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Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

www.elkos.nt-rt.ru | | eow@nt-rt.ru

Технические характеристики на автоматические панели управления для универсальной мотопомпы NF-1300, NF-1100 компании **ELCOS**



NF-1300

AUTOMATIC CONTROL SWITCH-BOARD FOR DIESEL ENGINE

The panel is equipped with the DCA-339 control unit which allows you to start and stop a diesel or gasoline engine using the buttons on the front or from a remote control. It can also manage a linear actuator with which vary the engine revolutions.

It monitors the engine during its operation and, in the event of a fault, stops it.

It is already set up to be connected also with engines equipped with ECU engine control unit, via CAN Bus serial line, with SAE J1939 protocol.

Its graphic display, 128 x 64 dot backlit, allows easy management of the functions, shows pop-ups that clearly indicate the status of the diesel and by displaying texts and icons it indicates anomalies, pre-alarms or other engine signals.

The panel is internally equipped with the CBS-010 automatic battery charger, to keep the engine starter battery efficient.

KEY FEATURES

Its DCA-339 control unit displays the following instruments:

- Fuel level in the tank [%]..
- Engine tachometer [RPM].
- Motor temperature expressed in [°C] or in [°F].
- Engine oil pressure expressed in [bar] or in [kPa] or in [psi].
- Battery voltage [V].
- Voltage of D+ (pre-excitation alternator) [V].
- Total hour counter [hh: mm].
- Partial hour counter [hh: mm].
- Start-up counter [n].
- Expiration of maintenance.
- Calendar clock.

The alarms are always shown on the display, in addition the STOP ANOMALY LED lights up if the engine is stopped, while the SIGNAL ANOMALY LED lights up if the anomaly is just a pre-alarm.

IDENTIFICATION DATA

Type	Code
NF-1300 12V	00022148
NF-1300 24V	00022149

AUTOMATIC CONTROL SWITCH-BOARD FOR DIESEL ENGINE TYPE NF-1100

Made to start and protect a **DIESEL** engine.



Complete with
automatic battery charger

INSTRUMENTS:

- battery voltmeter
- total hour meter
- partial hour meter
- starting counter
- starting failures counter
- fuel level indicator
- tachometer

For the description of operation and the technical programming see manuals DCA-109.

FUNCTIONS:

- SETTING WITH BRIDGES (JUMPERS) TO OBTAIN MOTOR START AND STOP IN AUTOMATIC MODE USING THE CALL CONTACTS (PRESSURE GAUGES OR MIN/MAX FLOATS OR MAINS RELAYS)
- Automatic faults surveillance with messages on the display.
- Texts in 6 languages: Italian, English, French, German, Spanish and Portuguese.
- Remote control (starting and stop).
- Glow plugs preheating management or engine heating cooling.
- Clock for programming the starting or the stopping of the engine.
- Preventive maintenances warning.
- Programmable weekly selftest.
- Available fully programmable input for anomaly.
- Possibility of starting the engine when the charge of the battery is low.
- Anomaly historical record (Including data from the last 100 occurred anomalies).

NF-1100 TECHNICAL DATA

SWITCH-BOARD CONFORMING WITH STANDARDS 17-13/1; EN 60439-1	
BATTERY SUPPLY	12 Vdc (16 Vdc max) or 24 VDC (32VDC MAX)
MAXIMUM LOAD DELIVERY	1A (12VDC) 200 mA (24VDC)
SELFCONSUMPTION WITH ENGINE STATIONARY	BY MAINS FAUL 20mA
SELFCONSUMPTION WITH ENGINE STATIO- NARY AND PRESSED EMERGENCY BUTTON	185mA a 12V 110mA a 24V
SINGLE PHASE MAINS SUPPLY	230 VAC $\pm$ 10% 10A MAX 50 ÷ 60 Hz
(6) ACCELERATOR OR PREHEATING	3W
(15) STARTING	3W
(17) STOPPING	7W
(19) STARTING AND RUNNING ENGINE	3W
(70) GENERAL ALARM	3W
HEATER OUTPUT	230 VAC MAX 1500 W
TEMPERATURE RANGE	-10 ÷ +50°C
RELATIVE HUMIDITY	50% A 40°C
MAX ALTITUDE	1000 mt a.s.l.
NOMINAL INSULATION VOLTAGE (TERMINALS AT MAINS VOLTAGE)	230V
NOMINAL INSULATION VOLTAGE (TERMINALS AT BATTERY VOLTAGE)	32 V
INSULATION CLASS	CLASS I
WALL INSTALLATION CONDITIONS	FOR EXTERNAL USE
DEGREE OF PROTECTION	IP 54
WEIGHT	2,8 Kg
DIMENSIONS (LxHxD) mm	235X315X125

COMPONENTS LIST

DESCRIPTION	TYPE	CODE ELCOS	MANUFACTURER	QUANTITY
BOX	GW44209 300X220x120	70493130	GEWISS	1
CONTROL UNIT	DCA-109	00242293	ELCOS	1
CARD	SEA-1100 12V	40026548		1
	“ 24V	40026549		
BATTERY CHARGER	CBS-010 12V	00010101		1
	CBS-010 24V	00010102		
FUSE HOLDERS	10,3X38	70450833	WIMEX	2
FUSES OF VARIOUS TYPES	10,3X38			2
TERMINALS	CBC4	70421784	CABUR	3
	CBC2	70421782		4

ORDERING DATA

Type NF-1100 12V
“ NF-1100 24V

Code 00022141
“ 00022142

SUPPLIED ACCESSORIES

GEWISS MOUNTING BRACKET KIT

Code 40750688

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