

# Specifications

Photo is representative

## Eaton 199074

Eaton Moeller® series Rapid Link - DOL starter, 6.6 A, Sensor input 2, 180/207 V DC, AS-Interface®, S-7.A.E. for 62 modules, HAN Q5, with manual override switch

### General specifications

<b>PRODUCT NAME</b>	Eaton Rapid Link DOL starter
<b>CATALOG NUMBER</b>	199074
<b>EAN</b>	4015081971329
<b>PRODUCT LENGTH/DEPTH</b>	120 mm
<b>PRODUCT HEIGHT</b>	270 mm
<b>PRODUCT WIDTH</b>	220 mm
<b>PRODUCT WEIGHT</b>	1.8 kg
<b>CERTIFICATIONS</b>	IEC/EN 60947-4-2 UL approval UL 60947-4-2 CCC CE RoHS UL 60947-4-2
<b>CATALOG NOTES</b>	Assigned motor rating: for normal internally and externally ventilated 4 pole, three-phase asynchronous motors with 1500 rpm at 50 Hz or 1800 min at 60 Hz
<b>MODEL CODE</b>	RAMO5-D201A32-512RS1

## Features & Functions

### FEATURES

Parameterization: Keypad  
Parameterization:  
drivesConnect mobile  
(App)  
Diagnostics and reset on  
device and via AS-Interface

Parameterization:  
drivesConnect  
Parameterization: Fieldbus

### FITTED WITH:

Key switch position  
OFF/RESET  
Two sensor inputs through  
M12 sockets (max. 150  
mA) for quick stop and  
interlocked manual  
operation  
Manual override switch  
Thermistor monitoring  
PTC  
Key switch position HAND  
Key switch position AUTO  
Thermo-click  
Electronic motor  
protection  
Short-circuit release

### FUNCTIONS

For actuation of motors  
with mechanical brake  
External reset possible  
Temperature  
compensated overload  
protection

## General

**CLASS** CLASS 10 A

**DEGREE OF PROTECTION** IP65  
NEMA 12

**ELECTROMAGNETIC  
COMPATIBILITY** Class A

**LIFESPAN, ELECTRICAL** 10,000,000 Operations (at  
AC-3)

**LIFESPAN, MECHANICAL** 10,000,000 Operations (at  
AC-3)

**MODEL** Direct starter

**OVERLOAD RELEASE  
CURRENT SETTING - MIN** 0.3 A

**OVERLOAD RELEASE  
CURRENT SETTING - MAX** 6.6 A

**OVERVOLTAGE  
CATEGORY** III

**PRODUCT CATEGORY** Motor starter

**PROTOCOL** AS-Interface profile cable:  
S-7.4 for 62 modules  
ASI

**RATED IMPULSE  
WITHSTAND VOLTAGE  
(UIMP)** 4000 V

**SYSTEM  
CONFIGURATION TYPE** Center-point earthed star  
network (TN-S network)  
Phase-earthed AC supply  
systems are not  
permitted.  
AC voltage

**TYPE** DOL starter

**VOLTAGE TYPE** DC

## Ambient conditions, mechanical

<b>MOUNTING POSITION</b>	Vertical
<b>SHOCK RESISTANCE</b>	15 g, Mechanical, According to IEC/EN 60068-2-27, 11 ms, Half- sinusoidal shock 11 ms, 1000 shocks per shaft
<b>VIBRATION</b>	Resistance: According to IEC/EN 60068-2-6 Resistance: 10 - 150 Hz, Oscillation frequency Resistance: 6 Hz, Amplitude 0.15 mm Resistance: 57 Hz, Amplitude transition frequency on acceleration

## Climatic environmental conditions

<b>ALTITUDE</b>	Above 1000 m with 1 % performance reduction per 100 m Max. 2000 m Max. 1000 m
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-10 °C
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	55 °C
<b>AMBIENT STORAGE TEMPERATURE - MIN</b>	-40 °C
<b>AMBIENT STORAGE TEMPERATURE - MAX</b>	70 °C
<b>CLIMATIC PROOFING</b>	In accordance with IEC/EN 50178 < 95 %, no condensation

## Main circuit

<b>CURRENT LIMITATION</b>	0.3 - 6.6 A, motor, main circuit Adjustable, motor, main circuit
<b>INPUT CURRENT</b>	6.6 A (at 150 % Overload)
<b>MAINS SWITCH-ON FREQUENCY</b>	Maximum of one time every 60 seconds
<b>MAINS VOLTAGE TOLERANCE</b>	380 - 480 V (-15 %/+10 %, at 50/60 Hz)
<b>OFF-DELAY</b>	20 - 35 ms
<b>ON-DELAY</b>	20 - 35 ms
<b>OUTPUT FREQUENCY</b>	50/60 Hz
<b>OVERLOAD CYCLE</b>	AC-53a
<b>RATED FREQUENCY - MIN</b>	47 Hz
<b>RATED FREQUENCY - MAX</b>	63 Hz
<b>RATED OPERATIONAL CURRENT (IE)</b>	6.6 A
<b>RATED OPERATIONAL CURRENT (IE) AT 150% OVERLOAD</b>	6.6 A
<b>RATED OPERATIONAL CURRENT (IE) AT AC-3, 380 V, 400 V, 415 V</b>	6.6 A
<b>RATED OPERATIONAL POWER AT 380/400 V, 50 HZ - MIN</b>	0.09 kW
<b>RATED OPERATIONAL POWER AT 380/400 V, 50 HZ - MAX</b>	3 kW
<b>RATED OPERATIONAL POWER AT AC-3, 220/230 V, 50 HZ</b>	0 kW
<b>RATED OPERATIONAL POWER AT AC-3, 380/400 V, 50 HZ</b>	3 kW
<b>RATED OPERATIONAL VOLTAGE</b>	400 V AC, 3-phase 480 V AC, 3-phase
<b>SUPPLY FREQUENCY</b>	50/60 Hz, fLN, Main circuit
<b>SYSTEM CONFIGURATION TYPE</b>	Center-point earthed star network (TN-S network) Phase-earthed AC supply systems are not permitted. AC voltage

## Motor rating

### ASSIGNED MOTOR

**POWER AT 460/480 V, 60** 3 HP

**HZ, 3-PHASE**

## Braking function

<b>BRAKING CURRENT</b>	≤ 0.6 A (max. 6 A for 120 ms), Actuator for external motor brake
<b>BRAKING VOLTAGE</b>	180/215 V DC -15 % / +10 %, Actuator for external motor brake

## Control circuit

<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN</b>	0 V
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<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX</b>	0 V
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<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN</b>	0 V
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<b>RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX</b>	0 V
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<b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN</b>	0 V
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<b>RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX</b>	0 V
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<b>RATED CONTROL VOLTAGE (UC)</b>	180/207 V DC (external brake 50/60 Hz) 24 V DC (-15 %/+20 %, external via AS-Interface® plug)
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## Contacts

<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)</b>	0
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<b>NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)</b>	0
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## Short-circuit rating

<b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)</b>	10 kA
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<b>RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 380 V, 400 V, 415 V</b>	0 A
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<b>SHORT-CIRCUIT PROTECTION (EXTERNAL OUTPUT CIRCUITS)</b>	Type 1 coordination via the power bus' feeder unit, Main circuit
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## Communication

<b>CONNECTION</b>	Connections pluggable in power section
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<b>INTERFACES</b>	Max. total power consumption from AS-Interface® power supply unit (30 V): 190 mA Specification: S-7.A.E. (AS-Interface®) Number of slave addresses: 62 (AS-Interface®)
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## Cable

<b>CABLE LENGTH</b>	10 m, Radio interference level, maximum motor cable length
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## Design verification

**10.2.2 CORROSION RESISTANCE** Meets the product standard's requirements.

**10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES** Meets the product standard's requirements.

**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.

**10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION** Meets the product standard's requirements.

**10.2.5 LIFTING** Does not apply, since the entire switchgear needs to be evaluated.

**10.2.6 MECHANICAL IMPACT** Does not apply, since the entire switchgear needs to be evaluated.

**10.2.7 INSCRIPTIONS** Meets the product standard's requirements.

**10.3 DEGREE OF PROTECTION OF ASSEMBLIES** Does not apply, since the entire switchgear needs to be evaluated.

**10.4 CLEARANCES AND CREEPAGE DISTANCES** Meets the product standard's requirements.

**10.5 PROTECTION AGAINST ELECTRIC SHOCK** Does not apply, since the entire switchgear needs to be evaluated.

**10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS** Does not apply, since the entire switchgear needs to be evaluated.

**10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS** Is the panel builder's responsibility.

**10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS** Is the panel builder's responsibility.

**10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH** Is the panel builder's responsibility.

**10.9.3 IMPULSE WITHSTAND VOLTAGE** Is the panel builder's responsibility.

**10.9.4 TESTING OF ENCLOSURES MADE OF** Is the panel builder's responsibility.

## Resources

[eaton-powerxl-dx-com-stick-3-ap040190-en-us.pdf](#)

[eaton-rapid-link-generation-change-rasp4-to-rasp5-ap040197-en-us.pdf](#)

[eaton-rapid-link-5-configuration-rockwell-plc-ap040195-en-us.pdf](#)

[Electromagnetic compatibility \(EMC\)](#)

[eaton-rapid-link-firmware-update-rasp4-ap040219-en-us.pdf](#)

[eaton-powerxl-da1-dc1-db1-de1-rapidlink5-firmware-update-ap040214-en-us.pdf](#)

[eaton-rapid-link-generation-change-ra-sp-to-rasp4-ap040080-en-us.pdf](#)

[eaton-rapid-link-generation-change-ra-mo-to-ramo4-ap040081-en-us.pdf](#)

[eaton-powerxl-da1-dc1-de1-internal-motor-protection-ap040016-en-us.pdf](#)

[eaton-rapid-link-generation-change-ra-sp-to-rasp5-ap040196-en-us.pdf](#)

[eaton-rapid-link-generation-change-ramo4-to-ramo5-ap040198-en-us.pdf](#)

[eaton-rapid-link-5-rasp5-profinet-communication-ap040215-en-us.pdf](#)

[eaton-rapid-link-5-brochure-br040014en-en-us.pdf](#)

## APPLICATION NOTES

## BROCHURES

## INSULATING MATERIAL

### 10.10 TEMPERATURE RISE

The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

### 10.11 SHORT-CIRCUIT RATING

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

### 10.12 ELECTROMAGNETIC COMPATIBILITY

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

### 10.13 MECHANICAL FUNCTION

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

[eaton-powerxl-variable-frequency-drives-material-handling-brochure-br040017en-en-us.pdf](#)

## CATALOGUES

[eaton-rapid-link-5-drive-system-catalog-ca040002en-en-us](#)

[Product Range Catalog Drives Engineering](#)

## DECLARATIONS OF CONFORMITY

[DA-DC-00003964.pdf](#)

[DA-DC-00004523.pdf](#)

[DA-DC-00004184.pdf](#)

[DA-DC-00004525.pdf](#)

## DRAWINGS

[eaton-bus-adapter-rapidlink-reversing-starter-dimensions-002.eps](#)

[eaton-bus-adapter-rapidlink-reversing-starter-dimensions-003.eps](#)

## ECAD MODEL

[ETN.RAMO5-D201A32-512RS1.edz](#)

## INSTALLATION INSTRUCTIONS

[IL034084ZU](#)

## INSTALLATION VIDEOS

[Rapid Link 5](#)

## MCAD MODEL

[ramo5\\_v4.dwg](#)

[ramo5\\_v4.stp](#)

## SOFTWARE, FIRMWARE, AND APPLICATIONS

[eaton-rapidlink5-firmware-release-note-mz034006en-us.pdf](#)

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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