Specifications

Photo is representative

Eaton 199094

Eaton Moeller® series Rapid Link - Reversing starter, 6.6 A, Sensor input 2, Actuator output 1, AS-Interface®, S-7.A.E. for 62 modules, HAN Q4/2

General specification	าร
PRODUCT NAME	Eaton Rapid Link Reversing starter
CATALOG NUMBER	199094
EAN	4015081971527
PRODUCT LENGTH/DEPTH	120 mm
PRODUCT HEIGHT	270 mm
PRODUCT WIDTH	220 mm
PRODUCT WEIGHT	1.64 kg
CERTIFICATIONS	CE RoHS CCC IEC/EN 60947-4-2 UL approval UL 60947-4-2 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-W210A32-4120S1



Features & Functions		Gen
FEATURES	Parameterization: Keypad	CLAS
	Diagnostics and reset on device and via AS-Interface	DEGF
	Parameterization: drivesConnect mobile	ELEC COM
	(App) Parameterization: drivesConnect	LIFES
	Parameterization: Fieldbus	LIFES
	Thermo-click	MOD
	Two sensor inputs through M12 sockets (max. 150	OVER
	mA) for quick stop and	CUR
	interlocked manual	OVEF
	operation 1 Actuator output	CUR
	Key switch position AUTO	OVEF
FITTED WITH:	Key switch position HAND	CATE
	Electronic motor	PRO
	protection Key switch position OFF/RESET Thermistor monitoring	PRO
	PTC	RATE
	Short-circuit release	WITH
	External reset possible	(UIM
FUNCTIONS	Temperature compensated overload protection	SYST
		CON

	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	Reversing starter
	OVERLOAD RELEASE CURRENT SETTING - MIN	0.3 A
	OVERLOAD RELEASE CURRENT SETTING - MAX	6.6 A
	OVERVOLTAGE CATEGORY	111
	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) AC voltage Phase-earthed AC supply systems are not permitted.
	ТҮРЕ	Reversing 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

ALTITUDE	Max. 2000 m Max. 1000 m Above 1000 m with 1 % performance reduction per 100 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

Climatic environmental conditions

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

Motor rating

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

Short-circuit rating

10 kA
0 A
Type 1 coordination via the power bus' feeder unit, Main circuit

Control circuit

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

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

Contacts

NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	1

Cable

CABLE LENGTH

10 m, Radio interference level, maximum motor cable length

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	Meets the product

INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS	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	ls the panel builder's responsibility.
10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS	ls the panel builder's responsibility.
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTH	ls the panel builder's responsibility.
10.9.3 IMPULSE WITHSTAND VOLTAGE	ls the panel builder's responsibility.
10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL	ls the panel builder's responsibility.
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.

Resources

	<u>eaton-powerxl-dx-com-</u> <u>stick-3-ap040190-en-</u> <u>us.pdf</u>
	<u>eaton-rapid-link-</u> generation-change-ra-sp- to-rasp4-ap040080-en- us.pdf
	eaton-rapid-link-5-rasp5- profinet-communication- ap040215-en-us.pdf
	<u>eaton-rapid-link-</u> generation-change-ramo4- <u>to-ramo5-ap040198-en-</u> us.pdf
	<u>eaton-rapid-link-</u> generation-change-ra-sp- to-rasp5-ap040196-en- us.pdf
APPLICATION NOTES	<u>eaton-rapid-link-</u> generation-change-ra-mo- to-ramo4-ap040081-en- us.pdf
	<u>eaton-rapid-link-</u> generation-change-rasp4- <u>to-rasp5-ap040197-en-</u> <u>us.pdf</u>
	<u>eaton-rapid-link-5-</u> <u>configuration-rockwell-plc-</u> <u>ap040195-en-us.pdf</u>
	<u>Electromagnetic</u> compatibility (EMC)
	<u>eaton-powerxl-da1-dc1-</u> <u>db1-de1-rapidlink5-</u> <u>firmware-update-</u> ap040214-en-us.pdf
	<u>eaton-powerxl-da1-dc1-</u> <u>de1-internal-motor-</u> <u>protection-ap040016-en-</u> <u>us.pdf</u>
	<u>eaton-rapid-link-firmware-</u> <u>update-rasp4-ap040219-</u> <u>en-us.pdf</u>
BROCHURES	<u>eaton-rapid-link-5-</u> <u>brochure-br040014en-en-</u> <u>us.pdf</u>

	<u>eaton-powerxl-variable-</u> <u>frequency-drives-material-</u> <u>handling-brochure-</u> <u>br040017en-en-us.pdf</u>
CATALOGUES	<u>eaton-rapid-link-5-drive-</u> <u>system-catalog-</u> <u>ca040002en-en-us</u> <u>Product Range Catalog</u>
	Drives Engineering
DECLARATIONS OF CONFORMITY	DA-DC-00003964.pdf
	DA-DC-00004523.pdf
	DA-DC-00004525.pdf
	DA-DC-00004184.pdf
DRAWINGS	eaton-bus-adapter- rapidlink-reversing-starter- dimensions-002.eps eaton-bus-adapter-
	<u>rapidlink-reversing-starter-</u> <u>dimensions.eps</u>
ECAD MODEL	ETN.RAMO5-W210A32- 4120S1.edz
INSTALLATION INSTRUCTIONS	<u>IL034084ZU</u>
INSTALLATION VIDEOS	Rapid Link 5
MCAD MODEL	ramo5 v9.dwg
	ramo5_v9.stp
SOFTWARE, FIRMWARE, AND APPLICATIONS	<u>eaton-rapidlink5-firmware-</u> <u>release-note-mz034006en-</u> <u>us.pdf</u>

PROJECT	NAME:
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PROJECT NUMBER:

PREPARED BY:

DATE:



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