Speed controllers, 2.4 A, 0.75 kW, Sensor input 4, 180/207 V DC, AS-Interface®, S-7.4 for 31 modules, HAN Q4/2, with manual override switch, with braking resistance, STO (Safe Torque Off)



Part no. RASP5-2401A31-412R110S1 198757

Product name	Eaton Moeller® series Rapid Link Speed controller
Part no.	RASP5-2401A31-412R110S1
EAN	4015081968152
Product Length/Depth	157 millimetre
Product height	270 millimetre
Product width	220 millimetre
Product weight	3.6 kilogram
Certifications	CE
	UL approval IEC/EN 61800-5-1 UL 61800-5-1 RoHS
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 junc 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 mobile (App) Parameterization: Fieldbus Parameterization: drivesConnect Parameterization: Keypad Diagnostics and reset on device and via AS-Interface
Fitted with:	Key switch position HAND Two sensor inputs through M12 sockets (max. 150 mA) for quick stop and interlocked manual operation Internal DC link IGBT inverter Key switch position OFF/RESET PC connection Control unit Manual override switch PTC thermistor monitoring Thermo-click with safe isolation Selector switch (Positions: REV - OFF - FWD) Braking resistance Breaking resistance Key switch position AUTO
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
	ASI

	conditions. External radio interference suppression filters (optional) may be necessary.
Rated impulse withstand voltage (Uimp)	2000 V
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: 57 Hz, Amplitude transition frequency on acceleration Resistance: 10 - 150 Hz, Oscillation frequency Resistance: 6 Hz, Amplitude 0.15 mm 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	In accordance with IEC/EN 50178 < 95 %, no condensation
Current limitation	0.2 - 2.4 A, motor, main circuit Adjustable, 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	PM and LSPM motors Synchronous reluctance motors Sensorless vector control (SLV) BLDC motors U/f control
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 $^{\circ}\text{C})$
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 second Power section
Supply frequency	50/60 Hz
	8 kHz, 4 - 32 kHz adjustable, fPWM, Power section, Main circuit

observed.		
Braking stratupe Carbon in verteage Section-on threehold for the braking transistor Section of the transition interface Rated control vertage (Uc) Rated (Uc) R	Assigned motor power at 460/480 V, 60 Hz, 3-phase	1 HP
Braking stratupe Carbon in verteage Section-on threehold for the braking transistor Section of the transition interface Rated control vertage (Uc) Rated (Uc) R		
Saving values Saving value	Braking current	≤ 0.6 A (max. 6 A for 120 ms), Actuator for external motor brake
Switch on threshold for the braking transistor Rated controllorial abort-circuit current (Iq) Short-circuit protection (activate) Rated control voltage (Uc) Rated Con	Braking torque	
Rated conditional short-circuit current (Iq) Short-circuit protection (external originic circuits) Fige 1 coordination via the power bus' feeder unit, Main circuit Rated control voltage (IJC) Rated control voltage (IJC) Rated control voltage (IJC) Communication interface AS-Interface Plug type: HAN QA2 Interfaces Max. total power consumption from AS-Interface® power supply unit (30 VI: 190 Max. total power consumption from AS-Interface® power supply unit (30 VI: 190 Max. total power consumption from AS-Interface® power supply unit (30 VI: 190 Max. total power consumption from AS-Interface® power supply unit (30 VI: 190 Max. total power consumption from AS-Interface®) Report of slaves addresses: 31 (AS-Interface®) Report of slave	Braking voltage	280/207 V DC -15 % / +10 %, Actuator for external motor brake
Short-circuit protection (external output circuits) Rated control voltage (Uc) Rate (Communication interface Remerciace Plug typer (HAN DA/2 Max, total power consumption from AS-interface® power supply unit (30 V)r 190 miles (15 mile	Switch-on threshold for the braking transistor	765 V DC
Rated control voltage (Uc) Communication interface AS-Interface AS-Interface AS-Interface Plug type: HAN BU2 Interfaces Max. total power consumption from AS-Interface® power supply unit (30 V: 190 mA) As perilication: 5-7.4 (AS-Interface®) Number of allows oddresses: 3 (1AS-Interface®) Number of allows oddr	Rated conditional short-circuit current (Iq)	10 kA
Cammunication interface	Short-circuit protection (external output circuits)	Type 1 coordination via the power bus' feeder unit, Main circuit
Cammunication interface		
Plug type: HAN Q4/2 Interfaces Max. total power consumption from AS-Interface® power supply unit (30 V): 190	Rated control voltage (Uc)	
Interfaces Max. total power consumption from AS-Interface® power supply unit (30 V): 190 map. (interface) m	Communication interface	AS-Interface
mA Specifications S-7.4 (AS-Interface@) Number of slave addresses: 31 (A	Connection	Plug type: HAN Q4/2
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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 put current IZN A 2 24 24 24 24 24 24 24 24 24 24 24 24 24 24 24 24 24 24 24 25 25 26	
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Number of interfaces PROFINET 0	
Number of HW-interfaces RS-422 0	
Number of HW-interfaces RS-485	
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)	
Degree of protection (NEMA) 12	
Height mm 270	
Width mm 220	
Depth mm 157	