Communication module for connecting the easy control relay via Modbus RTU Server, screw terminal



Part no. EASY-COM-RTU-M1

199453

EL Number

4500803

(Norway)

(laurway)	
General specifications	
Product name	Eaton Moeller® series EASY Accessory Bus module
Part no.	EASY-COM-RTU-M1
EAN	4015081978441
Product Length/Depth	58 millimetre
Product height	90 millimetre
Product width	36 millimetre
Product weight	0.1 kilogram
Certifications	IEC/EN 61000-6-3 EN 61010 IEC/EN 61000-6-2 IEC 60068-2-6 IEC/EN 61000-4-2 IEC/EN 61131-2 IEC 60068-2-27 EN 50178 IEC 60068-2-30 CE UL File No.: E205091 UL Listed UL hazardous location division 2 UL hazardous location class I UL hazardous location group C (ethylene) UL hazardous location group D (propane) UL hazardous location group B (hydrogen) UL hazardous location group A (acetylene)
Product Tradename	EASY
Product Type	Accessory
Product Sub Type	Bus module
Features & Functions	
Features	Expandable Expansion device
General information	
Degree of protection	IP20
Insulation resistance	According to EN 50178, EN 61010-2-201, UL61010-2-201, CSA-C22.2 NO. 61010-2-20
Mounting method	Rail mounting possible Screw fixing using fixing brackets ZB4-101-GF1 (accessories) Top-hat rail fixing (according to IEC/EN 60715, 35 mm) Wall mounting/direct mounting Front build in possible
Overvoltage category	II
Pollution degree	2
Protocol	MODBUS TCP/IP
Туре	Communication module
Voltage type	DC
Ambient conditions, mechanical	
Drop and topple	50 mm Drop height, Drop to IEC/EN 60068-2-31
Mounting position	Vertical Horizontal
Shock resistance	15 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 11 ms, 18 Impacts
Climatic environmental conditions	
Air pressure	795 - 1080 hPa (operation)
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	55 °C
Ambient storage temperature - min	-40 °C

Ambient storage temperature - max	70 °C
Environmental conditions	Clearance in air and creepage distances according to EN 50178, EN 61010-2-20 UL61010-2-201, CSA-C22.2 NO. 61010-2-201 Condensation: prevent with appropriate measures
Relative humidity	5 - 95 % (IEC 60068-2-30, IEC 60068-2-78)
Electro magnetic compatibility	
Air discharge	8 kV
Burst impulse	1 kV, Signal cable
Contact discharge	6 kV, Electrostatic discharge (ESD)
Electromagnetic fields	1 V/m at 2 - 2.7 GHz (according to IEC EN 61000-4-3) 10 V/m at 0.08 - 1.0 GHz (according to IEC EN 61000-4-3) 3 V/m at 1.4 - 2 GHz (according to IEC EN 61000-4-3)
Immunity to line-conducted interference	10 V (according to IEC/EN 61000-4-6)
Radio interference class	Class B (EN 61000-6-3)
Surge rating	According to IEC/EN 61000-4-5, power pulses (Surge), EMC 1 kV, Supply cables, asymmetrical, power pulses (Surge), EMC 0.5 kV, Supply cables, symmetrical, power pulses (Surge), EMC
Voltage dips	≤ 10 ms According to EN 61131-2
erminal capacities	
Terminal capacity	0.2 - 4 mm² (AWG 22 - 12), solid 0.2 - 2.5 mm² (22 - 12 AWG), flexible with ferrule
Screwdriver size	3.5 x 0.8 mm, Terminal screw
Tightening torque	0.6 Nm, Screw terminals
lectrical rating	
Power consumption	1 W
Rated operational voltage	24 V DC (-15 %/+ 20 % - power supply)
Supply voltage at AC, 50 Hz - min	0 V
Supply voltage at AC, 50 Hz - max	0 V
Supply voltage at DC - min	20.4 V DC
Supply voltage at DC - max	28.8 V DC
Voltage rating	24 Vdc
Short-circuit rating	
Short-circuit protection	≥ 1A (T), Fuse, Power supply
Communication	
Bus termination	Switchable
Connection type	Screw terminal Screw terminal
nput/Output	
Number of inputs (analog)	0
Number of inputs (digital)	0
Number of outputs (analog)	0
Number of outputs (digital)	0
Safety	
Explosion safety category for gas	None
Explosion safety category for dust	None
Design verification	
Static heat dissipation, non-current-dependent Pvs	1 W
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	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.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (II) is observed

Technical data ETIM 9.0

Programmable logic controllers PLC (EG000024) / Logic module (EC001417)					
Electric engineering, automation, process control engineering / Control, Process Control System (PCS) / Programmable logic control (SPS) / Logic module (ecl@ss13-27-24-22-16 [AKE539019])					
Supply voltage AC 50 Hz	V	0 - 0			
Supply voltage AC 60 Hz	V	0 - 0			
Supply voltage DC	V	20.4 - 28.8			
Voltage type (supply voltage)		DC			
Switching current	Α	0			
Power consumption	W	1			
Number of analogue inputs		0			
Number of analogue outputs		0			
Number of digital inputs		0			
Number of digital outputs		0			
With relay output		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		0			
Number of HW-interfaces serial TTY		0			
Number of HW-interfaces USB		0			
Number of HW-interfaces parallel		0			
Number of HW-interfaces wireless		0			
Number of HW-interfaces other		1			
With optical interface		No			
Supporting protocol for EtherCAT		No			
Supporting protocol for TCP/IP		Yes			
Supporting protocol for PROFIBUS		No			
Supporting protocol for CAN		No			
Supporting protocol for INTERBUS		No			
Supporting protocol for ASI		No			
Supporting protocol for KNX		No			
Supporting protocol for Modbus		Yes			
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 other bus systems		No
Radio standard Bluetooth		No
Radio standard WLAN 802.11		No
Radio standard GPRS		No
Radio standard GSM		No
Radio standard UMTS		No
10 link master		No
Redundancy		No
With display		No
Degree of protection (IP)		IP20
Basic device		No
Expandable		Yes
Expansion device		Yes
With time switch clock		No
Rail mounting possible		Yes
Wall mounting/direct mounting		Yes
Front built-in possible		Yes
Rack-assembly possible		No
Suitable for safety functions		No
SIL according to IEC 61508		None
Performance level according to EN ISO 13849-1		None
Appendant operation agent (Ex ia)		No
Appendant operation agent (Ex ib)		No
Explosion safety category for gas		None
Explosion safety category for dust		None
Certified for UL hazardous location class I		Yes
Certified for UL hazardous location class II		No
Certified for UL hazardous location class III		No
Certified for UL hazardous location division 1		No
Certified for UL hazardous location division 2		Yes
Certified for UL hazardous location group A (acetylene)		Yes
Certified for UL hazardous location group B (hydrogen)		No
Certified for UL hazardous location group C (ethylene)		Yes
Certified for UL hazardous location group D (propane)		Yes
Certified for UL hazardous location group E (metal dusts)		No
Certified for UL hazardous location group F (carbonaceous dusts)		No
Certified for UL hazardous location group G (non-conductive dusts)		No
Width	mm	36
Height	mm	90
Depth	mm	58