Specifications







Eaton 199452

Eaton EASY Communication module for connecting the easy control relay as SWD coordinator in SmartWire-DT applications, screw terminal

General specifications	
PRODUCT NAME	Eaton Moeller® series EASY Accessory Bus module
CATALOG NUMBER	199452
MODEL CODE	EASY-COM-SWD-C1
EAN	4015081978434
PRODUCT LENGTH/DEPTH	58 mm
PRODUCT HEIGHT	90 mm
PRODUCT WIDTH	36 mm
PRODUCT WEIGHT	0.1 kg
CERTIFICATIONS	CE UL File No.: E205091 cULus Ordinary Location DNV TAA00002HT EN 61131-2 IEC 61131-2 EN IEC 61010-2-201 IEC 61010-2-201 UL 61010-1 UL 61010-2-201 CSA C22.2 No. 61010-1 CSA C22.2 No. 61010-2-201
CATALOG NOTES	Current consumption at 24 V DC

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Ambient conditions, mechanical

DROP AND TOPPLE	50 mm Drop height, Drop to IEC/EN 60068-2-31
HEIGHT OF FALL (IEC/EN 60068-2-32) - MAX	0.3 m
MOUNTING POSITION	Horizontal Vertical
SHOCK RESISTANCE	15 g, Mechanical, acc. to IEC/EN61131-2, Half-sinusoidal shock 11 ms, 18 Impacts
VIBRATION RESISTANCE	8.4 - 150 Hz, 1 g constant acceleration 5 - 8.4 Hz, 3.5 mm constant amplitude According to IEC/EN 61131-2

Climatic environmental conditions

AIR PRESSURE	795 - 1080 hPa (operation)
AMBIENT OPERATING TEMPERATURE - MAX	55 °C
AMBIENT STORAGE TEMPERATURE - MAX	70 °C
AMBIENT OPERATING TEMPERATURE - MIN	-25 °C
AMBIENT STORAGE TEMPERATURE - MIN	-40 °C
ENVIRONMENTAL CONDITIONS	Clearance in air and creepage distances according to EN 50178, EN 61010-2-201, 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)

Communication

ADDRESSING	Address set automatically via Configuration button
BUS TERMINATION	Integrated in the device, SmartWire-DT With SWD4-RC8-10, SmartWire-DT line end
CONNECTION TYPE	SWD: Plug, 8-pole Screw terminal
DATA TRANSFER RATE	125 kBit/s, SmartWire-DT 250 kBit/s, SmartWire-DT
LED INDICATOR	Status indication of Power/RUN Status Indication of Config Status indication of SWD
STATION	SmartWire-DT master, SmartWire-DT network

Design verification

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 (IL) is observed.
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.	Meets the product standard's requirements.

EFFECTS	
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.
10.4 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.
EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	10.5 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0 W
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	4 W

Electrical rating

POWER CONSUMPTION	14.5 W
RATED OPERATIONAL VOLTAGE	Power supply (POW): 24 V DC (-15 %/+ 20 %) SELV Power supply (AUX): 24 V DC (-15 %/+ 20 %) SELV
SUPPLY CURRENT	0.7 A, Imax, SmartWire-DT supply 2 A (UL), Imax, Supply voltage UAux
SUPPLY VOLTAGE AT DC - MAX	28.8 VDC
SUPPLY VOLTAGE AT DC - MIN	20.4 VDC
VOLTAGE RATING	24 Vdc

Electro magnetic compatibility

AIR DISCHARGE	8 kV
BURST IMPULSE	2 kV, Power supply port 1 kV, communication port According to IEC/EN 61131-2
CONTACT DISCHARGE	6 kV
ELECTROMAGNETIC FIELDS	10 V/m at 0.08 - 1.0 GHz (according to IEC/EN 61131-2) 3 V/m at 1.0 - 6 GHz (according to IEC/EN 61131-2)
IMMUNITY TO LINE-CONDUCTED INTERFERENCE	10 V (according to IEC/EN 61131-2)
RADIO INTERFERENCE CLASS	Class A (EN 61000-6-4)
SURGE RATING	0.5 kV, Line-to-Line, Power supply port 1 kV, Line-to-Earth, Power supply port 1 kV, Line-to-Earth, communication port According to IEC/EN 61131-2
VOLTAGE DIPS	10 ms

Features & functions

FEATURES	Expansion device Expandable

General information

DEGREE OF PROTECTION	IP20
INSULATION RESISTANCE	According to EN IEC 61010-2-201, UL61010-2-201, CSA-C22.2 NO. 61010-2-202
MOUNTING METHOD	Front build in 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 Rail mounting possible
OVERVOLTAGE CATEGORY	Power supply (POW) + Left extension interface: II Power supply (AUX):II Left extension interface: III
POLLUTION DEGREE	2
PRODUCT CATEGORY	Control relays easyE4
PROTOCOL	SmartWire-DT

RESIDUAL RIPPLE	Power supply: ≤ 5 %
SOFTWARE	EASYSOFT-SWLIC/easySoft
TYPE	Communication module
USED WITH	easyE4
VOLTAGE TYPE	DC

Input/Output

NUMBER OF INPUTS (ANALOG)	0
NUMBER OF INPUTS (DIGITAL)	0
NUMBER OF OUTPUTS (ANALOG)	0
NUMBER OF OUTPUTS (DIGITAL)	0
OUTPUT VOLTAGE	U_e - 0.3 V (SWD-OUT, Supply voltage UAUX)

Safety

EXPLOSION SAFETY CATEGORY FOR DUST	None
EXPLOSION SAFETY CATEGORY FOR GAS	None
POTENTIAL ISOLATION	Power supply (POW) + left extension interface against Power supply (AUX): yes POW+left extension interface vs. right extension interface: yes Power supply (AUX) against right extension interface: yes SWD OUT (15V) against SWD OUT(AUX): yes SWD OUT against right extension interface: yes Power supply (POW) + left extension interface against SWD OUT (AUX): yes Power supply (AUX) against SWD OUT (15V): yes
PROTECTION AGAINST POLARITY REVERSAL	Yes

Short-circuit rating

SHORT-CIRCUIT PROTECTION	≥ 3A (T), Fuse, Power supply USWD ≤ 3A (T) (e.g. FAZ C3) (CE), Fuse, Power supply UAUX ≤ 2A (T) (e.g. FAZ C3) (UL), Fuse, Power supply UAUX

Terminal capacities

SCREWDRIVER SIZE	3.5 x 0.6 mm, Terminal screw
TERMINAL CAPACITY	0.2 - 4 mm² (AWG 22 - 12), solid 0.2 - 2.5 mm², flexible with ferrule 0.2 - 2.5 mm², flexible without ferrule
TIGHTENING TORQUE	0.6 Nm, Screw terminals

Resources

APPLICATION NOTES	eaton-easye4-aws-ap050027-en-us.pdf
CATALOGUES	eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf
DECLARATIONS OF CONFORMITY	eaton-accessory-declaration-of-conformity-eu250568en.pdf eaton-accessory-declaration-of-conformity-uk251051en.pdf
DRAWINGS	eaton-timers-time-delay-relays-sequence-timers-electrical-logic-relays-dimensions-2528dim-16.eps
INSTALLATION INSTRUCTIONS	eaton-easye4-communication-module-easy-com-swd-il050024zu.pdf
INSTALLATION VIDEOS	Control relay easyE4: The new generation Video easy E4 control relay
MCAD MODEL	easy_com_swd.stp
MULTIMEDIA	Handling of the data logger as a ring buffer with the easyE4 using the ST programming language. How to connect the easyE4 to the touch panel XV-102 for easy? - 5 Steps How to connect the Remote Touch Display EASY-RTD to the easyE4? easyE4 SmartWire-DT module with Remote Touch Display and RMQ multi color indicator How to process SmartWire-DT modules using the EASY-COM-SWD-C1 module connected to an easyE4? How to process ModbusRTU devices with the EASY-COM-RTU-M1 module on an easyE4?

PRODUCT NOTIFICATIONS	eaton-easye-product-cybersecurity-guideline-mz049001en-us.pdf MZ049014EN
SALES NOTES	eaton-rmq-chemical-resistance-flyer-fl047011en-en-us.pdf eaton-control-relay-easye4-flyer-fl050007en-en-us.pdf

PROJECT NAME:	
PROJECT NUMBER:	
PREPARED BY:	
DATE:	

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