



MSC MOTOR STARTERS COMBINATIONS
121746


Overview


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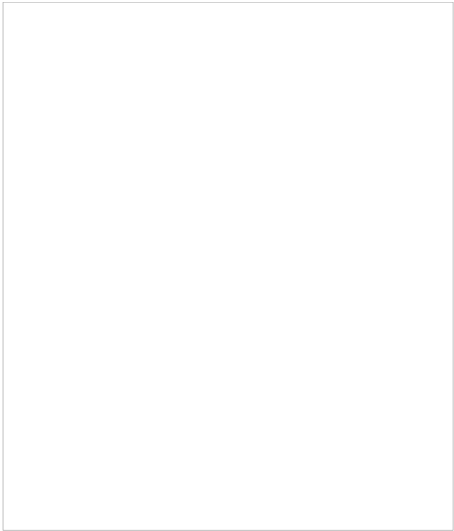


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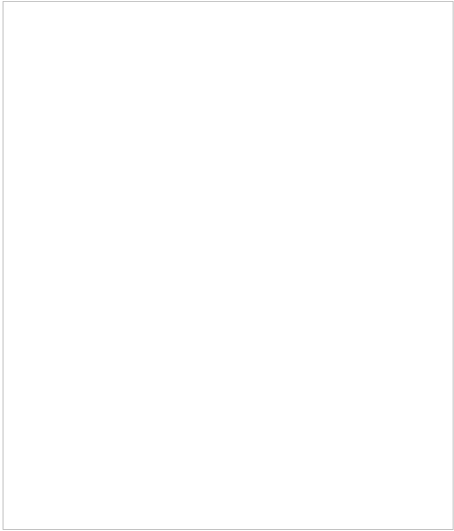


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121746

Eaton Moeller® series MSC-DE DOL starter, 380 V
kA, Ir= 3 - 12 A, 24 VDC, DC voltage, Screw termin

How to buy

 Configurator Motor starter combinations

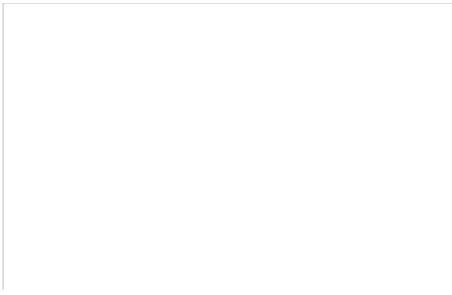


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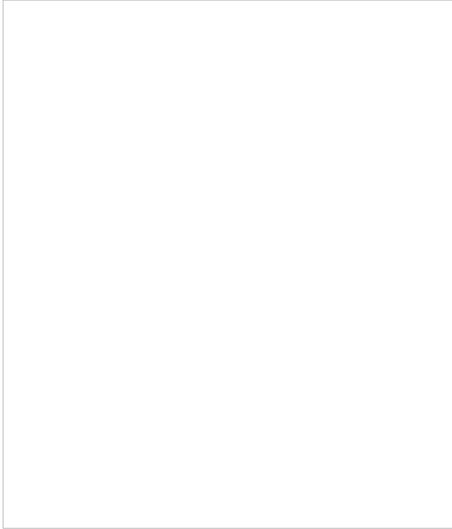


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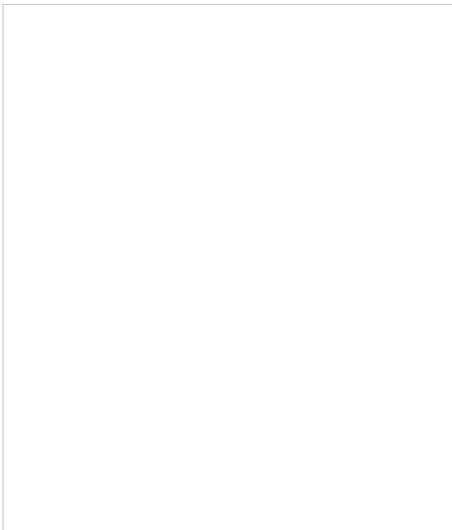


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Designed to work together

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

118561

Eaton Moeller® series DIL-SWD Function element, contactor, SmartWire-DT, DIL/MSC, manual/auto

118560

Eaton Moeller® series DIL-SWD Function element, contactor, SmartWire-DT, DIL/MSC

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GENERAL SPECIFICATIONS

General specifications	>	PRODUCT NAME	Eaton Moeller® series MSC-DE DOL starter
		CATALOG NUMBER	121746
Product specifications	>	MODEL CODE	MSC-DE-12-M17(24VDC)
		EAN	4015081195565
		PRODUCT LENGTH/DEPTH	128 mm
		PRODUCT HEIGHT	242 mm
		PRODUCT WIDTH	45 mm
		PRODUCT WEIGHT	1.1 kg
		CERTIFICATIONS	IEC/EN 60947-4-1 VDE 0660

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(US) AT AC, 50 HZ - MIN	0 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	24 V
FITTED WITH:	Short-circuit release
CURRENT FLOW TIMES - MIN	Note: Going below the minimum current flow time of the load (motor). 1000 (Class 20) AC-4 cycle operation, Main conducting paths, 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. 700 (Class 10) AC-4 cycle operation, Main conducting paths, AC-4 cycle operation, Main conducting paths 500 (Class 5) AC-4 cycle operation, Main conducting paths, AC-4 cycle operation, Main conducting paths 900 (Class 15) AC-4 cycle operation, Main conducting paths, AC-4 cycle operation, Main conducting paths
NUMBER OF PILOT LIGHTS	0
SHORT-CIRCUIT CURRENT RATING (BASIC RATING)	150 A, max. Fuse, SCCR (UL/CSA) 5 kA, SCCR (UL/CSA)
RATED CONTROL SUPPLY VOLTAGE(US) AT AC, 50 HZ - MAX	0 V
COORDINATION TYPE	2
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	Is the panel builder's responsibility.
COORDINATION CLASS (IEC 60947-4-3)	Class 2
RATED CONDITIONAL SHORT-CIRCUIT CURRENT, TYPE 1, 600 Y/347 V	0 A
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	0.86 W
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Screw connection
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), 500 V	50 A
ELECTRICAL CONNECTION TYPE FOR AUXILIARY-AND CONTROL-CURRENT CIRCUIT	Screw connection
POWER CONSUMPTION (SEALING) AT DC	0.86 W
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	24 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	1.4 W
ACTUATING VOLTAGE	24 V DC
VOLTAGE TYPE	DC
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
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 380 V, 400 V, 415 V	100000 A
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.
RATED OPERATIONAL POWER AT AC-3, 500 V, 50 HZ	5.5 kW
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 OPERATIONAL CURRENT (IE) AT AC-3, 500 V	9 A
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 230 V	100000 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

Brochures

Catalogs

Certification reports

Drawings

eCAD model

Installation instructions

Installation videos

mCAD model

Wiring diagrams

121746

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.

