FFL700DP

CONTROLLER FOR DIESEL ENGINE FIRE PUMPS IN ACCORDANCE WITH EN12845, POWER SUPPLY 12/24VDC, BUILT-IN RS485



Product designation			Diesel engine fire pump controller, supply 12-24VDC, built-in RS485, not expandable
Product type designation			FFL...DP
Auxiliary supply			
Rated auxil. supply voltage			12/24VDC
Operating auxil. supply voltage range			7.5…33VDC
Voltage inputs			
Rated voltage Us			
	min	VAC	100
	Max	VAC	250
Measurement range		V	50...264
Frequency range		Hz	45...65
Engine running input (D+) for pre-excited alternator			
Operating range		VDC	0...33VDC
Maximum input current		mA	0.5mA
Max voltage at D+ terminal		VDC	12 or 24 VDC (battery voltage)
Pre-excitation current			210mA at 12VDC / 130mA at 24VDC
Engine speed input (pick-up/W input)			
Input type			AC coupling
Minimum reading frequency voltage			
	High sensitivity		≥2.8Vpp (1Vrms) at 40Hz ≥10Vpp (3.5Vrms) at 20000Hz
	Low sensitivity		≥3.7Vpp (1.3Vrms) at 40Hz ≥7Vpp (2.5Vrms) at 2000Hz
Mearusing input impedance			> 100kΩ
Max iput voltage			84Vpp (30Vrms)
Pinion input			
Voltage range			0...33VDC
Input current			≤8mA
Threshold			adjustable
Input delay			adjustable
NTC probe input			
Sensor type			NTC (LOVATO code NTC01)

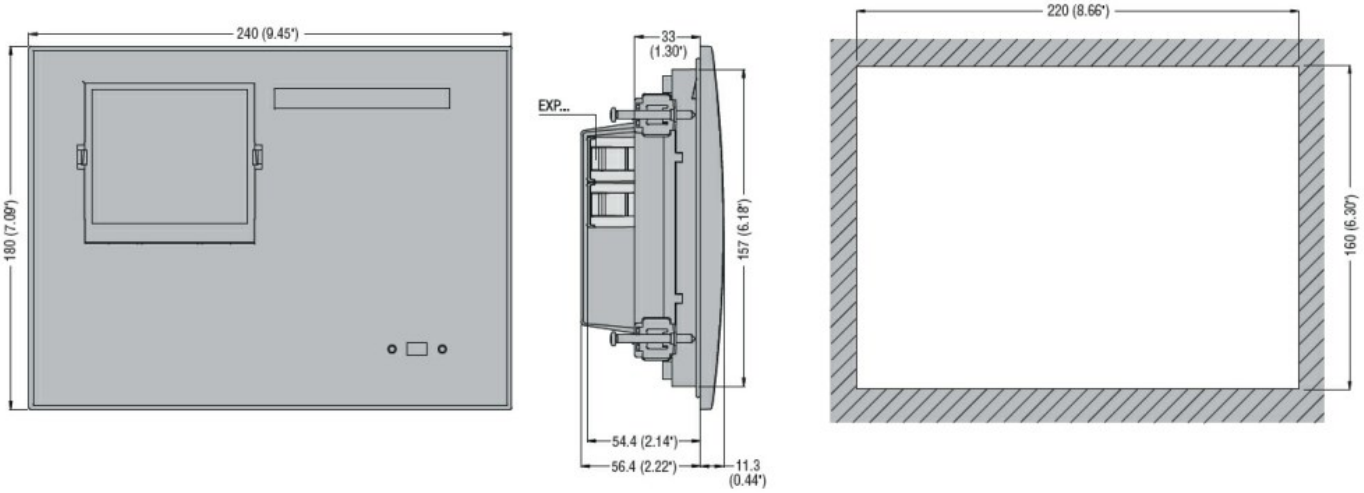
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Measuring range		°C	-40...+85
Maximum connection lenght		mt	3m
Digital inputs			
Number of digital input		Nr.	10
Digital input type			Negative
Digital input current		mA	≤6
High digital input signal		V	≥4.9V (typical 3.8V)
Low digital input signal		V	≤1.25V (typical 1.9V)
Digital input signal delay		ms	≥50
Relay outputs			
Number of relay output		Nr.	10
Mechanical endurance			10^7
Electrical endurance			10^5
Static Outputs			
Number of static output			1 (OUT11)
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^2	0.2
	Max	mm^2	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

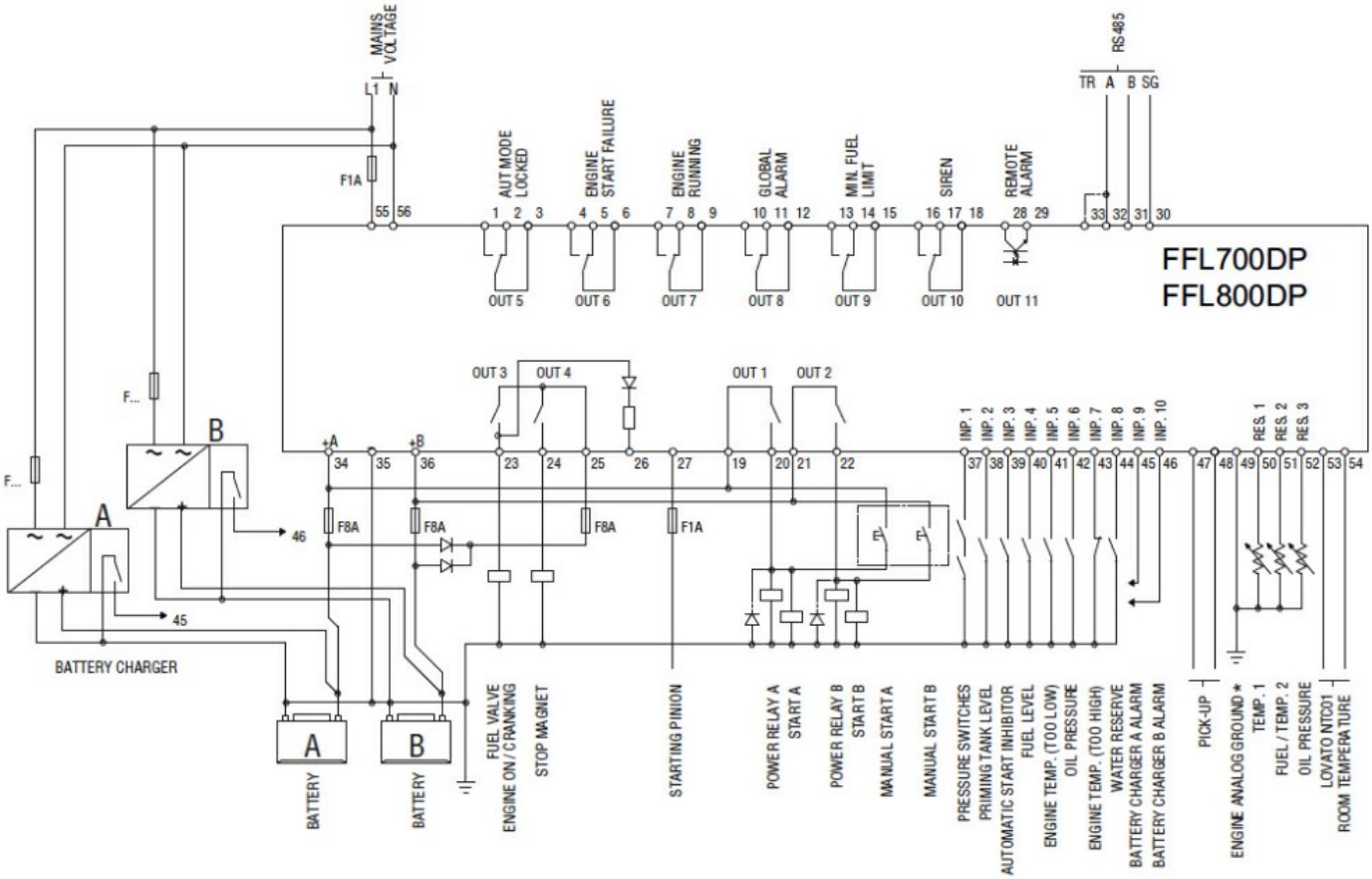
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Weight	g	980

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

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ETIM 8.0

EC002685 - Central fire alarm control panel

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