



Product designation			Diesel engine fire pump controller, supply 12- 24VDC, built-in RS485, not
			expandable
Product type designation			FFLDP
Auxiliary supply			
Rated auxil. supply voltage			12/24VDC
Operating auxil. supply voltage range			7.533VDC
Voltage inputs			
Rated voltage Us			
	min	VAC	100
	Max	VAC	250
Measurement range		V	50264
Frequency range		Hz	4565
Engine running input (D+) for pre-excited alternator			
Operating range		VDC	033VDC
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)			24VDC
Engine speed input (pick-up/W input) Input type			
Engine speed input (pick-up/W input)	High sensitivity		24VDC AC coupling ≥2.8Vpp (1Vrms) at 40Hz ≥10Vpp (3.5Vrms) at 20000Hz ≥3.7Vpp
Engine speed input (pick-up/W input) Input type	High sensitivity		24VDC AC coupling ≥2.8Vpp (1Vrms) at 40Hz ≥10Vpp (3.5Vrms) at 20000Hz
Engine speed input (pick-up/W input) Input type			24VDC <u>AC coupling</u> ≥2.8Vpp (1Vrms) at 40Hz ≥10Vpp (3.5Vrms) at 20000Hz ≥3.7Vpp (1.3Vrms) at 40Hz ≥7Vpp (2.5Vrms) at
Engine speed input (pick-up/W input) Input type Minimum reading frequency voltage			24VDC AC coupling ≥2.8Vpp (1Vrms) at 40Hz ≥10Vpp (3.5Vrms) at 20000Hz ≥3.7Vpp (1.3Vrms) at 40Hz ≥7Vpp (2.5Vrms) at 2000Hz
Engine speed input (pick-up/W input) Input type Minimum reading frequency voltage			24VDC AC coupling $\geq$ 2.8Vpp (1Vrms) at 40Hz $\geq$ 10Vpp (3.5Vrms) at 20000Hz $\geq$ 3.7Vpp (1.3Vrms) at 40Hz $\geq$ 7Vpp (2.5Vrms) at 2000Hz $\geq$ 100kΩ
Engine speed input (pick-up/W input)   Input type   Minimum reading frequency voltage       Mearusing input impedance   Max iput voltage			24VDC AC coupling $\geq$ 2.8Vpp (1Vrms) at 40Hz $\geq$ 10Vpp (3.5Vrms) at 20000Hz $\geq$ 3.7Vpp (1.3Vrms) at 40Hz $\geq$ 7Vpp (2.5Vrms) at 2000Hz $\geq$ 100kΩ
Engine speed input (pick-up/W input)   Input type   Minimum reading frequency voltage   Mearusing input impedance   Max iput voltage   Pinion input			24VDC AC coupling ≥2.8Vpp (1Vrms) at 40Hz ≥10Vpp (3.5Vrms) at 20000Hz ≥3.7Vpp (1.3Vrms) at 40Hz ≥7Vpp (2.5Vrms) at 2000Hz > 100kΩ 84Vpp (30Vrms)
Engine speed input (pick-up/W input)   Input type   Minimum reading frequency voltage   Mearusing input impedance   Max iput voltage   Pinion input   Voltage range			24VDC AC coupling ≥2.8Vpp (1Vrms) at 40Hz ≥10Vpp (3.5Vrms) at 20000Hz ≥3.7Vpp (1.3Vrms) at 40Hz ≥7Vpp (2.5Vrms) at 2000Hz > 100kΩ 84Vpp (30Vrms) 033VDC
Engine speed input (pick-up/W input)   Input type   Minimum reading frequency voltage   Mearusing input impedance   Max iput voltage   Pinion input   Voltage range   Input current			24VDC AC coupling $\geq$ 2.8Vpp (1Vrms) at 40Hz $\geq$ 10Vpp (3.5Vrms) at 20000Hz $\geq$ 3.7Vpp (1.3Vrms) at 40Hz $\geq$ 7Vpp (2.5Vrms) at 2000Hz > 100kΩ 84Vpp (30Vrms) 033VDC $\leq$ 8mA
Engine speed input (pick-up/W input)   Input type   Minimum reading frequency voltage   Mearusing input impedance   Max iput voltage   Pinion input   Voltage range   Input current   Threshold			24VDC AC coupling ≥2.8Vpp (1Vrms) at 40Hz ≥10Vpp (3.5Vrms) at 20000Hz ≥3.7Vpp (1.3Vrms) at 40Hz ≥7Vpp (2.5Vrms) at 2000Hz > 100kΩ 84Vpp (30Vrms) 033VDC ≤8mA adjustable
Engine speed input (pick-up/W input)   Input type   Minimum reading frequency voltage   Mearusing input impedance   Max iput voltage   Pinion input   Voltage range   Input current   Threshold   Input delay			24VDC AC coupling $\geq$ 2.8Vpp (1Vrms) at 40Hz $\geq$ 10Vpp (3.5Vrms) at 20000Hz $\geq$ 3.7Vpp (1.3Vrms) at 40Hz $\geq$ 7Vpp (2.5Vrms) at 2000Hz $\geq$ 100kΩ 84Vpp (30Vrms) 033VDC $\leq$ 8mA adjustable adjustable Adjustable
Engine speed input (pick-up/W input)   Input type   Minimum reading frequency voltage   Mearusing input impedance   Max iput voltage   Pinion input   Voltage range   Input current   Threshold   Input delay   NTC probe input			24VDC AC coupling ≥2.8Vpp (1Vrms) at 40Hz ≥10Vpp (3.5Vrms) at 20000Hz ≥3.7Vpp (1.3Vrms) at 40Hz ≥7Vpp (2.5Vrms) at 2000Hz > 100kΩ 84Vpp (30Vrms) 033VDC ≤8mA adjustable adjustable

FFL700DP



ENERGY AND AUTOMATION

FFL700DP CONTROLLER FOR DIESEL ENGINE FIRE PUMPS IN ACCORDANCE WITH EN12845, POWER SUPPLY 12/24VDC, BUILT-IN RS485

Maximum connection I	enght		mt	3m
Digital inputs				1.0
Number of digital input			Nr.	10
Digital input type				Negative
Digital input current			mA	<u>≤6</u>
High digital input signa			V	≥4.9V (typical 3.8V)
Low digital input signal			V	≤1.25V (typical 1.9V)
Digital input signal dela	у		ms	≥50
Relay outputs			N I.e.	10
Number of relay output			Nr.	10 10 <sup>7</sup>
Mechanical endurance				-
Electrical endurance				10⁵
Static Outputs				
Number of static output	t			1 (OUT11)
Static output type				NO
Operating voltage			V	1030VDC
Maximum current			mA	50mA
RS485 serial interface				le clote d DO 405
Interface type				Isolated RS485 serial interface
Baud rate			bps	1200115200
Insulation voltage (RS	195 \/batt)		pha	1kVDC
Connections				TRVDC
				Removable
Type of terminal				screw-type
Conductor cross section	n			
	AWG/Kcmil			
		min	AWG	24
		Max	AWG	12
	IEC			
		min	mm²	0.2
		Max	mm²	2.5
Tightening torque for to	erminals			
		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 [	))		mm	240 x 180 x 43.9
Weight	~/		g	980
			Э	

FFL700DP

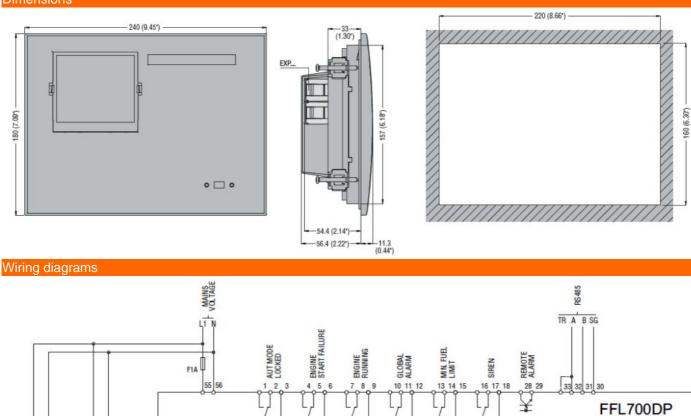
The characteristics described in this document are subject to updates or modifications at any time. The descriptions, technical and functional information, illustrations and instructions in this brochure are purely illustrative, and are consequently not contractually binding

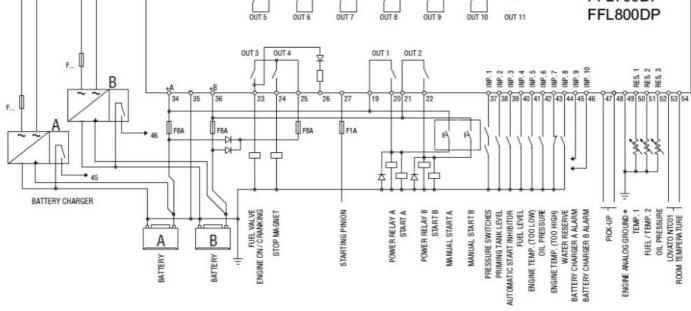
## FFL700DP



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

Dimensions





## Certifications and compliance

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Compliance

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

Certificates

ETIM classification

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## FFL700DP CONTROLLER FOR DIESEL ENGINE FIRE PUMPS IN ACCORDANCE WITH EN12845, POWER SUPPLY 12/24VDC, BUILT-IN RS485

ETIM 8.0

EC002685 -Central fire alarm control panel