



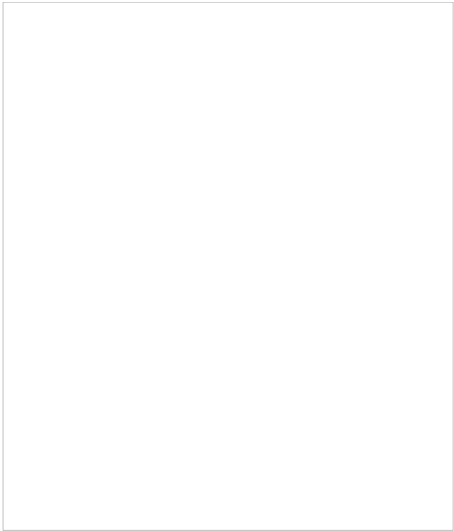
MSC MOTOR STARTERS COMBINATIONS
121743


Overview


Specifications


Resources

How to

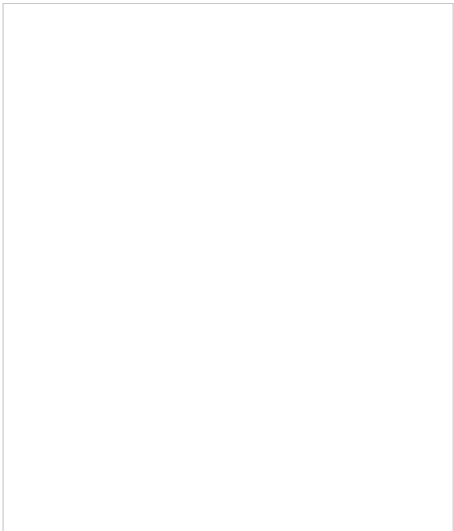


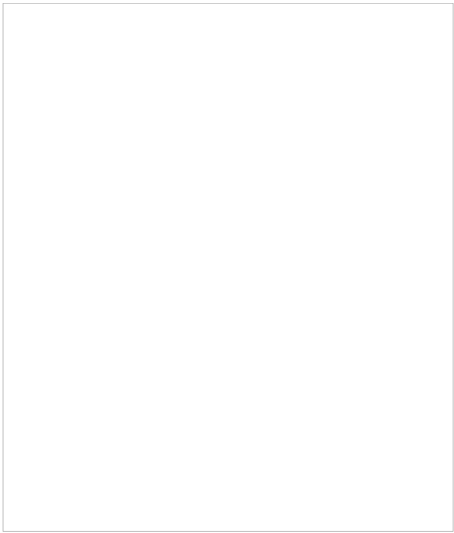
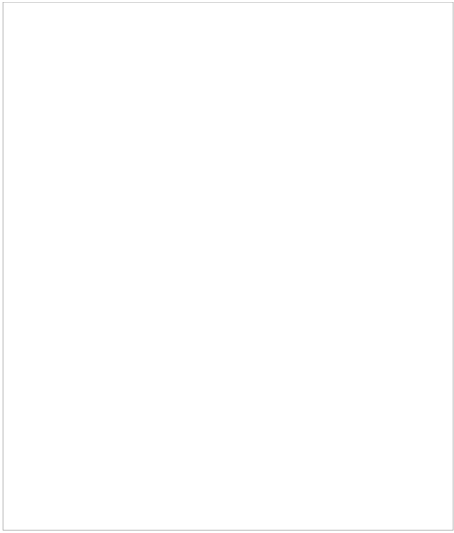
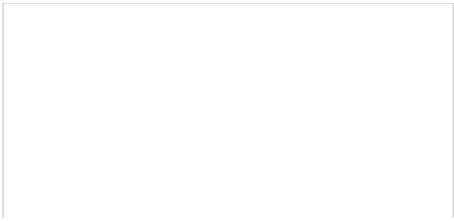
121743

Eaton Moeller® series MSC-DE DOL starter, 380 V
kA, Ir= 3 - 12 A, 230 V 50 Hz, 240 V 60 Hz, AC voltage
DE-12-M12(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

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GENERAL SPECIFICATIONS

General specifications	>	PRODUCT NAME	Eaton Moeller® series MSC-DE DOL starter
		CATALOG NUMBER	121743
Product specifications	>	MODEL CODE	MSC-DE-12-M12(230V50HZ)
		EAN	4015081195534
		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)	12 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	5.5 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	

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
FITTED WITH:	Short-circuit release
CURRENT FLOW TIMES - MIN	1000 (Class 20) AC-4 cycle operation, Main conducting paths Note: Going below the minimum current flow time of the load (motor). 900 (Class 15) AC-4 cycle operation, Main conducting paths 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 700 (Class 10) AC-4 cycle operation, Main conducting paths
NUMBER OF PILOT LIGHTS	0
SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)	35 A, Class J, max. Fuse, SCCR (UL/CSA) 100 kA, 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 V/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 W in a warm state
AMBIENT OPERATING TEMPERATURE - MAX	55 °C
RATED OPERATIONAL POWER AT AC-3, 220/230 V, 50 HZ	3 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 inf 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	1.4 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	4.2 W
HEAT DISSIPATION CAPACITY PDISS	0 W
RATED OPERATIONAL CURRENT (IE)	11.3 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 devi
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	12 A
MODEL	Direct starter
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	1
ALTITUDE	Max. 2000 m

Brochures

Catalogs

Certification reports

Drawings

eCAD model

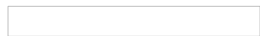
Installation instructions

Installation videos

mCAD model

Wiring diagrams

121743



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.