Speed controllers, 4.3 A, 1.5 kW, Sensor input 4, 400/480 V AC, AS-Interface®, S-7.4 for 31 modules, HAN Q4/2, with braking resistance, STO (Safe Torque Off)



Part no. RASP5-4404A31-4120110S1 198779

Product name	Fator Macliar® agrica David Light Canad agricultur
Part no.	Eaton Moeller® series Rapid Link Speed controller RASP5-4404A31-4120110S1
EAN	4015081968374
Product Length/Depth	157 millimetre
Product height	270 millimetre
Product width	220 millimetre
Product weight	3.43 kilogram
Certifications	UL 61800-5-1 RoHS CE IEC/EN 61800-5-1 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 junc 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 mobile (App) Parameterization: Keypad Parameterization: Fieldbus Parameterization: drivesConnect Diagnostics and reset on device and via AS-Interface
Fitted with:	Four fixed speeds Key switch position AUTO Thermo-click with safe isolation Internal DC link Selector switch (Positions: REV - OFF - FWD) Control unit Key switch position OFF/RESET PTC thermistor monitoring IGBT inverter Braking resistance Key switch position HAND Two sensor inputs through M12 sockets (max. 150 mA) for quick stop and interlocked manual operation PC connection Breaking resistance
Functions	For actuation of motors with mechanical brake STO (Safe Torque Off) 4-quadrant operation possible Brake chopper with braking resistance for dynamic braking
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. C1: for conducted emissions only

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: 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	Above 1000 m with 1 % performance reduction per 100 m Max. 2000 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	Adjustable, motor, main circuit 0.4 - 4.3 A, motor, main circuit
Delay time	< 10 ms, On-delay < 10 ms, Off-delay
Efficiency	98 % (η)
Heat dissipation at current/speed	32.3 W at 25% current and 0% speed 33.2 W at 25% current and 50% speed 35.2 W at 50% current and 90% speed 36.2 W at 50% current and 0% speed 37.6 W at 50% current and 50% speed 46.3 W at 100% current and 90% speed 48.7 W at 100% current and 0% speed 48.7 W at 100% current and 0% speed
Input current ILN at 150% overload	4.1 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 U/f control Synchronous reluctance motors Sensorless vector control (SLV) BLDC motors
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	6.5 A
Rated frequency - max	66 Hz
Rated frequency - min	45 Hz
Rated operational current (le)	4.3 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	1.5 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
	2 HP

Specification: S-7.4 (AS-Interface®) Number of slave addresses: 31 (AS-Interface®) Number slave addresses: 31 (AS-Interface®) Num		
Adjustable to 100 % (Vin), IOC - Main circuit Raking voltage Solitability of the braking transistor Solitability of the braking transistor Rated control (voltage IUC) Adjustable to 100 % (Vin) of the second in the seco	Braking current	\leq 0.6 A (max. 6 A for 120 ms), Actuator for external motor brake
Switch-an threshold for the Irraking transistor Rated conditional short-circuit current (Iq) Rated control voltage (Uc) Rated control voltage (Uc) Rated control voltage (Uc) Rated control voltage (Uc) Communication interface Connection Communication interface Connection Communication interface Connection Interfaces AS-Interface Plug type-HAN 042 Max. total power consumption from AS-Interface® power supply unit (30 V): 190 Sometications S-X 14 AS-Interface® power supply unit (30 V): 190 Sometications S-X 14 AS-Interface®) Number of slave addresses: 31 IAS-Interface® power supply unit (30 V): 190 Sometications S-X 14 AS-Interface®) Number of slave addresses: 31 IAS-Interface® power supply unit (30 V): 190 Sometications S-X 14 AS-Interface®) Number of slave addresses: 31 IAS-Interface® power supply unit (30 V): 190 Sometications S-X 14 AS-Interface®) Number of slave addresses: 31 IAS-Interface® power supply unit (30 V): 190 Sometications S-X 14 AS-Interface®) Number of slave addresses: 31 IAS-Interface® power supply unit (30 V): 190 Sometications S-X 14 AS-Interface® power supply unit (30 V): 190 Sometications S-X 14 AS-Interface® power supply unit (30 V): 190 Sometications S-X 14 AS-Interface® power supply unit (30 V): 190 Sometications S-X 14 AS-Interface® power supply unit (30 V): 190 Sometications S-X 14 AS-Interface® power supply unit (30 V): 190 Sometications S-X 14 AS-Interface® power supply unit (30 V): 190 Sometications S-X 14 AS-Interface® power supply unit (30 V): 190 Sometications S-X 14 AS-Interface® power supply unit (30 V): 190 Sometications S-X 14 AS-Interface® power supply unit (30 V): 190 Meets the product standard's requirements. 10.25 AB-Interface of interface of insulation of contents and contents of the evaluated. 10.27 Interface of product standard's requirements. 10.28 Mechanical impact 10.29 Power-frequency electric strength 10.30 Interface of product standard's requirements. 10.40 Connections for external conductors 10.40 Connections for external	Braking torque	
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A90/480 V AC (ceternal brake 50/00 Hz) Communication interface Connection A3-interface Connection Max. total power consumption from A3-interface® power supply unit (30 V): 190 min. Specifications: S.7.4 (A5-interface®) Cas 25 m., maximum motor cable length C1 < 1 m., maximum motor cable length C1 < 2 m., maximum motor c	Short-circuit protection (external output circuits)	Type 1 coordination via the power bus' feeder unit, Main circuit
Communication interface Connection Interfaces Connection Interfaces Interface	Rated control voltage (Uc)	24 V DC (-15 %/+20 %, external via AS-Interface® plug)
Connection Plug type: HAN D4/2 Interfaces Mac. total power consumption from AS-Interface® power supply unit (30 V): 190 mA Specifications. 57-34 IAS-Interface®) Number of slave addresses: 31 (AS-Interface®) Number of slave addresses: 31 (AS-Interface®		
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C1 ≤ 1 m, maximum motor cable length C2 ≤ 5 m, maximum cable c	Interfaces	Specification: S-7.4 (AS-Interface®)
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provide heat dissipation data for the devices. 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.14 Short-circuit rating 15 the panel builder's responsibility. The specifications for the switchgear must be observed. 10.15 The device meets the requirements, provided the information in the instruction	10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
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observed. 10.13 Mechanical function The device meets the requirements, provided the information in the instruction	10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must b observed.
	10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must b 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 ٧ 380 - 480 50/60 Hz Mains frequency Number of phases input 3 Number of phases output 3 500 Max. output frequency Hz ٧ Max. output voltage 500 Nominal output current I2N Α 4.3

Michael Mich			
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Application in industrial area permitted "98 Application in industrial area permitted "80 Supporting protect for CTCPIP No Supporting protect for CTCPIP No Supporting protect for CAN No Supporting protect for CAN No Supporting protect for MRTBUS No Supporting protect for SUPPORTED No Supporting protect for MRTBUS No Supporting protect for M	Number of digital inputs		4
Application in domestic- and cummercal area permitted Yes Sipporting protocol for TCPIP No Sipporting protocol for CANI No Supporting protocol for CANI No Supporting protocol for INTEBUS No Supporting protocol for KNK No Supporting protocol for KNK No Supporting protocol for KNK No Supporting protocol for Debt-sighted No Supporting protocol for DEBT-SIGN No Supporting protocol for PROFINET DEA No Supporting protocol for PROFINET DEA No Supporting protocol for Fondation Fieldeds No </td <td>With control element</td> <td></td> <td>Yes</td>	With control element		Yes
Supporting protocol for TCPIPP No Supporting protocol for PROFIBUS No Supporting protocol for INTERBUS No Supporting protocol for ASI Yes Supporting protocol for DNA No Supporting protocol for DNA No Supporting protocol for DNA No Supporting protocol for DNA Highway No Supporting protocol for SNA Highway No Supporting protocol for PROFINET DBA No Supporting protocol for PROFINET DBA No Supporting protocol for EMPANET BBA No Supporting protocol for EMPANET BBA <td>Application in industrial area permitted</td> <td></td> <td>Yes</td>	Application in industrial area permitted		Yes
Supporting protection of CAN No Supporting protection CAN No Supporting protection of CAN No Supporting protection of NETHERUS No Supporting protection CASI No Supporting protection CAXI No Supporting protection Chat-Highway No Supporting protection Device/baNE No Supporting protection Coveries Na No Supporting protection Coveries Na No Supporting protection of Device/baNE No Supporting protection of PROFINET DA No Supporting protection of PROFINET DA No Supporting protection of Functional Fieldbus No Supporting protection of Functional Fieldbus No Supporting protection of Profitable Safety No Supporting protection of Device/baNE Safety No <	Application in domestic- and commercial area permitted		Yes
Supporting pratacul for CAN No Supporting pratacul for NNTERBUS No Supporting pratacul for NNX No Supporting pratacul for MNATH No Supporting pratacul for SUDONIT No Supporting pratacul for PROFINET ID No Supporting pratacul for PROFINET ID No Supporting pratacul for Familiation Fieldhus No Supporting pratacul for Familiation Fieldhus No Supporting pratacul for EhenNetIP No Supporting pratacul for EhenNetIP No Supporting pratacul for PROFINET No Supporting pratacul for Delarchus safety No Supporting pratacul for Delarchus safety No Supporting pratacul for Safety Music	Supporting protocol for TCP/IP		No
Supporting pratocal for INTERBUS No Supporting pratocal for ASI No Supporting pratocal for Modeus No Supporting pratocal for Unast-stigutowy No Supporting pratocal for Deat-stigutowy No Supporting pratocal for SUDNET No Supporting pratocal for SUDNET No Supporting pratocal for PROFINET ID No Supporting pratocal for PROFINET ID No Supporting pratocal for FERROS No Supporting pratocal for Formitation Fieldhus No Supporting pratocal for Evenevity No Supporting pratocal for Deference Safety No Supporting pratocal for Evenevity No Supporting pratocal for SafetyBUS p No Supporting pratocal for SafetyBUS p <t< td=""><td>Supporting protocol for PROFIBUS</td><td></td><td>No</td></t<>	Supporting protocol for PROFIBUS		No
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Supporting protocol for NAX No Supporting protocol for Debt Highway No Supporting protocol for FLON No Supporting protocol for FROMETIO No Supporting protocol for PROMETIO No Supporting protocol for Frometion Fields No Supporting protocol for Foundation Fields No Supporting protocol for Foundation Fields No Supporting protocol for Powerbet Safety No Supporting protocol for Foundation Fields No Supporting protocol for Powerbet Safety No Supporting protocol for Powerbet Safety No Supporting protocol for Safety NUSP No	Supporting protocol for INTERBUS		No
Supporting protocol for Data-Highway No Supporting protocol for Data-Highway No Supporting protocol for Data-Highway No Supporting protocol for DeviceNet No Supporting protocol for EUONET No Supporting protocol for FROFINET IO No Supporting protocol for PROFINET GBA No Supporting protocol for FROFINET GBA No Supporting protocol for FROFINET GBA No Supporting protocol for EHE-NARUP No Supporting protocol for EHE-NARUP No Supporting protocol for DeviceNet Safety No Supporting protocol for FROFISER No Supporting protocol for PROFISER No Supporting protocol for PROFISER No Supporting protocol for PROFISER No Supporting protocol for Safety NUS No Supporting protoc	Supporting protocol for ASI		Yes
Supporting protectle for Desi-Highway In No. Supporting protectle for DesireNet In No. Supporting protectle for DesireNet In No. Supporting protectle for SUCONET No. Supporting protectle for LON No. Supporting protectle for PROFINET ID No. Supporting protectle for PROFINET EDA No. Supporting protectle for PROFINET EDA No. Supporting protectle for Endesthered Province Market Park No. Supporting protectle for Endesthered Province Market Parket P	Supporting protocol for KNX		No
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Supporting protocol for PRDFINET ID No Supporting protocol for PRDFINET CBA No Supporting protocol for SERCOS No Supporting protocol for EDMACOS No Supporting protocol for Foundation Fieldbus No Supporting protocol for EDMENDERP No Supporting protocol for Device Only Control Contr	Supporting protocol for SUCONET		No
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