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Eaton 199087

Eaton Moeller® series Rapid Link - Reversing starter, 6.6 A, Sensor input 2, Actuator output 1, 400/480 V AC, AS-Interface®, S-7.4 for 31 modules, HAN Q4/2

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PRODUCT NAME	Eaton Rapid Link Reversing starter
CATALOG NUMBER	199087
PRODUCT LENGTH/DEPTH	120 mm
PRODUCT HEIGHT	270 mm
PRODUCT WIDTH	220 mm
PRODUCT WEIGHT	1.64 kg
CERTIFICATIONS	RoHS CCC IEC/EN 60947-4-2 CE UL approval 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

TYPE	Reversing starter
FEATURES	Parameterization: drivesConnect mobile (App) Diagnostics and reset on device and via AS-Interface Parameterization: Fieldbus Parameterization: drivesConnect Parameterization: Keypad
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.
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.

DECLARATIONS OF CONFORMITY	eaton-reversing-starter-declaration-of-conformity-uk251063en.pdf
ECAD MODEL	ETN.RAMO5-W214A31-4120S1.edz
MCAD MODEL	ramo5_v9.stp ramo5_v9.dwg
□□□□□	IL034084ZU
□□□□	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.eps

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 INSULATING MATERIAL	Is the panel builder's responsibility.
FITTED WITH:	Key switch position HAND Two sensor inputs through M12 sockets (max. 150 mA) for quick stop and interlocked manual operation Thermistor monitoring PTC 1 Actuator output Thermo-click Key switch position OFF/RESET Electronic motor protection Key switch position AUTO 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. 1000 m Above 1000 m with 1 % performance reduction per 100 m Max. 2000 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) Phase-earthed AC supply systems are not permitted. AC voltage
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	400/480 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, TYPE 1, 480 Y/277 V	65000 A
RATED CONTROL SUPPLY VOLTAGE (US) AT AC, 50 HZ - 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	Number of slave addresses: 31 (AS- Interface®) Specification: S-7.4 (AS- Interface®) Max. total power consumption from AS- Interface® power supply unit (30 V): 190 mA
PROTOCOL	AS-Interface profile cable: S-7.4 for 31 modules ASI
RATED CONTROL VOLTAGE (UC)	24 V DC (-15 %/+20 %, external via AS-Interface® plug) 400/480 V AC (external brake 50/60 Hz)
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	400 V AC, 3-phase 480 V AC, 3-phase
SHORT-CIRCUIT	Type 1 coordination via

PROTECTION (EXTERNAL OUTPUT CIRCUITS)	the power bus' feeder unit, Main circuit
VIBRATION	Resistance: 57 Hz, Amplitude transition frequency on acceleration Resistance: 6 Hz, Amplitude 0.15 mm Resistance: According to IEC/EN 60068-2-6 Resistance: 10 - 150 Hz, Oscillation frequency
AMBIENT OPERATING TEMPERATURE - MAX	55 °C
AMBIENT OPERATING TEMPERATURE - MIN	-10 °C
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, 380/400 V, 50 HZ	3 kW
RATED POWER AT 460 V, 60 HZ, 3-PHASE	2.238 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
