



MSC MOTOR STARTERS COMBINATIONS
102950



Overview



Specifications



Resources

How to

102950

Eaton Moeller® series MSC-D DOL starter, 380 V 400 V
- 1 A, 230 V 50 Hz, 240 V 60 Hz, AC voltage MSC-D



How to buy



Configurator Motor starter combinations

Photo is representative

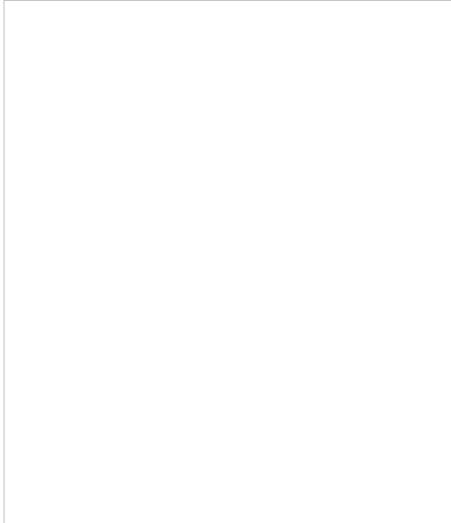


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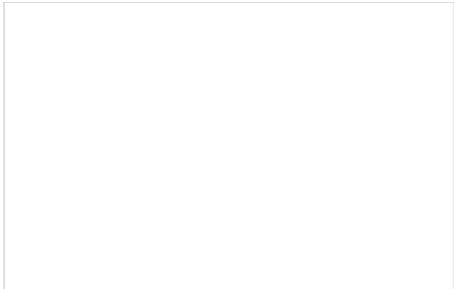


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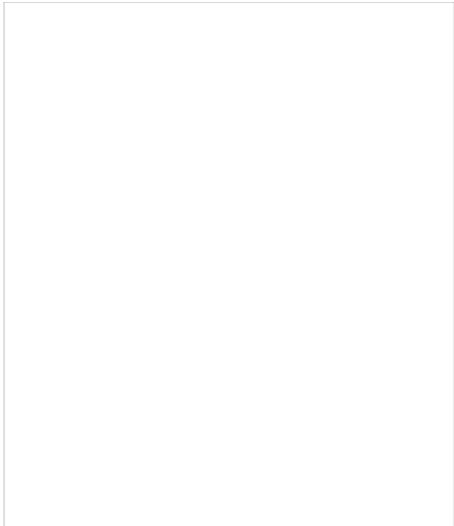


Photo is representative



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

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GENERAL SPECIFICATIONS

General specifications

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PRODUCT NAME	Eaton Moeller® series MSC-D DOL starter
CATALOG NUMBER	102950
MODEL CODE	MSC-D-1-M7(230V50HZ)/BBA
EAN	4015081025893
PRODUCT LENGTH/DEPTH	154 mm
PRODUCT HEIGHT	200 mm
PRODUCT WIDTH	45 mm
PRODUCT WEIGHT	0.875 kg

CE
IEC/EN 60947-4-1
CSA File No.: 012528
CSA-C22.2 No. 14-10
UL Category Control No.: NKJH
CSA Class No.: 3211-04
CSA-C22.2 No. 14 (on request)
UL60947-4-1A
UL 508 (on request)
CSA
UL
UL File No.: E123500

CERTIFICATIONS

PRODUCT SPECIFICATIONS

RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	1 A
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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	0.25 kW
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RATED OPERATIONAL VOLTAGE

230 - 415 V AC

RATED CONDITIONAL SHORT-CIRCUIT CURRENT, TYPE 1, 480 Y/277 V	0 A
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RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	230 V
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10.4 CLEARANCES AND CREEPAGE DISTANCES

Meets the product standard's requirements.

10.12 ELECTRO MAGNETIC COMPATIBILITY

Is the panel builder's responsibility. The specification

must be observed.

MOUNTING METHOD	Mounting on Busbar 60 mm
10.2.5 LIFTING	Does not apply, since the entire switchgear needs to be transported by the manufacturer.
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
NUMBER OF PILOT LIGHTS	0
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	230 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
POWER CONSUMPTION, SEALING, 50 HZ	1.2 W, Dual-frequency coil in a cold state and 1.0 x 1.2 W in a hot state.
AMBIENT OPERATING TEMPERATURE - MAX	55 °C
RATED OPERATIONAL POWER AT AC-3, 220/230 V, 50 HZ	0.12 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 be transported by the manufacturer.
10.5 PROTECTION AGAINST ELECTRIC SHOCK	Does not apply, since the entire switchgear needs to be transported by the manufacturer.
CLASS	CLASS 10 A

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

1.9 W

ACTUATING VOLTAGE

230 V 50 Hz
240 V 60 Hz

VOLTAGE TYPE

AC

SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)

15 A, 600 V AC, (UL/CSA)
1 A, 250 V DC, (UL/CSA)

OVERLOAD RELEASE CURRENT SETTING - MIN

0.63 A

EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID

5.7 W

HEAT DISSIPATION CAPACITY PDISS

0 W

RATED OPERATIONAL CURRENT (IE)

0.8 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

50000 A

POWER CONSUMPTION

1.4 W

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

1 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 (U_{IMP})

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	50000 A
TYPE	Starter with Bi-Metal release
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	15.5 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	1 A
MODEL	Direct starter
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	1
ALTITUDE	Max. 2000 m
SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)	P300, DC operated (UL/CSA) A600, AC operated (UL/CSA)

Brochures

Catalogs

Certification reports

Drawings

eCAD model

Installation instructions

Installation videos

mCAD model

Wiring diagrams

102950



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.