



MSC MOTOR STARTERS COMBINATIONS  
115943

  
Overview

  
Specifications

  
Resources

How to

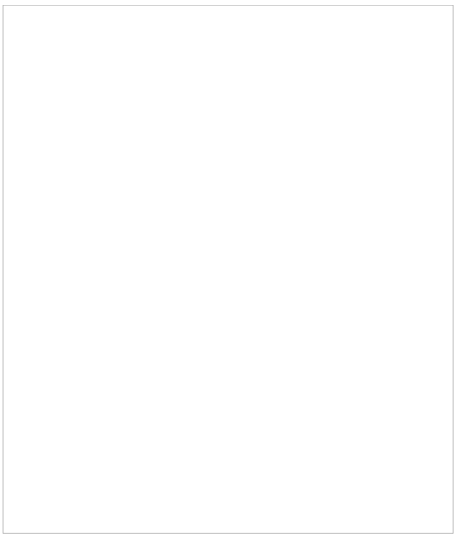


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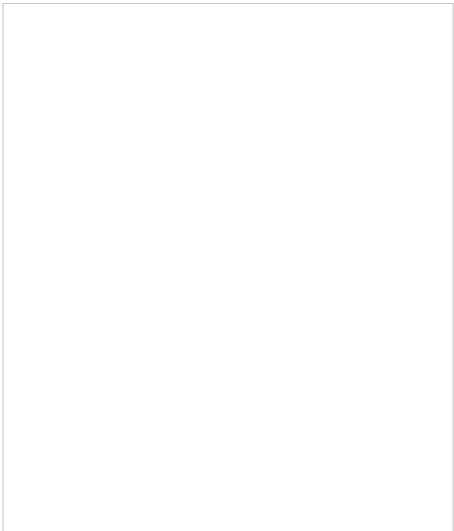


Photo is representative

115943

Eaton Moeller® series MSC-D DOL starter, 380 V 4  
2.5 - 4 A, 24 V 50 Hz, AC

How to buy

 Configurator Motor starter combinations

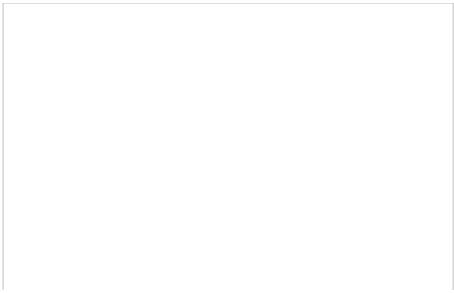


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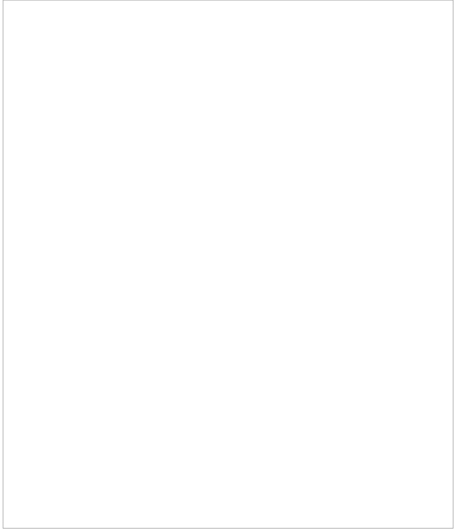


Photo is representative



## 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, Ith= 16 A, 2 NC, Front fixing, Screw terminals, MSC

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## GENERAL SPECIFICATIONS

General specifications

&gt;

**PRODUCT NAME**

Eaton Moeller® series MSC-D DOL starter

**CATALOG NUMBER**

115943

Product specifications

&gt;

**MODEL CODE**

MSC-D-4-M7(24V50HZ)

**EAN**

4015081156832

**PRODUCT LENGTH/DEPTH**

95 mm

**PRODUCT HEIGHT**

180 mm

**PRODUCT WIDTH**

45 mm

**PRODUCT WEIGHT**

0.583 kg

**CERTIFICATIONS**

IEC/EN 60947-4-1  
UL File No.: E123500  
UL Category Control No.: NKJH  
UL60947-4-1A  
VDE 0660  
CSA File No.: 012528  
CSA  
CSA-C22.2 No. 14-10  
CE  
CSA Class No.: 3211-24  
UL

## PRODUCT SPECIFICATIONS

**POWER CONSUMPTION, SEALING, 60 HZ**1.4 W, AC, Single-frequency coil 50 Hz and Dual-f  
Hz**RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)**

4 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**

1.5 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**

24 V

**10.4 CLEARANCES AND CREEPAGE DISTANCES**

Meets the product standard's requirements.

<b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>	Is the panel builder's responsibility. The specifications must be observed.
<b>MOUNTING METHOD</b>	DIN rail
<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>NUMBER OF PILOT LIGHTS</b>	0
<b>SHORT-CIRCUIT CURRENT RATING (HIGH FAULT AT 600 V)</b>	1 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>	24 V
<b>COORDINATION TYPE</b>	2
<b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>	Is the panel builder's responsibility.
<b>COORDINATION CLASS (IEC 60947-4-3)</b>	Class 2
<b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT, TYPE 1, 600 Y/347 V</b>	0 A
<b>POWER CONSUMPTION, SEALING, 50 HZ</b>	1.4 W, AC, Single-frequency coil 50 Hz and Dual-frequency coil 50 Hz
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	55 °C
<b>RATED OPERATIONAL POWER AT AC-3, 220/230 V, 50 HZ</b>	0.75 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</b>	Does not apply, since the entire switchgear needs to be lifted.

COMPONENTS	
10.5 PROTECTION AGAINST ELECTRIC SHOCK	Does not apply, since the entire switchgear needs to
CLASS	CLASS 10
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	24 V 50 Hz
VOLTAGE TYPE	AC
SWITCHING CAPACITY (AUXILIARY CONTACTS, GENERAL USE)	1 A, 250 V DC, (UL/CSA) 15 A, 600 V AC, (UL/CSA)
OVERLOAD RELEASE CURRENT SETTING - MIN	2.5 A
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	5.7 W
HEAT DISSIPATION CAPACITY PDISS	0 W
RATED OPERATIONAL CURRENT (IE)	3.6 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	4 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

<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 device
<b>FUNCTIONS</b>	Temperature compensated overload protection
<b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 230 V</b>	50000 A
<b>TYPE</b>	Starter with Bi-Metal release
<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>	62 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>	4 A
<b>MODEL</b>	Direct starter
<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>	1
<b>ALTITUDE</b>	Max. 2000 m
<b>SWITCHING CAPACITY (AUXILIARY CONTACTS, PILOT DUTY)</b>	A600, AC operated (UL/CSA) P300, DC operated (UL/CSA)

Brochures

Catalogs

Declarations of conformity

Drawings

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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115943



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.