



Compact PLC, 24 V DC, ethernet, RS232, RS485, PROFIBUS DP

Part no. XC-152-D8-11
Article no. 167849
Catalog No. XC-152-D8-11

Delivery program

| | | | |
|--------------------------------|--|-------|--------------------------------------------------------------------------------------------|
| Product range | | | SmartWire-DT PLC |
| 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 RS232 1 x RS485 1 x USB host 2.0 1 x PROFIBUS/MPI |
| Slots | | | 1 x SD Slot |
| Memory | | | |
| Application/marker/retain data | | KByte | 64 MB/4 KB/32 KB |

Technical data

General

| | | | |
|------------------------|---|----|-------------------|
| Standards | | | EN 61131, UL 508 |
| Approvals | | | CE, cULus |
| Ambient temperature | | °C | 0 - +55 |
| Storage | θ | °C | -20 - +60 |
| Degree of Protection | | | IP20 |
| Battery (service life) | | | normally 10 years |
| Weight | | kg | 0.46 |

Power supply

| | | | |
|--------------------------|-------|------|-------------------------------------------------------------------------------------------------|
| Supply voltage | | V DC | 24 |
| Permissible range | U_e | | 18 - 30 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 | | | |

| | | | |
|-----------------------|--|--------|-----------------------|
| | | | ✓ |
| Profile | | | DP V1 MPI (Master) |
| Data transfer rate | | kbit/s | max. 1500 |
| Potential isolation | | | None |
| Module | | Count | 126 |
| Connections | | | 9-pin D-sub (socket) |
| CAN | | | – |
| SmartWire-DT | | | – |
| RS485 | | | – |
| 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. |

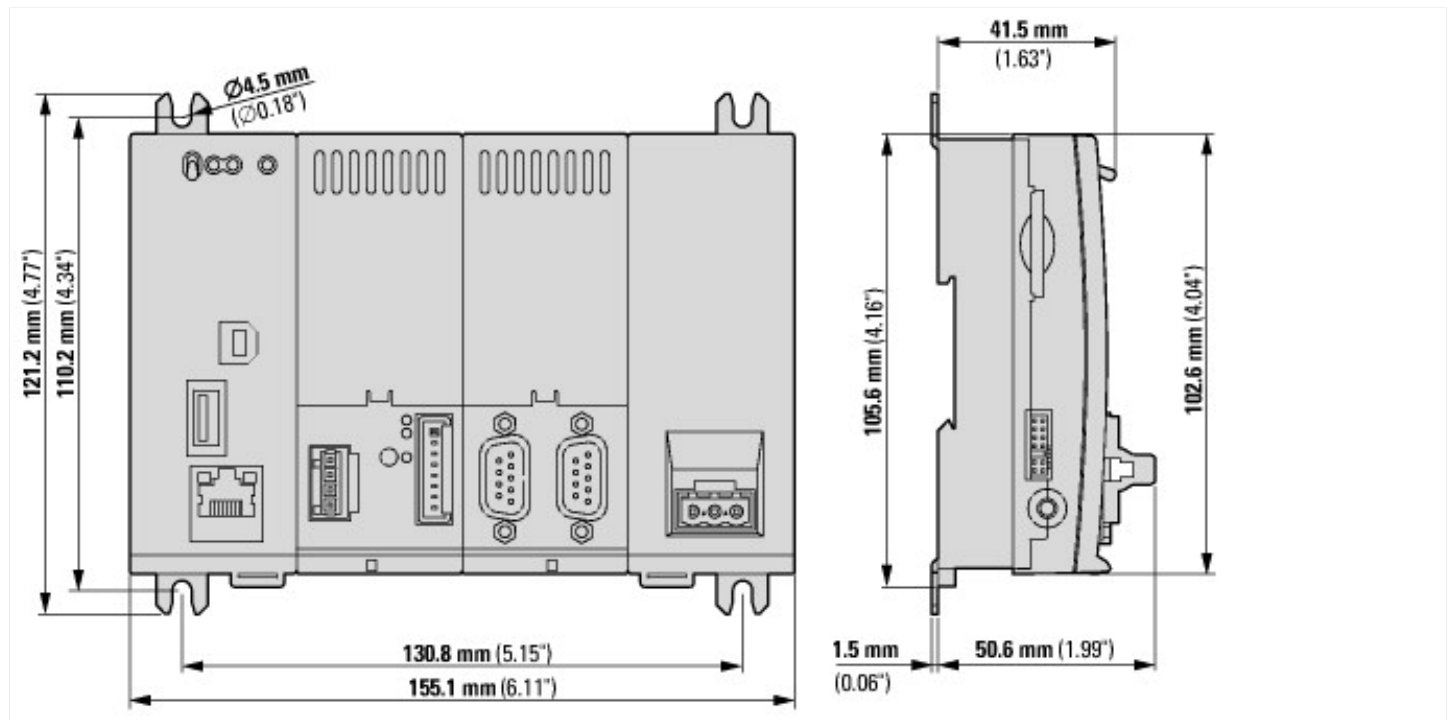
Technical data ETIM 6.0

PLC's (EG000024) / PLC device set (EC002581)

Electric engineering, automation, process control engineering / Control / Programmable logic control (SPS) / PLC device set (ecl@ss8.1-27-24-22-19 [BAA707010])

| | |
|-----------------------------------|-----|
| 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 |

Dimensions



Additional product information (links)

Instruction leaflet "XC-152 compact PLC" IL05003006Z

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ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL05003006Z2012_12.pdf

MN04802006Z Operator manual XV-152

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| MN04802006Z Betriebsanleitung XV-152 - Deutsch | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04802006Z_DE.pdf |
| MN04802006Z Operator manual XV-152 - English | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04802006Z_EN.pdf |
| MN04802013Z quick-start instructions XV100 | |
| MN04802013Z Schnellstartanleitung XV100 - Deutsch | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04802013Z_DE.pdf |
| MN04802013Z quick-start instructions XV100 - English | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN04802013Z_EN.pdf |
| MN05003007Z User manual XSoft-CoDeSys-2, PLC programming XC152 | |
| MN05003007Z Benutzerhandbuch XSoft-CoDeSys-2, SPS-Programmierung XC152 - Deutsch | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05003007Z-DE.pdf |
| MN05003007Z Benutzerhandbuch XSoft-CoDeSys-2, SPS-Programmierung XC152 - Deutsch | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05003007Z_DE.pdf |
| MN05003007Z User manual XSoft-CoDeSys-2, PLC programming XC152 - English | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05003007Z-EN.pdf |
| MN05003007Z User manual XSoft-CoDeSys-2, PLC programming XC152 - English | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05003007Z_EN.pdf |
| MN048008ZU Manual XSOFT-CODESYS-3, PLC programming | |
| MN048008ZU Handbuch XSOFT-CODESYS-3, SPS-Programmierung - Deutsch | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN048008ZU_DE.pdf |
| MN048008ZU Manual XSOFT-CODESYS-3, PLC programming - English | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN048008ZU_EN.pdf |