## DATASHEET - RASP5-5404A31-4120010S1

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, STO (Safe Torque Off)



Part no.

RASP5-5404A31-4120010S1 198811

Product name	Eaton Moeller® series Rapid Link Speed controller
Part no.	RASP5-5404A31-4120010S1
EAN	4015081968695
Product Length/Depth	157 millimetre
	270 millimetre
Product height	220 millimetre
Product width	
Product weight	3.42 kilogram
Certifications	RoHS IEC/EN 61800-5-1 UL 61800-5-1 UL approval CE
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 junction 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 Diagnostics and reset on device and via AS-Interface Parameterization: drivesConnect Parameterization: Fieldbus
Fitted with:	IGBT inverter Key switch position OFF/RESET Key switch position HAND Four fixed speeds Internal DC link Two sensor inputs through M12 sockets (max. 150 mA) for quick stop and interlocked manual operation Selector switch (Positions: REV - OFF - FWD) PTC thermistor monitoring Thermo-Click with safe isolation Key switch position AUTO Control unit PC connection
Functions	For actuation of motors with mechanical brake STO (Safe Torque Off)
Degree of protection	NEMA 12 IP65
Electromagnetic compatibility	1st and 2nd environments (according to EN 61800-3)
Overvoltage category	
Product category	Speed controller
Protocol	ASI
	AS-Interface profile cable: S-7.4 for 31 modules
Radio interference class	C1: 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 necessary.
Rated impulse withstand voltage (Uimp)	2000 V
System configuration type	Center-point earthed star network (TN-S network) Phase-earthed AC supply systems are not permitted. AC voltage

Supply frequency Power section   Switching 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 Image: Comparison of the section o		
Shock resistion Interfact Scoreing in ECRN URBE 2.7.1 mp. bell-sension is accommentation in the interfact scoreing in ECRN URBE 2.7.1 mp. bell-sension is accommentation in the interfact scoreing in ECRN URBE 2.7.1 mp. bell-sension is accommentation in the interfact scoreing in ECRN URBE 2.7.1 mp. bell-sension is accommentation in the interfact scoreing in ECRN URBE 2.7.1 mp. bell-sension is accommentation in the interfact scoreing in ECRN URBE 2.7.1 mp. bell-sension is accommentation in the interfact scoreing interfact score	Mounting position	Vertical
Wakes     Image: Control water product       Attack     Persistence - 2000 (Second Second S		
Allende Aussetter Resistere 10. 19.05, Schulter translite requestion as exclusion   Allende Max 2001   Allende gestimperinter - max Max 2001   Allende statup temperatur - max Max 2001   Allende statup temperatur - max Max 2001   Diration teoring marker - max Max 2001   Diration teoring temperatur - max Max 2001   Max 2002 Max 2001 <td< td=""><td>Shock resistance</td><td></td></td<>	Shock resistance	
Anbier togen trage and a set of a set o	Vibration	Resistance: 10 - 150 Hz, Oscillation frequency Resistance: 6 Hz, Amplitude 0.15 mm
Ashiottor operating supportune - max Image: Starge targe starge - min   Ashiottor darge targe starge - min - 0 ° C   Carbottor darge targe starge - min - 0 ° C   Carbottor darge targe starge - min - 0 ° C   Carbottor darge targe starge - min - 0 ° C   Carbottor darge targe starge - min - 0 ° C   Dely fine - 0 ° C   Efficiency - 0 ° C   Finishing - min - 0 ° C   Finishing - mi	Altitude	
Ambient storage immunor ture min 40 °C   Ambient storage immunor ture main comparison 70 °C   Ambient storage immunor ture main comparison 70 °C   Current limitation Alignation mater main comparison   Delay inc Class Storage main comparison   Delay inc Class Storage main comparison   Ifficiency Class Storage main comparison   Head dissipation at current/lyseed Storage main comparison   Ifficiency Class Storage main comparison   Head dissipation at current/lyseed Storage main comparison   Industry comparison Storage	Ambient operating temperature - min	-10 °C
Anihot starge temperature - max. Pr0   Dimain produing SS, we condensation in social status in tracel   Delay fine SS, we condensation in social status in tracel   Delay fine SS, we condensation in creat   Delay fine SS, we condensation in social status in tracel   Delay fine SS, we condensation in creat   Efficiency SS, we condensation in creat   Hard dissipation at current/goed SS, we condensation in social status in social status in tracel   SS, we condensation in creat SS, we condensation in social status in tracel   Indication at Current/goed SS, we condensation in social status in tracel   Indication at SS, we condensation in social status in tracel SS, we condensation in social status in tracel   Indication at SS, we condensation in social status in tracel SS, we condensation in SS, weed   Advected at SS, we condensation in SS, weed SS, we condensation in SS, weed   Mass contract disortion SS, we condensation in SS, weed   Mass contract disortion SS, we condensation in SS, weed   Mass contract disortion SS, we condensation in SS, weed   Mass contract disortion SS, we condensation in SS, weed   Mass contract disortion SS, we condensation in SS, weed   Mass contract disortion SS, we condensation in SS, weed   Mass contract din trade status in SS, weed <t< td=""><td>Ambient operating temperature - max</td><td>40 °C</td></t<>	Ambient operating temperature - max	40 °C
Dimate proving Site and Sit	Ambient storage temperature - min	-40 °C
Intercontinue with ECEN SUT2       Current linitation     Adjustable, motor, min circuit       Darks     Adjustable, motor, min circuit       Distribution     State with ECEN SUT2       Efficiency     State with ECEN SUT2       Heat dissipation at current/speed     State with ECEN SUT2       State dissipation at current/speed     State with ECEN SUT2       Ladge current at ground PE - max     State with ECEN Support       Ladge current at ground PE - max     State with ECEN Support       Mains values - min     State With With With With With With With With	Ambient storage temperature - max	70 °C
Delay time   0 - 5 - 5 A, motor, mainto circuit     Delay time   10 ms, On-daiay     Efficiency   9 % hj     Hast dissipation at surrentlyped   So So W 25% current and 0% speed 42 % VES% current ontors 42 % VES% current ontor	Climatic proofing	
Delay time   0 - 5 - 5 A, motor, mainto circuit     Delay time   10 ms, On-daiay     Efficiency   9 % hj     Hast dissipation at surrentlyped   So So W 25% current and 0% speed 42 % VES% current ontors 42 % VES% current ontor	Current limitation	Adjustable motor main circuit
Efficiency   Implicit on the speed     Efficiency   9 % ig)     Efficiency   9 % ig)     Instantispation at current/speed   Sissessi Sis		
Het dissipation at current/speed   So S N at 25% current and 0% speed     August at 25% current and 0% speed   So S N at 25% current and 0% speed     Input current II. Nat 150% overfoad   So S N at 25% current and 0% speed     Leakage current at ground IPE - max   So S N at 25% current and 0% speed     Mains current at dround IPE - max   So S N at 10% current and 0% speed     Mains current distorion   So N At 20% current and 0% speed     Mains worksge - max   Mains worksge - max     Mains worksge - min   So - 400 V (-10 %)-19 %, at 5000 fr)     Mains worksge - min   So - 400 V (-10 %)-19 %, at 5000 fr)     Operating mode   So - 400 V (-10 %)-19 %, at 5000 fr)     Operating mode   So - 400 V (-10 %)-19 %, at 5000 fr)     Output frequency - max   So - 400 V (-10 %)-19 %, at 5000 fr)     Operating mode   So - 400 V (-10 %)-19 %, at 5000 fr)     Output frequency - min   So - 400 V (-10 %)-19 %, at 5000 fr)     Output frequency - min   So - 400 V (-10 %)-19 %, at 5000 fr)     Output frequency - min   So - 400 V (-10 %)-19 %, at 5000 fr)     Output frequency - min   First - max     Bated frequency - min   So - 400 V (-10 %)-19 % at 5000 fr     Bated frequency - min   So A A A     Bated	Delay time	
Bit Wat 2% current and 2% speed     42 Wat 3% current and 2% speed     42 Wat 43% current and 2% speed     42 Wat 43% current and 2% speed     10 per current LN at 150% overload     Leakage current at ground PE - max     Mains current distorion     Mains current distorion     Mains outgo - max     Mains voltage outrent at ground PE - max     Mains voltage outrent at ground PE - max     Mains voltage outrent distorion     Mains voltage outrent at ground PE - max     Mains voltage outrent distorion     Mains voltage outrent distorion     Mains voltage outrent distorion     Operating mode     Distorion     Output frequency - max     Atta distorion     Rated operation prover at 380400 V, 50 Hz, 3 phase     Rated operation prover at 380400 V, 50 Hz, 3 phase     Rated operational power at 380400 V, 50 Hz, 3 phase     Rated operational power at 380400 V, 50 Hz, 3 phase     Rated operational power at 380400 V, 50 Hz, 3 phase     Rated operational power at 380400 V, 50 Hz, 3	Efficiency	98 % (ŋ)
Leakage current at ground IPE - max   55 mA     Mains current distortion   120 %     Mains switch-on frequency   480 V     Mains voltage - max   480 V     Mains voltage - max   800 V     Mains voltage tolerance   30 - 480 V (-10 %/-10 %, at 50%0 Hz)     Operating mode   800 - 480 V (-10 %/-10 %, at 50%0 Hz)     Operating mode   800 - 480 V (-10 %/-10 %, at 50%0 Hz)     Output frequency - max   800 - 800 V (-10 %/-10 %, at 50%0 Hz)     Output frequency - max   500 Hz     Output frequency - max   0 Hz     Rated frequency - max   2 HZ     Rated frequency - max   6 Hz     Rated frequency - max   5 A st 15% overload (at an operating frequency of 8 KHz and an ambient air temperature of 440 °C)     Rated operational current (Hg)   5 A st 15% overload (at an operating frequency of 8 KHz and an ambient air temperature of 440 °C)     Starting current - max   6 HZ   1 Hz (Frequenc	Heat dissipation at current/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 distrition   100 k     Mains switch-on frequency   Mains witch-on frequency     Mains svitage - max   480 V     Mains svitage - min   380 V     Mains svitage - min   380 - 480 V (-10 %, +10 %, at 50 % Hz)     Operating mode   380 - 480 V (-10 %, +10 %, at 50 % Hz)     Dutput frequency - max   500 Hz     Output frequency - min   0 Hz     Overload current   0 Hz     Overload current   141 50% sverload     Rated frequency - max   64 FZ     Overload current (le)   84 A     Rated frequency - min   64 FZ     Overload current (le)   84 A     Rated frequency - max   64 FZ     Rated operational current (le)   64 FZ     Rated operational current (le)   64 FZ     Rated operational power at 380,400 V, 50 Hz, 3-phase   64 FZ     Rated operational voltage   64 FZ     Supply frequency   50 KHz, 4-3 skHz adjustable, FWMA, Power section, Main circuit     Supply frequency   50 KHz, 4-3 skHz adjustable, FWMA, Power section, Main circuit     Sating current - max   50 KHz, 4-3 skHz adjustable, FWMA, Power section, Main circuit     Supply frequency   <	Input current ILN at 150% overload	5.3 A
Mains witch-on frequency   Maximum of one time every 60 seconds     Mains voltage - max   400 V     Mains voltage tolerance   300 V     Operating mode   Seconds we tor control (SUV) UF control     Output frequency - max   BLOC motors     Output frequency - min   0Hz     Output frequency - min   0Hz     Overload current IL at 150% overload   6Hz     Rated frequency - max   6Hz     Rated operational current (le)   6Hz     Surphy frequency   6Hz     Surphy frequency   6Hz     Rated operational power at 380/400 V, 50 Hz, 3-phase   6Hz     Rated operational current (le)   6Hz     Surphy frequency   6Hz     Surphy frequency   6Hz	Leakage current at ground IPE - max	3.5 mA
Mains voltage - max   480 V     Mains voltage - min   380 V     Mains voltage tolerance   380 - 480 V (-10 %/+10 %, at 50/60 Hz)     Operating mode   BLDC motors     Samorless vector control (SLV)   V/ control     Uptort frequency - max   600 Hz     Output frequency - min   10     Overload current   10 Hz     Overload current   600 Hz     Rated frequency - min   10     Overload current   600 Hz     Rated frequency - min   600 Hz     Overload current Lat 150% overload   61 Lz     Rated frequency - min   61 Lz     Rated frequency - min   61 Lz     Rated frequency - min   61 Lz     Rated operational current (le)   55 Å At 150% overload (st an operating frequency of 8 Hz and an ambient air temperature of +40 °C)     Rated operational voltage   61 Lz     Rated operational voltage   61 Lz     Supply frequency   61 Lz     Supply frequency   60 Hz     Supply frequency   61 Hz     Supply frequency   61 Hz     Supply frequency   61 Hz     Supply frequency   61 Hz <td>Mains current distortion</td> <td>120 %</td>	Mains current distortion	120 %
Mains voltage min   380 V     Mains voltage tolerance   380 - 480 V (-10 %, at 50/60 Hz)     Operating mode   Sub Control % Sub	Mains switch-on frequency	Maximum of one time every 60 seconds
Mains voltage tolerance   30 - 440 V (-10 %/-11 %, at 50/60 Hz)     Operating mode   BLC motors Sensories sector control (SLV) V/ f control Synchronous reluctance motors PM and LSPM motors     Output frequency - max   00 Hz     Output frequency - min   0 Hz     Overload current   6 Hz     Rated frequency - max   6 Hz     Rated operational current (le)   6 Hz     Rated operational current (le)   0 V NA (-3 phase     Rated operational power at 380/400 V, 50 Hz, 3-phase   0 V NA (-3 phase)     Rated operational voltage   0 V NA (-3 phase)     Starting current (lei)   0 V NA (-3 phase)     Supply frequency   0 V NA (-3 phase)     Supply frequency   0 V NA (-3 phase)     Supply frequency   6 Hz     Starting current (leigh Overload)   6 Hz     Supply frequency   6 Hz     Supply frequency   0 V NA (-3 phase)     Supply frequency   0 V NA (-3 phase)     Supply frequency   6 Hz	Mains voltage - max	480 V
Operating mode   BLDC motors     Service control (SLV)   Service control (SLV)     Yuchtronous reluctance motors   South A     Output frequency - max   South A     Output frequency - min   OHz     Overload current   For 60 severy 600 s     Rated frequency - max   South A     Rated frequency - min   South A     Rated operational current (Ie)   South A     Rated operational current (Ie)   South A     Rated operational voltage   South A     Starting current - max   South A     Supply frequency   South A     Supply frequency   South A     Assigned motor power at 460/400 V, 50 Hz, 3-phase   South A     Supply frequency   South A     Assigned motor power at 460/400 V, 50 Hz, 3-phase   South A     Supply frequency   South A     Assigned motor power at 460/400 V, 50 Hz, 3-phase   South H     Supply f	Mains voltage - min	
Output frequency - max   500 Hz     Output frequency - min   0 Hz     Overload current   6 K A     Overload current Llat 150% overload   6 K A     Rated frequency - max   6 K A     Rated frequency - min   6 K A     Rated frequency - max   6 K A     Rated frequency - min   6 K A     Rated frequency - max   6 K A     Rated frequency - min   6 K A     Rated operational current (le)   500 Hz     Rated operational current (le)   6 K A     Rated operational current (le)   6 K A     Rated operational current (le)   6 K A     Rated operational voltage   6 K A     Rated operational voltage   0 V AC, 3-phase     Rated operational voltage   0 K A     Starting current - max   0 K A     Supply frequency   6 K K A<	-	
Output frequency - min   0 Hz     Overload current   For 60 s every 600 s At 40 °C     Overload current L at 150% overload   8.4 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 temperature of +40 °C)     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   2.2 kW     Rated operational voltage   0.1 Hz (Frequency resolution, setpoint value)     Starting current - max   0.060 Hz     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   3 HP     Braking current   5.6 A (max. 6 A for 120 ms), Actuator for external motor brake	Operating mode	Sensorless vector control (SLV) U/f control Synchronous reluctance motors
Overload current   For 60 s every 600 s     Overload current IL at 150% overload   84 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 temperature of +40 °C)     Rated operational current (le)   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   22 kW     Rated operational voltage   01 Hz (Frequency resolution, setpoint value)     Starting current - max   01 Hz (Frequency resolution, setpoint value)     Supply frequency   01 Hz (Frequency resolution, setp		500 Hz
Image: Provision of the state of the st		
Rated frequency - max   66 Hz     Rated frequency - min   45 Hz     Rated operational current (le)   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   0.1 Hz (Frequency resolution, setpoint value)     Starting current - max   0.1 Hz (Frequency resolution, setpoint value)     Supply frequency   0.0 %, IH, max. starting current (High Overload), For 2 seconds every 20 seco	Overload current	
Rated frequency - min   45 Hz     Rated operational current (le)   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   22 kW     Rated operational voltage   400 V AC, 3-phase     Rated operational voltage   01 Hz (Frequency resolution, setpoint value)     Starting current - max   01 Hz (Frequency resolution, setpoint value)     Supply frequency   00 V AC, 3-phase     Switching frequency   01 Hz (Frequency resolution, setpoint value)     Supply frequency   01 Hz (Frequency resolution, setpoint value)     Assigned motor power at 460/480 V, 60 Hz, 3-phase   01 Hz (Frequency resolution, setpoint value)     Braking current   84Hz   130 Hz     Braking current   84Hz   130 Hz	Overload current IL at 150% overload	
Rated 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-phase   2.2 kW     Rated operational voltage   400 V AC, 3-phase     Resolution   0.1 Hz (Frequency resolution, setpoint value)     Starting current - max   0.0 W, H, max. starting current (High Overload), For 2 seconds every 20 secon	Rated frequency - max	66 Hz
Rated operational power at 380/400 V, 50 Hz, 3-phase   2.2 kW     Rated operational voltage   2.2 kW     Rated operational voltage   400 V AC, 3-phase     Resolution   0.1 Hz (Frequency resolution, setpoint value)     Starting current - max   0.1 Hz (Frequency resolution, setpoint value)     Supply frequency   0.1 Hz (Frequency resolution, setpoint value)     Switching frequency   50/60 Hz     Assigned motor power at 460/480 V, 60 Hz, 3-phase   8 kHz, 4 - 32 kHz adjustable, fPWM, Power section, Main circuit     Braking current   6 km Ac for 120 ms), Actuator for external motor brake	Rated frequency - min	45 Hz
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     Supply frequency   50/60 Hz     Switching frequency   50/60 Hz     Assigned motor power at 460/480 V, 60 Hz, 3-phase   31 HP     Braking current   31 HP     Starting current   616 A (max. 6 A for 120 ms), Actuator for external motor brake	Rated operational current (le)	
Resolution   480 V AC, 3-phase     Starting current - max   0.1 Hz (Frequency resolution, setpoint value)     Supply frequency   200 %, IH, max. starting current (High Overload), For 2 seconds every 20 seconds Power section     Switching frequency   5060 Hz     Switching frequency   606 Hz     Assigned motor power at 460/480 V, 60 Hz, 3-phase   606 Hz     Braking current   606 Hz, 3-phase	Rated operational power at 380/400 V, 50 Hz, 3-phase	2.2 kW
Starting current - max   Image: Constraint of the constrai	Rated operational voltage	480 V AC, 3-phase
Supply frequency Power section   Switching 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 Image: Comparison of the section o	Resolution	
Switching frequency   8 kHz, 4 - 32 kHz adjustable, fPWM, Power section, Main circuit     Assigned motor power at 460/480 V, 60 Hz, 3-phase   8 kHz, 4 - 32 kHz adjustable, fPWM, Power section, Main circuit     Braking current   6 kHz, 4 - 32 kHz adjustable, fPWM, Power section, Main circuit		
Assigned motor power at 460/480 V, 60 Hz, 3-phase Assigned motor power at 460/480 V, 60 Hz, 3-ph		
Braking current ≤ 0.6 A (max. 6 A for 120 ms), Actuator for external motor brake	Switching frequency	8 kHz, 4 - 32 kHz adjustable, fPWM, Power section, Main circuit
	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	Adjustable to 100 % (I/Ie), DC - Main circuit

	≤ 30 % (I/Ie)
Braking voltage	400/480 V AC -15 % / +10 %, Actuator for external motor brake
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	
Interfaces	Number of slave addresses: 31 (AS-Interface®) Max. total power consumption from AS-Interface® power supply unit (30 V): 190 mA Specification: S-7.4 (AS-Interface®)
Cable length	C2 ≤ 5 m, maximum motor cable length C3 ≤ 25 m, maximum motor cable length C1 ≤ 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 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**

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])					
V	380 - 480				
	50/60 Hz				
	3				
	3				
Hz	500				
V	500				
А	5.6				
kW	2.2				
kW	2.2				
%	10				
	V Hz V A kW kW				

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		No
4-quadrant operation possible		No
Type of converter		U converter
Degree of protection (IP)		IP65
Degree of protection (NEMA)		12
Height	mm	270
Width	mm	220
Depth	mm	157