



Compact PLC, 24 V DC, ethernet, RS232, SWDT



Part no. XC-152-E3-11
Catalog No. 167850
Alternate Catalog No. XC-152-E3-11
EL-Nummer (Norway) 0004560867


Similar to illustration

Delivery program

| | | | |
|--------------------------------|--|--|--|
| Product range | | | SmartWire-DT coordinators |
| Function | | | With SmartWire-DT master interface Additional field bus interfaces Ethernet Web-server OPC Server Remote Server |
| Operating system | | | Windows CE 5.0 (licence incl.) |
| PLC-licence | | | CoDeSys Runtime (licence inclusive) |
| Integrated Web server | | | yes |
| Built-in interfaces | | | 1 x Ethernet 10/100 Mbps 1 x USB device 2.0 1 x USB host 2.0 1 x RS232 1 x SmartWire-DT |
| Slots | | | for SD card: 1 |
| Memory | | | |
| Application/marker/retain data | | | 64 MB/4 KB/32 KB |

Technical data

General

| | | | |
|-------------------------|---|----|--|
| Standards | | | EN 61131, UL 508 |
| Approvals | | | |
| Approvals | | | CE, cULus EAC |
| shipping classification | | | DNV GL |
| | | |  |
| Ambient temperature | | °C | 0 - +55 |
| Storage | θ | °C | -20 - +60 |
| Degree of Protection | | | IP20 |
| Battery (service life) | | | non-replaceable, BR2330 soldered in |
| Weight | | kg | 0.47 |

Power supply

| | | | |
|--------------------------|-------|------|---|
| Supply voltage | | V DC | 24 |
| Permissible range | U_e | | 20.4 - 28.8 V DC |
| Maximum power loss | P_v | W | 8.5 |
| Note on heat dissipation | | | Heat dissipation with power consumption for 24 V 6 W for basic device + 2.5 W for USB module |

CPU

| | | | |
|-----------|--|--|---------------------------|
| Processor | | | RISC CPU, 32 Bit, 400 MHz |
|-----------|--|--|---------------------------|

Memory

| | | | |
|--|--|----|---------------|
| Program code/program data | | | 64MB |
| Cycle time for 1 k of instructions (Bit, Byte) | | ms | Normally 0.04 |

Interfaces

| | | | |
|------------------|--|--|--|
| Basic interfaces | | | |
|------------------|--|--|--|

| | | | |
|-----------------------|--|--------|---|
| Ethernet | | | |
| Profile | | | FTP SMTP HTTP TCP UDP IP |
| Data transfer rate | | MBit/s | 100Base-TX 10Base-T |
| Potential isolation | | | 500 V _{r.m.s.} |
| Programming interface | | | yes |
| Connections | | | RJ45 |
| USB | | | |
| USB Host | | | USB 2.0 |
| Potential isolation | | | None |
| USB device | | | USB 2.0 |
| Potential isolation | | | None |
| additional interfaces | | | |
| PROFIBUS | | | |
| | | | – |
| CAN | | | |
| | | | – |
| SmartWire-DT | | | ✓ |
| Profile | | | SmartWire-DT |
| Data transfer rate | | kbit/s | max. 250 |
| Potential isolation | | | None |
| Module | | Count | 99 |
| Connections | | | Blade terminal SWD4-8MF2 |
| RS485 | | | ✓ |
| Connections | | | 9-pin D-sub (plug) |
| RS232 | | | ✓ |
| Data transfer rate | | kbit/s | max. 57.6 |
| Potential isolation | | | None |
| Connections | | | 9-pin D-sub (plug) |
| RTC (real-time clock) | | | yes |

Design verification as per IEC/EN 61439

| | | | |
|--|-------------------|----|--|
| Technical data for design verification | | | |
| Rated operational current for specified heat dissipation | I _n | A | 0 |
| Heat dissipation per pole, current-dependent | P _{vid} | W | 0 |
| Equipment heat dissipation, current-dependent | P _{vid} | W | 0 |
| Static heat dissipation, non-current-dependent | P _{vs} | W | 6 |
| Heat dissipation capacity | P _{diss} | W | 0 |
| Operating ambient temperature min. | | °C | 0 |
| Operating ambient temperature max. | | °C | 55 |
| IEC/EN 61439 design verification | | | |
| 10.2 Strength of materials and parts | | | |
| 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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric 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 Insulation properties | | | |
| 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. |

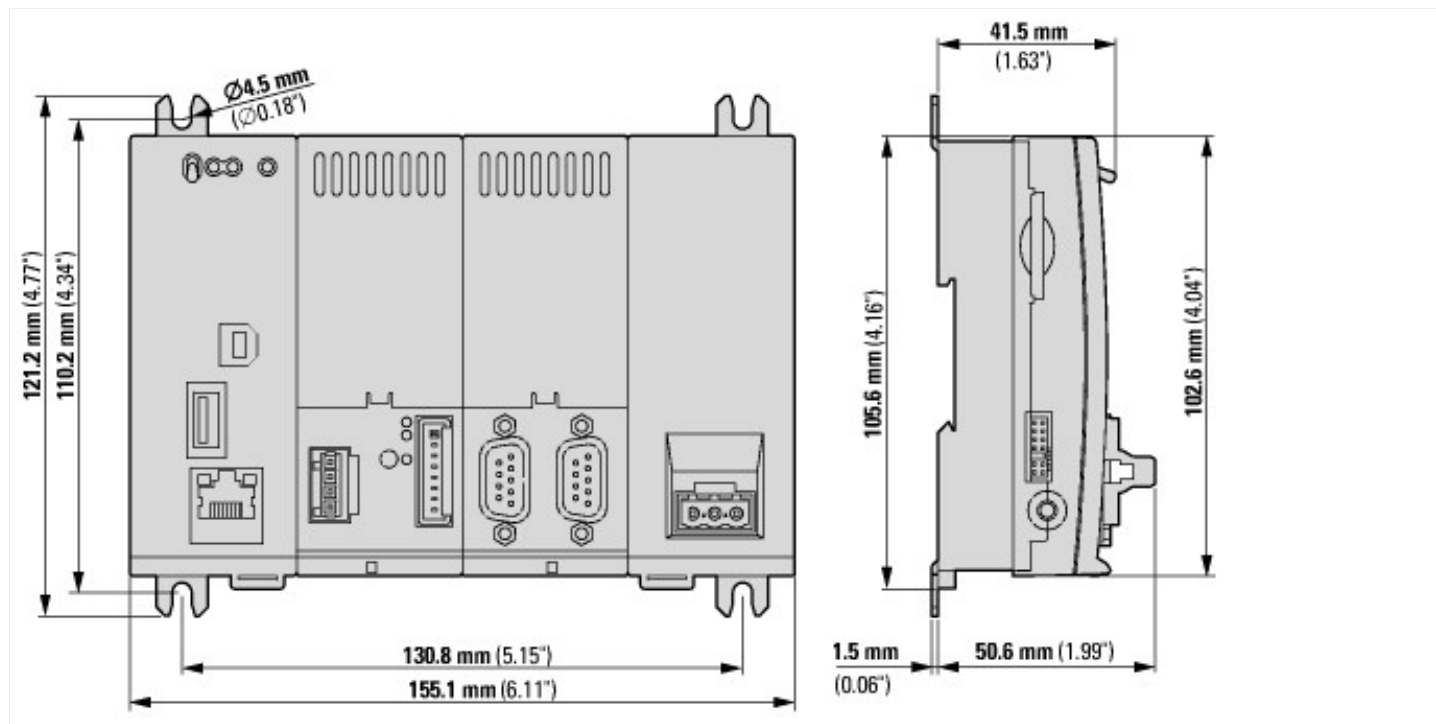
Technical data ETIM 7.0

| | | | |
|--|--|--|-----|
| PLC's (EG000024) / PLC device set (EC002581) | | | |
| Electric engineering, automation, process control engineering / Control / Programmable logic control (SPS) / PLC device set (ecl@ss10.0.1-27-24-22-19 [BAA707013]) | | | |
| Contains function building blocks | | | Yes |
| Contains basic device | | | Yes |
| Contains module rack | | | No |
| Contains power supply | | | Yes |
| Contains analogue input module | | | No |
| Contains analogue output module | | | No |
| Contains digital input module | | | No |
| Contains digital output module | | | No |
| Contains function module | | | Yes |
| Contains technology module | | | Yes |
| Contains communication module | | | Yes |
| Contains memory unit | | | Yes |
| Contains simulation module | | | No |
| Contains connection cable | | | No |
| Contains control unit | | | No |
| Contains monitor | | | No |
| Contains programming software | | | No |
| Contains engineering software | | | Yes |
| Contains visualization | | | Yes |
| Contains libraries | | | Yes |
| Contains documentation | | | Yes |
| Contains other components | | | Yes |
| Software preinstalled | | | No |

Approvals

| | | | |
|-----------------------------|--|--|--|
| Product Standards | | | UL508, cULus; IEC/EN 61131-2, CE |
| UL File No. | | | E205091 |
| UL Category Control No. | | | NRAQ |
| CSA File No. | | | UL report applies to US and Canada |
| CSA Class No. | | | - |
| North America Certification | | | UL listed, certified by UL for use in Canada |
| Degree of Protection | | | IEC:IP20, UL/CSA Tape: open type |

Dimensions



Assets (links)

Declaration of CE Conformity

00002507

Instruction Leaflets

IL05003006Z2018_02

Manuals

MN050001ZU_DE (German)

MN050001ZU_EN (English)

MN05003007Z-DE (German)

MN05003007Z-EN (English)

Additional product information (links)

Instruction leaflet "XC-152 compact PLC" IL05003006Z

Instruction leaflet "XC-152 compact PLC" ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05003006Z2018_02.pdf
IL05003006Z

MN050001ZU Operator manual XC-152 compact PLC

MN050001ZU Bedienerhandbuch XC-152 ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN050001ZU_DE.pdf
Kompakt-SPS - Deutsch

MN050001ZU Operator manual XC-152 compact ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN050001ZU_EN.pdf
PLC - English

User manual XSoft-CoDeSys-2, SPS programming XC152 MN05003007Z

Benutzerhandbuch XSoft-CoDeSys-2, SPS- ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05003007Z-DE.pdf
Programmierung XC152 MN05003007Z - Deutsch

Benutzerhandbuch XSoft-CoDeSys-2, SPS- ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05003007Z_DE.pdf
Programmierung XC152 MN05003007Z - Deutsch

User manual XSoft-CoDeSys-2, SPS ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05003007Z-EN.pdf
programming XC152 MN05003007Z - English

User manual XSoft-CoDeSys-2, SPS ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05003007Z_EN.pdf
programming XC152 MN05003007Z - English

Manual XSOFT-CODESYS-3, SPS programming MN048008ZU

Handbuch XSOFT-CODESYS-3, SPS- ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN048008ZU_DE.pdf
Programmierung MN048008ZU - Deutsch

Manual XSOFT-CODESYS-3, SPS programming ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN048008ZU_EN.pdf
MN048008ZU - English

System description, Windows CE MN05010007Z

Systembeschreibung, Windows CE ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05010007Z_DE.pdf
MN05010007Z - Deutsch

System description, Windows CE MN05010007Z ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05010007Z_EN.pdf
- English

SmartWire-DT manual, The System MN05006002Z

| | |
|--|---|
| Handbuch SmartWire-DT, Das System MN05006002Z - Deutsch | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006002Z_DE.pdf |
| SmartWire-DT manual, The System MN05006002Z - English | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006002Z_EN.pdf |
| Manuale SmartWire-DT, il sistema MN05006002Z - italiano | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006002Z_IT.pdf |
| SmartWire-DT manual, SWD module IP20 MN05006001Z | |
| Handbuch SmartWire-DT, SWD-Modul IP20 MN05006001Z - Deutsch | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006001Z_DE.pdf |
| SmartWire-DT manual, SWD module IP20 MN05006001Z - English | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006001Z_EN.pdf |
| Manuale SmartWire-DT, modulo SWD IP20 MN05006001Z - italiano | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006001Z_IT.pdf |
| Manual SmartWire-DT, SWD module IP6x MN120006 | |
| Handbuch SmartWire-DT, SWD-Modul IP6x MN120006 - Deutsch | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN120006_DE.pdf |
| Manual SmartWire-DT, SWD module IP6x MN120006 - English | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN120006_EN.pdf |
| SmartWire-DT product range catalog | http://ecat.moeller.net/flip-cat/?edition=SWKAT&startpage=12 |
| Technical data | http://ecat.moeller.net/flip-cat/?edition=SWKAT&startpage=52 |
| f1=1454&f2=1242&f3=1773;Download Software GALILEO | http://applications.eaton.eu/sdlc?LX=11&amp |
| Product overview (WEB) | http://www.eaton.eu/xc152 |