Lifespan, electrical

Control relays easyE4 with display (expandable, Ethernet), 12/24 V DC, 24 V AC, Inputs Digital: 8, of which can be used as analog: 4, screw terminal



EASY-E4-UC-12RC1 Part no.

197211

El Number

1E00E16

Product name Part no CASY F-4 U.C 19EC FAN Product Length/Dupth Product Length/Dupth Product Length/Dupth Product Length/Dupth Product weight Commission	EL Number 4500546 (Norway)	
Part ro. EASY EA-UC-120CT Product Incitrol/upph Product Neight Product Width Product Sale Sale Sale Sale Sale Sale Sale Sale	General specifications	
FAV Product Length Depth Product Length Depth Product Length Depth Product Length Depth Product Vestight Product Stard Produc	Product name	Eaton Moeller® series EASY Control relay
Product Length Chepit Product Weight Definition of Compliances Certifications Cer	Part no.	EASY-E4-UC-12RC1
Product width Product width Product width Product width Complainces Cardications Ca	EAN	4015081939480
Product width Product weight Compliances Certifications Certificat	Product Length/Depth	58 millimetre
Product weight Compliances Certifications Certifica	Product height	90 millimetre
Certifications Certif	Product width	72 millimetre
Ec 0908-2-1 Cloud profit listing EC 0908-2-1 Cloud profit listing EC 0908-2-1 Cloud profit listing EC 0908-2-30 ECEPH 61008-4-2 EC 6908-2-7 EN 6100 ECEPH 61008-2-3 ECEPH 61008-2-7 EN 6100 ECEPH 61008-2-7 EN 6100 ECEPH 61008-2-7 ECEPH 61008-2-7 ECEPH 61008-2-7 ECEPH 61008-2-7 ECEPH 61008-2-2 ECEPH 61008-2 ECEPH 61008-2-2 ECEPH 61008-2 ECEPH 61008-2-2 ECEPH 61008-2 ECEPH 61008-2 ECEPH 6100	Product weight	0.25 kilogram
LES 5078 CULtus per UL 61010 LICE/18 10000-12 LICE 500808-2-20 LICE 500808-2-20 LICE 500808-2-21 LICE/18 10000-13 CSA-C272-No. 61010 LICE/18 10000-13 CSA-C272-No. 61010 LICE/18 10000-13 LICE/18 100000-13 LICE/18 10000-13 LICE/18 100000-13 LICE/18 10000-13 LICE/18 10000-13 LICE/18 10000-13 LICE/18 100000-13 LICE/18 1000000-13 LICE/18 1000000-13 LICE/18 1000000-13 LICE/18 100000-13 LICE/18 1000000-13 LICE/18 1000000-13	Compliances	Contact Manufacturer
Product Type Product Sub Type Catalog Notes Catalog Notes Features & Functions Features Fitted with: Indication Degree of protection Display temperature - min Display temperature - min Display temperature - min Display temperature - min Display temperature - max Display temperature - max Display type Frequency counter Frequency counter Input frequency I	Certifications	EN 50178 CULus per UL 61010 IEC/EN 61000-4-2 IEC 60068-2-30 IEC 60068-2-27 EN 61010 IEC/EN 61000-6-3 CSA-C22.2 No. 61010 IEC/EN 61131-2 IEC/EN 61000-6-2 CE UL Category Control No.: NRAQ, NRAQ7 UL Listed UL File No.: E205091 DNV GL UL hazardous location group A (acetylene) UL hazardous location group D (propane) UL hazardous location group C (ethylene) UL hazardous location division 2
Product Sub Type Catalog Notes Accuracy of the real-time clock depending on ambient air temperature - fluctuations of up to ± 5 s/day (± 0.5 h/year) are possible Features Features Features Expandable Display indication of 6 lines x 16 characters Networkable (Ethernet) Pagel time clock Relay output Keypad Timer Indication Degree of protection Display temperature - min Display temperature - min Display temperature - max Display temperature - max Display type Frequency counter Frequency counter Frequency counter Frequency counter Frequency counter Frequency SkHz (Digital inputs 24 V DC) Cuble length: ≤ 20 m (screened, Digital inputs 24 V DC) Cuble length: ≤ 20 m (screened, Digital inputs 24 V DC) Cuble length: ≤ 20 m (screened, Digital inputs 24 V DC) Cuble length: ≤ 20 m (screened, Digital inputs 24 V DC) Cuble length: ≤ 20 m (screened, Digital inputs 24 V DC) Cuble length: ≤ 20 m (screened, Digital inputs 24 V DC) Cuble length: ≤ 20 m (screened, Digital inputs 24 V DC) Cuble length: ≤ 20 m (screened, Digital inputs 24 V DC) Cuble length: ≤ 20 m (screened, Digital inputs 24 V DC) Cuble length: ≤ 20 m (screened, Digital inputs 24 V DC) Cuble length: ≤ 20 m (screened, Digital inputs 24 V DC) Cuble length: ≤ 20 m (screened, Digital inputs 24 V DC) Cuble length: ≤ 20 m (screened, Digital inputs 24 V DC) Cuble length: ≤ 20 m (screened, Digital inputs 24 V DC) Cuble length: ≤ 20 m (screened, Digital inputs 24 V DC) Cuble length: ≤ 20 m (screened, Digital inputs 24 V DC) Counter frequency: 5 kHz (Digital inputs 24 V DC)	Product Tradename	EASY
Product Sub Type Catalog Notes Accuracy of the real-time clock depending on ambient air temperature - fluctuations of up to ± 5 s/day (± 0.5 h/year) are possible Features Features Features Expandable Display indication of 6 lines x 16 characters Networkable (Ethernet) Pagel time clock Relay output Keypad Timer Indication Degree of protection Display temperature - min Display temperature - min Display temperature - max Display temperature - max Display type Frequency counter Frequency counter Frequency counter Frequency counter Frequency counter Frequency SkHz (Digital inputs 24 V DC) Cuble length: ≤ 20 m (screened, Digital inputs 24 V DC) Cuble length: ≤ 20 m (screened, Digital inputs 24 V DC) Cuble length: ≤ 20 m (screened, Digital inputs 24 V DC) Cuble length: ≤ 20 m (screened, Digital inputs 24 V DC) Cuble length: ≤ 20 m (screened, Digital inputs 24 V DC) Cuble length: ≤ 20 m (screened, Digital inputs 24 V DC) Cuble length: ≤ 20 m (screened, Digital inputs 24 V DC) Cuble length: ≤ 20 m (screened, Digital inputs 24 V DC) Cuble length: ≤ 20 m (screened, Digital inputs 24 V DC) Cuble length: ≤ 20 m (screened, Digital inputs 24 V DC) Cuble length: ≤ 20 m (screened, Digital inputs 24 V DC) Cuble length: ≤ 20 m (screened, Digital inputs 24 V DC) Cuble length: ≤ 20 m (screened, Digital inputs 24 V DC) Cuble length: ≤ 20 m (screened, Digital inputs 24 V DC) Cuble length: ≤ 20 m (screened, Digital inputs 24 V DC) Cuble length: ≤ 20 m (screened, Digital inputs 24 V DC) Counter frequency: 5 kHz (Digital inputs 24 V DC)		
Accuracy of the real-time clock depending on ambient air temperature-fluctuations of up to ± 5 s/day (± 0.5 h/year) are possible Features Features Expandable Display indication of 6 lines x 16 characters Networkable (Ethernet) Display Real time clock Relay output Reypad Timer LCD-display used as status indication of Digital inputs 24 V DC LCD-display used as status indication of Digital inputs 12 V DC Experimentation Degree of protection Display temperature - min Display temperature - max Display temperature - max Display type Frequency counter Pulse shape: Square (digital inputs 24 V DC) Cable length: ≤ 20 m (screened, Digital inputs 24 V DC) Number: 4 (In, Iz, Is, Is - Digital inputs 24 V DC) Number: 4 (In, Iz, Is, Is - Digital inputs 24 V DC) Counter frequency: 5 kHz (Digital inputs 24 V DC) Counter frequency: 5 kHz (Digital inputs 24 V DC) Counter frequency: 5 kHz (Digital inputs 24 V DC) Counter frequency: 5 kHz (Digital inputs 24 V DC)		
Features & Functions Features Features Expandable Display indication of 6 lines x 16 characters Networkable (Ethernet) Display Real time clock Relay output Keypad Timer LCD-display used as status indication of Digital inputs 24 V DC Cable length: - max Display temperature - min Display temperature - max Display temperature - max Display type Frequency counter Frequency counter Input frequency Selection Frequency Frequenc		
Expandable Display indication of 6 lines x 16 characters Networkable (Ethernet) Fitted with: Fitted with: Indication Indication Indication Degree of protection Display temperature - min Display temperature - max Display temperat		
Display indication of 6 lines x 16 characters Networkable (Ethernet) Fitted with: Sipaly Real time clock Relay output Keypard Timer Indication LCD-display used as status indication of Digital inputs 24 V DC LCD-display used as status indication of Digital inputs 12 V DC LCD-display used as status indicat	Features & Functions	
Real time clock Relay output Keypad Timer Indication LCD-display used as status indication of Digital inputs 24 V DC LCD-display used as status indication of Digital inputs 12 V DC General information Degree of protection Display temperature - min Display temperature - max Display type Frequency counter Frequency counter Pulse shape: Square (digital inputs 24 V DC) Number: 4 (11, 12, 13, 14 - Digital inputs 24 V DC) Number: 4 (11, 12, 13, 14 - Digital inputs 24 V DC) Counter frequency: 5 kHz (Digital inputs 24 V DC) Counter frequency: 5 kHz (Digital inputs 24 V DC) Counter frequency: 5 kHz (Digital inputs 24 V DC) Counter frequency: 5 kHz (Digital inputs 24 V DC) Counter frequency: 5 kHz (Digital inputs 24 V DC)	Features	Display indication of 6 lines x 16 characters
LCD-display used as status indication of Digital inputs 12 V DC Begree of protection Display temperature - min Display temperature - max Display temperature - max Display type Monochrome Frequency counter Pulse shape: Square (digital inputs 24 V DC) Cable length: ≤ 20 m (screened, Digital inputs 24 V DC) Number: 4 (11, 12, 13, 14 - Digital inputs 24 V DC) Pulse pause ratio: 1:1 (Digital inputs 24 V DC) Counter frequency: 5 kHz (Digital inputs 24 V DC) Linput frequency S0/60 Hz (Digital inputs, at 24 V DC)	Fitted with:	Real time clock Relay output Keypad
Degree of protection Display temperature - min Display temperature - max Display temperature - max Display type Monochrome Frequency counter Pulse shape: Square (digital inputs 24 V DC) Cable length: ≤ 20 m (screened, Digital inputs 24 V DC) Number: 4 (11, 12, 13, 14 - Digital inputs 24 V DC) Pulse pause ratio: 1:1 (Digital inputs 24 V DC) Counter frequency: 5 kHz (Digital inputs 24 V DC) Input frequency 50/60 Hz (Digital inputs, at 24 V DC)	Indication	
Display temperature - min Display temperature - max 55 °C Display type Monochrome Frequency counter Pulse shape: Square (digital inputs 24 V DC) Cable length: ≤ 20 m (screened, Digital inputs 24 V DC) Number: 4 (I1, I2, I3, I4 - Digital inputs 24 V DC) Pulse pause ratio: 1:1 (Digital inputs 24 V DC) Counter frequency: 5 kHz (Digital inputs 24 V DC) Input frequency 50/60 Hz (Digital inputs, at 24 V DC)	General information	
Display temperature - max Display type Monochrome Frequency counter Pulse shape: Square (digital inputs 24 V DC) Cable length: ≤ 20 m (screened, Digital inputs 24 V DC) Number: 4 (11, 12, 13, 14 - Digital inputs 24 V DC) Pulse pause ratio: 1:1 (Digital inputs 24 V DC) Counter frequency: 5 kHz (Digital inputs 24 V DC) Input frequency 50/60 Hz (Digital inputs, at 24 V DC)	Degree of protection	IP20
Display type Frequency counter Pulse shape: Square (digital inputs 24 V DC) Cable length: ≤ 20 m (screened, Digital inputs 24 V DC) Number: 4 (I1, I2, I3, I4 - Digital inputs 24 V DC) Pulse pause ratio: 1:1 (Digital inputs 24 V DC) Counter frequency: 5 kHz (Digital inputs 24 V DC) Input frequency 50/60 Hz (Digital inputs, at 24 V DC)	Display temperature - min	0 °C
Frequency counter Pulse shape: Square (digital inputs 24 V DC) Cable length: ≤ 20 m (screened, Digital inputs 24 V DC) Number: 4 (11, 12, 13, 14 - Digital inputs 24 V DC) Pulse pause ratio: 1:1 (Digital inputs 24 V DC) Counter frequency: 5 kHz (Digital inputs 24 V DC) Input frequency 50/60 Hz (Digital inputs, at 24 V DC)	Display temperature - max	55 °C
Cable length: ≤ 20 m (screened, Digital inputs 24 V DC) Number: 4 (I1, I2, I3, I4 - Digital inputs 24 V DC) Pulse pause ratio: 1:1 (Digital inputs 24 V DC) Counter frequency: 5 kHz (Digital inputs 24 V DC) Input frequency 50/60 Hz (Digital inputs, at 24 V DC)	Display type	Monochrome
		Cable length: ≤ 20 m (screened, Digital inputs 24 V DC) Number: 4 (I1, I2, I3, I4 - Digital inputs 24 V DC) Pulse pause ratio: 1:1 (Digital inputs 24 V DC)
Insulation resistance According to EN 50178, EN 61010-2-201, UL61010-2-201, CSA-C22.2 NO. 61010-2	Input frequency	50/60 Hz (Digital inputs, at 24 V DC)
	Insulation resistance	According to EN 50178, EN 61010-2-201, UL61010-2-201, CSA-C22.2 NO. 61010-2

25,000 Operations (Filament bulb load at 1000 W, 230/240 V AC)

	25,000 Operations (Fluorescent lamp load 10 x 58 W at 230/240 V AC,
	uncompensated) 25,000 Operations (Fluorescent lamp load 10 x 58 W at 230/240 V AC, with upstream electrical device)
	25,000 Operations (Filament bulb load at 500 W, 115/120 V AC) 25,000 Operations (Fluorescent lamp load 1 x 58 W at 230/240 V AC, conventional, compensated)
Lifespan, mechanical	10,000,000 Operations
Mounting method	Screw fixing using fixing brackets ZB4-101-GF1 (accessories) Front build in possible Rail mounting possible Top-hat rail fixing (according to IEC/EN 60715, 35 mm) Wall mounting/direct mounting
Overvoltage category	III
Pollution degree	2
Product category	Control relays easyE4
Protocol	TCP/IP MODBUS
Protection	Miniature circuit-breaker B16 or slow-blow 8 A fuse, Protection of an output relay
Rated impulse withstand voltage (Uimp)	6 kV (contact-coil)
Residual ripple	≤ 5 %
Resolution	1 min (Range H:M) 1 s (Range M:S) 12 Bit (value 0 - 4095, Analog inputs) 5 ms (Range S)
Software	EASYSOFT-SWLIC/easySoft7
Switching frequency	10 Hz, Relay outputs 2 Hz, Resistive load/lamp load, Relay outputs 0.5 Hz, Inductive load, Relay outputs
Туре	easyE4 base device
Used with	easyE4
Utilization category	B 300 Light Pilot Duty, UL/CSA Control Circuit Rating Codes AC R 300 Light Pilot Duty, UL/CSA Control Circuit Rating Codes DC
Voltage type	AC/DC
Ambient conditions, mechanical	
Drop and topple	50 mm Drop height, Drop to IEC/EN 60068-2-31
Height of fall (IEC/EN 60068-2-32) - max	0.3 m
Mounting position	Vertical Horizontal
Shock resistance	15 g, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 11 ms, 18 Impacts
Vibration resistance	10 - 57 Hz, 0.15 mm constant amplitude According to IEC/EN 60068-2-6 57 - 150 Hz, 2 g constant acceleration
Climatic environmental conditions	
Air pressure	795 - 1080 hPa (operation)
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	55 °C
Ambient storage temperature - min	-40 °C
Ambient storage temperature - max	70 °C
Environmental conditions	Clearance in air and creepage distances according to EN 50178, EN 61010-2-201, UL61010-2-201, CSA-C22.2 NO. 61010-2-201 Condensation: prevent with appropriate measures
Relative humidity	5 - 95 % (IEC 60068-2-30, IEC 60068-2-78)
Electro magnetic compatibility	
Air discharge	8 kV
Burst impulse	2 kV, Supply cable 2 kV, Signal cable According to IEC/EN 61000-4-4
Contact discharge	6 kV
Electromagnetic fields	10 V/m at 0.8 - 1.0 GHz (according to IEC EN 61000-4-3) 1 V/m at 2.0 - 2.7 GHz (according to IEC EN 61000-4-3) 3 V/m at 1.4 - 2 GHz (according to IEC EN 61000-4-3)
Immunity to line-conducted interference	10 V (according to IEC/EN 61000-4-6)
Radio interference class	Class B (EN 61000-6-3)
Surge rating	1 kV, Supply cables, symmetrical, power pulses (Surge), EMC According to IEC/EN 61000-4-5, power pulses (Surge), EMC

	2 kV, Supply cables, asymmetrical, power pulses (Surge), EMC
Voltage dips	≤ 1 ms from rated voltage (12 V DC) 10 ms
Terminal capacities	
Terminal capacity	0.2 - 4 mm² (AWG 22 - 12), solid 0.2 - 2.5 mm² (22 - 12 AWG), flexible with ferrule
Screwdriver size	3.5 x 0.8 mm, Terminal screw
Tightening torque	0.6 Nm, Screw terminals
lectrical rating	
Conventional thermal current ith of auxiliary contacts (1-pole, open)	8 A
Power consumption	3 W
Rated breaking capacity	300000 Operations at AC-15, 250 V AC, 3 A (600 Ops./h) 200000 Operations at DC-13, 24 V DC, 1 A (500 Ops./h)
Rated insulation voltage (Ui)	240 V
Rated operational voltage	Max. 300 V DC 12 V DC (digital inputs) Max. 300 V AC 240 V AC 24 V AC (-15 %/+10 % - power supply) 24 V DC (digital inputs) 12/24 V DC (-15 %/+ 20 % - power supply) 10.2 - 28.8 V DC 24 V AC (digital inputs) 20.4 - 26.4 V AC
Supply frequency	50/60 Hz (± 5%)
Supply voltage at AC, 50 Hz - min	20.4 V AC
Supply voltage at AC, 50 Hz - max	26.4 V AC
Supply voltage at DC - min	10.2 V DC
Supply voltage at DC - max	28.8 V DC
Uninterrupted current	1 A DC, at R 300 (UL/CSA) 8 A DC, at 24 V DC (UL/CSA) 5 A AC, max. thermal continuous current $\cos \phi$ = 1 at B 300 (UL/CSA) 10 A AC, at 240 V AC (UL/CSA)
Short-circuit rating	
Short-circuit protection	≥ 1A (T), Fuse, Power supply
Communication	
Connection type	Screw terminal Ethernet: RJ45 plug, 8-pole
Data transfer rate	10/100 MBit/s
Cable	
Cable length	100 m, unscreened, Digital inputs 24 V DC 100 m, unscreened, Digital inputs 24 V AC ≤ 30 m, screened, Analog inputs 100 m, unscreened, Digital inputs 12 V DC 40 m (max. per input), Digital inputs 24 V DC
Cable type	CAT5
Input/Output	
Accuracy	\pm 2 s/day, Real-time clock to inputs (\pm 0.2 h/Year) \pm 2 %, (17, 18) \pm 0.12 V, of actual value, within a single device (Analog Inputs) \pm 1 %, Repetition accuracy of timing relays (of values) \pm 3 %, of actual value, two easy devices (Analog Inputs)
Conversions	Each CPU cycle, Analog inputs
Delay time	0.015 ms typ., Digital inputs 12 V DC (I1 - I8), Delay time from 1 to 0, Debounce OF 0.015 ms typ., Digital inputs 24 V DC (I1 - I8), Delay time from 1 to 0, Debounce OF 0.015 ms typ., Digital inputs 24 V DC (I1 - I8), Delay time from 0 to 1, Debounce OF 20 ms typ., Digital inputs 12 V DC (I1 - I8), Delay time from 1 to 0, Debounce ON 20 ms typ., Digital inputs 12 V DC (I1 - I8), Delay time from 0 to 1, Debounce ON 20 ms typ., Digital inputs 24 V DC (I1 - I8), Delay time from 0 to 1, Debounce ON 20 ms typ., Digital inputs 24 V DC (I1 - I8), Delay time from 1 to 0, Debounce ON 0.015 ms typ., Digital inputs 12 V DC (I1 - I8), Delay time from 0 to 1, Debounce OF 0.0015 ms typ., Digital inputs 12 V DC (I1 - I8), Delay time from 0 to 1, Debounce OF 0.0015 ms typ., Digital inputs 12 V DC (I1 - I8), Delay time from 0 to 1, Debounce OF 0.0015 ms typ., Digital inputs 12 V DC (I1 - I8), Delay time from 0 to 1, Debounce OF 0.0015 ms typ., Digital inputs 12 V DC (I1 - I8), Delay time from 0 to 1, Debounce OF 0.0015 ms typ., Digital inputs 12 V DC (I1 - I8), Delay time from 0 to 1, Debounce OF 0.0015 ms typ., Digital inputs 12 V DC (I1 - I8), Delay time from 0 to 1, Debounce OF 0.0015 ms typ., Digital inputs 12 V DC (I1 - I8), Delay time from 0 to 1, Debounce OF 0.0015 ms typ., Digital inputs 12 V DC (I1 - I8), Delay time from 0 to 1, Debounce OF 0.0015 ms typ., Digital inputs 12 V DC (I1 - I8), Delay time from 0 to 1, Debounce OF 0.0015 ms typ., Digital inputs 12 V DC (I1 - I8), Delay time from 0 to 1, Debounce OF 0.0015 ms typ., Digital inputs 12 V DC (I1 - I8), Delay time from 0 to 1, Debounce 0.0015 ms typ., Digital inputs 12 V DC (I1 - I8), Delay time from 0 to 1, Debounce 0.0015 ms typ., Digital inputs 12 V DC (II - I8), Delay time from 0 to 1, Debounce 0.0015 ms typ., Digital inputs 12 V DC (II - I8), Delay time from 0 to 1, Debounce 0.0015 ms typ., Digital inputs 12 V DC (II - I8), Delay time from 0 to 1, Debounce 0.0015 ms typ., Digital inputs 12 V DC (II - I8), Delay time from 0 to 1, Debounce 0.0015 ms typ., Digi
Incremental counter	Number of counter inputs: 2 (I1 + I2, I3 + I4) Value range: -2147483648 to +2147483647 Pulse shape: Square Pulse pause ratio: 1:1 Signal offset: 90° Counter frequency: ≤ 5 kHz
Incremental encoder	Cable length: ≤ 20 m (screened)
Input	Voltage (DC)
Input current	3.3 mA (I1 - I4, at 24 V DC, at signal 1) 2.2 mA (I5 - I8, at 24 V DC, at signal 1)

	1 mA (Analog inputs) 200 mA
Input impedance	13.3 kQ
Input voltage	At signal 1: ≥ 15 V (I1 - I8, sinusoidal, Digital inputs, 24 V DC) Status 0: ≤ 8 V DC (I5 - I8, Digital inputs, 24 V DC) Status 1: ≥ 8 V DC (I5 - I8, Digital inputs, 24 V DC) Signal 0: ≤ 5 V DC (I1 - I4, Digital inputs, 12 V DC) Status 0: ≤ 15 V DC (I1 - I4, Digital inputs, 24 V DC) At signal 0: ≤ 5 V (I1 - I8, sinusoidal, Digital inputs, 24 V DC) Status 1: ≥ 15 V DC (I1 - I4, Digital inputs, 24 V DC)
Making/breaking capacity	28/28 VA (DC, at R 300) 3600/360 VA (AC, at B 300)
Number of inputs (analog)	0 4
Number of inputs (digital)	4 8
Number of outputs (analog)	0
Number of outputs (digital)	4
Output	4 Relay Outputs > 500 mA (Relay outputs, Recommended for load: 12 V AC/DC) Relay outputs in groups of 1 Voltage Current
Parallel switching	Not permitted
Rapid counter inputs	10 kHz, Counter frequency -2147483648 - 2147483647 (value range) ≤ 20 m (cable length, screened) 1:1 (Pulse pause ratio) Square (pulse shape) Number: 4 (11, 12, 13, 14 - Digital inputs 24 V DC)
Signal range	0 - 10 V DC, Analog inputs
Safety	
Explosion safety category for gas	None
Protection against polarity reversal	Between Digital inputs 12 V DC and Outputs: yes Between Analog inputs and Outputs: yes Between Digital inputs 12 V DC and expansion devices: yes Between Digital inputs 24 V DC and Outputs: yes Between Relay outputs and expansion devices: yes Between Digital inputs 24 V AC and Outputs: yes Between Relay outputs and Power supply: yes Between Digital inputs 24 V DC and expansion devices: yes Between Digital inputs 24 V DC and Ethernet: yes Basic isolation: 600 V AC (Relay outputs) Between Analog inputs and expansion devices: yes Between Relay outputs: yes Between Relay outputs: yes Between Relay outputs and Inputs: yes Between Digital inputs 12 V DC and Ethernet: yes Between Relay outputs and Ethernet: yes Between Relay outputs and Ethernet: yes Between Digital inputs 12 V DC and Ethernet: yes Safe isolation according to EN 50178: 300 V AC (Relay outputs) Between Digital inputs 24 V AC and expansion devices: yes Between Digital inputs 24 V AC and Ethernet: yes Yes, for supply voltage (Siemens MPI optional)
Explosion safety category for dust Safe isolation	None 300 V AC, Between coil and contact, According to EN 50178 300 V AC, Between two contacts, According to EN 50178
Design verification	
Equipment heat dissipation, current-dependent Pvid	4 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	0 W
Rated operational current for specified heat dissipation (In)	0 A
Static heat dissipation, non-current-dependent Pvs	3 W
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 Resist. of insul. mat. to abnormal heat/fire by internal elect. 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.
10.9.2 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 9.0

Programmable logic controllers PLC (EG000024) / Logic module (EC001417)		
${\bf Electric\ engineering,\ automation,\ process\ control\ engineering\ /\ Control,\ Process}$	Control System (PCS) / Pr	rogrammable logic control (SPS) / Logic module (ecl@ss13-27-24-22-16 [AKE539019])
Supply voltage AC 50 Hz	V	20.4 - 26.4
Supply voltage AC 60 Hz	V	20.4 - 26.4
Supply voltage DC	V	10.2 - 28.8
Voltage type (supply voltage)		AC/DC
Switching current	А	8
Power consumption	W	3
Number of analogue inputs		0
Number of analogue outputs		0
Number of digital inputs		4
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 EtherCAT		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 Information's Spring protocol for Spring protocol for Information's Spring protocol			
Supporting protocol for INTERIOR Safety No Supporting protocol for INTERIOR Safety No Supporting protocol for POPPlande No Supporting protocol for SafetyBUS p No Supporting protocol for SafetyBUS p No Read canaded WLAN 802.11 No Read canaded WLAN 802.11 No Read canaded UNITS No	Supporting protocol for EtherNet/IP		No
Supporting proteoul for INTERBUS-Safety No Supporting proteoul for PRDFHateS No Supporting proteoul for other bus systems No Supporting proteoul for other bus systems No Radia standard Blestonb No Radia standard GDRS No Radia standard GDRS No Radia standard SDM No Radia standard SDM No Reduction SDM No Report of protector In Pl No Basic Genérole Pa Commandable No With the switch clock No Relation automating Server in morting Yes Relation morting Someth No Suitable for salery functions	,		
Supporting protect for Safety-BUS DS No Supporting protect of the Safety-BUS DS No Redic sanderd Bluetoch No Redic sanderd Bluetoch No Redic sanderd Bluetoch No Redic sanderd GSM No Redic sanderd GSM No Redic sanderd UNTS No Redict sanderd UNTS No Reductation No Reductation No Reductation No Reductation Pee Basic Sanderd UNTS No With separation of Sander S			
Supporting protocol for SafetyBUS p No Supporting protocol for other has yetwens No Radio standard PRISA No Radio standard PRISA No Radio standard BRIS No Radio standard BRISA No Radio standard BRISA No Radio standard UMTS No 10 Univ. Insert No Redundancy No Nother Standard UMTS No Redundancy No Nother Standard PRISA No Redundancy No Nother Standard PRISA No Nother Standard PRISA No Nother Standard PRISA No With display Yes Degree of protection IPP No Will the Standard PRISA No Will through the Standard Prisa Yes Reparation device No Will throw which the Standard Prisa Yes Rack assembly pessible No Successfrom stale yet assembly pessible No Successfrom stale yet assembly pessible			
Supporting protocol for other bas systems No Ratio standard Bluteroth No Ratio standard SDM No Ratio standard SDM No Ratio standard SDM No Ratio standard SDM No 10 link master No Redundancy No With display Yes Degree of protection IPP IPD Basic dovice Yes Expandable Yes Expandable Yes Expandable Yes Expandable (SDM) Yes With insurance work holock Yes Rall mounting passible Yes With insurance passible Yes Successibly possible No Stack-assembly possible No Stack assembly possible<			
Radio standerf Bluetoeth Radio standerf WLAN 202.11 Radio standerf SDM			
Radio standard WIAN 802.11 Radio standard SPRS	Supporting protocol for other bus systems		No
Radio standard SM No Radio standard SM No Redio standard SMT No 10 link master No 10 link master No Redundancy No With display Pac Degree of protection (IP) 1920 Basic device Yes Expansion device No Expansion device Yes Rall mounting possible Yes Wall mounting-plotect mounting Yes Rack-assembly possible Yes Suitable for safety functions Yes Suitable for safety functions Yes Suitable for safety functions No Suitable for safety functions No Suitable for safety functions No Performance level according to EC 6188 No Performance level according to EC 18193 No Performance level according to EC 6188 No Performance level according to EC 6188 No Performance level according to EC 6188 No Certified for Ul. hazardous location class I No	Radio standard Bluetooth		No
Radio standard BSM No Radio standard UMTS No Ol link master No With display Yes Degree of protection (IP) Yes Basic device Yes Expandable Yes Expandable for settler yet income Yes Wall mounting/direct mounting Yes Wall mounting/direct mounting Yes Stack-assembly possible No Status coording to IEC 01508 No Performance lovel according to EN ISO 13849-1 No Appendant operation agent (Exil) No Explosion safety category for dust No Explosion safety category for dust No Certified for UL hazardous location class II No Certified for UL hazardous location dustion 1 No Certified for UL hazardous l	Radio standard WLAN 802.11		No
Ratio standard UMTS No 10 link mater No Retindancy No Retindancy Yes 10 gege of protection (IP) Pizo Basic drevie Yes Expansion device Yes Expansion device Yes Will time winch look Yes Will mourting pessible Yes Rock - seasonly possible Yes Rock - seasonly possible Yes Rock - seasonly possible Yes Statistic for seferty functions Yes Statistic for seferty functions spent (Exel) Yes Explosion safety category for dus Yes Explosion safety category for dus Yes Certified for UL heardous location class II Yes	Radio standard GPRS		No
10 Ink mastur 10 Ink m	Radio standard GSM		No
Redundancy No With display Yes Degree of protection (IP) Pi20 Basic device Yes Expandable Yes Expandable Yes With time switch clock Yes Real in counting possible Yes Wall mounting/direct mounting Yes Form bull-in possible Yes Suck-assembly possible Yes Suck-assembly possible Yes Suck-assembly possible No Suck-assembly possible possible No Suck-assembly possible No Suck-assembly possible No Suck-assembly possible No Certified to User-assembly possible No	Radio standard UMTS		No
With display Pes Dogree of protection (IP) 120 Basic device Yes Expandable Yes Expandable Yes Expandable Yes Expandable Yes With time switch clock Yes Rail mounting possible Yes Well mounting divicet mounting Yes Rack-assembly possible Yes Sutable for safety functions Yes Suitable for safety functions Yes Appendant operation agent (Ex is) None Appendant operation agent (Ex is) None Explosions aftery category for gas Yes Explosions aftery category for gas Yes Explosion of the U. U. Lazardous location class II Yes Certified for U. Lazardous location class II Yes Certified for U. Lazardous location class II Yes <td< td=""><td>10 link master</td><td></td><td>No</td></td<>	10 link master		No
Degree of protection (IP) IP20 Basic device Yes Expandable Yes Expandable Cexpansion device No With time switch clock Yes Rail mounting possible Yes Wall mounting/firect mounting Yes Front bulk-in possible Yes Sultable for safety functions Yes Sultable for safety functions No Exposition safety category for gas No Explosion safety category for gas No Explosion safety category for dust No Certified for UL hazardous location class II No	Redundancy		No
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Expandable Yes Expansion device No With time switch clock Yes Rail mounting possible Yes Wall mounting/direct mounting Yes Rack-assembly possible Yes Rack-assembly possible No Suitable for safety functions Yes Sill according to EC 8198 No Performance level according to EN ISO 13849-1 No Appendant operation agent (Exia) No Appendant operation agent (Exia) No Explosion safety category for gas No Explosion safety category for dust No Certified for UL hazardous location class I No Certified for UL hazardous location class II No Certified for UL hazardous location division 1 Yes Certified for UL hazardous location division 2 No Certified for UL hazardous location division 2 Yes Certified for UL hazardous location group B (hydrogen) Yes Certified for UL hazardous location group B (hydrogen) Yes Certified for UL hazardous location group B (hydrogen) Yes <t< td=""><td>Degree of protection (IP)</td><td></td><td>IP20</td></t<>	Degree of protection (IP)		IP20
Expansion device Image: I	Basic device		Yes
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Front built-in possible Yes Rack-assembly possible No Suitable for safety functions No SIL according to IEC 61508 None Performance level according to EN ISO 13849-1 None Appendant operation agent (Ex ia) No Appendant operation agent (Ex ib) None Explosions afatry category for gas None Explosion safety category for dust None Certified for UL hazardous location class I Yes Certified for UL hazardous location class II No Certified for UL hazardous location division 1 No Certified for UL hazardous location division 2 Yes Certified for UL hazardous location division 2 Yes Certified for UL hazardous location group A (acetylene) Yes Certified for UL hazardous location group B (hydrogen) Yes Certified for UL hazardous location group E (metal dusts) No Certified for UL hazardous location group E (metal dusts) Yes Certified for UL hazardous location group E (metal dusts) No Certified for UL hazardous location group E (metal dusts) No Certified for UL hazardou	Rail mounting possible		Yes
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Suitable for safety functions SIL according to IEC 61508 Performance level according to EN ISO 13849-1 Appendant operation agent (Ex ia) Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Certified for UL hazardous location class I Certified for UL hazardous location division 1 Certified for UL hazardous location division 2 Certified for UL hazardous location division 2 Certified for UL hazardous location group A (acetylene) Certified for UL hazardous location group B (hydrogen) Certified for UL hazardous location group	Front built-in possible		Yes
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Appendant operation agent (Ex ia) Append	SIL according to IEC 61508		None
Appendant operation agent (Ex ib) Explosion safety category for gas Explosion safety category for dust Certified for UL hazardous location class I Certified for UL hazardous location class II Certified for UL hazardous location division 1 Certified for UL hazardous location division 2 Certified for UL hazardous location group A (acetylene) Certified for UL hazardous location group E (metal dusts) Certified for UL hazardous location group F (carbonaceous dusts) Certified for UL hazardous location group G (non-conductive dusts) Mo Certified for UL hazardous location group G (non-conductive dusts) Mo Certified for UL hazardous location group G (non-conductive dusts) Mo Certified for UL hazardous location group G (non-conductive dusts) Mo Certified for UL hazardous location group G (non-conductive dusts) Mo Certified for UL hazardous location group G (non-conductive dusts) Mo Certified for UL hazardous location group G (non-conductive dusts) Mo Certified for UL hazardous location group G (non-conductive dusts) Mo Certified for UL hazardous location group G (non-conductive dusts) Mo Certified for UL hazardous location group G (non-conductive dusts) Mo Certified for UL hazardous location group G (non-conductive dusts) Mo Certified for UL hazardous location group G (non-conductive dusts) Mo Certified for UL hazardous location group G (non-conductive dusts) Mo Certified for UL hazardous location group G (non-conductive dusts) Mo Certified for UL hazardous location group G (non-conductive dusts) Mo Certified for UL hazardous location group G (non-conductive dusts) Mo Certified for UL hazardous location group G (non-conductive dusts) Mo Certified for UL hazardous location group G (non-conductive dusts) Mo Certified for UL hazardous location group G (non-conductive dusts) Mo Certified for UL hazardous location group G (non-conductive dusts) Mo Certified for UL hazardous location group G (non-conductive dusts) Mo Certified for UL hazardous location group G (non-conductive	Performance level according to EN ISO 13849-1		None
Explosion safety category for gas Explosion safety category for dust Certified for UL hazardous location class I Certified for UL hazardous location class II Certified for UL hazardous location class III Certified for UL hazardous location division 1 Certified for UL hazardous location division 1 Certified for UL hazardous location division 2 Certified for UL hazardous location division 2 Certified for UL hazardous location group A (acetylene) Certified for UL hazardous location group B (hydrogen) Certified for UL hazardous location group C (ethylene) Certified for UL hazardous location group E (metal dusts) Certified for UL hazardous location group F (carbonaceous dusts) Certified for UL hazardous location group G (non-conductive dusts) Midth Mim 72 Height Mone None	Appendant operation agent (Ex ia)		No
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Certified for UL hazardous location class III Certified for UL hazardous location division 1 Certified for UL hazardous location division 2 Certified for UL hazardous location group A (acetylene) Certified for UL hazardous location group B (hydrogen) Certified for UL hazardous location group C (ethylene) Certified for UL hazardous location group D (propane) Certified for UL hazardous location group E (metal dusts) Certified for UL hazardous location group F (carbonaceous dusts) Certified for UL hazardous location group G (non-conductive dusts) Width Midth mm 72 Height	Certified for UL hazardous location class I		Yes
Certified for UL hazardous location division 2 Certified for UL hazardous location group A (acetylene) Certified for UL hazardous location group B (hydrogen) Certified for UL hazardous location group B (hydrogen) Certified for UL hazardous location group C (ethylene) Certified for UL hazardous location group D (propane) Certified for UL hazardous location group E (metal dusts) Certified for UL hazardous location group F (carbonaceous dusts) Certified for UL hazardous location group G (non-conductive dusts) Width mm 72 Height No No No No No No No No No N	Certified for UL hazardous location class II		No
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Certified for UL hazardous location group A (acetylene) Certified for UL hazardous location group B (hydrogen) Certified for UL hazardous location group C (ethylene) Certified for UL hazardous location group D (propane) Certified for UL hazardous location group E (metal dusts) Certified for UL hazardous location group F (carbonaceous dusts) Certified for UL hazardous location group G (non-conductive dusts) No Certified for UL hazardous location group G (non-conductive dusts) Width mm 72 Height	Certified for UL hazardous location division 1		No
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Certified for UL hazardous location group C (ethylene) Certified for UL hazardous location group D (propane) Certified for UL hazardous location group E (metal dusts) Certified for UL hazardous location group F (carbonaceous dusts) Certified for UL hazardous location group G (non-conductive dusts) No Width mm 72 Height Meight	Certified for UL hazardous location group A (acetylene)		Yes
Certified for UL hazardous location group D (propane) Certified for UL hazardous location group E (metal dusts) Certified for UL hazardous location group F (carbonaceous dusts) Certified for UL hazardous location group G (non-conductive dusts) No Width mm 72 Height mm 90	Certified for UL hazardous location group B (hydrogen)		No
Certified for UL hazardous location group E (metal dusts) Certified for UL hazardous location group F (carbonaceous dusts) Certified for UL hazardous location group G (non-conductive dusts) No Width mm 72 Height mm 90	Certified for UL hazardous location group C (ethylene)		Yes
Certified for UL hazardous location group F (carbonaceous dusts) Certified for UL hazardous location group G (non-conductive dusts) Width Mm 72 Height Mo mm 90	Certified for UL hazardous location group D (propane)		Yes
Certified for UL hazardous location group G (non-conductive dusts) Width mm 72 Height mm 90	Certified for UL hazardous location group E (metal dusts)		No
Width mm 72 Height mm 90	Certified for UL hazardous location group F (carbonaceous dusts)		No
Height mm 90	Certified for UL hazardous location group G (non-conductive dusts)		No
	Width	mm	72
Depth mm 58	Height	mm	90
	Depth	mm	58