

Specifications

Photo is representative

Eaton 198523

Eaton Moeller® series Rapid Link - DOL starter, 6.6 A, Sensor input 2, 400/480 V AC, AS-Interface®, S-7.4 for 31 modules, HAN Q5

General specifications

PRODUCT NAME	Eaton Rapid Link DOL starter
CATALOG NUMBER	198523
EAN	4015081963980
PRODUCT LENGTH/DEPTH	120 mm
PRODUCT HEIGHT	270 mm
PRODUCT WIDTH	220 mm
PRODUCT WEIGHT	1.63 kg
CERTIFICATIONS	RoHS IEC/EN 60947-4-2 UL approval UL 60947-4-2 CE CCC UL 60947-4-2
CATALOG NOTES	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
MODEL CODE	RAMO5-D204A31-5120S1

Features & Functions

FEATURES

Parameterization:
drivesConnect
Parameterization: Fieldbus

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

FITTED WITH:

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

FUNCTIONS

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

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 31 modules
ASI

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

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

TYPE DOL starter

VOLTAGE TYPE DC

Ambient conditions, mechanical

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

Climatic environmental conditions

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

Main circuit

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

Motor rating

ASSIGNED MOTOR
POWER AT 460/480 V, 60 HZ, 3-PHASE 3 HP

Braking function

BRAKING CURRENT	≤ 0.6 A (max. 6 A for 120 ms), Actuator for external motor brake
BRAKING VOLTAGE	400/480 V AC -15 % / +10 %, Actuator for external motor brake

Control circuit

RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	0 V
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RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	0 V
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RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	0 V
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RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	0 V
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RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	0 V
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RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	0 V
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RATED CONTROL VOLTAGE (UC)	400/480 V AC (external brake 50/60 Hz) 24 V DC (-15 %/+20 %, external via AS-Interface® plug)
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Contacts

NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
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NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	0
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Short-circuit rating

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

CONNECTION	Connections pluggable in power section
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INTERFACES	Specification: S-7.4 (AS-Interface®) Number of slave addresses: 31 (AS-Interface®) Max. total power consumption from AS-Interface® power supply unit (30 V): 190 mA
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Cable

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

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

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

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

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

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

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

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

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

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

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

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

[eaton-powerxl-variable-frequency-drives-material-handling-brochure-br040017en-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-rapid-link-5-brochure-br040014en-en-us.pdf](#)

CATALOGUES

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

[Product Range Catalog Drives Engineering](#)

DECLARATIONS OF CONFORMITY

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

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

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

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

DRAWINGS

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

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

ECAD MODEL

[ETN.RAMO5-D204A31-5120S1.edz](#)

INSTALLATION INSTRUCTIONS

[IL034084ZU](#)

INSTALLATION VIDEOS

[Rapid Link 5](#)

MANUALS AND USER GUIDES

[eaton-rapid-link-5-mn034004en-us.pdf](#)

MCAD MODEL

[ramo5_v1.stp](#)

[ramo5_v1.dwg](#)

SOFTWARE, FIRMWARE, AND APPLICATIONS

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

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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