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Технические характеристики на блоки управления электрическими пожарными насосами EN12845 CEA- SMART12845, CEA-12845-485, CEA-025-485 компании **ELCOS**

CEA-SMART12845

CEA-SMART12845/BT

CEA-SMART025

Fireproof electric pump control unit for systems in compliance with the standard UNI EN-12845



Date	Revision	Description	Page
11/02/2021	1.00	First release.	
13/04/2021	1.1	Panel failure.	
22/04/2021	1.2	Types.	
27/07/2021	1.3	Alarms.	
02/11/2021	1.4	Corrections.	
23/11/2021	1.5	Instruments, various	
07/12/2021	1.6	Instruments ...	
11/03/2022	1.7	Corrections.	
19/05/2022	1.8	Integrations IF	
23/02/2023	1.8-2	Wrong translation: Modified engine to motor / Modified power to current	
24/02/2023	1.9	Pump running KW	
30/03/2023	2.0	Tables and integration	
12/09/2023	2.1	START IMPULSE	

TECHNICAL SPECIFICATIONS

Insulation			
Class		1	
Power supply			
AC.24.1,2	Power supply voltage	24 Vac	24 Vdc
	Operating range	10 ÷ 35 Vac	10 ÷ 48 Vdc
	Rated insulation voltage	35 Vac, 48 Vdc	
	Level 0% voltage hole	20 mS	
AC.230.1,2 (only on CEA-SMART12845 and CEA-SMART12845/BT)	Power supply voltage	110 ÷ 230 Vac	
	Operating range	± 10 %	
	Rated insulation voltage	600 VAC	
	Level 0% voltage hole	20 mS	
Power absorbed		4 W	
Digital inputs			
IN.1 ÷ 7	Type of input	Negative (Common IN.C)	
	Maximum current supplied	1.1 mA	
	Voltage threshold for low signal	≤ 0,8 Vdc	
	Voltage threshold for high signal	≥ 1 Vdc	
Mains voltmeter inputs			
V.N, V.L1, V.L2, V.L3	THREE PHASE measurement range	80 ÷ 570 Vac	
	SINGLE PHASE measurement range	45 ÷ 340 Vac	
	Accuracy	± 1 %	
	Sampling Frequency	3.2 kHz	
	Rated insulation voltage	600 Vac	
Frequency meter			
V.N, V.L1, V.L2, V.L3	Measurement range	45 to 85 Hz	
	Accuracy	±0.1 Hz	
Amperometric inputs			
I.N, I.L1, I.L2, I.L3	Measurement range	20 mA ÷ 6 Aac	
	Ammeter transformer ratio	/5	
	Maximum displayable current	4400 Aac	
	Accuracy	± 1 %	
	Sampling Frequency	3.2 kHz	
Contactor command outputs			
OUT.1.A,B OUT.2.A,B OUT.3.A,B	Type of output	C-NO Clean contact	
	Maximum applicable voltage	250 Vac	
	Rated capacity	8 A @ 250 Vac	
	Maximum current	10 A	
	Maximum switchable power	2000 VA	
Digital outputs			
OUT.4 (only on CEA-SMART12845 and CEA-SMART12845/BT)	Type	C-NC-NO clean contact	
	Maximum load	3 A	
	Maximum applicable voltage	65 Vac, 48 Vdc	
OUT.5 ÷ 9	Type	C-NC-NO clean contact	
	Maximum load	3 A	
	Maximum applicable voltage	250 Vac AC1, 48 Vdc	
Powers displayed (kW, kVAR, and kVA)			
Accuracy		± 2%	
Lines of communication			
RS485 (Optoisolated)	Baud-rate	1200 ÷ 115200 bps	
	Settings	N,8,1; E,8,1	
USB 2.0 (Non Optoisolator)		Virtual Comm Port	
Analogue Inputs			
Resistance transducer	IN.OHM.1,2	0 ÷ 290 ohm	
Current transducer	IN.4-20mA.P	24 Vdc	
	IN.4-20mA.S	4 ÷ 20 mA	
Environmental conditions			
Operating temperature		-20 to 60 °C	
Storage temperature		-20 to 60 °C	
Relative humidity		≤80 %	
Protection class			
Back		IP 20	
Front		IP 54	
Container			
Weight		800 g	
Material		PC/ABS V0	
Dimensions (LxHxD)		243x170x62 mm	
Terminals			
Screw		M3	
Nominal wire size		2.5 mm²	

INFORMATION FOR ORDERING

Type	Code
CEA-SMART12845	00242314
CEA-SMART12845/BT	00242322
CEA-SMART025	00242324

STANDARD ACCESSORIES

Type	Code
KIT MU CEA-SMART12845	40804541
KIT MU CEA-SMART025	40804542

ACCESSORIES ON REQUEST

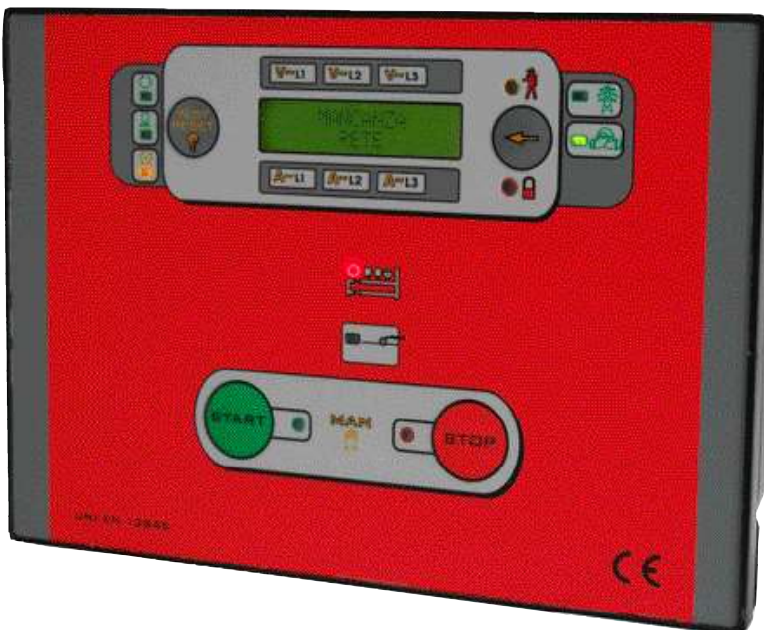
Type	Code
EXP-IN OUT	00242405
EXP-RS485	00242406
EXP-RS232	00242407
EXP-OUT230V	00242408

DOCUMENTATION ON REQUEST



FIRE-FIGHTING ELECTRIC PUMP CONTROL UNIT IN CONFORMITY TO UNI EN 12845 STANDARD TYPE CEA-12845-485

INSTRUCTION AND USER MANUAL



COMPLETE OF:

- 3 MAINS VOLTMETERS
- 3 AMMETERS MAX 1000A
(POSSIBILITY FOR THE
CONNECTION OF
A SINGLE AMMETER)
- MAINS FREQUENCY METER
(50/60 HZ)
- WATTMETER (ACTIVE POWER)
- VAR METER (REACTIVE POWER)
- VOLTAMMETER
(APPARENT POWER)
- COSPHIMETER (POWER FACTOR)
- TOTAL HOUR METER
(TOTAL HOURS OF
PUMP OPERATION)
- PARTIAL HOUR METER

SIMULTANEOUS
READING

- STAR/DELTA START COMMAND
- IMPEDANCE START COMMAND
- BUTTON FOR TEST OF THE WARNING LIGHTS
- STARTING STOP BUTTONS
- HISTORICAL REPORT

TECHNICAL DATA

-	Nominal mains voltage	400 VAC
-	Frequency	50÷ 60Hz
-	Supply voltage	24VAC or 110÷ 230VAC ±10%
-	Power supply tolerance	±10%
-	Absorbed power	4 W
-	Nominal insulation voltage:	
	• terminals at mains voltage	400VAC
	• terminals from 3 to 14	24 VAC
-	Capacity of contacts:	
	• contactors control	MAX 16A (AC1) 250 VAC
	• contacts for remote monitoring	MAX 5A (AC1) 250VAC
-	Insulation class	CLASS 1
-	Voltmeters	MAX 570V Precision ±2%
-	Ammeters	MAX 1200A Precision ±2%
-	Frequency meter	0÷-85 Hz, Precision ±2%
-	Wattmeter	MAX 830 KW
-	Serial communication parameters	9600 baud, 8 bit data, 1 bit stop; EVEN parity
-	Degree of protection:	
	• front	IP64
	• rear	IP20
-	Temperature range	-10 + 60 °C
-	Installation conditions	for internal use
-	Weight	869 gr
-	Dimensions (LxHxP) mm	243 x 170 x 62
-	Hole	227X155

ORDERING DATA

TYPE CEA-12845-485

Code 00242290

ACCESSORIES KIT

KIT MU-CEA-12845-485

Code 40804524



FIRE-FIGHTING ELECTRIC PUMP CONTROL UNIT IN CONFORMITY TO UNI EN 12845 STANDARD TYPE CEA-025-485

COMPLETE OF:

- 3 MAINS VOLTMETERS
- AMMETERS MAX 1000A
- MAINS FREQUENCY METER (50/60 Hz)
- WATTMETER (active power)
- VARIMETER (reactive power)
- VOLTAMMETER (apparent power)
- COSPHIMETER (power factor)
- TOTAL HOUR METER (total hours of pump operation)
- PARTIAL HOUR METER

SIMULTANEO
US READING

- STAR/DELTA START COMMAND
- IMPEDANCE START COMMAND
- BUTTON FOR TEST OF THE WARNING LIGHTS
- STARTING STOP BUTTONS
- HISTORICAL REPORT

TECHNICAL DATA

- Nominal mains voltage	400 VAC
- Frequency	50÷ 60Hz
- Supply voltage	24VAC ±10%
- Absorbed power	4 W
- Nominal insulation voltage:	
• terminals at mains voltage	400VAC
• terminals from 3 to 12	24 VAC
- Capacity of contacts:	
• contactors control	MAX 16A (AC1) 250 VAC
• contacts for remote monitoring	MAX 5A (AC1) 250VAC
- Insulation class	CLASS 1
- Voltmeters	MAX 570V Precision ±2%
- Ammeter	MAX 1200A Precision ±2%
- Frequency meter	0÷-85 Hz, Precision ±2%
- Wattmeter	MAX 830 KW
- Serial communication parameters	9600 baud, 8 bit data, 1 bit stop; EVEN parity
- Degree of protection:	
• front	IP64
• rear	IP20
- Temperature range	-10 + 60 °C
- Installation conditions	for internal use
- Weight	869 gr
- Dimensions (LxHxP) mm	243 x 170 x 62
- Hole	227X155

ORDERING DATA

TYPE CEA-025-485

Code 00242303

ACCESSORIES KIT

KIT MU-CEA-025-485

Code 40804533

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