Speed controllers, 8.5 A, 4 kW, Sensor input 4, 230/277 V AC, AS-Interface®, S-7.4 for 31 modules, HAN Q4/2, with braking resistance, STO (Safe Torque Off), with fan



Part no. RASP5-8402A31-4120111S1 198850

Product name	Eaton Moeller® series Rapid Link Speed controller
Part no.	RASP5-8402A31-4120111S1
EAN	4015081969081
Product Length/Depth	195 millimetre
Product height	270 millimetre
Product width	220 millimetre
Product weight	3.62 kilogram
Certifications	UL approval RoHS IEC/EN 61800-5-1 CE UL 61800-5-1
Product Tradename	Rapid Link
Product Type	Speed controller
Product Sub Type	None
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 junctio 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
Features	Parameterization: drivesConnect Internal and on heat sink, temperature-controlled Fan Parameterization: drivesConnect mobile (App) Diagnostics and reset on device and via AS-Interface Parameterization: Fieldbus Parameterization: Keypad
Fitted with:	Control unit PC connection Key switch position AUTO Key switch position HAND Two sensor inputs through M12 sockets (max. 150 mA) for quick stop and interlocked manual operation Braking resistance Breaking resistance IGBT inverter Selector switch (Positions: REV - OFF - FWD) Internal DC link Key switch position OFF/RESET PTC thermistor monitoring Thermo-click with safe isolation Fan
Functions	For actuation of motors with mechanical brake 3 fixed speeds 1 potentiometer speed STO (Safe Torque Off) Brake chopper with braking resistance for dynamic braking 4-quadrant operation possible
Degree of protection	IP65 NEMA 12
Electromagnetic compatibility	1st and 2nd environments (according to EN 61800-3)
Overvoltage category	III
Product category	Speed controller
Protocol	ASI
TOLOCOL	ASI-Interface profile cable: S-7.4 for 31 modules
Radio interference class	C1: for conducted emissions only

	conditions. External radio interference suppression filters (optional) may be necessary.
Rated impulse withstand voltage (Uimp)	2000 V
System configuration type	AC voltage Phase-earthed AC supply systems are not permitted. Center-point earthed star network (TN-S network)
Mounting position	Vertical
Shock resistance	15 g, Mechanical, According to IEC/EN 60068-2-27, 11 ms, Half-sinusoidal shock ms, 1000 shocks per shaft
Vibration	Resistance: According to IEC/EN 60068-2-6 Resistance: 6 Hz, Amplitude 0.15 mm Resistance: 10 - 150 Hz, Oscillation frequency Resistance: 57 Hz, Amplitude transition frequency on acceleration
Altitude	Max. 2000 m Above 1000 m with 1 % performance reduction per 100 m
Ambient operating temperature - min	-10 °C
Ambient operating temperature - max	40 °C
Ambient storage temperature - min	-40 °C
Ambient storage temperature - max	70°C
Climatic proofing	In accordance with IEC/EN 50178 < 95 %, no condensation
Current limitation	0.8 - 8.5 A, motor, main circuit Adjustable, motor, main circuit
Delay time	< 10 ms, On-delay < 10 ms, Off-delay
Efficiency	98 % (η)
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 90% speed
Input current ILN at 150% overload	7.8 A
Leakage current at ground IPE - max	3.5 mA
Mains current distortion	120 %
Mains switch-on frequency	Maximum of one time every 60 seconds
Mains voltage - max	480 V
Mains voltage - min	380 V
Mains voltage tolerance Operating mode	380 - 480 V (-10 %/+10 %, at 50/60 Hz) BLDC motors PM and LSPM motors Synchronous reluctance motors U/f control Sensorless vector control (SLV)
Output frequency - max	500 Hz
Output frequency - min	0 Hz
Overload current	At 40 °C For 60 s every 600 s
Overload current IL at 150% overload	12.7 A
Rated frequency - max	66 Hz
Rated frequency - min	45 Hz
Rated operational current (le)	8.5 A at 150% overload (at an operating frequency of 8 kHz and an ambient air temperature of +40 $^{\circ}\text{C})$
Rated operational power at 380/400 V, 50 Hz, 3-phase	4 kW
Rated operational voltage	400 V AC, 3-phase 480 V AC, 3-phase
Resolution	0.1 Hz (Frequency resolution, setpoint value)
Starting current - max	200 %, IH, max. starting current (High Overload), For 2 seconds every 20 second Power section
Supply frequency	50/60 Hz
Switching frequency	8 kHz, 4 - 32 kHz adjustable, fPWM, Power section, Main circuit

Serving current CREAD (max. S. A. for 120 ms), Actastor for external mater brake Serving torque Solidant products Serving vallage Solidant products Solidant control vallage (Uc) Solidant co		
Serving torque \$ 15 % (11c) Adjustant for 100 % (14c), D.C Main circuit \$ 200,277 V AC - 15 % / + 10 %, Actuator for external motor braka \$ 200,277 V AC - 15 % / + 10 %, Actuator for external motor braka \$ 200,277 V AC - 15 % / + 10 %, Actuator for external motor braka \$ 200,277 V AC - 15 % / + 10 %, Actuator for external motor braka \$ 200,277 V AC - 15 % / + 20 %, external via AS - Interface © plugl \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz	Assigned motor power at 460/480 V, 60 Hz, 3-phase	5 HP
Serving torque \$ 15 % (11c) Adjustant for 100 % (14c), D.C Main circuit \$ 200,277 V AC - 15 % / + 10 %, Actuator for external motor braka \$ 200,277 V AC - 15 % / + 10 %, Actuator for external motor braka \$ 200,277 V AC - 15 % / + 10 %, Actuator for external motor braka \$ 200,277 V AC - 15 % / + 10 %, Actuator for external motor braka \$ 200,277 V AC - 15 % / + 20 %, external via AS - Interface © plugl \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz \$ 200,277 V AC Intermed brake \$ 800 Hz		
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Switch on threshold for the braking manister **Rated conditional short-circuit current ((i))** **Rated control voltage (Uc)** **Rated control voltage (Uc)** **Stated control voltage (Uc)** **St	Braking torque	· · ·
Short-circuit protestion (external output circuits) Type 1 coordination via the power bus' feeder unit, Main circuit Type 1 coordination via the power bus' feeder unit, Main circuit As-interface Communication interface As-interface Communication interface As-interface Communication interface As-interface Communication interface As-interface Plug type HAN 04/2 Number of alave addresses: 31 (AS-interface®) Specification 57 (AS-inter	Braking voltage	230/277 V AC -15 $\%$ / +10 $\%$, Actuator for external motor brake
Type 1 coordination via the power bus' feeder unit, Main circuit 24 V DC (15 %/-20 %, external via AS-interface® plug) 220/277 AC (setternal livia AS-interface®) Plug type: HAN DA/2 Number of slave addresses: 21 (AS-interface®) Max. total power consumption from AS-interface®) Max. total power consumption from AS-interface®) Max. total power consumption from AS-interface® power supply unit (\$0 V): 19 AS-interface AS-interface Meets the product standard's requirements. Meets th	Switch-on threshold for the braking transistor	765 V DC
Sand control voltage (Uc) 24 V DC (-15 %/-20 %, external via AS-Interface® plug) 292777 V AC (external brake 5000 Hz) Communication interface AS-Interface Plug type: HAN 04/2 Number of slave addresses: 31 (AS-Interface®) Specification S-7.4 (AS-Interface®) Specification of themal stability of enclosures Meets the product standard's requirements. Meets the product stan	Rated conditional short-circuit current (Iq)	10 kA
200277 VAC (external brake 50/60 Hz) Communication interface Commercian AS-Interface Commercian Plug type: HAN 04/2 Number of slave addresses: 31 (AS-Interface®) Specifications 7.4 HaS-Interface®) Max. total power consumption from AS-Interface®) Max. total power consumption from AS-Interface® power supply unit (30 V): 19 max. Cable length C1 1 1 m, maximum motor cable length C2 5 m, maximum motor cable length C3 5 m, maximum	Short-circuit protection (external output circuits)	Type 1 coordination via the power bus' feeder unit, Main circuit
200277 VAC (external brake 50/60 Hz) Communication interface Commercian AS-Interface Commercian Plug type: HAN 04/2 Number of slave addresses: 31 (AS-Interface®) Specifications 7.4 HaS-Interface®) Max. total power consumption from AS-Interface®) Max. total power consumption from AS-Interface® power supply unit (30 V): 19 max. Cable length C1 1 1 m, maximum motor cable length C2 5 m, maximum motor cable length C3 5 m, maximum		
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Specifications: S-7.4 (AS-Interface®) power supply unit (30 V): 19 mAx. total power consumption from AS-Interface® power supply unit (30 V): 19 mAx. total power consumption from AS-Interface® power supply unit (30 V): 19 mAx. total power consumption from AS-Interface® power supply unit (30 V): 19 mAx. total power consumption from AS-Interface® power supply unit (30 V): 19 mAx. total power consumption from AS-Interface® power supply unit (30 V): 19 mAx. total power consumption from AS-Interface® power supply unit (30 V): 19 mAx. total power consumption from AS-Interface® power supply unit (30 V): 19 mAx. total power consumption from AS-Interface® power supply unit (30 V): 19 mAx. total power consumption from AS-Interface® power supply unit (30 V): 19 mAx. total power consumption from AS-Interface® power supply unit (30 V): 19 mAx. total power consumption from AS-Interface® power supply unit (30 V): 19 mAx. total power consumption from AS-Interface® power supply unit (30 V): 19 mAx. total power consumption from AS-Interface® power supply unit (30 V): 19 mAx. total power consumption from AS-Interface® power supply supply to the entry supply supply to the entry supply supply to the entry supply supply sequirements. 10.2.3 Possist of insul. mat. to abnormal heat/fire by internal elect effects 10.2.5 Lifting 10.2.5 Lifting 10.2.5 Mechanical impact 10.2.5 Mechanical impact 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3.0 Boyer of protection of assemblies 10.3.0 Boyer of protection of assemblies 10.3.0 Protection of assemblies 10.3.0 Protection against electric shock 10.3.0 Boyer of protection of assemblies 10.3.1 Explain and consections of switching devices and components 10.3.1 Internal electrical circuits and connections 10.3.2 Explain and conductors 10.3.3 Impulse withstand voltage 10.3.4 Testing of enclosures made of insulating material 10.3.4 Testing of enclosures made of insulating material 10.3.1 Internal electric rating 10.3.2 Mechanical function 10.3.3 Mechanical function 10.3.4 Mecha	Connection	Plug type: HAN Q4/2
C2 ≤ 5 m, maximum motor cable length C3 ≤ 5 m, maximum motor cable length	Interfaces	Specification: S-7.4 (AS-Interface®) Max. total power consumption from AS-Interface® power supply unit (30 V): 190
Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Meets the product standard's requirements. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Meets the product standard's requirements. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. Does not apply, since the entire switchgear needs to be evaluated. In the panel builder's responsibility. Is the panel builder's responsibility. Is the panel builder's responsibility. Is the panel builder's responsibility. It panel builder's responsibility. The panel builder's responsibility. The panel builder's responsibility. It panel builder's responsibility. The specifications for the switchgear must observed. In the panel builder's responsibility. The specifications for the switchgear must observed. In the device meets the requirements, provided the information in the instruction	Cable length	C2 ≤ 5 m, maximum motor cable length
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Does not apply, since the entire switchgear needs to be evaluated. 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 1s the panel builder's responsibility. 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 1s the panel builder's responsibility. 1n.10 Temperature rise The panel builder is responsibility. The panel builder is responsibility. 1s the panel builder's responsibility. Is the panel builder's responsibility. Is the panel builder's responsibility. The specifications for the switchgear must observed. 1s the panel builder's responsibility. The specifications for the switchgear must observed. 1s the panel builder's responsibility. The specifications for the switchgear must observed. 1s the panel builder's responsibility. The specifications for the switchgear must observed. 1s the panel builder's responsibility. The specifications for the switchgear must observed. The device meets the requirements, provided the information in the instruction	10.4 Clearances and creepage distances	
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10.13 Mechanical function The device meets the requirements, provided the information in the instruction	10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be
	10.13 Mechanical function	
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Technical data ETIM 8.0

100mmodi data ETIM 0.0						
Low-voltage industrial components (EG000017) / Frequency converter =< 1 kV (EC001857)						
Electric engineering, automation, process control engineering / Electrical drive / Static frequency converter / Static frequency converter = < 1 kV (ecl@ss10.0.1-27-02-31-01 [AKE177014]						
Mains voltage	V	380 - 480				
Mains frequency		50/60 Hz				
Number of phases input		3				
Number of phases output		3				
Max. output frequency	Hz	500				

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Number of HW-interfaces USB 0	
Number of HW-interfaces parallel	
Number of HW-interfaces other 1	
With optical interface No	
With PC connection Yes	
Integrated breaking resistance Yes	
4-quadrant operation possible Yes	
Type of converter U converter	
Degree of protection (IP)	
Degree of protection (NEMA) 12	
Height mm 270	
Width mm 220	
Depth mm 195	