## Eaton 199115

Eaton Moeller® series Rapid Link - Reversing starter, 6.6 A, Sensor input 2, Actuator output 1, 230/277 V AC, AS-Interface®, S-7.A.E. for 62 modules, HAN Q4/2, with manual override switch

PRODUCT NAME	Eaton Rapid Link Reversing starter
CATALOG NUMBER	199115
PRODUCT LENGTH/DEPTH	120 mm
PRODUCT HEIGHT	270 mm
PRODUCT WIDTH	220 mm
PRODUCT WEIGHT	1.81 kg
CERTIFICATIONS	RoHS IEC/EN 60947-4-2 CCC UL approval CE 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



TYPEReversing starterParameterization: drivesConnect mobile (App) Parameterization: drivesConnect Diagnostics and reset on device and via AS-Interface10.10 TEMPERATURE RISEThe panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.10.11 SHORT-CIRCUIT RATINGIs the panel builder's responsibility. The specifications for the switchgear must be observed.10.12 ELECTROMAGNETIC COMPATIBILITYIs the panel builder's responsibility. The specifications for the switchgear must be observed.10.13 MECHANICAL FUNCTIONThe device meets the requirements, provided the information in the instruction leaflet (IL) is observed.10.2.2 CORROSION RESISTANCEMeets the product standard's requirements.10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURESMeets the product standard's requirements.10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTSMeets the product standard's requirements.10.2.3.3 RESIST. OF INSUL MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTSMeets the product standard's requirements.10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATIONMeets the product standard's requirements.10.2.5 LIFTINGDoes not apply, since the		
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<b>10.2.5 LIFTING</b> Does not apply, since the	ULTRA-VIOLET (UV)	-
	10.2.5 LIFTING	Does not apply, since the

DECLARATIONS OF CONFORMITY	eaton-reversing-starter- declaration-of-conformity- uk251063en.pdf
ECAD MODEL	ETN.RAMO5-W212A32- 412RS1.edz
MCAD MODEL	ramo5_v12.dwg
MCAD MODEL	ramo5_v12.stp
	<u>IL034084ZU</u>
	eaton-rapid-link-5- brochure-br040014en-en- us.pdf
	eaton-bus-adapter- rapidlink-reversing-starter- dimensions-002.eps
	eaton-bus-adapter- rapidlink-reversing-starter- dimensions-003.eps

	entire switchgear needs to
	be evaluated.  Does not apply, since the
10.2.6 MECHANICAL IMPACT	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	Is 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.
FITTED WITH:	Key switch position HAND Manual override switch 1 Actuator output Key switch position AUTO Thermo-click Electronic motor protection Key switch position OFF/RESET Thermistor monitoring PTC Two sensor inputs through M12 sockets (max. 150 mA) for quick stop and interlocked manual operation Short-circuit release
CLASS	CLASS 10 A
LIFESPAN, ELECTRICAL	10,000,000 Operations (at AC-3)

CLIMATIC PROOFING	< 95 %, no condensation In accordance with IEC/EN 50178
RATED IMPULSE WITHSTAND VOLTAGE (UIMP)	4000 V
MODEL	Reversing starter
ALTITUDE	Max. 2000 m Max. 1000 m Above 1000 m with 1 % performance reduction per 100 m
LIFESPAN, MECHANICAL	10,000,000 Operations (at AC-3)
MAINS SWITCH-ON FREQUENCY	Maximum of one time every 60 seconds
ELECTRICAL CONNECTION TYPE OF MAIN CIRCUIT	Plug-in connection
MAINS VOLTAGE TOLERANCE	380 - 480 V (-15 %/+10 %, at 50/60 Hz)
VOLTAGE TYPE	DC
MOUNTING POSITION	Vertical
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	10 kA
OVERVOLTAGE CATEGORY	III
CONNECTION	Connections pluggable in power section
OFF-DELAY	20 - 35 ms
FUNCTIONS	For actuation of motors with mechanical brake External reset possible Temperature compensated overload protection
ON-DELAY	20 - 35 ms
SYSTEM CONFIGURATION TYPE	Center-point earthed star network (TN-S network) AC voltage Phase-earthed AC supply systems are not permitted.
BRAKING CURRENT	≤ 0.6 A (max. 6 A for 120 ms), Actuator for external motor brake
ELECTROMAGNETIC COMPATIBILITY	Class A

CURRENT LIMITATION	Adjustable, motor, main circuit 0.3 - 6.6 A, motor, main circuit
OUTPUT FREQUENCY	50/60 Hz
BRAKING VOLTAGE	230/277 V AC -15 % / +10 %, Actuator for external motor brake
OVERLOAD CYCLE	AC-53a
OVERLOAD RELEASE CURRENT SETTING - MIN	0.3 A
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 230 V	0 A
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ), TYPE 2, 380 V, 400 V, 415 V	0 A
RATED CONDITIONAL SHORT-CIRCUIT CURRENT, TYPE 1, 480 Y/277 V	10000 A
RATED CONDITIONAL SHORT-CIRCUIT CURRENT, TYPE 1, 600 Y/347 V	0 A
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - MIN	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 60 HZ - MIN	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MAX	0 V
RATED CONTROL SUPPLY VOLTAGE (US) AT DC - MIN	0 V
RATED FREQUENCY - MAX	63 Hz
RATED FREQUENCY - MIN	47 Hz
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
SHOCK RESISTANCE	15 g, Mechanical, According to IEC/EN 60068-2-27, 11 ms, Half- sinusoidal shock 11 ms, 1000 shocks per shaft
INTERFACES	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®)
PROTOCOL	AS-Interface profile cable: S-7.4 for 62 modules ASI
RATED CONTROL VOLTAGE (UC)	230/277 V AC (external brake 50/60 Hz) 24 V DC (-15 %/+20 %, external via AS-Interface® plug)
SUPPLY FREQUENCY	50/60 Hz, fLN, Main circuit
RATED OPERATIONAL CURRENT (IE)	6.6 A
RATED OPERATIONAL POWER AT 380/400 V, 50 HZ - MAX	3 kW
RATED OPERATIONAL POWER AT 380/400 V, 50 HZ - MIN	0.09 kW
RATED OPERATIONAL VOLTAGE	480 V AC, 3-phase 400 V AC, 3-phase
SHORT-CIRCUIT PROTECTION (EXTERNAL OUTPUT CIRCUITS)	Type 1 coordination via the power bus' feeder unit, Main circuit
VIBRATION	Resistance: 10 - 150 Hz, Oscillation frequency Resistance: 57 Hz, Amplitude transition frequency on acceleration Resistance: According to IEC/EN 60068-2-6 Resistance: 6 Hz, Amplitude 0.15 mm
AMBIENT OPERATING TEMPERATURE - MAX	55 °C
AMBIENT OPERATING	-10 °C

TEMPERATURE - MIN	
AMBIENT STORAGE TEMPERATURE - MAX	70 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	3 HP
NUMBER OF AUXILIARY CONTACTS (NORMALLY CLOSED CONTACTS)	0
NUMBER OF AUXILIARY CONTACTS (NORMALLY OPEN CONTACTS)	1
NUMBER OF COMMAND POSITIONS	2
NUMBER OF PILOT LIGHTS	0
OVERLOAD RELEASE CURRENT SETTING - MAX	6.6 A
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 POWER AT 460 V, 60 HZ, 3-PHASE	2.238 kW
RATED POWER AT 575 V, 60 HZ, 3-PHASE	0 kW
PRODUCT CATEGORY	Motor starter
CABLE LENGTH	10 m, Radio interference level, maximum motor cable length
COORDINATION CLASS (IEC 60947-4-3)	Class 1
DEGREE OF PROTECTION	IP65 NEMA 12
ELECTRICAL CONNECTION TYPE FOR AUXILIARY- AND CONTROL-CURRENT CIRCUIT	Plug-in connection
INPUT CURRENT	6.6 A (at 150 % Overload)
POWER CONSUMPTION	8 W

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
:	



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