

Eaton 198852

Eaton Moeller® series Rapid Link - Speed controllers, 8.5 A, 4 kW, Sensor input 4, AS-Interface®, S-7.4 for 31 modules, HAN Q4/2, with manual override switch, with fan

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PRODUCT NAME	Eaton Rapid Link Speed controller
CATALOG NUMBER	198852
PRODUCT LENGTH/DEPTH	195 mm
PRODUCT HEIGHT	270 mm
PRODUCT WIDTH	220 mm
PRODUCT WEIGHT	3.77 kg
CERTIFICATIONS	CE IEC/EN 61800-5-1 UL 61800-5-1 UL approval RoHS
CATALOG NOTES	 3 fixed speeds and 1 potentiometer speed can be switched over from U/f to (vector) speed control Connection of supply voltage via adapter cable on round or flexible busbar junction Diagnostics and reset on device and via AS-Interface integrated PTC thermistor monitoring and Thermoclick with safe isolation optional: 4 sensor inputs with M12-Y adapter for switchover to creep speed optional: Faster



- stop if external 24 V fails
- Two sensor inputs through M12 sockets (max. 150 mA) for quick stop and interlocked manual operation
- with AUTO -OFF/RESET - HAND key switches
- with selector switch REV - OFF - FWD

	Diagnostics and reset on device and via AS-Interface
FEATURES	Parameterization: drivesConnect mobile (App) Parameterization: drivesConnect Parameterization: Fieldbus
	Parameterization: Keypad Internal and on heat sink, temperature-controlled Fan
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

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DECLARATIONS OF CONFORMITY	eaton-speed-controller- declaration-of-conformity- uk251107en.pdf
ECAD MODEL	ETN.RASP5-8400A31- 412R001S1.edz
MCAD MODEL	ramo5 v29.dwg
00000	eaton-powerxl-speed- control-unit-as-interface- rasp5-il034085zu.pdf
0000	eaton-rapid-link-5- brochure-br040014en-en- us.pdf
0000	eaton-rapid-link-5- mn034004en-us.pdf
00	eaton-bus-adapter- rapidlink-speed-controller- dimensions-003.eps
	eaton-bus-adapter- rapidlink-speed-controller- dimensions-004.eps
	eaton-bus-adapter- rapidlink-speed-controller- dimensions-005.eps
	eaton-bus-adapter- rapidlink-speed-controller- dimensions-002.eps

10.2.6 MECHANICAL IMPACT 10.2.7 INSCRIPTIONS 10.3 DEGREE OF PROTECTION OF ASSEMBLIES 10.4 CLEARANCES AND CREEPAGE DISTANCES 10.5 PROTECTION AGAINST ELECTRIC SHOCK 10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS 10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS 10.8 CONNECTIONS 10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH 10.9.3 IMPULSE WITHSTAND VOLTAGE 10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL FITTED WITH: FITTED WITH: 10.9.1 MECHANICAL CIRCUITS AND COMPONENTS 10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH 10.9.3 IMPULSE SWITHSTAND VOLTAGE FINSULATING MATERIAL Control unit Internal DC link PC connection Key switch position AUTO Thermo-click with safe isolation Manual override switch Selector switch (Positions: REV - OFF - FWD) Key switch position AUTO Thermo-click with safe isolation PTC thermistor monitoring Fan Key switch position HAND IGBT inverter 10.1 INTERNAL CONDICTORS 10.9 The panel builder's responsibility.		be evaluated.
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	CLIMATIC PROOFING	In accordance with IEC/EN

OPERATING MODE	Sensorless vector control (SLV) Synchronous reluctance motors U/f control
	BLDC motors PM and LSPM motors
RATED IMPULSE	
WITHSTAND VOLTAGE (UIMP)	2000 V
	Above 1000 m with 1 %
ALTITUDE	performance reduction per 100 m
	Max. 2000 m
APPLICATION IN	
DOMESTIC AND	Yes
COMMERCIAL AREA PERMITTED	
MAINS SWITCH-ON	Maximum of one time
FREQUENCY	every 60 seconds
AMBIENT OPERATING TEMPERATURE - MAX	40 °C
AMBIENT OPERATING TEMPERATURE - MIN	-10 °C
MAINS VOLTAGE - MAX	480 V
OUTPUT VOLTAGE - MAX	500 V
RELATIVE SYMMETRIC NET FREQUENCY TOLERANCE	10 %
RELATIVE SYMMETRIC NET VOLTAGE TOLERANCE	10 %
AMBIENT STORAGE TEMPERATURE - MAX	70 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
APPLICATION IN INDUSTRIAL AREA PERMITTED	Yes
MAINS VOLTAGE TOLERANCE	380 - 480 V (-10 %/+10 %, at 50/60 Hz)
PRODUCT CATEGORY	Speed controller
	Finger and back-of-hand
PROTECTION	proof, Protection against direct contact (BGV A3, VBG4)
RESOLUTION	0.1 Hz (Frequency resolution, setpoint value)
MOUNTING POSITION	Vertical
RATED CONDITIONAL SHORT-CIRCUIT CURRENT (IQ)	10 kA

OVERVOLTAGE CATEGORY	Ш
COMMUNICATION INTERFACE	AS-Interface
CONNECTION	Plug type: HAN Q4/2
CONVERTER TYPE	U converter
DEGREE OF PROTECTION	NEMA 12 IP65
ASSIGNED MOTOR POWER AT 460/480 V, 60 HZ, 3-PHASE	5 HP
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT- DEPENDENT PVID	0 W
INPUT CURRENT ILN AT 150% OVERLOAD	7.8 A
MAINS CURRENT DISTORTION	120 %
PROTOCOL	AS-Interface profile cable: S-7.4 for 31 modules ASI
OVERLOAD CURRENT	For 60 s every 600 s At 40 °C
OVERLOAD CURRENT IL AT 150% OVERLOAD	12.7 A
RATED FREQUENCY - MAX	66 Hz
RATED FREQUENCY - MIN	45 Hz
RATED OPERATIONAL POWER AT 380/400 V, 50 HZ, 3-PHASE	4 kW
ASSIGNED MOTOR CURRENT IM AT 400 V, 50 HZ, 150% OVERLOAD	8.5 A
ASSIGNED MOTOR CURRENT IM AT 440 - 480 V, 60 HZ, 150% OVERLOAD	8.5 A
SYSTEM CONFIGURATION TYPE	Phase-earthed AC supply systems are not permitted. Center-point earthed star network (TN-S network) AC voltage
BRAKING CURRENT	≤ 0.6 A (max. 6 A for 120 ms), Actuator for external motor brake
ELECTROMAGNETIC COMPATIBILITY	1st and 2nd environments (according to EN 61800-3)

CURRENT LIMITATION Adjustable, motor, main circuit 0.8 - 8.5 A, motor, main circuit BRAKING TORQUE Adjustable to 100 % (I/Ie), DC - Main circuit CABLE LENGTH C3 ≤ 25 m, maximum motor cable length C1 ≤ 1 m, maximum motor cable length C2 ≤ 5 m, maximum motor cable length FUNCTIONS 1 potentiometer speed 3 fixed speeds DELAY TIME < 10 ms, On-delay < 10 ms, Off-delay		
CABLE LENGTH CABLE LENGTH CABLE LENGTH C3 ≤ 25 m, maximum motor cable length C1 ≤ 1 m, maximum motor cable length C2 ≤ 5 m, maximum motor cable length C1 ≤ 1 m, maximum motor cable length C2 ≤ 5 m, maximum motor cable length C1 ≤ 1 m, maximum motor cable length C2 ≤ 5 m, maximum motor cable length C2 ≤ 7 m, maximum motor cable length C2 ≤ 5 m, maximum motor cable length C2 ≤ 7 m, maximum motor cable length C1 ≤ 10 m, Off-delay C2, C3 depending on the motor cable length C2 ≤ 7 m, maximum motor cable length C2 ≤ 7 m, maxi	CURRENT LIMITATION	circuit 0.8 - 8.5 A, motor, main
Table Length CABLE LENGTH C1 ≤ 1 m, maximum motor cable length C2 ≤ 5 m, maximum motor cable length FUNCTIONS 1 potentiometer speed 3 fixed speeds DELAY TIME < 10 ms, On-delay < 10 ms, Off-delay NUMBER OF INPUTS (ANALOG) NUMBER OF INPUTS (DIGITAL) C2, C3: depending on the motor cable length, the connected load, and ambient conditions. External radio interference suppression filters (optional) may be necessary. C1: for conducted emissions only NUMBER OF OUTPUTS (DIGITAL) STARTING CURRENT - MAX C200 %, IH, max. starting current (High Overload), For 2 seconds every 20 seconds, Power section NUMBER OF PHASES (INPUT) NUMBER OF PHASES (OUTPUT) POWER CONSUMPTION 95 W Number of slave addresses: 31 (AS-Interface®) Specification: S-7.4 (AS-Interface®)	BRAKING TORQUE	-
DELAY TIME	CABLE LENGTH	motor cable length C1 ≤ 1 m, maximum motor cable length C2 ≤ 5 m, maximum motor
NUMBER OF INPUTS (ANALOG) NUMBER OF INPUTS (DIGITAL) C2, C3: depending on the motor cable length, the connected load, and ambient conditions. External radio interference suppression filters (optional) may be necessary. C1: for conducted emissions only NUMBER OF OUTPUTS (DIGITAL) O STARTING CURRENT - C1: for 2 seconds every 20 seconds, Power section NUMBER OF PHASES (INPUT) NUMBER OF PHASES (OUTPUT) POWER CONSUMPTION POWER CONSUMPTION Specification: S-7.4 (AS-Interface®) Specification: S-7.4 (AS-Interface®) Max. total power consumption from AS-Interface® power supply unit (30 V): 190 mA EFFICIENCY RATED CONTROL VOLTAGE (LIC) POWER CONSUMCONTROL VOLTAGE (LIC) RATED CONTROL VOLTAGE (LIC) POWER CONSUMCONTROL VOLTAGE (LIC) REFICIENCY RATED CONTROL VOLTAGE (LIC) A V D C (-15 %/+20 %, external via AS-Interface®)	FUNCTIONS	·
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STARTING CURRENT - Current (High Overload), For 2 seconds every 20 seconds, Power section NUMBER OF PHASES (INPUT) 3 NUMBER OF PHASES (OUTPUT) 3 POWER CONSUMPTION 95 W Number of slave addresses: 31 (AS-Interface®) Specification: S-7.4 (AS-Interface®) INTERFACES Interface®) Max. total power consumption from AS-Interface® power supply unit (30 V): 190 mA EFFICIENCY 98 % (η) RATED CONTROL VOLTAGE (IIC) 24 V DC (-15 %/+20 %, external via AS-Interface®		0
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RATED CONTROL VOLTAGE (UC) 24 V DC (-15 %/+20 %, external via AS-Interface®	INTERFACES	addresses: 31 (AS- Interface®) Specification: S-7.4 (AS- Interface®) Max. total power consumption from AS- Interface® power supply
VOLTAGE (UC) external via AS-Interface®	EFFICIENCY	98 % (η)
		external via AS-Interface®

SUPPLY FREQUENCY	50/60 Hz
LEAKAGE CURRENT AT GROUND IPE - MAX	3.5 mA
MAINS VOLTAGE - MIN	380 V
NOMINAL OUTPUT CURRENT I2N	8.5 A
NUMBER OF HW- INTERFACES (INDUSTRIAL ETHERNET)	0
NUMBER OF HW- INTERFACES (OTHER)	1
NUMBER OF HW- INTERFACES (PARALLEL)	0
NUMBER OF HW- INTERFACES (RS-232)	0
NUMBER OF HW- INTERFACES (RS-422)	0
NUMBER OF HW- INTERFACES (RS-485)	1
NUMBER OF HW- INTERFACES (SERIAL TTY)	0
NUMBER OF HW- INTERFACES (USB)	0
NUMBER OF INTERFACES (PROFINET)	0
NUMBER OF OUTPUTS (ANALOG)	0
OUTPUT AT LINEAR LOAD AT RATED OUTPUT VOLTAGE - MAX	4 kW
OUTPUT AT QUADRATIC LOAD AT RATED OUTPUT VOLTAGE - MAX	4 kW
OUTPUT FREQUENCY - MAX	500 Hz
OUTPUT FREQUENCY - MIN	0 Hz
SHORT-CIRCUIT PROTECTION (EXTERNAL OUTPUT CIRCUITS)	Type 1 coordination via the power bus' feeder unit, Main circuit
SHOCK RESISTANCE	15 g, Mechanical, According to IEC/EN 60068-2-27, 11 ms, Half- sinusoidal shock 11 ms, 1000 shocks per shaft
SWITCHING FREQUENCY	8 kHz, 4 - 32 kHz adjustable, fPWM, Power section, Main circuit
RATED OPERATIONAL CURRENT (IE)	8.5 A at 150% overload (at an operating frequency of 8 kHz and an ambient air

	temperature of +40 °C)
RATED OPERATIONAL VOLTAGE	480 V AC, 3-phase 400 V AC, 3-phase
VIBRATION	Resistance: 6 Hz, Amplitude 0.15 mm Resistance: According to IEC/EN 60068-2-6 Resistance: 10 - 150 Hz, Oscillation frequency Resistance: 57 Hz, Amplitude transition frequency on acceleration
HEAT DISSIPATION AT CURRENT/SPEED	51.6 W at 25% current and 0% speed 53.8 W at 25% current and 50% speed 60.9 W at 50% current and 0% speed 64 W at 50% current and 90% speed 65.4 W at 50% current and 50% speed 85.1 W at 100% current and 0% speed 94 W at 100% current and 50% speed 95.3 W at 100% current and 50% speed

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