DATASHEET - EASY-COM-SWD-C1



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



Part no. EASY-COM-SWD-C1 199452

| Product name | Eaton Moeller® series EASY Accessory Bus module |
|--|---|
| Part no. | EASY-COM-SWD-C1 |
| EAN | 4015081978434 |
| Product Length/Depth | 58 millimetre |
| Product height | 90 millimetre |
| Product width | 36 millimetre |
| Product weight | 0.1 kilogram |
| Certifications | IEC/EN 61000-6-2 IEC 60068-2-6 EN 50178 IEC/EN 61000-6-3 EN 61010 CE IEC/EN 61131-2 IEC/EN 61000-4-2 IEC 60068-2-27 IEC 60068-2-30 UL Listed UL File No.: E205091 UL hazardous location group A (acetylene) UL hazardous location group C (ethylene) UL hazardous location group C (propane) UL hazardous location group D (propane) UL hazardous location group B (hydrogen) |
| Product Tradename | EASY |
| Product Type | Accessory |
| Product Sub Type | Bus module |
| Catalog Notes | Current consumption at 24 V DC |
| eatures & Functions | |
| Features | Expansion device Expandable |
| eneral 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 | 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 | II |
| Pollution degree | 2 |
| Product category | Control relays easyE4 |
| Protocol | TCP/IP Other bus systems |
| Residual ripple | ≤ 5 % ≤ 5 % (input voltage) |
| Туре | Communication module |
| Voltage type | DC |
| 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 |
| | 15 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 11 ms, 1 |

| 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 61010-2-201 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) |
| Electro magnetic compatibility | |
| Air discharge | 8 kV |
| Burst impulse | 1 kV, SmartWire-DT cable, Signal cable, according to IEC/EN 61131-2, Level 3 |
| 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 | 1 kV, Supply cables, asymmetrical, power pulses (Surge), EMC According to IEC/EN 61000-4-5, power pulses (Surge), EMC 0.5 kV, Supply cables, symmetrical, power pulses (Surge), EMC |
| Voltage dips | According to EN 61131-2 ≤ 10 ms |
| Ferminal 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 | |
| Heat dissipation | 1 W (at 24 V DC) |
| Inrush current | 12.5 A (for 6 ms) |
| Power consumption | 14.5 W |
| Rated control supply voltage | 24 V DC (UAUX, -15 %/+20 %) 20.4 - 28.8 V DC |
| Rated operational voltage | 24 V DC (-15 %/+ 20 % - power supply) |
| Supply current | 0.7 A, Imax, SmartWire-DT supply 2 A (UL), Imax, Supply voltage UAux |
| Supply voltage at AC, 50 Hz - min | 0 V AC |
| Supply voltage at AC, 50 Hz - max | 0 V AC |
| 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 | No, Short-circuit rating, Supply voltage UAux Yes, SmartWire-DT supply voltage ≥ 3 A (T) (e.g. FAZ C3), Fuse, Power supply |
| 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 | SmartWire-DT blade terminal SWD4-8MF2 |
| 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 SmartWire-DT master: Green and red LEDs |
| Station | SmartWire-DT master, SmartWire-DT network |
| nput/Output | |
| Input current | 500 mA (U#) |
| Number of inputs (analog) | 0 |

| Number of inputs (digital) | 0 |
|--|--|
| Number of outputs (analog) | 0 |
| Number of outputs (digital) | 0 |
| Output voltage | U# - 0.3 V (SWD-OUT, Supply voltage UAUX) |
| Safety | |
| Explosion safety category for gas | None |
| Potential isolation | Between SmartWire-DT supply voltage and Power supply POW: no Between SmartWire-DT supply voltage and AUX: yes Between Supply voltage UAUX and SmartWire-DT: yes Between supply voltage UAUX and Power supply POW: yes Between SmartWire-DT supply voltage and COM Interface: yes |
| Protection against polarity reversal | Yes |
| Explosion safety category for dust | None |
| Design verification | |
| Equipment heat dissipation, current-dependent Pvid | 10.5 W |
| Static heat dissipation, non-current-dependent Pvs | 4 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. |
| 10.4 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. |
| 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. |

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 | \ | / | 0 - 0 | |
| Supply voltage AC 60 Hz | \ | / | 0 - 0 | |
| Supply voltage DC | ١ | / | 20.4 - 28.8 | |
| Voltage type (supply voltage) | | | DC | |
| Switching current | Į. | 4 | 0 | |
| Power consumption | ١ | W | 14.5 | |
| 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-485 | er of HW-interfaces RS-422 0 | |
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| Number of HW-interfaces serial TTY 0 Number of HW-interfaces parallel 0 Number of HW-interfaces solverless 0 Number of HW-interfaces solverless 0 Number of HW-interfaces ober 1 Vitro optical interface No Supporting protected for EtherCAT No Supporting protected for EtherCAT No Supporting protected for ETPROFIBUS No Supporting protected for EXPROFIBUS No Supporting protected for KDR No Supporting protected for KDR No Supporting protected for Modeus No Supporting protected for Modeus No Supporting protected for Modeus No Supporting protected for DeleveNt No Supporting protected for DeleveNt No Supporting protected for PROFINET IO No Supporting protected for PROFINET IO No Supporting protect of re FROFINET IO No </td <td></td> <td></td> | | |
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| Degree of protection (IP) | | |
| | | |
| Basic device No | | |
| | | |
| Expandable Yes | | |
| Expansion device Yes | | |
| With time switch clock | | |
| Rail mounting possible Yes | · · | |
| Wall mounting/direct mounting Yes | | |
| Front built-in possible Yes | | |
| Rack-assembly possible No | ssembly possible No | |
| Suitable for safety functions No | | |
| SIL according to IEC 61508 | cording to IEC 61508 | |
| Performance level according to EN ISO 13849-1 | nance level according to EN ISO 13849-1 None | |
| Appendant operation agent (Ex ia) | dant operation agent (Ex ia) | |
| Appendant operation agent (Ex ib) | dant operation agent (Ex ib) | |
| Explosion safety category for gas | on safety category for gas | |
| Explosion safety category for dust None | on safety category for dust None | |

| Certified for UL hazardous location class I | | Ye | es |
|--|----|-------|----|
| Certified for UL hazardous location class II | | No | 0 |
| Certified for UL hazardous location class III | | No | 0 |
| Certified for UL hazardous location division 1 | | No | 0 |
| Certified for UL hazardous location division 2 | | Ye | es |
| Certified for UL hazardous location group A (acetylene) | | Ye | es |
| Certified for UL hazardous location group B (hydrogen) | | No | 0 |
| Certified for UL hazardous location group C (ethylene) | | Ye | es |
| Certified for UL hazardous location group D (propane) | | Ye | es |
| Certified for UL hazardous location group E (metal dusts) | | No | 0 |
| Certified for UL hazardous location group F (carbonaceous dusts) | | No | 0 |
| Certified for UL hazardous location group G (non-conductive dusts) | | No | 0 |
| Width | mı | ım 36 | |
| Height | mı | ım 90 | |
| Depth | mı | im 58 | 3 |