Speed controller, 2.4 A, 0.75 kW, Sensor input 4, 400/480 V AC, AS-Interface \$, S-7.4 for 31 modules, HAN Q5, with manual override switch, with braking resistance



Part no. RASP5-2404A31-512R100S1 198553

Product name	Eaton Moeller® series Rapid Link Speed controller
Part no.	RASP5-2404A31-512R100S1
EAN	4015081964284
Product Length/Depth	157 millimetre
Product height	270 millimetre
Product width	220 millimetre
Product weight	3.59 kilogram
Certifications	RoHS UL approval 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 junct 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 Diagnostics and reset on device and via AS-Interface Parameterization: Keypad Parameterization: drivesConnect mobile (App) Parameterization: Fieldbus
Fitted with:	IGBT inverter Key switch position OFF/RESET Selector switch (Positions: REV - OFF - FWD) Internal DC link Manual override switch PTC thermistor monitoring Braking resistance Breaking resistance Two sensor inputs through M12 sockets (max. 150 mA) for quick stop and interlocked manual operation PC connection Key switch position AUTO Control unit Key switch position HAND Thermo-click with safe isolation
Functions	Brake chopper with braking resistance for dynamic braking 1 potentiometer speed 4-quadrant operation possible 3 fixed speeds For actuation of motors with mechanical brake
Degree of protection	NEMA 12 IP65
Electromagnetic compatibility	1st and 2nd environments (according to EN 61800-3)
Overvoltage category	III
Product category	Speed controller
Protocol	ASI AS-Interface profile cable: S-7.4 for 31 modules
Radio interference class	C2, C3: depending on the motor cable length, the connected load, and ambient 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: 10 - 150 Hz, Oscillation frequency Resistance: 6 Hz, Amplitude 0.15 mm Resistance: 57 Hz, Amplitude transition frequency on acceleration Resistance: According to IEC/EN 60068-2-6
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 0% 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	380 - 480 V (-10 %/+10 %, at 50/60 Hz)
Operating mode	U/f control Sensorless vector control (SLV) BLDC motors PM and LSPM motors Synchronous reluctance 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 (le)	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	480 V AC, 3-phase 400 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

Switch-on threshold for the braking transistor Rated conditional short-circuit current (to) Rated conditional short-circuit protection leuternal output circuits) Rated control vollage (Uc) Rated control vollage (Uc) AS-interface Commercian Communication interface Commercian Communication interface Commercian Communication interface Commercian Plug type- HAN QS Specifications S-7-14 (AS-interface®) Number of slave addresses 31 (AS-interface®) Number of slave addr	Assigned motor power at 460/480 V, 60 Hz, 3-phase	1 HP
Braking torque \$ 4 98 (906) Adjustable to 108 (Villa) D.C. Main circuit \$ 400480 V AC -15 % / 10 %, Acuator for external motor brake \$ 50040 V AC -15 % / 10 %, Acuator for external motor brake \$ 50040 V AC -15 % / 10 %, Acuator for external motor brake \$ 50040 V AC -15 % / 10 %, Acuator for external motor brake \$ 50040 V AC -15 % / 10 %, Acuator for external motor brake \$ 50040 V AC -15 % / 10 %, Acuator for external motor brake \$ 50040 V AC -15 % / 10 %, Acuator for external motor brake \$ 50040 V AC -15 % / 10 %, Acuator for external motor brake \$ 50040 V AC -15 % / 10 %, Acuator for external motor brake \$ 50040 V AC -15 % / 10 %, Acuator for external motor brake \$ 50040 V AC -15 % / 10 % (Acuator for external motor brake) \$ 50040 V AC -15 % (Acuator for external motor brake) \$ 50040 V AC -15 % (Acuator for external motor external motor exte		1004/ 004/ 100 104 1/ 104 1/ 1
Adjustable to 100 % 10% IU% DC - Main circuit Switch-on triveshold for the braking transistor 78 V D C Rated conditional short-circuit current IIg) Short-circuit protection (external unput circuits) Fige 1 coordination via the power bus' feeder unit, Main circuit Pype 1 coordination via the power bus' feeder unit, Main circuit AS Interface Commercian Final de control voltage IUc) AS Interface AS Interface Commercian Plug type: NAN QS Specifications S-1 (AS-interface-B) plug) Model or dave addresses. 3 IAS-interface-B) plug Interfaces AS Interface Plug type: NAN QS Specifications S-1 (AS-interface-B) Name or dave addresses. 3 IAS-interface-B) Name or dav		
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Short-circuit protection (external output circuits) Rated control voltage (Uc) 24 V DC (-15 %/30 %, external via AS-interface® plug) 400,400 V AC (centernal brake \$0,000 Hz) Communication interface AS-interface Connection Plug type: HAN 05 Specification: S-7.4 (AS-interface®) Number of slave addresses: 31 (AS-interface®) Number of slav	Switch-on threshold for the braking transistor	765 V DC
Short-circuit protection (external output circuits) Rated control voltage (Uc) 24 V DC (-15 %/30 %, external via AS-interface® plug) 400,400 V AC (centernal brake \$0,000 Hz) Communication interface AS-interface Connection Plug type: HAN 05 Specification: S-7.4 (AS-interface®) Number of slave addresses: 31 (AS-interface®) Number of slav		
Rated control voltage (Uc) 24 V DC (-15 %/-20 %, external via AS-Interface® plug) 400480 V AC (cotternal brake 5069 Hz) AS-Interface AS-Interface Plug type: HAN 05 Interfaces Specification: 5.74 (AS-Interface®) Number of slave addresses: 31 (AS-I	Rated conditional short-circuit current (Iq)	10 kA
Communication interface Connection Plug type: HAN 05 Specification: S-7 At AS-Interface®) Max. total power consumption from AS-Interface® power supply unit (30 V): 186 Max. total power consumption from AS-Interface® power supply unit (30 V): 186 Max. total power consumption from AS-Interface® power supply unit (30 V): 186 Max. total power consumption from AS-Interface® power supply unit (30 V): 186 Max. total power consumption from AS-Interface® power supply unit (30 V): 186 Max. total power consumption from AS-Interface® power supply unit (30 V): 186 Max. total power consumption from AS-Interface®) Meets the product standerd's requirements. 10.2.5 Mechanical impact Does not apply, since the entire switchgear needs to be evaluated. 10.2.7 Interface® Meets the product standerd's requirements. 10.3 Degree of protection of assemblies Does not apply, since the entire switchgear needs to be evaluated. 10.4 Clearances and recepage distances Meets the product standerd's requirements. 10.5 Frotection against electric shock Does not apply, since the entire switchgear needs to be evaluated. 10.6 Dearnors and recepage distances Does not apply, since the entire switchgear needs to be evaluated. 10.7 Internal electrical circuits and connections 10.8 Internal electric allores and connections 10.9 Power-frequency electric strength 10.1 Dear elect	Short-circuit protection (external output circuits)	Type 1 coordination via the power bus' feeder unit, Main circuit
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Centection Center to the service of	Communication interface	AS-Interface
Interfaces Specification: S-7.4 (AS-Interface®) Number of slave addresses: 31 (AS-Interface®) power supply unit (30 V): 195 mA. Cable length		
C2 ≤ 5 m, maximum motor cable length C2 ≤ 6 m, cable length C2 ≤ 6 m, cable length C2 ≤ 6 m, cable length C3 ≤ 6 m, cable length C4 + C2 +	Interfaces	Specification: S-7.4 (AS-Interface®) Number of slave addresses: 31 (AS-Interface®) Max. total power consumption from AS-Interface® power supply unit (30 V): 190
10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.2.8 Mechanical impact 10.2.7 Inscriptions 10.2.8 Does not apply, since the entire switchgear needs to be evaluated. 10.2.7 Inscriptions 10.2.8 Inscriptions 10.2.8 Meets the product standard's requirements. 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 for external conductors 10.9 Power-frequency electric strength 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.14 Mechanical function 10.15 Mechanical function 10.15 Mechanical function 10.16 Temperature enter the requirements, provided the information in the instruction	Cable length	C3 ≤ 25 m, maximum motor cable length
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	10.12 Electromagnetic compatibility	
	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 380 - 480 50/60 Hz Mains frequency Number of phases input 3 3 Number of phases output Max. output frequency Hz 500 Max. output voltage ٧ 500

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
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
"		