DATASHEET - RASP5-5404A31-4120110S1

Speed controllers, 5.6 A, 2.2 kW, Sensor input 4, 400/480 V AC, AS-Interface $\ensuremath{\mathbb{B}}$, S-7.4 for 31 modules, HAN Q4/2, with braking resistance, STO (Safe Torque Off)



Part no.

RASP5-5404A31-4120110S1 198815

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Image: set of protectionImage: set of pro	Features	Parameterization: drivesConnect mobile (App) Parameterization: Fieldbus Diagnostics and reset on device and via AS-Interface
Image: Protection Brake chopper with braking resistance for dynamic braking for actuation of motors with mechanical brake STO (Safe Torque Off) Degree of protection Image: Protection Degree of protection NEMA 12 (P65) Decorption Image: Protection Overvoltage category Image: Protection Product category Speed controller Protocol Speed controller Radio interference class C1: for conducted emissions only (2, C3: depending on the motor cable length, the connected load, and ambient conditions. External radio interference suppression filters (optional) may be	Fitted with:	Key switch position AUTO Selector switch (Positions: REV - OFF - FWD) Thermo-click with safe isolation Two sensor inputs through M12 sockets (max. 150 mA) for quick stop and interlocked manual operation Breaking resistance Key switch position HAND Control unit Braking resistance Four fixed speeds Key switch position OFF/RESET Internal DC link IGBT inverter
IP65 Electromagnetic compatibility Ist 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 Radio interference class Cli 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	Functions	Brake chopper with braking resistance for dynamic braking For actuation of motors with mechanical brake
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	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

Rated impulse withstand voltage (Uimp)	2000 V
System configuration type	AC voltage Center-point earthed star network (TN-S network)
	Phase-earthed AC supply systems are not permitted.
Mounting position	Vertical
Shock resistance	15 g, Mechanical, According to IEC/EN 60068-2-27, 11 ms, Half-sinusoidal shock 11
	ms, 1000 shocks per shaft
Vibration	Resistance: 10 - 150 Hz, Oscillation frequency Resistance: 6 Hz, Amplitude 0.15 mm
	Resistance: According to IEC/EN 60068-2-6
	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	< 95 %, no condensation In accordance with IEC/EN 50178
Current limitation	Adjustable, motor, main circuit
	0.5 - 5.6 A, motor, main circuit
Delay time	< 10 ms, On-delay
	< 10 ms, Off-delay
Efficiency	98 % (ŋ)
Heat dissipation at current/speed	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 60.4 W at 100% current and 50% speed
Input current ILN at 150% overload	5.3 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
	Synchronous reluctance motors
	BLDC motors Sensorless vector control (SLV)
	PM and LSPM motors
Output frequency - max	500 Hz
Output frequency - min	0 Hz
Overload current	At 40 °C For 60 s every 600 s
Quarload surrant II at 150% suprand	
Overload current IL at 150% overload	8.4 A
Rated frequency - max	66 Hz
Rated frequency - min	45 Hz
Rated operational current (Ie)	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-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	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
J	
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)	400/480 V AC (external brake 50/60 Hz) 24 V DC (-15 %/+20 %, external via AS-Interface® plug)
Communication interface	AS-Interface
Connection	Plug type: HAN Q4/2
Interfaces	Specification: S-7.4 (AS-Interface®)
	Max. total power consumption from AS-Interface® power supply unit (30 V): 190 mA
	Number of slave addresses: 31 (AS-Interface®)
Cable length	$C2 \le 5$ m, maximum motor cable length
	C1 ≤ 1 m, maximum motor cable length C3 ≤ 25 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	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	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 be observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be 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

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		50/60 Hz
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Number of HW-interfaces other 1 With optical interface No	
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	