Speed controller, 2.4 A, 0.75 kW, Sensor input 4, 230/277 V AC, AS-Interface®, S-7.4 for 31 modules, HAN Q5, with braking resistance



Part no. RASP5-2402A31-5120100S1 198546

Product name	Eaton Moeller® series Rapid Link Speed controller
Part no.	RASP5-2402A31-5120100S1
EAN	4015081964215
Product Length/Depth	157 millimetre
Product height	270 millimetre
Product width	220 millimetre
Product weight	3.42 kilogram
Certifications	IEC/EN 61800-5-1 CE UL 61800-5-1 ROHS UL approval
Product Tradename	Rapid Link
Product Type	Speed controller
Product Sub Type	None
Catalog Notes	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 Four fixed speeds 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 Parameterization: Fieldbus Parameterization: drivesConnect mobile (App) Diagnostics and reset on device and via AS-Interface Parameterization: Keypad
Fitted with:	Key switch position OFF/RESET Two sensor inputs through M12 sockets (max. 150 mA) for quick stop and interlocked manual operation PTC thermistor monitoring Internal DC link Key switch position AUTO Key switch position HAND Thermo-click with safe isolation Control unit PC connection Four fixed speeds Selector switch (Positions: REV - OFF - FWD) Braking resistance IGBT inverter Breaking resistance
Functions	For actuation of motors with mechanical brake 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	AS-Interface profile cable: S-7.4 for 31 modules ASI
Radio interference class	C1: for conducted emissions only C2, C3: depending on the motor cable length, the connected load, and ambient conditions. External radio interference suppression filters (optional) may be

System configuration type	Phase-earthed AC supply systems are not permitted. Center-point earthed star network (TN-S network) AC voltage
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: 10 - 150 Hz, Oscillation frequency Resistance: According to IEC/EN 60068-2-6 Resistance: 57 Hz, Amplitude transition frequency on acceleration Resistance: 6 Hz, Amplitude 0.15 mm
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	< 95 %, no condensation In accordance with IEC/EN 50178
Current limitation	Adjustable, motor, main circuit 0.2 - 2.4 A, motor, main circuit
Delay time	< 10 ms, Off-delay < 10 ms, On-delay
Efficiency	97 % (η)
Heat dissipation at current/speed	27.5 W at 50% current and 90% speed 31.8 W at 100% current and 90% speed 33.5 W at 25% current and 50% speed 34.6 W at 50% current and 50% speed 35.1 W at 25% current and 0% speed 36.6 W at 100% current and 50% speed 36.8 W at 50% current and 50% speed 40.7 W at 100% current and 0% speed
Input current ILN at 150% overload	2.5 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) Sensorless vector control (SLV) U/f control Synchronous reluctance motors PM and LSPM motors BLDC motors
Output frequency - max	500 Hz
Output frequency - min	0 Hz
Overload current	For 60 s every 600 s At 40 °C
Overload current IL at 150% overload	3.6 A
Rated frequency - max	66 Hz
Rated frequency - min	45 Hz
Rated operational current (Ie)	2.4 A at 150% overload (at an operating frequency of 8 kHz and an ambient air temperature of +40 °C)
Rated operational power at 380/400 V, 50 Hz, 3-phase	0.75 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 seconds Power section
Supply frequency	50/60 Hz
Switching frequency	8 kHz, 4 - 32 kHz adjustable, fPWM, Power section, Main circuit
Assigned motor power at 460/480 V, 60 Hz, 3-phase	1 HP

Braking torque Syltch on threshold for the braking transistor Syltch on threshold for the braking transistor Rated conditional sher-circuit current Itol Rated conditional sher-circuit protection (external output circuits) Rated conditional sher-circuit protection (external output circuits) Rated conditional sher-circuit current Itol Rated conditional sher-circuit protection (external output circuits) Rated conditional sher-circuit current Itol		
Adjustable to 100 % (Ve), 10 - Main circuit Switch-on threshold for the braking transistor Rated contitional short-circuit current (lq) Rated control voltage (Uc) Z20277 VAC (external brakes 5000 Hz) 24 VDC (-5 %-A2 %, external via AS-interface® plug) 220277 VAC (external brakes 5000 Hz) 24 VDC (-5 %-A2 %, external via AS-interface® plug) Linterfaces AS-interface Commettion Interfaces AS-interface Plug type: HAN 05 Number of share addiesses: 31 IAS-interface®) Sentimotors - 37 A(AS-interface®) Sen	Braking current	≤ 0.6 A (max. 6 A for 120 ms), Actuator for external motor brake
Switch-on threshold for the braking transistor Rared control voltage (Uc) Rared control voltage (Uc) Rared control voltage (Uc) Communication interface Connection Interfaces Connection Control or resistance Meets the product standard's requirements. Interfaces	Braking torque	,
Rated conditional short-circuit current (lq) Short-circuit protection (external output circuits) Fasted control valtage (Uc) 200277 V.A.C. (external brake 50,800 Hz) 24 V.D.C. (-15 N ₁ -20 N ₆ , external via AS-Interface® plug) Communication interface AS-Interface Plug type: HAN 05 Interfaces Number of slave addresses: 31 IAS-Interface®) Specifications 7-74 IAS-Interface® (Pug) Cable length Cabl	Braking voltage	230/277 V AC -15 % / +10 %, Actuator for external motor brake
Short-circuit protection (external output circuits) Rated control voltage (Uc) 20277 V.AC (external brake 50100 Hzl 24 V.DC (-15 %-20 %, external via AS-Interface® plug) Communication interface AS-Interface Commection Plug type: NAN QS Number of stave addresses: 31 (AS-Interface®) plug) Nex. total power consumption from AS-Interface®) Nex. total power consumption from AS-Interface®) Nex. total power consumption from AS-Interface®) Nex. total power consumption from AS-Interface®) power supply unit (20 V): 130 m/h Cable length C2 ≤ 5 m, maximum motor cable length C3 ≤ 1 m, maximum motor cable length C3 ≤ 1 m, maximum motor cable length C3 ≤ 5 m, maximum moto	Switch-on threshold for the braking transistor	765 V DC
Rated control voltage (Uc) 230/277 V AC (external trake 50/00 Hz) 24 V DC-15 %/-20 %, external via AS-Interface® plug) Communication interface AS-Interfaces Plug type: HAN 05 Number of slave addresses: 31 (AS-Interface®) Specification: S-7.4 (AS-Interface®) Specifi	Rated conditional short-circuit current (Iq)	10 kA
Communication interface AS-Interface Connection Interfaces Connect	Short-circuit protection (external output circuits)	Type 1 coordination via the power bus' feeder unit, Main circuit
Connection Interfaces	Rated control voltage (Uc)	
Interfaces Number of slave addresses: 31 (AS-Interface®) Specification: S-1 AIA-Interface®) Specification: S-1 AIA-Interface®) Max. total power consumption from AS-Interface® power supply unit (30 VI: 190 mA C2 ≤ 5 m, maximum motor cable length C1 ≤ 1 m, maximum motor cable length C3 ≤ 25 m,	Communication interface	AS-Interface
Specifications -7.3 / A (A.SInterface®) power supply unit (30 V); 190 mA Cable length Cable length Cable length Case and a second power of the maximum motor cable length case and components 10.2.2 Corrosion resistance 10.2.3 Verification of thermal stability of enclosures Meets the product standard's requirements. 10.2.3 Verification of resistance of insulating materials to normal heat 10.2.3 Verification of thermal stability of enclosures Meets the product standard's requirements. 10.2.3 Verification of resistance of insulating materials to normal heat 10.2.3 Verification of resistance of insulating materials to normal heat 10.2.3 Verification of resistance of insulating materials to normal heat 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. 10.2.7 Inscriptions Meets the product standard's requirements. 10.2.8 Meets the product standard's requirements. 10.2.9 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 10.7 Instrail electrical circuits and connections Is the panel builder's responsibility. 10.9 Power-frequency electric strength 10.8 Is the panel builder's responsibility. 10.9 Power-frequency electric strength 10.9 Temperature rise 10.10 Temperature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.14 Device meets the requirements, provided the information in the instruction	Connection	Plug type: HAN Q5
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	10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
	10.13 Mechanical function	·

Technical data ETIM 8.0

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			
Max. output voltage	V	500			
Nominal output current I2N	Α	2.4			
Max. output at quadratic load at rated output voltage	kW	0.75			

Max. output at linear load at rated output voltage	kW	0.75
Relative symmetric net frequency tolerance	%	10
Relative symmetric net voltage tolerance	%	10
Number of analogue outputs	,•	0
Number of analogue inputs		0
Number of digital outputs		0
Number of digital inputs		4
With control element		Yes
Application in industrial area permitted		Yes
Application in domestic- and commercial area permitted		Yes
Supporting protocol for TCP/IP		No
Supporting protocol for PROFIBUS		No No
Supporting protocol for CAN		No
Supporting protocol for INTERBUS		No
Supporting protocol for ASI		Yes
Supporting protocol for KNX		No
Supporting protocol for Modbus		No
Supporting protocol for Data-Highway		No
Supporting protocol for DeviceNet		No
Supporting protocol for SUCONET		No
Supporting protocol for LON		No
Supporting protocol for PROFINET IO		No
Supporting protocol for PROFINET CBA		No
Supporting protocol for SERCOS		No
Supporting protocol for Foundation Fieldbus		No
Supporting protocol for EtherNet/IP		No
Supporting protocol for AS-Interface Safety at Work		No
Supporting protocol for DeviceNet Safety		No
Supporting protocol for INTERBUS-Safety		No
Supporting protocol for PROFIsafe		No
Supporting protocol for SafetyBUS p		No
Supporting protocol for BACnet		No
Supporting protocol for other bus systems		No
Number of HW-interfaces industrial Ethernet		0
Number of interfaces PROFINET		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 HW-interfaces parallel		0
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)		IP65
Degree of protection (NEMA)		12
Height	mm	270
Width	mm	220
Depth	mm	157