



**EC4P starter kit, consisting of EC4P-221-MTXD1, programming cable, software**

**Part no.  
Catalog No.**

**EC4P-BOX-221-MTXD  
106410**

## Delivery program

|                  |   |                |
|------------------|---|----------------|
| Heat dissipation | P | Normally 3.4 W |
|------------------|---|----------------|

## 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  | 3.4  |
| Heat dissipation capacity  | $P_{diss}$ | W  | 0  |
| Operating ambient temperature min.   |            | °C | -25  |
| 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 (ec@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  |  | Yes |

|                                 |  |     |
|---------------------------------|--|-----|
| Contains analogue output module |  | No  |
| Contains digital input module   |  | Yes |
| Contains digital output module  |  | Yes |
| Contains function module        |  | Yes |
| Contains technology module      |  | No  |
| Contains communication module   |  | Yes |
| Contains memory unit            |  | Yes |
| Contains simulation module      |  | Yes |
| Contains connection cable       |  | Yes |
| Contains control unit           |  | Yes |
| Contains monitor                |  | Yes |
| Contains programming software   |  | Yes |
| Contains engineering software   |  | Yes |
| Contains visualization          |  | No  |
| Contains libraries              |  | Yes |
| Contains documentation          |  | Yes |
| Contains other components       |  | Yes |
| Software preinstalled           |  | No  |

## Additional product information (links)

|   |   |
|---|---|
| <b>Instruction leaflet "easyControl: compact PLC" IL05003003Z (AWA2724-2334)</b>                |   |
| Instruction leaflet "easyControl: compact PLC" IL05003003Z (AWA2724-2334)                       | <a href="https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL05003003Z2018_02.pdf">https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL05003003Z2018_02.pdf</a> |
| <b>Instruction leaflet "power supply unit, communication module" IL05013018Z (AWA2528-2175)</b> |   |
| Instruction leaflet "power supply unit, communication module" IL05013018Z (AWA2528-2175)        | <a href="https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL05013018Z2018_02.pdf">https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL05013018Z2018_02.pdf</a> |
| <b>MN05003003Z Manual easyControl, programmable PLC EC4-200</b>                                 |   |
| MN05003003Z Handbuch easyControl, SPS EC4-200 - Deutsch   | <a href="https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN05003003Z_DE.pdf">https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN05003003Z_DE.pdf</a>                   |
| MN05003003Z Manual easyControl, programmable PLC EC4-200 - English                              | <a href="https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN05003003Z_EN.pdf">https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN05003003Z_EN.pdf</a>                   |
| Product overview (WEB)  | <a href="http://www.eaton.eu/ec4p">http://www.eaton.eu/ec4p</a>   |