



Electric fire pump controller, supply 24VAC, built-in RS485, not expandable FFL...EP

## Product designation

## Product type designation

### Auxiliary supply

|                                       |                |
|---------------------------------------|----------------|
| Rated auxil. supply voltage           | 24VAC          |
| Operating auxil. supply voltage range | 19.2...28.8VAC |
| Operating frequency range             | Hz 45...66Hz   |

### Voltage inputs

|                     |             |             |
|---------------------|-------------|-------------|
| Rated voltage $U_s$ | min VAC 100 | Max VAC 600 |
| Measurement range   | V           | 100...720   |
| Frequency range     | Hz          | 45...66     |

### NTC probe input

|                           |                         |
|---------------------------|-------------------------|
| Sensor type               | NTC (LOVATO code NTC01) |
| Measuring range           | °C -40...+85            |
| Maximum connection length | mt 3m                   |

### Digital inputs

|                            |                         |
|----------------------------|-------------------------|
| Number of digital input    | Nr. 8                   |
| Digital input type         | Negative                |
| Digital input current      | mA ≤6                   |
| High digital input signal  | V ≥4.9V (typical 3.8V)  |
| Low digital input signal   | V ≤1.25V (typical 2.3V) |
| Digital input signal delay | ms ≥50                  |

### Current inputs

|                         |              |
|-------------------------|--------------|
| Rated current ( $I_e$ ) | A /1A or /5A |
|-------------------------|--------------|

### Relay outputs

|                        |        |
|------------------------|--------|
| Number of relay output | Nr. 7  |
| Mechanical endurance   | $10^7$ |
| Electrical endurance   | $10^5$ |

### Static Outputs

|                         |              |
|-------------------------|--------------|
| Number of static output | 1 (OUT10)    |
| Static output type      | NO           |
| Operating voltage       | V 10...30VDC |
| Maximum current         | mA 50mA      |

### RS485 serial interface

|                                  |                                 |
|----------------------------------|---------------------------------|
| Interface type                   | Isolated RS485 serial interface |
| Baud rate                        | bps 1200...115200               |
| Insulation voltage (RS485-Vbatt) | 1kVDC                           |

## Connections

|                                 |                      |                 |      |
|---------------------------------|----------------------|-----------------|------|
| Type of terminal                | Removable screw-type |                 |      |
| Conductor cross section         |                      |                 |      |
| AWG/Kcmil                       | min                  | AWG             | 24   |
|                                 | Max                  | AWG             | 12   |
| IEC                             | min                  | mm <sup>2</sup> | 0.2  |
|                                 | Max                  | mm <sup>2</sup> | 2.5  |
| Tightening torque for terminals | max                  | Nm              | 0.56 |
|                                 | max                  | lbin            | 5    |

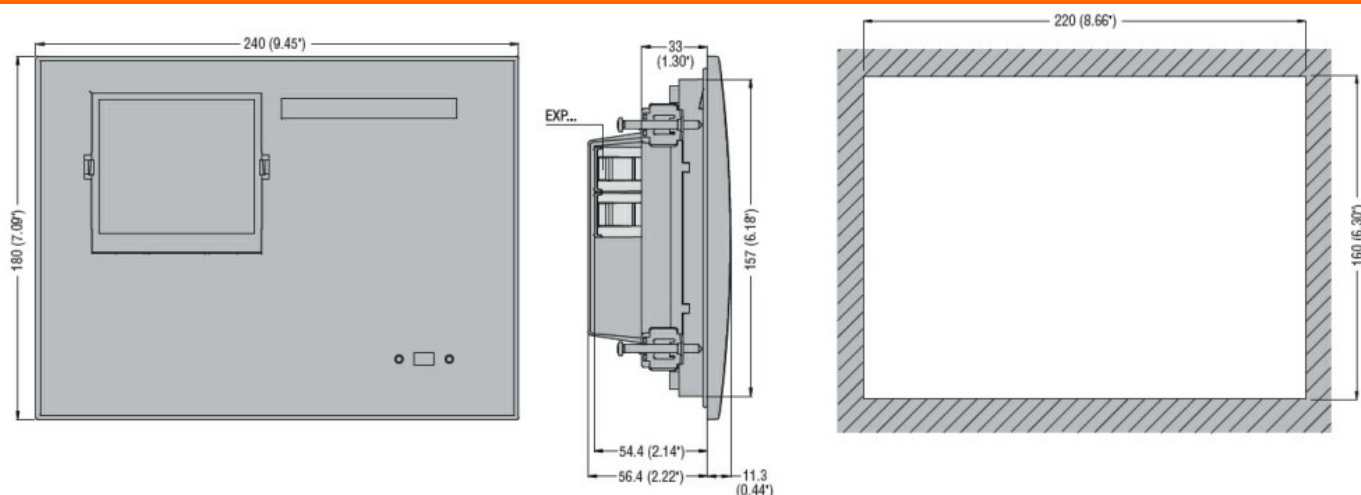
## Ambient conditions

|                       |     |    |                            |
|-----------------------|-----|----|----------------------------|
| Temperature           |     |    |                            |
| Operating temperature | min | °C | -25                        |
|                       | max | °C | +70                        |
| Storage temperature   | min | °C | -30                        |
|                       | max | °C | +80                        |
| Relative humidity     |     |    | % <80% (IEC/EN 60068-2-78) |

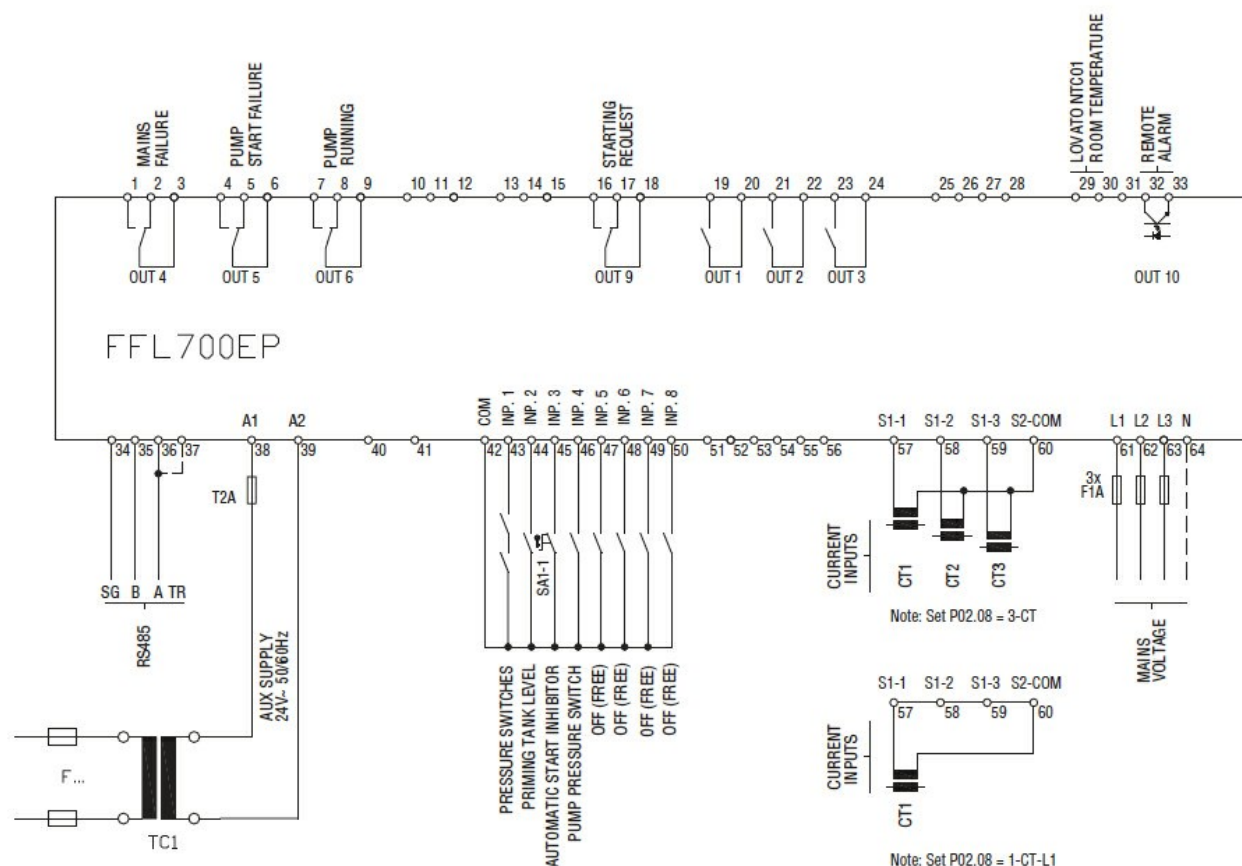
## Housing

|                        |                                    |                  |  |
|------------------------|------------------------------------|------------------|--|
| Execution              | Flush-mount                        |                  |  |
| Material               | Polycarbonate                      |                  |  |
| Degree of protection   | IP65 Frontal;<br>IP20 on terminals |                  |  |
| Dimensions (W x H x D) | mm                                 | 240 x 180 x 43.9 |  |
| Weight                 | g                                  | 980              |  |

## Dimensions



## Wiring diagrams



## Certifications and compliance

### Compliance

IEC/EN 61000-6-2  
IEC/EN 61000-6-3  
IEC/EN 61010-1  
IEC/EN 61010-2-030  
UNI EN 12845

### Certificates

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## ETIM classification

ETIM 8.0

EC002685 -  
Central fire alarm  
control panel