Lovato electric
ENERGY AND AUTOMATION

Product designation			Electric fire pump controller, supply 24VAC, built-in RS485, not expandable
Product type designation			FFL…EP
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 Us			
	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 lenght		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 (Ie)		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	mm²	0.2	
	Max	mm²	2.5	
Tightening torque for terminals				
	max	Nm	0.56	
	max	Ibin	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; IP20 on terminals
Dimensions (W x H x D)	mm	240 x 180 x 43.9
Weight	g	980

ETIM classification

ETIM 8.0	EC002685 - Central fire alarm control panel