



Starter package consisting of EASY-E4-AC-12RC1, patch cable and software license for easySoft



Part no. EASY-BOX-E4-AC1
Catalog No. 197229

Delivery program

Product range		Control relays easyE4
Basic function		Starter kit
Supply voltage		100 - 240 V AC, 100 - 240 V DC (cULus: 100 - 110 V DC)
Software		EASYSOFT-SWLIC/easySoft 7

Technical data

General

Standards		EN 61000-6-2 EN 61000-6-3 IEC 60068-2-6 IEC 60068-2-27 IEC 60068-2-30 IEC 61131-2 EN 61010 EN 50178
Mounting		Top-hat rail IEC/EN 60715, 35 mm or screw fixing using fixing brackets ZB4-101-GF1 (accessories)

Terminal capacities

Solid	mm ²	0.2/4 (AWG 22 - 12)
Flexible with ferrule	mm ²	0.2/2.5 (AWG 22 - 12)
Standard screwdriver	mm	0.8 x 3.5

Climatic environmental conditions

Operating ambient temperature	°C	-25 to 55, cold as per IEC 60068-2-1, heat as per IEC 60068-2-2
Condensation		Take appropriate measures to prevent condensation
LCD display (clearly legible)	°C	0 - 55
relative humidity	%	in accordance with IEC 60068-2-30, IEC 60068-2-78 5 - 95
Air pressure (operation)	hPa	795 - 1080

Ambient conditions, mechanical

Protection type (IEC/EN 60529, EN50178, VBG 4)		IP20
Vibrations	Hz	In accordance with IEC 60068-2-6 constant amplitude 0.15 mm: 10 - 57 constant acceleration 2 g: 57 - 150
Mechanical shock resistance (IEC/EN 60068-2-27) semi-sinusoidal 15 g/11 ms	Impacts	18
Drop to IEC/EN 60068-2-31	Drop height mm	50
Free fall, packaged (IEC/EN 60068-2-32)	m	1
Mounting position		Vertical or horizontal

Electromagnetic compatibility (EMC)

Overvoltage category/pollution degree		III/2
Electrostatic discharge (ESD)		
applied standard		according to IEC EN 61000-4-2
Air discharge	kV	8
Contact discharge	kV	4
Immunity to line-conducted interference to (IEC/EN 61000-4-6)	V	10

Insulation resistance

Clearance in air and creepage distances		nach EN 50178, EN 61010-2-201, UL61010-2-201, CSA-C22.2 NO. 61010-2-201
Insulation resistance		per EN 50178, EN 61010-2-201, UL61010-2-201, CSA-C22.2 NO. 61010-2-201

Back-up of real-time clock

Accuracy of real-time clock to inputs	s/day	typ. ± 2 (± 0.2 h/Year)
		depending on ambient air temperature fluctuations of up to ± 5 s/day (± 0.5 h/year) are possible

Design verification as per IEC/EN 61439

Technical data for design verification		
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

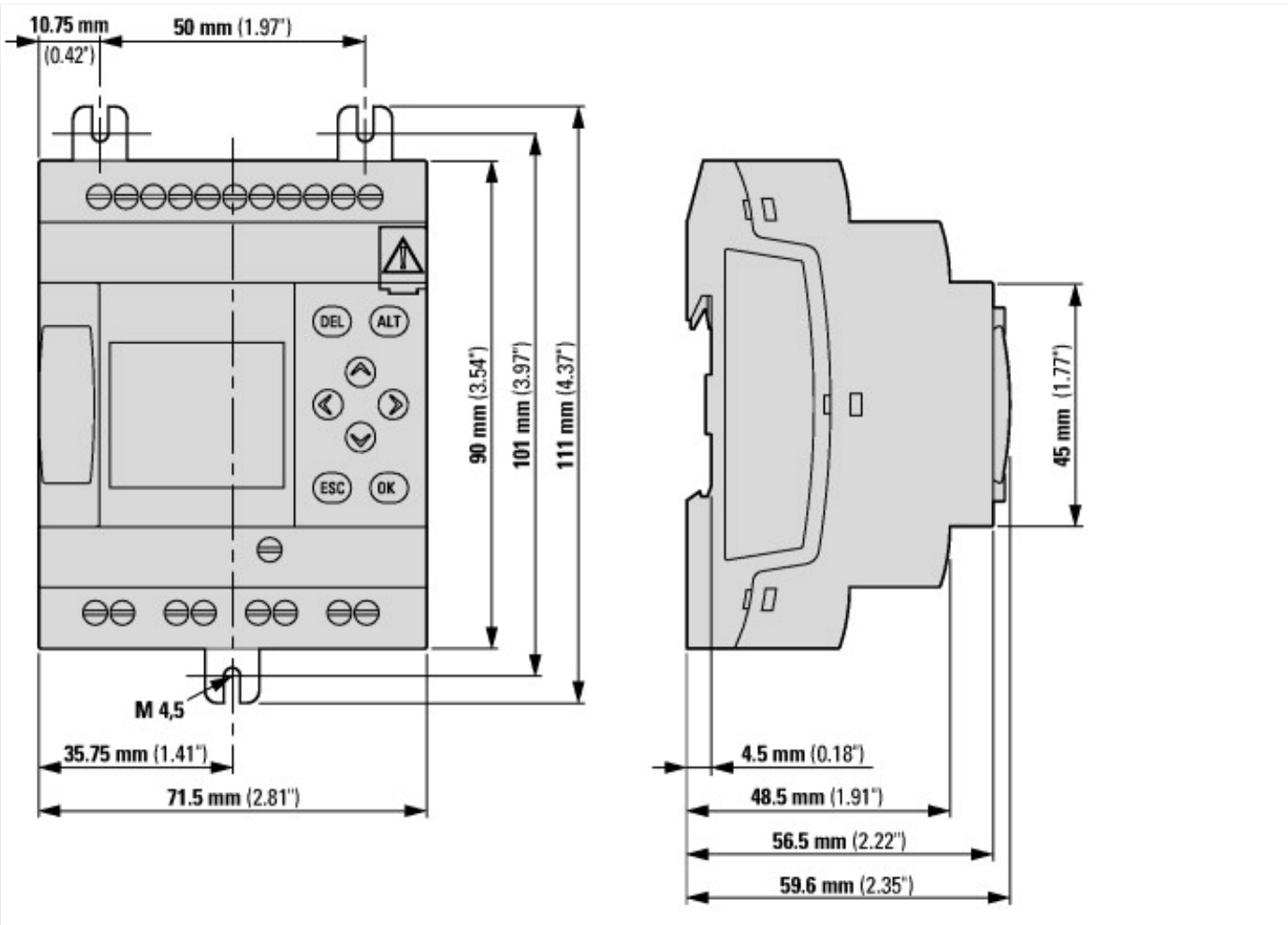
PLC's (EG000024) / Logic module (EC001417)		
Electric engineering, automation, process control engineering / Control / Programmable logic control (SPS) / Logic module (ecl@ss10.0.1-27-24-22-16 [AKE539014])		
Supply voltage AC 50 Hz	V	85 - 264
Supply voltage AC 60 Hz	V	85 - 264
Supply voltage DC	V	85 - 264
Voltage type of supply voltage		AC/DC
Switching current	A	8
Number of analogue inputs		0
Number of analogue outputs		0
Number of digital inputs		8
Number of digital outputs		4
With relay output		Yes
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		0
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: -
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Dimensions



Additional product information (links)

assembly instructions easyE4 IL050020ZU	
assembly instructions easyE4 IL050020ZU	https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL050020ZU.pdf
easyE4 (MN050009) manual	
easyE4 – Handbuch (MN050009) - Deutsch	https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN050009_DE.pdf
easyE4 (MN050009) manual - English	https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN050009_EN.pdf
manuel easyE4 (MN050009) - français	https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN050009_FR.pdf
Manuale easy E4 (MN050009) - italiano	https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN050009_IT.pdf
instrukcja easyE4 (MN050009) - polski	https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN050009_PL.pdf
Product overview (WEB)	http://www.eaton.eu/easyE4