DATASHEET - RASP5-5404A31-412R100S1

Speed controllers, 5.6 A, 2.2 kW, Sensor input 4, 400/480 V AC, AS-Interface®, S-7.4 for 31 modules, HAN Q4/2, with manual override switch, with braking resistance



Part no.

RASP5-5404A31-412R100S1 198823

Product name	Eaton Moeller® series Rapid Link Speed controller
Part no.	RASP5-5404A31-412R100S1
EAN	4015081968817
Product Length/Depth	157 millimetre
Product height	270 millimetre
Product width	220 millimetre
Product weight	3.59 kilogram
Certifications	CE IEC/EN 61800-5-1 UL 61800-5-1 UL approval 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 juncti 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: Keypad Parameterization: drivesConnect Diagnostics and reset on device and via AS-Interface Parameterization: Fieldbus Parameterization: drivesConnect mobile (App)
Fitted with:	Control unit PC connection Braking resistance PTC thermistor monitoring Breaking resistance Key switch position AUTO Key switch position AUTO Key switch position HAND Internal DC link IGBT inverter Selector switch (Positions: REV - OFF - FWD) Thermo-click with safe isolation Key switch position OFF/RESET Manual override switch Two sensor inputs through M12 sockets (max. 150 mA) for quick stop and interlocked manual operation
Functions	For actuation of motors with mechanical brake Brake chopper with braking resistance for dynamic braking 1 potentiometer speed 3 fixed speeds 4-quadrant operation possible
Degree of protection	IP65 NEMA 12
Electromagnetic compatibility	1st and 2nd environments (according to EN 61800-3)
Electromagnetic compatibility Overvoltage category	1st and 2nd environments (according to EN 61800-3)
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Overvoltage category	

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Dimatic program 255 A proton main creative setting of the set of the	Ambient storage temperature - min	-40 °C
Internet limitation Internet limitation Internet limitation Internet limitation Delay time 55.5 A, notor, main circuit Allow for an output of the spaced	Ambient storage temperature - max	70 °C
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Efficiency I for a f	Current limitation	
Hat dissipation at current/speed So & W at 25% current and 0% speed Si W at 25% current and 0% speed So & W at 25% current and 0% speed Lipt current ILW at 150% overload So &		< 10 ms, On-delay
Lekage current at ground IPE - max 5 mA Mains switch-on frequency 20 % Mains switch-on frequency Maximum of one time every 60 seconds Mains switch-on frequency 80 V Mains switch-on frequency 80 V Mains voltage - min 80 - 480 V (-10 %/+10 %, at 50/60 Hz) Deprating mode 90 - 480 V (-10 %/+10 %, at 50/60 Hz) Operating mode 90 - 480 V (-10 %/+10 %, at 50/60 Hz) Duptr frequency - max 90 - 480 V (-10 %/+10 %, at 50/60 Hz) Output frequency - max 90 - 480 V (-10 %/+10 %, at 50/60 Hz) Overload current 90 - 480 V (-10 %/+10 %, at 50/60 Hz) Overload current 90 - 480 V (-10 %/+10 %, at 50/60 Hz) New frequency - max 90 - 480 V (-10 %/+10 %, at 50/60 Hz) Overload current (La 150% overload 90 - 440 ° C Rated frequency - max 64 Hz Rated operational output (+10 %000 K50 Hz, 3-phase 64 Hz Rated operational power at 380/400 V, 50 Hz, 3-phase 21 WW Rated operational power at 380/400 V, 50 Hz, 3-phase 21 W Rated operational voltage 00 V AC, 3-phase Rated operational voltage 01 Hz (Frequency resolution, setpoint value) Rated operational volt		36.6 W at 25% current and 0% speed 38.1 W at 25% current and 50% speed 42 W at 50% current and 0% speed 42.5 W at 50% current and 90% speed 44.2 W at 50% current and 50% speed 55.9 W at 100% current and 0% speed 58.3 W at 100% current and 90% speed
Mains current distortion 20% Mains switch-on frequency Maximum of one time every 60 seconds Mains voltage - max 80 V Mains voltage tolerance 300 V Operating mode 800 V Operating mode 800 V Output frequency - max 800 V Output frequency - max 800 V Output frequency - max 600 Hz Rated querer + min 614 Q*C Rated operational current IL at 150% overload 614 Q*C Rated operational current (le) 614 Z*A Rated operational current (le) 614 Z*A Rated operational output frequency - max 614 Z*A Rated operational voltage 614 Z*A Rated operational current (le) 516 A at 150% overload (at an operating frequency of 8 KHz and an ambient eir emperature of +40 *C) Rated operational voltage 600 VAC, 3-phase Rated operational voltage 600 VAC, 3-phase Rated operational voltage 600 VAC, 3-phase	Input current ILN at 150% overload	5.3 A
Mains switch-on frequency Maximum of one time every 60 seconds Mains voltage - max 40 V Mains voltage - min 30 V Mains voltage tolerance 30 - 480 V (-10 %/+10 %, at 50/60 Hz) Operating mode BLDC motors Operating mode BLDC motors Output frequency - max 60 Hz Output frequency - min 60 Hz Overload current 84 A Nation durrent IL at 150% overload 61 Hz Rated operational output frequency - max 64 Hz Rated operational output (le) 54 Hz Rated operational voltage 54 Hz Resolution 54 Hz Rated operational voltage 54 Hz Rated operati	Leakage current at ground IPE - max	3.5 mA
Mains voltage - max480 VMains voltage - min380 VMains voltage tolerance380 - 480 V (-10 %/-10 %, at 50/60 Hz)Operating modeStarbalOutput frequency - maxBLDC motors V/ controlOutput frequency - max500 HzOutput frequency - minHzOverload current IL at 150% overload64 HzRated frequency - max64 HzRated operational current (le)5.6 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-phase22 kWRated operational voltage21 kZ (Frequency resolution, setpoint value)Rated operational voltage11 kZ (Frequency resolution, setpoint value)Rated operational voltage11 kZ (Frequency resolution, setpoint value)Rated operational voltage01 Hz (Frequency resolution, setpoint value)	Mains current distortion	120 %
Mains voltage nim 380 V Mains voltage tolerance 380 · 480 V (-10 %/+10 %, at 50/60 Hz) Operating mode BLDC motors Jupt frequency - max BLDC motors Output frequency - min 00 Hz Overload current Lat 150% overload 60 Hz Rated frequency - min 64 Hz Rated operational power at 380/400 V, 50 Hz, 3-phase 84 A Rated operational power at 380/400 V, 50 Hz, 3-phase 64 Hz Rated operational power at 380/400 V, 50 Hz, 3-phase 21 KW Resolution 00 V A(2, 3-phase) Resolution 01 L/2 (Frequency resolution, setpoint value) Resolution 01 L/2 (Frequency resolution, setpoint value)	Mains switch-on frequency	Maximum of one time every 60 seconds
Mains voltage tolerance 380 + 480 V (-10 %/+10 %, at 50/60 Hz) Operating mode BLDC motors U/f control Duptuf frequency - max 500 Hz Output frequency - min 614 500 Hz Overload current 614 500 Hz Overload current Lat 150% overload 614 500 Hz Rated frequency - min 614 500 Hz Overload current (let) 614 500 Hz Rated frequency - min 516 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 516 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 516 A at 150% overload (at an operating frequency of 8 kHz and an ambient air temperature of +40 °C) Rated operational voltage 614 C 22 kW Rated operational voltage 614 C 200 V/AC, 3-phase Rated operational voltage 614 C 200 V/AC, 3-phase Rated operational voltage 614 C 200 V/AC, 3-phase Rated operational voltage 614 C </td <td>Mains voltage - max</td> <td>480 V</td>	Mains voltage - max	480 V
Operating mode BLC motors Wr control Wr control Mand LSPM motors Sensories sevetor control (SLV) Synchronous reluctance motors 500 Hz Output frequency - max 00 Hz Overload current 0Hz Overload current Lat 150% overload 640 °C Rated frequency - max 640 °C Rated frequency - max 641 °C Rated operational current (le) 55 A at 150% overload (at an operating frequency of 8 kHz and an ambient air temperature of 440 °C) Rated operational power at 380/400 V, 50 Hz, 3-phase 2 LW Rated operational power at 380/400 V, 50 Hz, 3-phase 2 LW Rated operational power at 380/400 V, 50 Hz, 3-phase 0 V AC, 3-phase Rated operational power at 380/400 V, 50 Hz, 3-phase 2 LW Rated operational power at 380/400 V, 50 Hz, 3-phase 0 V AC, 3-phase Rated operational power at 380/400 V, 50 Hz, 3-phase 0 L L (Frequency resolution, setpoint value) Rated operational power at 380/400 V, 50 Hz, 3-phase 0 V AC, 3-phase Rated operational power at 380/400 V, 50 Hz, 3-phase 0 V AC, 3-phase Rated operational power at 380/400 V, 50 Hz, 3-phase 0 V AC, 3-phase Rated operational power at 380/400 V, 50 Hz, 3-phase	Mains voltage - min	380 V
Vi control PM and LSPM motors sensorless vector control (SLV) Synchronous reluctance motorsOutput frequency - max500 HzOutput frequency - min0 HzOverload current640 °C For 60 s every 600 sOverload current IL at 150% overload644 °C For 60 s every 600 sOverload current IL at 150% overload644 °C For 60 s every 600 sRated frequency - max644 °C For 60 s every 600 sRated frequency - max644 °C For 60 s every 600 sRated frequency - max644 °C For 60 s every 600 sRated operational current (le)64 FzRated operational power at 380/400 V, 50 Hz, 3-phase64 FzRated operational voltage22 kWRated operational voltage64 FzRated operational voltage74 Frequency resolution, setpoint value)Rated operational voltage74 Frequency resolution, setpoint value)Rated operational voltage64 FzRated operational voltage74 Frequency resolution, s	Mains voltage tolerance	380 - 480 V (-10 %/+10 %, at 50/60 Hz)
Output frequency - min 0 Hz Overload current At 40 °C Overload current LL at 150% overload 8.4 A Rated frequency - max 6 Hz Rated frequency - min 5.6 A at 150% overload (at an operating frequency of 8 kHz and an ambient air of +40 °C) Rated operational power at 380/400 V, 50 Hz, 3-phase 5.6 A at 150% overload (at an operating frequency of 8 kHz and an ambient air of +40 °C) Rated operational voltage 2.2 kW Rated operational voltage 400 V AC, 3-phase 480 V AC, 3-phase Rated operational voltage 0.1 Hz (Frequency resolution, setpoint value) Rated operational voltage 0.0 % I, H, max. starting current (ligh Overload), For 2 seconds every 20 seconds ev	Operating mode	U/f control PM and LSPM motors Sensorless vector control (SLV)
Dverload current At 40 °C Dverload current Lat 150% overload 84 A Rated frequency - max 66 Hz Rated frequency - min 56 A at 150% overload (at an operating frequency of 8 kHz and an ambient air emperature of +40 °C) Rated operational power at 380/400 V, 50 Hz, 3-phase 22 kW Rated operational voltage 00 V AC, 3-phase 480 V AC, 3-phas	Output frequency - max	500 Hz
Index of the second of the s	Output frequency - min	0 Hz
Rated frequency - max 64 64 Rated frequency - min 54 54 Rated operational current (le) 56 56 A at 150% overload (at an operating frequency of 8 kHz and an ambient air temperature of +40 °C) 2.2 kW Rated operational power at 380/400 V, 50 Hz, 3-phase 64 400 V AC, 3-phase 2.2 kW Rated operational voltage 600 V AC, 3-phase 0.1 Hz (Frequency resolution, setpoint value) 0.1 Hz (Frequency resolution, setpoint value) Resolution 00 %, IH, max. starting current (High Overload), For 2 seconds every 20 s		For 60 s every 600 s
Rated frequency - min 56 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 2.2 kW Rated operational voltage 400 V AC, 3-phase at 000 V AC, 3-ph		
Rated operational current (Ie) For the perature of +40 °C) Rated operational power at 380/400 V, 50 Hz, 3-phase 2.2 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 610 K K K K K K K K K K K K K K K K K K K		
Rated operational power at 380/400 V, 50 Hz, 3-phase remperature of +40 °C) Rated operational voltage 2.2 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 616 61 61 61 61 61 61 61 61 61 61 61 61		
Rated operational voltage 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 seconds Power section		temperature of +40 °C)
Resolution 480 V AC, 3-phase Starting current - max 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		
Starting current - max 200 %, IH, max. starting current (High Overload), For 2 seconds every 20 seconds Power section		480 V AC, 3-phase
Power section	Resolution	
Supply frequency 50/60 Hz	-	Power section
	Supply frequency	50/60 Hz

Assigned motor power at 460/480 V, 60 Hz, 3-phase	3 HP
Braking current	≤ 0.6 A (max. 6 A for 120 ms), Actuator for external motor brake
Braking torque	≤ 30 % (I/Ie) Adjustable to 100 % (I/Ie), DC - Main circuit
Braking voltage	400/480 V AC -15 % / +10 %, Actuator for external motor brake
Switch-on threshold for the braking transistor	765 V DC
Rated conditional short-circuit current (Iq)	10 kA
Short-circuit protection (external output circuits)	Type 1 coordination via the power bus' feeder unit, Main circuit
Rated control voltage (Uc)	24 V DC (-15 %/+20 %, external via AS-Interface® plug) 400/480 V AC (external brake 50/60 Hz)
Communication interface	AS-Interface
Connection	Plug type: HAN Q4/2
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 mA
Cable length	$C2 \le 5$ m, maximum motor cable length $C3 \le 25$ m, maximum motor cable length $C1 \le 1$ m, maximum motor cable length
10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Meets the product standard's requirements.
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.
10.2.6 Mechanical impact 10.2.7 Inscriptions	Does not apply, since the entire switchgear needs to be evaluated. 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	Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
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	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 8.0

 Low-voltage industrial components (EG000017) / Frequency converter =< 1 kV (EC001857)</td>

 Electric engineering, automation, process control engineering / Electrical drive / Static frequency converter = < 1 kV (ecl@ss10.0.1-27-02-31-01 [AKE177014])</td>

 Mains voltage
 V
 380 - 480

 Munber of phases input
 50/60 Hz
 3

 Number of phases output
 Image: Static frequency
 30 - 480

 Max. output frequency
 T
 T

 Max. output frequency
 T
 T

Max. output voltage	V	500
Nominal output current I2N	A	5.6
Max. output at quadratic load at rated output voltage	kW	2.2
Max. output at linear load at rated output voltage	kW	2.2
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		Νο
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 osb		0
Number of HW-interfaces parallel		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