

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



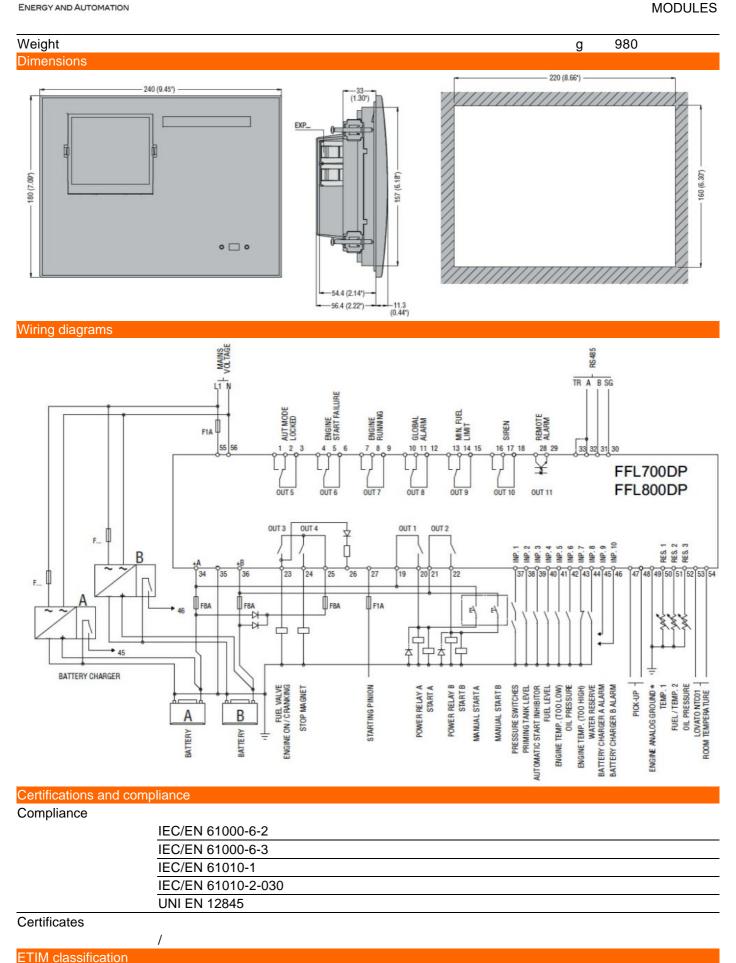
Product designation Product type designation			Diesel engine fire pump controller, supply 12- 24VDC, built-in RS485, expandable with EXP modules FFLDP
Auxiliary supply			
Rated auxil. supply voltage			12/24VDC
Operating auxil. supply voltage range			7.533VDC
Voltage inputs			
Rated voltage Us			
ratod voltago co	min	VAC	100
	Max	VAC	250
Macaurament range	IVIAA	VAC	50264
Measurement range			
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)			
Input type			AC coupling
Minimum reading frequency voltage			
	High sensitivity		≥2.8Vpp (1Vrms) at 40Hz ≥10Vpp (3.5Vrms) at 20000Hz ≥3.7Vpp
	Low sensitivity		(1.3Vrms) at 40Hz ≥7Vpp (2.5Vrms) at 2000Hz
Mearusing input impedance			> 100kΩ
Max iput voltage			84Vpp (30Vrms)
Pinion input			0+vph (20viiii2)
•			
Voltage range			0 331/DC
Voltage range			033VDC
Input current			≤8mA
Input current Threshold			≤8mA adjustable
Input current Threshold Input delay			≤8mA
Input current Threshold			≤8mA adjustable adjustable
Input current Threshold Input delay			≤8mA adjustable



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Maximum connection lenght	Magauring range		°C	-40+85
Digital inputs Nr. 10 Digital input type	Measuring range			
Number of digital input type			IIIL	SIII
Digital input type	·		Nr	10
Digital input current mA ≤6 High digital input signal V ≥4,9 V (typical 3,3 kV) Low digital input signal V ≤1,25V (typical 1,3 kV) Digital input signal detay ms ≥50 Referry outputs Nr. 10 Number of relay output Nr. 10 Mechanical endurance 10° 10° Electrical endurance 10° Nr. Static Outputs NO 10° Number of static output 1 (OUT11) Static output stat			141.	
High digital input signal			mA	
Digital input signal delay				≥4.9V (typical
Digital input signal delay ms ≥50 Relay outputs Nr. 10 Mechanical endurance 10° Electrical endurance 10° Static Outputs 10° Number of static output NO Operating voltage NO Operating voltage V 1030VDC Maximum current NO Static Outputs V 1030VDC Maximum current NO Serial interface Insulation voltage (RS485-Vbatt) Baud rate bps 1200115200 Insulation voltage (RS485-Vbatt) Removable scriew-type Conductor cross section Removable screw-type Type of terminal Removable screw-type Conductor cross section Removable screw-type AWG/Kcmil min mm² 0.2 amm²	Low digital input signal		V	≤1.25V (typical
Number of relay outputs Nith 10	Digital input signal delay		ms	
Mechanical endurance				
Electrical endurance	Number of relay output		Nr.	10
Static Outputs 1 (OUT11) Static output type NO Operating voltage V 1030VDC Maximum current mA 50mA RS485 serial interface Insulation interface type Isolated RS485 serial interface Baud rate bps 1200115200 Insulation voltage (RS485-Vbatt) type 1200115200 Insulation voltage (RS485-Vbatt) type 1200115200 Connections Type of terminal Removable screw-type Conductor cross section AWG/Kcmil min AWG 24 Max AWG 12 IEC min mm² 0.2 Tightening torque for terminals max Nm 0.56 Ambient conditions Temperature Max Nm 0.56 max Nm 0.56 Max Nm 0.56	Mechanical endurance			107
Number of static output type No Static output type NO Operating voltage v 1030VDC Maximum current mA 50mA RS485 sorial interface Isolated RS485 Baud rate bps 1200115200 Insulation voltage (RS485-Vbatt) tVDC Connections Type of terminal AWG/Kcmil min AWG 24 Max AWG 12 IEC IEC Interface type AWG/Kcmil min AWG 24 Max AWG 22 Experimental Security IEC min mm² 0.2 Ambient conditions Temperature Properature Image: State of the properatur	Electrical endurance			10⁵
Static output type	Static Outputs			
Operating voltage V 1030VDC Maximum current mA 50mA RS485 serial interface Baud rate bps 1200115200 Insulation voltage (RS485-Vbatt) 1kVDC Connections Type of terminal Removable screw-type Conductor cross section AWG/Kcmil IEC min AWG 24 Max AWG 12 IEC Tightening torque for terminals max Nm 0.56 Ambient conditions max Nm 0.56 Ambient conditions Temperature Ambient conditions min °C -25 Amax °C +70 Storage temperature min °C -25 max °C +80 Relative humidity % <80% (IEC/EN 60068-278) Housing Execution Flush-mount Housing Polycarbonate </td <td>Number of static output</td> <td></td> <td></td> <td>1 (OUT11)</td>	Number of static output			1 (OUT11)
Maximum current mA 50mA R\$495 serial interface Interface type Isolated R\$485 serial interface Baud rate bps 1200115200 Insulation voltage (R\$485-Vbatt) 1kVDC Connections Removable screw-type Type of terminal min AWG 24 Max AWG 12 IEC min mm² 0.2 Max mm² 0.5 1 Tightening torque for terminals max Nm 0.56 Tightening torque for terminals max Nm 0.56 Ambient conditions max Nm 0.56 Temperature min °C -25 max °C +70 Storage temperature min °C -25 max °C +80 Relative humidity % <80% (IEC/EN 6068-2-78)				
Interface type			V	
Interface type			mΑ	50mA
Serial interface Baud rate	RS485 serial interface			
Baud rate bps 1200115200 Insulation voltage (RS485-Vbatt) 1kVDC	Interface type			
Table Tabl	Poud rate		hna	
Connections Removable screw-type Conductor cross section AWG/Kcmil IEC min min mm² Maw AWG 12 IEC IEC Ightening torque for terminals Ightening torque for terminals Temperature Ambient conditions Temperature Operating temperature min °C -25 max °C +70 Storage temperature min °C -30 Relative humidity % 80% (IEC/EN 60068-2-78) Housing Execution Flush-mout Material Polycarbonate Degree of protection IP66 Frontal; IP20 on terminals			phs	
Removable screw-type	• • • • • • • • • • • • • • • • • • • •			IKVDC
Screw-type Screw-type Screw-type				Removable
AWG/Kcmil min AWG 24 Max AWG 12 IEC	Type of terminal			
Max AWG 24 AWG 12 IEC	Conductor cross section			
Max AWG 12	AWG/Kcmil			
FEC		min	AWG	24
Max min mm² 0.2 Max mm² 2.5		Max	AWG	12
Max mm² 2.5	IEC			
Tightening torque for terminals max Nm 0.56 max Ibin 5 Ambient conditions Temperature min °C -25 max °C +70 Storage temperature min °C -30 max °C +80 Relative humidity % <80% (IEC/EN 60068-2-78)				
Max Nm 0.56 max lbin 5		Max	mm²	2.5
Max Ibin 5	Tightening torque for terminals			0.50
Ambient conditions Temperature Operating temperature min °C -25 max °C +70				
Operating temperature	Ambient conditions	max	IDIN	5
Operating temperature min max °C max -25 max °C max +70 Storage temperature min max °C max -30 max °C max +80 Relative humidity % 60068-2-78) <80% (IEC/EN 60068-2-78)				
min min max °C max -25 max °C max -70 Storage temperature min °C max °C max -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				
Max °C +70	opolating temperature	min	°C	-25
Storage temperature min °C -30 max °C +80 Relative humidity % <80% (IEC/EN 60068-2-78) Housing Execution Material Degree of protection Polycarbonate IP65 Frontal; IP20 on terminals				
min max°C max-30 maxRelative humidity%<80% (IEC/EN 60068-2-78)	Storage temperature			
Relative humidity % <80% (IEC/EN 60068-2-78) Housing Execution Material Degree of protection Polycarbonate IP65 Frontal; IP20 on terminals		min	°C	-30
Housing Execution Material Degree of protection Flush-mount Polycarbonate IP65 Frontal; IP20 on terminals		max	°C	+80
Execution Flush-mount Material Polycarbonate Degree of protection IP65 Frontal; IP20 on terminals	Relative humidity		%	
Material Polycarbonate Degree of protection IP65 Frontal; IP20 on terminals	Housing			
Degree of protection IP65 Frontal; IP20 on terminals	Execution			
IP20 on terminals	Material			
Dimensions (W x H x D) mm 240 x 180 x 43.9	Degree of protection			-
	Dimensions (W x H x D)		mm	240 x 180 x 43.9

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FFL800DP

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ETIM 8.0

EC002685 -Central fire alarm control panel