DATASHEET - RASP5-8400A31-4120111S1

Speed controllers, 8.5 A, 4 kW, Sensor input 4, AS-Interface®, S-7.4 for 31 modules, HAN Q4/2, with braking resistance, STO (Safe Torque Off), with fan



Part no.

RASP5-8400A31-4120111S1 198848

Product name	Eaton Moeller® series Rapid Link Speed controller
Part no.	RASP5-8400A31-4120111S1
EAN	4015081969067
Product Length/Depth	195 millimetre
Product height	270 millimetre
Product width	220 millimetre
Product weight	3.62 kilogram
Certifications	RoHS UL approval CE IEC/EN 61800-5-1 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 junction 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 Parameterization: Fieldbus Diagnostics and reset on device and via AS-Interface Parameterization: drivesConnect mobile (App) Internal and on heat sink, temperature-controlled Fan
Fitted with:	Internal DC link Key switch position HAND Control unit PC connection Braking resistance Thermo-click with safe isolation Key switch position OFF/RESET IGBT inverter Key switch position AUTO Selector switch (Positions: REV - OFF - FWD) PTC thermistor monitoring Fan Breaking resistance Two sensor inputs through M12 sockets (max. 150 mA) for quick stop and interlocked manual operation Brake chopper with braking resistance for dynamic braking 1 potentiometer speed STO (Safe Torque Off) 4-quadrant operation possible
Degree of protection Electromagnetic compatibility	3 fixed speeds IP65 NEMA 12 1st and 2nd environments (according to EN 61800-3)
Overvoltage category	
Product category	Speed controller
Protocol	AS-Interface profile cable: S-7.4 for 31 modules
	ASI

Waxoo Image: Source of the control of the		
System configuration rays Image and the start strange system (11 × 5 second) and accord system (11 × 5 second) in the system in the system (11 × 5 second) in the system in the system (11 × 5 second) in the system in the system (11 × 5 second) in the system in the system (11 × 5 second) in the system in the system (11 × 5 second) in the system in the system (11 × 5 second) in the system in the system (11 × 5 second) in the system in the system (11 × 5 second) in the system in the system (11 × 5 second) in the sy	Radio interference class	conditions. External radio interference suppression filters (optional) may be necessary.
Muncing parties Partial status Partial status Partial status Partial status Muncing parties Partial status Partial status Partial status Partial status Status Partial status Partial status Partial status Partial status Muncing parties Partial status Partial status Partial status Partial status Muncing parties Partial status Partial status Partial status Partial status Autor status Partial status Partial status Partial status Partial status Autor status Partial status Partial status Partial status Partial status Autor status Partial status Partial status Partial status Partial status Autor status Partial status Partial status Partial status Partial status Autor status Partial status Partial status Partial status Partial status Autor status Partial status Partial status Partial status Partial status Autor status Partial status Partial status Partial status Partial status Autor status Partial status Partial status Partial status Partial status Autor status Partial	Rated impulse withstand voltage (Uimp)	2000 V
Shock resistance Image: Shock resistance File Machanical According to ECCR 0008-2.0, 11 ms. Hold selected at tack ms. To Watch resistance According to ECCR 0008-2.0, 11 ms. Hold selected at tack ms. To Watch resistance According to ECCR 0008-2.0, 11 ms. Hold selected at tack ms. To Watch resistance According to ECCR 0008-2.0, 11 ms. Hold selected at tack ms. To Watch resistance According to ECCR 0008-2.0, 11 ms. Hold selected at tack ms. To Watch resistance According to ECCR 0008-2.0, 11 ms. Hold selected at tack ms. To Watch resistance According to ECCR 0008-2.0, 11 ms. Hold selected at tack ms. To Watch resistance According to ECCR 0008-2.0, 11 ms. Hold selected at tack ms. To Watch resistance According to ECCR 0008-2.0, 11 ms. Hold selected at the Proceeding target tark me. To Watch resistance According to ECCR 0008-2.0, 11 ms. Hold selected at the Proceeding target tark me. To Watch resistance According to ECCR 0008-2.0, 11 ms. Hold selected at the Proceeding target tark me. To Watch resistance According target tark me. To Watch resistance According target targe	System configuration type	Phase-earthed AC supply systems are not permitted.
Initial and a per data Initial and a per data Wardin Restances 161, Anglingta trackation fragenery in a calcuration Restances 451, Anglingta trackation fragenery Alluade Initial Control of Statuses 10 - 100 ft Control of Control of Statuses 10 - 100 ft Control of Control of Control Control Of Control Contro	Mounting position	Vertical
Bestmarte %K, Amplitud 0.5 mm Restmarte %K, Amplitud 0.5 mm Alteria Ambet storage in the storage interacture - max Ambet storage interactur	Shock resistance	15 g, Mechanical, According to IEC/EN 60068-2-27, 11 ms, Half-sinusoidal shock 1 ms, 1000 shocks per shaft
Anbier toperature - mix Image from out 15 getformance enduction per 100 m Anbier toperature - max Image from out 15 getformance enduction per 100 m Anbier toperature - max Image from out 15 getformance enduction per 100 m Image from out 1 = max Image from out 15 getformance enduction per 100 m Image from out 1 = max Image from out 15 getformance enduction per 100 m Image from out 1 = max Image from out 15 getformance enduction per 100 m Image from out 1 = max Image from out 15 getformance enduction per 100 m Image from out 1 = max Image from out 15 getformance enduction per 100 m Image from out 1 = max Image from out 15 getformance enduction per 100 m Image from out 1 = max Image from out 15 getformance enduction per 100 m Image from out 1 = max Image from out 15 getformance enduction per 100 m Image from out 1 = max Image from out 15 getformance enduction per 100 m Image from out 1 = max Image from out 15 getformance enduction per 100 m Image from out 1 = max Image from out 15 getformance enduction per 100 m Image from out 1 = max Image from out 15 getformance enduction per 100 m Image from out 1 = max Image from out 15 getformance enduction per 100 m Image from out 1 = max Image from out 15 getformance enduction per 100 m Image from out 1 = max Image from out 15 getformance enduction per 100 m <td>Vibration</td> <td>Resistance: 6 Hz, Amplitude 0.15 mm Resistance: According to IEC/EN 60068-2-6</td>	Vibration	Resistance: 6 Hz, Amplitude 0.15 mm Resistance: According to IEC/EN 60068-2-6
Anhiest coperating temperature - max Image temperature - max Image temperature - max Anhiest corge temperature - max Image temperature - max Image temperature - max Dimate provide Image temperature - max Image temperature - max Dimate provide Image temperature - max Image temperature - max Dimate provide Image temperature - max Image temperature - max Dimate provide Image temperature - max Image temperature - max Dimate provide Image temperature - max Image temperature - max Dimate provide Image temperature - max Image temperature - max Dimate provide Image temperature - max Image temperature - max Dimate provide Image temperature - max Image temperature - max Dimate provide Image temperature - max Image temperature - max Dimate provide Image temperature - max Image temperature - max Bill provide Image temperature - max Image temperature - max Hat dissipation at current like t180% overload Image temperature - max Image temperature - max Image temperature - max Image temperature - max Image temperature - max Image temperature - max Image temperature - max Image temperature - max Image temperature - max Image temperature - max	Altitude	
Anisent storage serperature - mix 44°C Anisent storage semperature - max 55% no contensation Dimais proofing 5% no contensation Delay time Adjustable, motor, man circuit Delay time 6% No contensation Delay time 6% No contensation Efficiency 6% No contensation Hat dissipation at current/speed 6% No contensation Mains value dissipation at current/speed 6% No contensation Mains current dissipation at current/speed 6% No contensation Instructure time at 900 PFE - max 6% No current and 9% speed Mains value disference 78 A Mains value disference 78 Machine and 9% speed Mains value disference 78 Machine	Ambient operating temperature - min	-10 °C
Antional surgers tomporture - max Diversition Diversition Diversition Diversition Signature - notionessation in accordence with ECEN 5078 Current limitation Diversition Adjustable, motor, main circuit Diversition Adjustable, motor, main circuit Diversition Diversition Signature - notion, Bindeday Diversition Signature - Notion, Bindeday Elliciency Image: Signature - notion, Bindeday Signature - Notion, Bindeday Signature - Notion, Bindeday Hait dissipation at current/speed Signature - Notion, Bindeday Signature - Notion, Bindeday Input current LN at 150% overhoad Image: Signature - Notion, Bindeday Signature - Notion, Bindeday Input current LN at 150% overhoad Image: Signature - Notion, Bindeday Signature - Notion, Bindeday Input current LN at 150% overhoad Image: Signature - Notion, Bindeday Signature - Notion, Bindeday Input current LN at 150% overhoad Image: Signature - Notion, Bindeday Signature - Notion, Bindeday Input current LN at 150% overhoad Image: Signature - Notion, Bindeday Signature - Notion, Bindeday Input current LN at 150% overhoad Image: Signature - Notion, Bindeday Signature - Notion, Bindeday Input current LN at 150% overhoad Image: Signature - Notion, Bindeday Signature - Notion, Bindeday Mains voltage: min Image: Signature	Ambient operating temperature - max	40 °C
Antional surgers tomporture - max Diversition Diversition Diversition Diversition Signature - notionessation in accordence with ECEN 5078 Current limitation Diversition Adjustable, motor, main circuit Diversition Adjustable, motor, main circuit Diversition Diversition Signature - notion, Bindeday Diversition Signature - Notion, Bindeday Elliciency Image: Signature - notion, Bindeday Signature - Notion, Bindeday Signature - Notion, Bindeday Hait dissipation at current/speed Signature - Notion, Bindeday Signature - Notion, Bindeday Input current LN at 150% overhoad Image: Signature - Notion, Bindeday Signature - Notion, Bindeday Input current LN at 150% overhoad Image: Signature - Notion, Bindeday Signature - Notion, Bindeday Input current LN at 150% overhoad Image: Signature - Notion, Bindeday Signature - Notion, Bindeday Input current LN at 150% overhoad Image: Signature - Notion, Bindeday Signature - Notion, Bindeday Input current LN at 150% overhoad Image: Signature - Notion, Bindeday Signature - Notion, Bindeday Input current LN at 150% overhoad Image: Signature - Notion, Bindeday Signature - Notion, Bindeday Input current LN at 150% overhoad Image: Signature - Notion, Bindeday Signature - Notion, Bindeday Mains voltage: min Image: Signature	Ambient storage temperature - min	-40 °C
Dimatic proofing 55 k, no condensation in accordance with IECEN 50176 Durent limitation 616 65 A motic, main crucit Delay time 610 ms, Df delay Efficiency 610 ms, Df delay Efficiency 610 ms, Df delay Ital dissipation at current/speed 610 ms, Df delay Name 610 ms, Df delay Ital dissipation at current/speed 610 ms, Df delay Ital dissipation at current/speed 610 ms, Df delay Ital current limitation 610 ms, Df delay Ital current limitation 610 ms, Df delay Ital current distribution 610 ms, Df delay Mains current distribution 610 ms, Df delay Mains current distribution 610 ms, Df delay Mains valtage inarx 610 ms, Df delay		
Delay time 6:85 A, notor, min circuit Delay time 10m, 0H-delay Efficiency 8% (n) Hat dissipation at current/speed 8% (n) Bit dissipation at current/speed 8% (n) Input current LN at S9% vortead 8% (n) Leakage current and offs speed 8% (n) Mains current (N) 90% speed Mains current distortion 90% speed Mains voltage - min 8% (n) Mains voltage - min 8% (n) Mains voltage - min 8% (n) Mains voltage - min 90% Speed Mains voltage - min 8% (n) Mains voltage - min 8% (n) <td></td> <td>< 95 %, no condensation</td>		< 95 %, no condensation
Efficiency I on goin coleay Efficiency I on goin coleay Efficiency I on goin colean Hard sissipation at current/speed I on goin colean at sissipation at current/speed I on goin colean Input current IIA tris/s overload I on goin colean Input current IIA tris/s overload I on goin colean Mains current digonom I on goin colean Mains outgo- max I on goin colean Opurt frequency- max I on goin colean Opurt frequency - max I on goin colean Opurt frequency - max I on goin colean Opurt freque	Current limitation	
Hat dissipation at current/speed Is Sur at 25% current and 0% speed Sal W at 25% current and 0% speed Sal W at 25% current and 0% speed Input current ILN at 150% overload Image: Sal W at 25% current and 0% speed Lakage current at ground IPE - max Image: Sal W at 25% current and 0% speed Mains current distortion Image: Sal W at 00% current and 0% speed Mains switch-on frequency Image: Sal W at 00% current and 0% speed Mains switch-on frequency Image: Sal W at 00% current and 0% speed Mains outge - max Image: Sal W at 00% current and 0% speed Mains outge - max Image: Sal W at 00% current and 0% speed Mains outge - max Image: Sal W at 00% current and 0% speed Mains outge - max Image: Sal W at 00% current and 0% speed Mains outge - max Image: Sal W at 00% current and 0% speed Mains outge - max Image: Sal W at 00% Operating mode Image: Sal W at 00% Operating mode Image: Sal W at 00% Dutp trequency - max Image: Sal W at 00% Dutp trequency - max Image: Sal W at 00% Rated memory: max Image: Sal W at 00% Dutp trequency - min Image: Sal W at 00% Rated memory: max <td< td=""><td>Delay time</td><td></td></td<>	Delay time	
Signer and Si	Efficiency	98 % (η)
Lakage current at ground IPE - max 35 mA Mains current distortion 20 % Mains switch-on frequency Maximum of one time every 60 seconds Mains voltage - max 480 V Mains voltage - min 380 - 480 V (-10 %/+10 %, at 50/60 Hz) Mains voltage tolerance 380 - 480 V (-10 %/+10 %, at 50/60 Hz) Operating mode 500 Hz Output frequency - max 500 Hz Output frequency - min 500 Hz Output frequency - max 500 Hz Output frequency - min 142 CP Overload current 143 Store Store Store Store Control (SLV) Verload current 127 A Rated frequency - max 56 Hz Rated frequency - max 56 Hz Rated frequency - max 56 Hz Rated operational outrent (le) 51 Store	Heat dissipation at current/speed	53.8 W at 25% current and 50% speed 60.9 W at 50% current and 0% speed 64 W at 50% current and 90% speed 65.4 W at 50% current and 50% speed 85.1 W at 100% current and 0% speed 94 W at 100% current and 50% speed
Main current distrition 20 % Main switch-on frequency Maximum of one time every 60 seconds Mains voltage - max 40 V Mains voltage - min 380 - 480 V (-10 %/+10 %, at 50/60 Hz) Operating mode Synchronous reluctance motors Operating mode Synchronous reluctance motors Output frequency - max Synchronous reluctance motors Output frequency - min 046 C Output frequency - min 047 C Output frequency - min 142 C Output frequency - min 142 C Output frequency - min 142 C Output frequency - max 500 Hz Rated frequency - max 510 F Rated frequency - max 510 F Rated operational current (le) 514 F Rated operational current (le) 515 A at 150% overload (at an operating frequency of 8 kHz and an ambient air emperature of +40 °C) Rated operational voltage 416 C Rated operational over at 380/400 V, 50 Hz, 3-phase 416 C Rated operational voltage 142 (Frequency resolution, setpoint value) Rated operational voltage 1142 (Frequency resolution, setpoint value) Rated operational voltage <td< td=""><td>Input current ILN at 150% overload</td><td>7.8 A</td></td<>	Input current ILN at 150% overload	7.8 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 50 + 480 V (-10 %, +10 %, at 50/60 Hz) Operating mode Synchronous reluctance motors Synchronous reluctance motors BLD consoless vector control (SLV) U/ (control W And LSPM motors BLD controls Output frequency - max 500 Hz Output frequency - min 500 Hz Overload current Dated durrent Lt at 50% overload 614 Rated operational output frequency - min 500 Hz Output frequency - max 614 2 Rated operational current (le) 614 2 Rated operational current (le) 614 2 Rated operational output (le) 54 Hz Rated operational output (le) 414 W Rated operational output (le) 61 Hz Rated operational voltage 60 Hz Rated operational voltage 61 Hz Rated operational voltage 61 Hz Rated operational voltage 60 VAC, 3-phase 400 VAC, 3-phase 400 VA	Leakage current at ground IPE - max	3.5 mA
Mains voltage - max 480 V Mains voltage tolerance 380 V Operating mode 380 - 480 V (-10 %/+10 %, at 50/60 Hz) Operating mode Synchronous reluctance motors sensorless vector control (SLV) U// control Output frequency - max 500 Hz Output frequency - min 60 Hz Overload current 127 A Rated frequency - max 66 Hz Rated operational current (le) 65 Hz Rated operational power at 380/400 V, 50 Hz, 3-phase 66 Hz Rated operational power at 380/400 V, 50 Hz, 3-phase 64 WV Rated operational voltage 40 V C, 3-phase Resolution 40 V AC, 3-phase Resolution 01 HZ (Frequency resolution, setpoint value) Starting current (Hig) Overload, for 2 seconds every 20 seconds Power section 01 HZ (Frequency resolution, setpoint value)	Mains current distortion	120 %
Mains voltage - min 380 V Mains voltage tolerance 380 - 480 V (-10 %/+10 %/ at 50/60 Hz) Operating mode Synchronous reluctance motors Sensorless vector control (SLV) Synchronous reluctance motors Output frequency - max 500 Hz Output frequency - min 0 Hz Overload current IL at 150% overload 760 Se every 500 S Overload current IL at 150% overload 127 A Rated operational power at 380/400 V, 50 Hz, 3-phase 66 Hz Rated operational power at 380/400 V, 50 Hz, 3-phase 4 KW Rated operational power at 380/400 V, 50 Hz, 3-phase 4 KW Resolution 00 V AC, 3-phase Resolution 01 Hz (Frequency resolution, setpoint value) Resolution 01 Hz (Frequency resolution, setpoint value)	Mains switch-on frequency	Maximum of one time every 60 seconds
Mains voltage tolerance 30 - 480 V (-10 %/+10 %, at 50/60 H2) Operating mode Synchronous reluctance motors Sensorless vector control (SLV) U/r control BLDC motors Output frequency - max 500 H2 Output frequency - min 0 H2 Overload current 0 H2 Overload current Lat 150% overload 767 60 s every 600 s Rated frequency - min 127 A Rated frequency - max 61 H2 Rated operational power at 380/400 V, 50 Hz, 3-phase 4 KW Rated operational power at 380/400 V, 50 Hz, 3-phase 4 KW Rated operational power at 380/400 V, 50 Hz, 3-phase 4 KW Rated operational power at 380/400 V, 50 Hz, 3-phase 1 H2 (Frequency resolution, setpoint value) Rated operational power at 380/400 V, 50 Hz, 3-phase 0 N/ 40, 3-phase Rated operational power at 380/400 V, 50 Hz, 3-phase 0 N/ 40, 3-phase Rated operat	Mains voltage - max	480 V
Mains voltage tolerance 380 - 480 V (-10 %/+10 %, at 50/60 Hz) Operating mode Synchronous reluctance motors Sensorless vector control (SLV) Synchronous reluctance motors Output frequency - max 500 Hz Output frequency - min 0Hz Overload current At 40 °C Overload current Lat 150% overload 240 °C Rated frequency - min 240 °C Rated frequency - max 61 Hz Rated operational current (le) 8.5 At 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 4.W Rated operational power at 380/400 V, 50 Hz, 3-phase 4.W Rated operational power at 380/400 V, 50 Hz, 3-phase 0.1 Hz (Frequency resolution, setpoint value) Rated operational power at 380/400 V, 50 Hz, 3-phase 0.1 Hz (Frequency resolution, setpoint value)	Mains voltage - min	380 V
Operating mode Synchronous reluctance motors Sensorless vector control (SLV) Ur control Nand LSPM motors BLDC motors Output frequency - max 500 Hz Output frequency - min H2 Overload current H40°C For 60's every 60's Overload current Lat 150% overload H2 Rated frequency - min H2 Rated frequency - max H2 Rated frequency - min H2 Rated frequency - min H2 Rated frequency - min H2 Rated operational current (le) H2 Rated operational current (le) H2 Rated operational power at 380/400 V, 50 Hz, 3-phase H2 Rated operational voltage H2 <	-	
Output frequency - min Image: Constraint of the constrai	•	Synchronous reluctance motors Sensorless vector control (SLV) U/f control PM and LSPM motors
Overload current At 40 °C Overload current IL at 150% overload 12.7 A Rated frequency - max 66 Hz Rated frequency - min 55 A at 150% overload (at an operating frequency of 8 kHz and an ambient air emperature of +40 °C) Rated operational current (le) 8.5 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 4.WW Rated operational voltage 4.WW Rated operational voltage 0.0 V AC, 3-phase Resolution 0.1 Hz (Frequency resolution, setpoint value) Starting current - max 00%, H, max. starting current (High Overload), For 2 seconds every 20 seconds	Output frequency - max	500 Hz
Image: Construct of the second of the sec	Output frequency - min	0 Hz
Rated frequency - max 66 Hz Rated frequency - min 56 Hz Rated operational current (le) 55 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 4 kW Rated operational voltage 400 V AC, 3-phase Resolution 0.1 Hz (Frequency resolution, setpoint value) Starting current - max 00%, H, max. starting current (High Overload), For 2 seconds every 20 seconds e	Overload current	
Rated frequency - min 45 Hz Rated operational current (le) 5.5 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 4 kW Rated operational voltage 400 V AC, 3-phase at 00 V AC,	Overload current IL at 150% overload	12.7 A
Rated operational current (Ie) Image: Constraint of the	Rated frequency - max	66 Hz
Rated operational power at 380/400 V, 50 Hz, 3-phase A W Rated operational voltage 4 kW Rated operational voltage 00 V AC, 3-phase 480 V AC, 3-phase Resolution 0.1 Hz (Frequency resolution, setpoint value) Starting current - max 00 %, IH, max. starting current (High Overload), For 2 seconds every 20 seco	Rated frequency - min	45 Hz
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	Rated operational current (Ie)	
Resolution 0.1 Hz (Frequency resolution, setpoint value) Starting current - max 0.20 %, IH, max. starting current (High Overload), For 2 seconds every 20 seconds Power section	Rated operational power at 380/400 V, 50 Hz, 3-phase	4 kW
Starting current - max 200 %, IH, max. starting current (High Overload), For 2 seconds every 20 seconds Power section	Rated operational voltage	
Power section	Resolution	0.1 Hz (Frequency resolution, setpoint value)
Supply frequency 50/60 Hz	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
Assigned motor power at 460/480 V, 60 Hz, 3-phase	5 HP
Braking current	\leq 0.6 A (max. 6 A for 120 ms), Actuator for external motor brake
Braking torque	Adjustable to 100 % (I/Ie), DC - Main circuit
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)
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	C3 \leq 25 m, maximum motor cable length C2 \leq 5 m, maximum motor cable length C1 \leq 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	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 b observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must bobserved.
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)

Electric engineering, automation, process control engineering / Electrical drive / Sta	tic 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 voltage	V	500

Nominal output current I2N	А	8.5
Max. output at quadratic load at rated output voltage	kW	4
Max. output at linear load at rated output voltage	kW	4
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	195
- Coput		100