Speed controllers, 5.6 A, 2.2 kW, Sensor input 4, 180/207 V DC, AS-Interface  $^{\circledR}$ , S-7.4 for 31 modules, HAN Q4/2, with braking resistance, STO (Safe Torque Off)



Part no. RASP5-5401A31-4120110S1 198813

Doe doest warms	Fr. M. H. O. J. D. JULIO, J. J. H.
Product name	Eaton Moeller® series Rapid Link Speed controller
Part no.	RASP5-5401A31-4120110S1
EAN	4015081968718
Product Length/Depth	157 millimetre
Product height	270 millimetre
Product width	220 millimetre
Product weight	3.43 kilogram
Certifications	IEC/EN 61800-5-1 UL 61800-5-1 CE RoHS 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 jun 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
-eatures	Parameterization: drivesConnect Diagnostics and reset on device and via AS-Interface Parameterization: Keypad Parameterization: drivesConnect mobile (App) Parameterization: Fieldbus
Fitted with:	PC connection Selector switch (Positions: REV - OFF - FWD) Breaking resistance Key switch position AUTO Two sensor inputs through M12 sockets (max. 150 mA) for quick stop and interlocked manual operation Braking resistance Thermo-click with safe isolation Four fixed speeds Internal DC link IGBT inverter Key switch position OFF/RESET PTC thermistor monitoring Key switch position HAND Control unit
Functions	Brake chopper with braking resistance for dynamic braking 4-quadrant operation possible STO (Safe Torque Off) For actuation of motors with mechanical brake
Degree of protection	IP65 NEMA 12
Electromagnetic compatibility	1st 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 ASI
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
Mounting position	Vertical
Shock resistance	15 g, Mechanical, According to IEC/EN 60068-2-27, 11 ms, Half-sinusoidal shock 1 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	Max. 2000 m Above 1000 m with 1 % performance reduction per 100 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	0.5 - 5.6 A, motor, main circuit Adjustable, motor, main circuit
Delay time	< 10 ms, On-delay < 10 ms, Off-delay
Efficiency	98 % (η)
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 90% 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  Operating mode  Output frequency - max	380 - 480 V (-10 %/+10 %, at 50/60 Hz)  U/f control  BLDC motors  Synchronous reluctance motors  Sensorless vector control (SLV)  PM and LSPM motors  500 Hz
Output frequency - min	0 Hz
Overload current	For 60 s every 600 s At 40 °C
Overload current IL at 150% overload	8.4 A
Rated frequency - max	66 Hz
Rated frequency - min	45 Hz
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 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

Cable length  Meets the product standard's requirements.  Cable length  Cable length  Cable length  Meets the product standard's requirements.  Cable length  Cable length  Cable length  Cable length  Meets the product standard		
Raide control voltage Soft-to- on threshold for rise braking transistor Soft-to- on threshold for rise braking transistor Soft-to- on threshold for rise braking transistor  Raide control voltage (Uc) Raide cont	Braking current	≤ 0.6 A (max. 6 A for 120 ms), Actuator for external motor brake
Switch-on threshold for the braking transistor  Rated conditional short-circuit current (q)  Rated control voltage (Uc)  Rated Rated Control vol	Braking torque	
Rated control voltage (Uc)  Rated Rated Con	Braking voltage	280/207 V DC -15 $\%$ / +10 $\%$ , Actuator for external motor brake
Short-circuit protection (external output circuits)  Rated control voltage (Uc)  AS-Interface  Communication interface  C	Switch-on threshold for the braking transistor	765 V DC
Rated control voltage (Uc)  Rated Ra	Rated conditional short-circuit current (Iq)	10 kA
24 DC L15 %-20 %, external via AS-interface® plug)  Communication interface  Connection  Communication interface  Connection  Interfaces  Connection  AS-Interface  Number of slave addresses 31 (AS-Interface®) Specification S-14 AG-Interface®) Specification S-14 AG-Interface®) Mate total power consumption from AS-Interface® power supply unit (30 V: 19 m/A  Cable length  Cas to maximum motor cable length C1 s n. maximum motor cable le	Short-circuit protection (external output circuits)	Type 1 coordination via the power bus' feeder unit, Main circuit
Canisertion  Interfaces  Interfaces Interfa	Rated control voltage (Uc)	
Interfaces    Number of slava addresses: 31 (AS-Interface®) Sporting attention: S-74, AS-Interface®) Sporting attention: S-74, AS-Interface®) power supply unit (30 V): 19 and	Communication interface	AS-Interface
Specification: S-7.4 AS-interface@ power supply unit (30 VI: 19 mA  Cable length  Cabl	Connection	Plug type: HAN Q4/2
Cl s 1 m, maximum motor cable length 3	Interfaces	Specification: S-7.4 (AS-Interface®)  Max. total power consumption from AS-Interface® power supply unit (30 V): 190
10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Verification of resistance of insulating materials to normal heat 10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Meets the product standard's requirements. 10.2.7 Inscriptions 10.2.6 Meets the product standard's requirements. 10.3.0 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.4 Clearances and creepage distances 10.5 Protection against electric shock 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Power-frequency electric strength 10.9.4 Testing of enclosures made of insulating material 10.9.4 Testing of enclosures made of insulating material 10.1 Temperature rise 10.1 Short-circuit rating 10.1 Short-circuit rating 10.1 Short-circuit rating 10.1 Short-circuit rating 10.1 Short-circuit rements the requirements, 10.1 Short-circuit rements here in the switchgear must observed. 10.1 Short-circuit rements here in the switchgear must observed. 10.1 Short-circuit rements here in the switchgear must observed. 10.1 Short-circuit rating 10.1 Short-circuit rements here in the switchgear must observed. 10.1 Short-circuit rements here in the switchgear must observed. 10.1 Short-circuit rements here in the switchgear must observed. 10.1 Short-circuit rements here in the switchgear must observed. 10.1 Short-circuit rements, provided the information in the instruction	Cable length	C1 ≤ 1 m, maximum motor cable length
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	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	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	Α	5.6			

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Number of shadapse epots         Common of shadapse epots         Common of shadapse epots           Number of spinal optops         Common of spinal optops         Common of spinal optops           Number of spinal optops         Common of spinal optops         Common of spinal optops           Application in industrial area permitted         Post Common of Spinal optops         Common of Spinal optops           Application in industrial area permitted         Post Common of Spinal optops         Common of Spinal optops           Supprating praces for CMP         Supprating praces for CMP         Real Common of Spinal Optops           Supprating praces for CAM         Supprating praces for CAM         Real Common of Spinal Optops           Supprating praces for CAM         Supprating praces for CAM         Real Common of Spinal Optops           Supprating praces for CAM         Supprating praces for CAM         Real Common of Spinal Optops           Supprating praces for Spinal Optops         Post Common of Spinal Optops         Real Common of Spinal Optops           Supprating praces for PRIGNETIC A         Post Common of Spinal Optops         Real Common of Spinal Optops           Supprating praces for PRIGNETIC A         Post Common of Spinal Optops         Real Common of Spinal Optops           Supprating praces for PRIGNETIC A         Post Common of Spinal Optops         Real Common of Spinal Optops           Supprating p	Relative symmetric net frequency tolerance		
Nember of alignic ciques         0           Nember of digital ciques         4           Web control alloment         4           Web control alloment         5           Application in industrial area parmitted         6           Application in districtivi and commercial area permitted         7           Supportug protect for ICPUP         8           Supportug protect for PREMISH         9           Supportug protect for CAN         9           Supportug protect for NAX         9           Supportug protect for CAN         9           Supportug protect for SUNDET         9           Supportug protect for		%	10
Number of digital numbes         4           Number of digital numbes         4           Number of digital numbers         7           Number of digital numbers         7           Application in industrial stera permitted         7           Application in industrial stera permitted         8           Supporting protect for (PCIP)         8           Supporting protect for LNN         9           Supporting protect for NN         9           Supporting protect for NN         9           Supporting protect for McQuas         9           Supporting protect for SULONET         9           Supporting protect for SULONET         9           Supporting protect for FORDINET ID         9           Supporting protect for FORDINET ID         9           Supporting protect for FORDINET SUL         9           Supporting protect for FORDINET SUL         9           Supporting protect for Formitted Sulface         9           Supporting protect for Formitted Sulface         9           Supporting protect for Numb	Number of analogue outputs		0
Numbour of digital injusto         4           Will control element         7           Application in infunctional are permitted         9           Application in infunctional are permitted         9           Application in infunction are promitted         9           Suppositing protects for CFMP         9           Suppositing protects for CFM         9           Suppositing protects for CFM         9           Suppositing protect for CFM         9           Suppositing protect for MCMS         9           Suppositing protect for CFM         9           Suppositing protect for Data Mighowy         9           Suppositing protect for Data Mighowy         9           Suppositing protect for EUN         9           Suppositing protect for EUN         9           Suppositing protect for EUN         9           Suppositing protect for EMPKET (IS         9           Suppositin	Number of analogue inputs		0
NAME casarral aleaneam         Need Comment of the Comment of th	Number of digital outputs		0
Application in industrial area permitted         196           Application in industrial area permitted         196           Application in industrial area permitted         196           Supporting protect for TCAPIP         196           Supporting protect for TCAPI         196           Supporting protect for TCAPI         196           Supporting protect for MATHERIS         <	Number of digital inputs		4
Application in domestic and commercial area permitted         Yes           Supporting protected for TCP/IP         No           Supporting protected for TCP/IP         No           Supporting protect for In NTFRIBUS         No           Supporting protect for In NTFRIBUS         No           Supporting protect for MCNC         No           Supporting protect for In MCNC         No           Supporting protect for In SUDONIT         No           Supporting protect for SUDONIT         No           Supporting protect for In SUDONIT         No	With control element		Yes
Supporting protocol for PROFIDES         No           Supporting protocol for PROFIDES         No           Supporting protocol for INTERBUS         No           Supporting protocol for INTERBUS Safety at Wint         No           Supporting protocol for INTERBUS Safety at Wint         No           Supporting protocol for INTERBUS Safety at Wint         No           Supporting protocol for INTERBUS Safety         No           Supporting protocol for INTERBUS Safety         No           Suppor	Application in industrial area permitted		Yes
Supporting protecting for PROFIBUS         Me           Supporting protecting for CAN         No           Supporting protecting for CAN         No           Supporting protecting for KML         No           Supporting protecting for KML         No           Supporting protecting for KML         No           Supporting protecting for Markhal         No           Supporting protecting for Data-Highway         No           Supporting protecting for Data-Highway         No           Supporting protecting for SERCER         No           Supporting protecting for FromHealtr Follows         No           Supporting protecting for FromHealtr Follows         No           Supporting protecting for FromHealtr Follows         No           Supporting protecting for SERCER         No           Supporting protecting for Service Staffy         No           Supporting protecting for FromHealtr Safety         No           Supporting protecting for Service Staffy         No           Supporting protecting for White Inches Staffy         No           Supporting protecting for White Inches Staffy         No <td>Application in domestic- and commercial area permitted</td> <td></td> <td>Yes</td>	Application in domestic- and commercial area permitted		Yes
Supporting protocol for MNT PBBUS         No           Supporting protocol for MNT PBBUS         " 6           Supporting protocol for MNCA         " 6           Supporting protocol for MNCA         No           Supporting protocol for MNCA         No           Supporting protocol for MNCA         No           Supporting protocol for End-Highway         No           Supporting protocol for End-End-Highway         No           Supporting protocol for End-Highway         No           Supporting pr	Supporting protocol for TCP/IP		No
Supporting protocol for MNIS         Mes           Supporting protocol for MSI         Pos           Supporting protocol for MNIS         Pos           Supporting protocol for Machus         Pos           Supporting protocol for Machus         Pos           Supporting protocol for Data Highway         Pos           Supporting protocol for SUCINET         Pos           Supporting protocol for SUCINET         Pos           Supporting protocol for SUCINET         Pos           Supporting protocol for FROFINET IO         Pos           Supporting protocol for FROFINET IO         Pos           Supporting protocol for FROFINET BOR         Pos           Supporting protocol for FROFINET BOR         Pos           Supporting protocol for FROFINET BOR         Pos           Supporting protocol for FROFINET         Pos           Supporting protocol for PROFINET	Supporting protocol for PROFIBUS		No
Supporting protocol for KNIX         ( )	Supporting protocol for CAN		No
Supporting protocol for MXMX         No           Supporting protocol for Medidus         No           Supporting protocol for Data-Highway         No           Supporting protocol for Data-Highway         No           Supporting protocol for Data-Highway         No           Supporting protocol for ENDRER         No           Supporting protocol for LON         No           Supporting protocol for PROFINET DA         No           Supporting protocol for PROFINET CBA         No           Supporting protocol for Production Falldus         No           Supporting protocol for Production Falldus         No           Supporting protocol for AS-Interface Safety at Work         No           Supporting protocol for PROFINET         No           Supporting protocol for PROFINET         No           Supporting protocol for Safety at Work         No           Supporting protocol for Safety Safety         No           Supporting protocol for Safety Safety         No           Supporting protocol for Safety Safety         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 SUCONET         No           Supporting protocol for SUCONET         No           Supporting protocol for POFINET IO         No           Supporting protocol for POFINET IOS         No           Supporting protocol for PERONET GBA         No           Supporting protocol for FEROSE         No           Supporting protocol for INTERBUS-Safety         No           Supporting protocol for INTERBUS-Safety         No           Supporting protocol for SACHARE         No           Supporting protocol for SACHARE         No           Supporting protocol for SACHARE         No           Number of HW-interfaces industrial Ethernat         No           Number of HW-interfaces SE-42         No           Number of HW-interfaces SE-42         No           Number of HW-interfaces SE-42	Supporting protocol for ASI		Yes
Supporting protect for Deta-Highway         No           Supporting protect for DeviceNet         No           Supporting protect for LON         No           Supporting protect for LON         No           Supporting protect for PROFINET ICH         No           Supporting protect for PROFINET CAN         No           Supporting protect for PROFINET CAN         No           Supporting protect for FEROUS         No           Supporting protect for F	Supporting protocol for KNX		No
Supporting protocol for SUCONET         No           Supporting protocol for SUCONET         No           Supporting protocol for PDFINET IO         No           Supporting protocol for PDFINET CBA         No           Supporting protocol for PDFINET CBA         No           Supporting protocol for SERCOS         No           Supporting protocol for FDERIAT         No           Supporting protocol for Supporting protocol f	Supporting protocol for Modbus		No
Supporting protocol for SUCNNET         No           Supporting protocol for PROFINET IOS         No           Supporting protocol for PROFINET CBA         No           Supporting protocol for PROFINET CBA         No           Supporting protocol for PROFINET CBA         No           Supporting protocol for Foundation Fieldhus         No           Supporting protocol for Subrights         No           Supporting protocol for Subrights Safety         No           Suppor	Supporting protocol for Data-Highway		No
Supporting protocol for SUCNNET         No           Supporting protocol for PROFINET IOS         No           Supporting protocol for PROFINET CBA         No           Supporting protocol for PROFINET CBA         No           Supporting protocol for PROFINET CBA         No           Supporting protocol for Foundation Fieldhus         No           Supporting protocol for Subrights         No           Supporting protocol for Subrights Safety         No           Suppor	Supporting protocol for DeviceNet		No
Supporting protocol for PROFINET ICBA         No           Supporting protocol for PROFINET CBA         No           Supporting protocol for FEUROS         No           Supporting protocol for FEUROS         No           Supporting protocol for Feundation Fildubus         No           Supporting protocol for Febrankot/IP         No           Supporting protocol for Eberankot/IP         No           Supporting protocol for SEAChat         No           Supporting protocol for SIMERBUS-Salety         No           Supporting protocol for StafetyBUS p         No           Supporting protocol for SEAChat         No           Number of HW-interfaces industrial Ethernet         No           Number of HW-interfaces RD-GTNET         0           Number of HW-interfaces RS-422         0           Number of HW-interfaces RS-435         0           Number of HW-interfaces SEA-425         0           Number of HW-interfaces parallel         0           Number of HW-interfaces SEA-425         0           Number of HW-interfaces SEA-425         0           Number of HW-interfaces			No
Supporting protocol for PROFINET ICBA         No           Supporting protocol for PROFINET CBA         No           Supporting protocol for FEUROS         No           Supporting protocol for FEUROS         No           Supporting protocol for Feundation Fildubus         No           Supporting protocol for Febrankot/IP         No           Supporting protocol for Eberankot/IP         No           Supporting protocol for SEAChat         No           Supporting protocol for SIMERBUS-Salety         No           Supporting protocol for StafetyBUS p         No           Supporting protocol for SEAChat         No           Number of HW-interfaces industrial Ethernet         No           Number of HW-interfaces RD-GTNET         0           Number of HW-interfaces RS-422         0           Number of HW-interfaces RS-435         0           Number of HW-interfaces SEA-425         0           Number of HW-interfaces parallel         0           Number of HW-interfaces SEA-425         0           Number of HW-interfaces SEA-425         0           Number of HW-interfaces			No
Supporting protocol for PROFINET CBA         No           Supporting protocol for SERCOS         No           Supporting protocol for Foundation Fieldbus         No           Supporting protocol for Ethen'Aet/IP         No           Supporting protocol for Ethen'Aet/IP         No           Supporting protocol for DeviceNet Safety         No           Supporting protocol for DeviceNet Safety         No           Supporting protocol for INTERBUS-Safety         No           Supporting protocol for FNDFIsafe         No           Supporting protocol for SafetyBUS p         No           Supporting protocol for SafetyBUS p         No           Supporting protocol for other bus systems         No           Number of HW-interfaces sindustrial Ethernet         O           Number of HW-interfaces RS-323         O           Number of HW-interfaces RS-425         O           Number of HW-interfaces RS-425         O           Number of HW-interfaces self-845         O           Number of			No
Supporting protocol for SERCOS         No           Supporting protocol for Foundation Fieldbus         No           Supporting protocol for EnhankeUP         No           Supporting protocol for EnhankeUP         No           Supporting protocol for DeviceNet Safety         No           Supporting protocol for DeviceNet Safety         No           Supporting protocol for PROFIsafe         No           Supporting protocol for SafetyBUS p         No           Supporting protocol for BAChet         No           Supporting protocol for PBOFIsafe         No           Supporting protocol for SafetyBUS p         No           Supporting protocol for BAChet         No           Supporting protocol for BAChet         No           Number of HW-interfaces RS-328         No           Number of HW-interfaces PROFINET         0           Number of HW-interfaces RS-428         0           Number of HW-interfaces RS-428         0           Number of HW-interfaces RS-428         0           Number of HW-interfaces Supporting TY         0           Number of HW-interfaces Supporting TY         0           Number of HW-interfaces parallel         0           Number of HW-interfaces parallel         0           Number of HW-interfaces parallel			
Supporting protocol for Foundation Fieldbus         No           Supporting protocol for Ether-Net/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 SafetyBUS p         No           Supporting protocol for SafetyBUS p         No           Supporting protocol for Device bus ystems         No           Number of HW-interfaces industrial Ethernet         0           Number of HW-interfaces PROFINET         0           Number of HW-interfaces RS-232         0           Number of HW-interfaces RS-422         0           Number of HW-interfaces RS-428         0           Number of HW-interfaces RS-429         0           Number of HW-interfaces Stafes         0           Number of HW-interfaces parallel         0           Number o			
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 PROFIsaBUS Safety         No           Supporting protocol for SafetyBUS p         No           Supporting protocol for Other bus systems         No           Supporting protocol for other bus systems         No           Number of HW-interfaces industrial Ethernet         0           Number of HW-interfaces RS-222         0           Number of HW-interfaces RS-322         0           Number of HW-interfaces RS-425         0           Number of HW-interfaces RS-485         1           Number of HW-interfaces RS-485         0           Number of HW-interfaces spralled         0           Number of HW-interfaces stems         0           Number of HW-interfaces spralled         0           Number of HW-interfaces stems         0           Number of HW-inte			
Supporting protocol for AS-Interface Safety at Work         No           Supporting protocol for DeviceNet Safety         No           Supporting protocol for INTERBUS-Safety         No           Supporting protocol for PROPISARE         No           Supporting protocol for SafetyBUS p         No           Supporting protocol for EAChcat         No           Supporting protocol for Other bus systems         No           Number of HW-interfaces industrial Ethernet         0           Number of HW-interfaces RS-232         0           Number of HW-interfaces RS-422         0           Number of HW-interfaces RS-435         1           Number of HW-interfaces RS-436         0           Number of HW-interfaces uses         0           Number of HW-interfaces acrial TTY         0           Number of HW-interfaces uses         0           Vist         0           Numbe			
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 SafetyBUS p         No           Supporting protocol for Other bus systems         No           Number of HW-interfaces industrial Ethernet         0           Number of HW-interfaces RS-232         0           Number of HW-interfaces RS-428         0           Number of HW-interfaces RS-488         0           Number of HW-interfaces serial TTY         0           Number of HW-interfaces serial TTY         0           Number of HW-interfaces serial TTY         0           Number of HW-interfaces serial TY         0           Number of HW-interfaces serial TY         0           Number of HW-interfaces stem         0           Number of HW-interfaces stem         0           Number of HW-interfaces stem         0           Vish pcical interface         0           Vish pcical interface         0           Vish pcical interface         0           Vispe of converter         0           Degree of			
Supporting protocol for INTERBUS-Safety         No           Supporting protocol for SafetyBUS p         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         O           Number of HW-interfaces PROFINET         O           Number of HW-interfaces RS-232         O           Number of HW-interfaces RS-425         O           Number of HW-interfaces RS-428         I           Number of HW-interfaces serial TTY         O           Number of HW-interfaces serial TTY         O           Number of HW-interfaces other         I           Vith PC connection         No           Vith PC connection         Yes           Integrated breaking resistance         Yes           **Quadrator presistance         Y			
Supporting protocol for SAfetyBUS p         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 HW-interfaces RS-232         0           Number of HW-interfaces RS-422         0           Number of HW-interfaces RS-425         1           Number of HW-interfaces RS-485         1           Number of HW-interfaces Serial TTY         0           Number of HW-interfaces USB         0           Number of HW-interfaces USB         0           Number of HW-interfaces other         1           Vith optical interface         No           Vith Optical interface other         1           With Optical interface         Yes           Integrated breaking resistance         Yes           4-quadrant operation possible         Yes           Type of converter         U converter           Degree of protection (IP)         IP65           Degree of protection (NEMA)         IP65           Degree of protection (NEMA)         IM           Vidth         IM			
Supporting protocol for SafetyBUS p Supporting protocol for BACnet Supporting protocol for other bus systems Number of HW-interfaces industrial Ethernet Number of interfaces PROFINET Number of HW-interfaces RS-232 Number of HW-interfaces RS-232 Number of HW-interfaces RS-428 Number of HW-interfaces RS-428 Number of HW-interfaces RS-485 Number of HW-interfaces RS-485 Number of HW-interfaces RS-485 Number of HW-interfaces State Number of HW-interfaces USB Number of HW-interfaces USB Number of HW-interfaces USB Number of HW-interfaces other 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 user         0           Number of HW-interfaces parallel         0           Number of HW-interfaces other         1           Number of HW-interfaces other         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)         Integrate of protection (NEMA)           Width         Image: No converter of the protection (NEMA)           Degree of protection (NEMA)         Image: No converter of the protection (NEMA)           Degree of protection (NEMA)         Image: No converter of the protection (NEMA)           Height         Image: No converter of the protection (NEMA)	11 11		
Supporting protocol for other bus systems         No           Number of HW-interfaces industrial Ethernet         0           Number of interfaces PR0FINET         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 other         1           With optical interface         0           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)         mm         270           Writth         mm         200			
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			
Number of interfaces PR0FINET         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           Witth DC (Mitth)         mm         220			
Number of HW-interfaces RS-232 Number of HW-interfaces RS-422 Number of HW-interfaces RS-485 Number of HW-interfaces RS-485 Number of HW-interfaces serial TTY Number of HW-interfaces USB Number of HW-interfaces USB Number of HW-interfaces uSB Number of HW-interfaces other  Number of HW-interfaces other  Number of HW-interfaces other  Vith optical interface Vith optical interfaces other Vith optical interfaces optical inte			
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           Witth         mm         220			
Number of HW-interfaces RS-485  Number of HW-interfaces serial TTY  Number of HW-interfaces USB  Number of HW-interfaces USB  Number of HW-interfaces parallel  Number of HW-interfaces other  Number of HW-interfaces other  No  With optical interface  With PC connection  Integrated breaking resistance  4-quadrant operation possible  Type of converter  Degree of protection (IP)  Degree of protection (NEMA)  Height  With HW-interfaces USB  O  U converter  IP65  IP65  IP65  With HP65  IP65  IP70  I			
Number of HW-interfaces usb  Number of HW-interfaces Usb  Number of HW-interfaces parallel  Number of HW-interfaces other  Number of HW-interfaces other  No  With optical interface  With Optical interface  With PC connection  Integrated breaking resistance  4-quadrant operation possible  Type of converter  Degree of protection (IP)  Degree of protection (NEMA)  Height  Width  No  Ves  Ves  U converter  U converter  U converter  U converter  P65  12  Height  mm 270  Width			
Number of HW-interfaces USB  Number of HW-interfaces parallel  Number of HW-interfaces other  Number of HW-interfaces other  No  With optical interface  With Optical or PC connection  Integrated breaking resistance  4-quadrant operation possible  Type of converter  Degree of protection (IP)  Degree of protection (NEMA)  Height  Mm 270  Width			
Number of HW-interfaces parallel  Number of HW-interfaces other  With optical interface  With PC connection  With PC connection  Integrated breaking resistance  4-quadrant operation possible  Type of converter  Degree of protection (IP)  Degree of protection (NEMA)  Height  Width  Degree of protection (NEMA)  Width  Degree of protection (NEMA)  Midth			
Number of HW-interfaces other  With optical interface  No  With PC connection  Ves  Integrated breaking resistance  4-quadrant operation possible  Type of converter  Degree of protection (IP)  Degree of protection (NEMA)  Height  Width  I 1  I 1  No  Voo  Yes  Yes  U converter  U converter  I P65  I P65  I P65  Width  I 2  Width			
With optical interface With PC connection Ves Integrated breaking resistance 4-quadrant operation possible Type of converter U converter Degree of protection (IP) Degree of protection (NEMA) Height Width  No Yes Yes Yes Yes U converter U penverter IP65 IP65  12  Width IP65 IP65 IP65 IP65 IP65 IP65 IP65 IP65			
With PC connection Integrated breaking resistance 4-quadrant operation possible Type of converter U converter Degree of protection (IP) Degree of protection (NEMA) Height Mmm 270 Width			
Integrated breaking resistance 4-quadrant operation possible Type of converter U converter Degree of protection (IP) Degree of protection (NEMA) Height mm 270 Width			
4-quadrant operation possible Type of converter U converter Degree of protection (IP) Degree of protection (NEMA) Height mm 270 Width			
Type of converter         U converter           Degree of protection (IP)         IP65           Degree of protection (NEMA)         12           Height         mm         270           Width         mm         220			
Degree of protection (IP)  Degree of protection (NEMA)  Height  mm  270  Width  mm  220			
Degree of protection (NEMA)         12           Height         mm         270           Width         mm         220			
Height mm 270 Width mm 220			
Width mm 220			12
	Height	mm	270
Depth mm 157	Width	mm	220
	Depth	mm	157