



**Starter package consisting of EASY-E4-DC-12TC1, patch cable and software license for easySoft**

**Part no. EASY-BOX-E4-DC1**  
**Catalog No. 197228**

## Delivery program

|                            |  |                           |
|----------------------------|--|---------------------------|
| Product range              |  | Control relays easyE4     |
| Basic function             |  | Starter kit               |
| Included devices           |  |                           |
| Y7-197213 EASY-E4-DC-12TC1 |  | easyE4 base unit          |
| Y7-197226 EASYSOFT-SWLIC   |  | Software license          |
|                            |  | Patch cable               |
| Supply voltage             |  | 24 V DC                   |
| Software                   |  | EASYSOFT-SWLIC/easySoft 7 |

## Design verification as per IEC/EN 61439

| Technical data for design verification   |                 |    |  |
|--|-----------------|----|--|
| Static heat dissipation, non-current-dependent   | P <sub>vs</sub> | W  | 2  |
| 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) / Logic module (EC001417)   |  |   |             |
| Electric engineering, automation, process control engineering / Control / Programmable logic control (SPS) / Logic module (ecl@ss10.0.1-27-24-22-16 [AKE539014]) |  |   |             |
| Supply voltage AC 50 Hz  |  | V | 0 - 0       |
| Supply voltage AC 60 Hz  |  | V | 0 - 0       |
| Supply voltage DC  |  | V | 20.4 - 28.8 |

|   |   |      |
|---|---|------|
| Voltage type of supply voltage                      |   | DC   |
| Switching current                                   | A | 0.5  |
| Number of analogue inputs                           |   | 0    |
| Number of analogue outputs                          |   | 0    |
| Number of digital inputs                            |   | 8    |
| Number of digital outputs                           |   | 4    |
| With relay output                                   |   | No   |
| Number of HW-interfaces industrial Ethernet         |   | 1    |
| Number of interfaces PROFINET                       |   | 0    |
| Number of HW-interfaces RS-232                      |   | 0    |
| Number of HW-interfaces RS-422                      |   | 0    |
| Number of HW-interfaces RS-485                      |   | 0    |
| Number of HW-interfaces serial TTY                  |   | 0    |
| Number of HW-interfaces USB                         |   | 0    |
| Number of HW-interfaces parallel                    |   | 0    |
| Number of HW-interfaces Wireless                    |   | 0    |
| Number of HW-interfaces other                       |   | 1    |
| With optical interface                              |   | No   |
| Supporting protocol for TCP/IP                      |   | Yes  |
| Supporting protocol for PROFIBUS                    |   | No   |
| Supporting protocol for CAN                         |   | No   |
| Supporting protocol for INTERBUS                    |   | No   |
| Supporting protocol for ASI                         |   | No   |
| Supporting protocol for KNX                         |   | No   |
| Supporting protocol for MODBUS                      |   | Yes  |
| Supporting protocol for Data-Highway                |   | No   |
| Supporting protocol for DeviceNet                   |   | No   |
| Supporting protocol for SUCONET                     |   | No   |
| Supporting protocol for LON                         |   | No   |
| Supporting protocol for PROFINET IO                 |   | No   |
| Supporting protocol for PROFINET CBA                |   | No   |
| Supporting protocol for SERCOS                      |   | No   |
| Supporting protocol for Foundation Fieldbus         |   | No   |
| Supporting protocol for EtherNet/IP                 |   | No   |
| Supporting protocol for AS-Interface Safety at Work |   | No   |
| Supporting protocol for DeviceNet Safety            |   | No   |
| Supporting protocol for INTERBUS-Safety             |   | No   |
| Supporting protocol for PROFIsafe                   |   | No   |
| Supporting protocol for SafetyBUS p                 |   | No   |
| Supporting protocol for other bus systems           |   | No   |
| Radio standard Bluetooth                            |   | No   |
| Radio standard WLAN 802.11                          |   | No   |
| Radio standard GPRS                                 |   | No   |
| Radio standard GSM                                  |   | No   |
| Radio standard UMTS                                 |   | No   |
| IO link master                                      |   | No   |
| Redundancy  |   | No   |
| With display  |   | Yes  |
| Degree of protection (IP)                           |   | IP20 |
| Basic device  |   | Yes  |
| Expandable  |   | Yes  |
| Expansion device                                    |   | No   |
| With timer  |   | Yes  |
| Rail mounting possible                              |   | Yes  |
| Wall mounting/direct mounting                       |   | Yes  |

|                                       |    |      |
|---------------------------------------|----|------|
| Front build in possible               |    | Yes  |
| Rack-assembly possible                |    | No   |
| Suitable for safety functions         |    | No   |
| Category according to EN 954-1        |    | None |
| SIL according to IEC 61508            |    | None |
| Performance level acc. EN ISO 13849-1 |    | None |
| Appendant operation agent (Ex ia)     |    | No   |
| Appendant operation agent (Ex ib)     |    | No   |
| Explosion safety category for gas     |    | None |
| Explosion safety category for dust    |    | None |
| Width                                 | mm | 71.5 |
| Height                                | mm | 90   |
| Depth                                 | mm | 58   |

## Approvals

|                      |  |                           |
|----------------------|--|---------------------------|
| Degree of Protection |  | IEC: IP20, UL/CSA Type: - |
|----------------------|--|---------------------------|

## Dimensions

