

Product designation		Electric fire pump controller, supply 24VAC or 100-240VAC, built-in RS485, expandable with EXP.. Modules FFL...EP	
Product type designation			
Auxiliary supply			
Rated auxil. supply voltage		24VAC/110...240V/	
Operating auxil. supply voltage range		19.2...28.8VAC / 90...264VAC	
Operating frequency range		Hz	45...66Hz
Voltage inputs			
Rated voltage Us		min Max	VAC 100 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.	9
Mechanical endurance		10 <sup>7</sup>	
Electrical endurance		10 <sup>5</sup>	
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; 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	