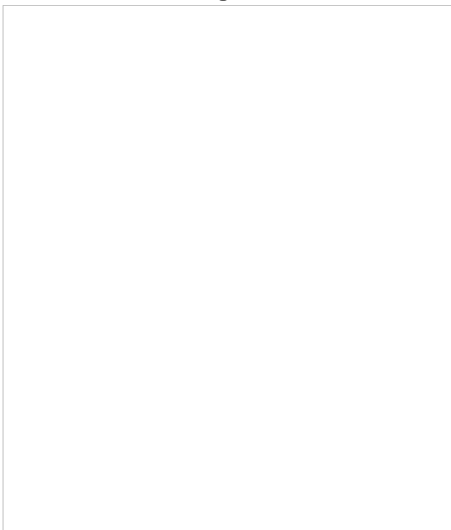


Photo is representative

121739

Eaton Moeller® series MSC-DE DOL starter, 380 V
kA, Ir= 3 - 12 A, 230 V 50 Hz, 240 V 60 Hz, AC voltage

How to buy



Configurator Motor starter combinations

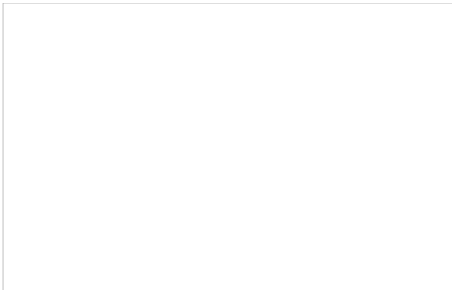


Photo is representative

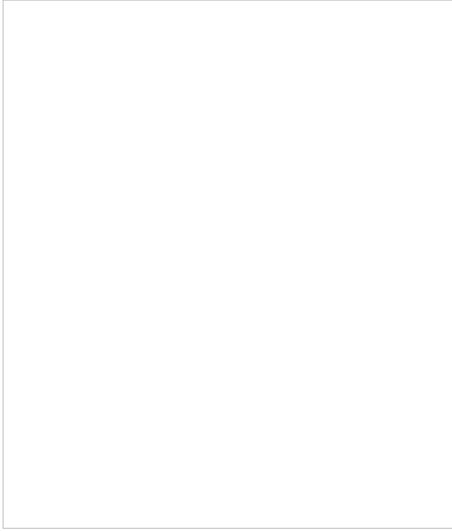


Photo is representative

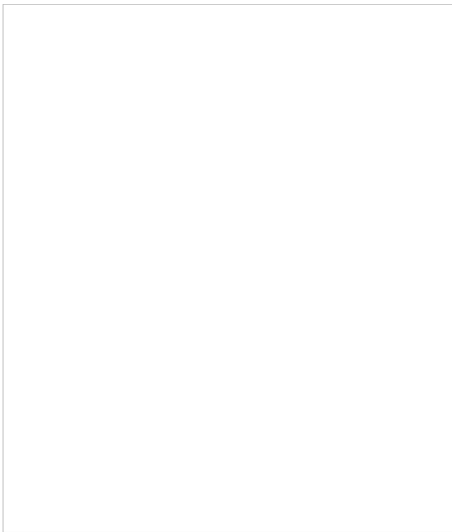


Photo is representative



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](#)

[View less](#)

GENERAL SPECIFICATIONS

General specifications

>

PRODUCT NAME Eaton Moeller® series MSC-DE DOL starter

CATALOG NUMBER 121739

Product specifications

>

MODEL CODE MSC-DE-12-M7(230V50HZ)

EAN 4015081195497

PRODUCT LENGTH/DEPTH 102 mm

PRODUCT HEIGHT 198 mm

PRODUCT WIDTH 45 mm

PRODUCT WEIGHT 0.724 kg

CERTIFICATIONS IEC/EN 60947-4-1
VDE 0660

PRODUCT SPECIFICATIONS

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN) 7 A

10.11 SHORT-CIRCUIT RATING Is the panel builder's responsibility. The specifications must be observed.

RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ 3 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 specifications 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
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 480 V)	100 A, max. CB, SCCR (UL/CSA) 100 kA, Fuse, SCCR (UL/CSA) 125 A, Class J/CC, max. Fuse, SCCR (UL/CSA) 65 kA, CB, SCCR (UL/CSA)
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
FITTED WITH:	Short-circuit release
CURRENT FLOW TIMES - MIN	For all combinations with an SWD activation, you must observe the minimum current flow times and minimum cut-off times: 900 (Class 15) AC-4 cycle operation, Main conducting path 500 (Class 5) AC-4 cycle operation, Main conducting path 700 (Class 10) AC-4 cycle operation, Main conducting path 1000 (Class 20) AC-4 cycle operation, Main conducting path Note: Going below the minimum current flow time of the load (motor).
NUMBER OF PILOT LIGHTS	0
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	150 A, max. CB, SCCR (UL/CSA) 200 A, max. Fuse, SCCR (UL/CSA) 10 kA, SCCR (UL/CSA)
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)	100 kA, Fuse, SCCR (UL/CSA) 125 A, Class J/CC, max. Fuse, SCCR (UL/CSA)
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	230 V
COORDINATION TYPE	1
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
COORDINATION CLASS (IEC 60947-4-3)	Class 1
RATED CONDITIONAL SHORT-CIRCUIT CURRENT, TYPE 1, 600 Y/347 V	0 A

RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	100 kA at 380 – 400 V
POWER CONSUMPTION, SEALING, 50 HZ	1.4 W, Dual-frequency coil in a cold state and 1.0 x
AMBIENT OPERATING TEMPERATURE - MAX	55 °C
RATED OPERATIONAL POWER AT AC-3, 220/230 V, 50 HZ	1.5 kW
CONNECTION TO SMARTWIRE-DT	No
NUMBER OF COMMAND POSITIONS	0
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	1.4 W
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
ELECTRICAL CONNECTION TYPE FOR AUXILIARY- AND CONTROL-CURRENT CIRCUIT	Screw connection
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	0 V
10.9.3 IMPULSE WITHSTAND VOLTAGE	Is the panel builder's responsibility.
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS	Does not apply, since the entire switchgear needs to
10.5 PROTECTION AGAINST ELECTRIC SHOCK	Does not apply, since the entire switchgear needs to
CLASS	Adjustable
10.13 MECHANICAL FUNCTION	The device meets the requirements, provided the instruction leaflet (IL) is observed.
10.2.6 MECHANICAL IMPACT	Does not apply, since the entire switchgear needs to
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	Is the panel builder's responsibility.
10.3 DEGREE OF PROTECTION OF ASSEMBLIES	Does not apply, since the entire switchgear needs to
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0.4 W
ACTUATING VOLTAGE	230 V 50 Hz 240 V 60 Hz
VOLTAGE TYPE	AC
OVERLOAD RELEASE CURRENT SETTING - MIN	3 A
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	1.3 W
HEAT DISSIPATION CAPACITY PDISS	0 W
RATED OPERATIONAL CURRENT (IE)	6.6 A

SUITABLE FOR	Also motors with efficiency class IE3
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
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.
OVERLOAD RELEASE CURRENT SETTING - MAX	12 A
10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH	Is the panel builder's responsibility.
OVERVOLTAGE CATEGORY	III
DEGREE OF PROTECTION	IP20 NEMA Other
POLLUTION DEGREE	3
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	0 V
10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS	Is the panel builder's responsibility.
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	6000 V AC
CONNECTION	Screw terminals
10.10 TEMPERATURE RISE	The panel builder is responsible for the temperature Eaton will provide heat dissipation data for the device.
FUNCTIONS	Temperature compensated overload protection
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 230 V	0 A
TYPE	Starter with electronic trip unit
10.2.2 CORROSION RESISTANCE	Meets the product standard's requirements.
10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION	Meets the product standard's requirements.
10.2.7 INSCRIPTIONS	Meets the product standard's requirements.
SHORT-CIRCUIT RELEASE (IRM) - MAX	186 A
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	0 V
RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V	7 A
MODEL	Direct starter
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	1
ALTITUDE	Max. 2000 m

Brochures

Catalogs

Certification reports

Drawings

eCAD model

Installation instructions

Installation videos

mCAD model

Wiring diagrams

121739



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.

