Specifications

Photo is representative

Eaton 199089

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

General specifications		
PRODUCT NAME	Eaton Rapid Link Reversing starter	
CATALOG NUMBER	199089	
EAN	4015081971473	
PRODUCT LENGTH/DEPTH	120 mm	
PRODUCT HEIGHT	270 mm	
PRODUCT WIDTH	220 mm	
PRODUCT WEIGHT	1.63 kg	
CERTIFICATIONS	IEC/EN 60947-4-2 UL approval CE UL 60947-4-2 RoHS 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-W201A32-5120S1	



Features & Functions		
FEATURES	Parameterization: drivesConnect mobile (App) Parameterization: Keypad Parameterization: drivesConnect Diagnostics and reset on device and via AS-Interface	
FITTED WITH:	Parameterization: Fieldbus Electronic motor protection Thermistor monitoring PTC Thermo-click Key switch position OFF/RESET Two sensor inputs through M12 sockets (max. 150	
	mA) for quick stop and interlocked manual operation Key switch position HAND Key switch position AUTO Short-circuit release	
FUNCTIONS	For actuation of motors with mechanical brake External reset possible Temperature compensated overload protection	

	General		
	CLASS	CLASS 10 A	
e ypad	DEGREE OF PROTECTION	IP65 NEMA 12	
урац	ELECTROMAGNETIC COMPATIBILITY	Class A	
t on erface	LIFESPAN, ELECTRICAL	10,000,000 Operations (at AC-3)	
ldbus	LIFESPAN, MECHANICAL	10,000,000 Operations (at AC-3)	
	MODEL	Reversing starter	
ng	OVERLOAD RELEASE CURRENT SETTING - MIN	0.3 A	
	OVERLOAD RELEASE CURRENT SETTING - MAX	6.6 A	
rough 50	OVERVOLTAGE CATEGORY	Ш	
ıd	PRODUCT CATEGORY	Motor starter	
IAND UTO	PROTOCOL	AS-Interface profile cable: S-7.4 for 62 modules ASI	
ors	RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4000 V	
ad	SYSTEM CONFIGURATION TYPE	AC voltage Phase-earthed AC supply systems are not permitted. Center-point earthed star network (TN-S network)	
	ТҮРЕ	Reversing starter	
	VOLTAGE TYPE	DC	

Ambient conditions, mechanical

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

ALTITUDE	Max. 1000 m Above 1000 m with 1 % performance reduction per 100 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	In accordance with IEC/EN 50178 < 95 %, no condensation	

Climatic environmental conditions

Main circuit

CURRENT LIMITATION	0.3 - 6.6 A, motor, main circuit Adjustable, 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	400 V AC, 3-phase 480 V AC, 3-phase	
SUPPLY FREQUENCY	50/60 Hz, fLN, Main circuit	
SYSTEM CONFIGURATION TYPE	AC voltage Phase-earthed AC supply systems are not permitted. Center-point earthed star network (TN-S network)	

Motor rating

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

Braking function

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

Short-circuit rating

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

Control circuit		0
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	0 V	C
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)	180/207 V DC (external brake 50/60 Hz) 24 V DC (-15 %/+20 %, external via AS-Interface® plug)	

0

communication	
CONNECTION	Connections pluggable in power section
NTERFACES	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®)

Contacts

NUMBER OF AUXILIARY **CONTACTS (NORMALLY CLOSED CONTACTS)**

NUMBER OF AUXILIARY **CONTACTS (NORMALLY** 0 **OPEN CONTACTS)**

Cable

CABLE LENGTH

10 m, Radio interference level, maximum motor cable length

Design verification

RESISTANCE standard's requirements.10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURESMeets the product standard's requirements.10.2.3.2 VERIFICATION OF	_
10.2.3.2 VERIFICATION OF	
RESISTANCE OF Meets the product INSULATING MATERIALS standard's requirements. TO NORMAL HEAT	
10.2.3.3 RESIST. OFINSUL. MAT. TOABNORMAL HEAT/FIREBY INTERNAL ELECT.EFFECTS	
10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATIONMeets the product standard's requirements.	
10.2.5 LIFTING Does not apply, since the entire switchgear needs to be evaluated.	
10.2.6 MECHANICAL IMPACTDoes not apply, since the entire switchgear needs to be evaluated.	
10.2.7 INSCRIPTIONS Meets the product standard's requirements.	
10.3 DEGREE OFDoes not apply, since the entire switchgear needs to be evaluated.PROTECTION OFentire switchgear needs to be evaluated.	
10.4 CLEARANCES ANDMeets the productCREEPAGE DISTANCESstandard's requirements.	
10.5 PROTECTIONDoes not apply, since the entire switchgear needs to be evaluated.AGAINST ELECTRICbe evaluated.	
10.6 INCORPORATION OF SWITCHING DEVICES ANDDoes not apply, since the entire switchgear needs to be evaluated.COMPONENTSbe evaluated.	
10.7 INTERNALIs the panel builder'sELECTRICAL CIRCUITSresponsibility.	
10.8 CONNECTIONS FORIs the panel builder'sEXTERNAL CONDUCTORSresponsibility.	
10.9.2 POWER- FREQUENCY ELECTRIC STRENGTHIs the panel builder's responsibility.	
10.9.3 IMPULSE Is the panel builder's	
WITHSTAND VOLTAGE responsibility.	

Resources

APPLICATION NOTES

BROCHURES

eaton-rapid-link-5configuration-rockwell-plcap040195-en-us.pdf

eaton-rapid-link-5-rasp5profinet-communicationap040215-en-us.pdf

eaton-rapid-linkgeneration-change-ramo4to-ramo5-ap040198-enus.pdf

<u>Electromagnetic</u> <u>compatibility (EMC)</u>

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eaton-powerxl-variablefrequency-drives-materialhandling-brochurebr040017en-en-us.pdf

INSULATING MATERIAL			eaton-rapid-link-5-
10.10 TEMPERATURE RISE	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.		brochure-br040014en-en- us.pdf
		CATALOGUES	Product Range Catalog Drives Engineering
10.11 SHORT-CIRCUIT	Is the panel builder's responsibility. The		<u>eaton-rapid-link-5-drive-</u> <u>system-catalog-</u> <u>ca040002en-en-us</u>
RATING	specifications for the switchgear must be observed.	DECLARATIONS OF	DA-DC-00004523.pdf DA-DC-00003964.pdf
10.12 ELECTROMAGNETIC COMPATIBILITY	Is the panel builder's responsibility. The specifications for the switchgear must be observed.	CONFORMITY	DA-DC-00004184.pdf DA-DC-00004525.pdf
			<u>eaton-bus-adapter-</u> <u>rapidlink-reversing-starter-</u>
10.13 MECHANICAL FUNCTION	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.	DRAWINGS	dimensions-002.eps
			<u>eaton-bus-adapter-</u> <u>rapidlink-reversing-starter-</u> <u>dimensions.eps</u>
		ECAD MODEL	<u>ETN.RAMO5-W201A32-</u> <u>5120S1.edz</u>

INSTALLATION

INSTRUCTIONS

MCAD MODEL

INSTALLATION VIDEOS

SOFTWARE, FIRMWARE,

AND APPLICATIONS

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



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