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Customer: \_\_\_\_\_

Engineer: \_\_\_\_\_

Pump Manufacturer: \_\_\_\_\_

### **Technical Data Submittal Document**

## **Model LFY**

Wye-Delta Open Electric Fire Pump Controller Built to LPS1237



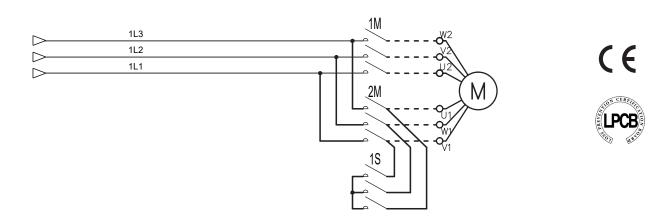
**Contents:** Data Sheets Dimensional Data Wiring Schematics Field Connections

Note: The drawings included in this package are for controllers covered under our standard offering. Actual AS BUILT drawings may differ from what is shown in this package.





### Technical Data Model LFY Electric Fire Pump Controller



Standard	Built to LPCB - LPS1237			
& Certification	CE Mark: Various EN, IEC & CEE directives and standards			
	Protection Rating			
	Standard: IP55			
	Optionnal			
	IP55 304 stainless steel painted	IP55 304 stainless steel brushed finish		
Enclosure	IP55 316 stainless steel painted	IP55 316 stainless steel brushed finish		
	Accessories • Bottom entry gland plate • Special tool ¼ turn locks	Paint Specifications <ul> <li>Red RAL3002</li> <li>Powder coating</li> <li>Glossy textured finish</li> </ul>		
Ambient Temperature Rating	Standard: 0°C to 50°C / 32°F to 122°F			
Disconnecting Means	Three (3) pole fused disconnect switch complete with rotary door handle     Door interlocked in the ON position			
Electrical Reading	Amperage indicator at L1			
Terminals to Connect Starting Devices	Provision to connect four (4) pressure switches (by others)			
Operador Interface	Push buttons     Emergency start (lockable cover)     Stop / Reset     Lamp Test			
Visual Alarms	<ul> <li>Pilot light</li> <li>AC supply healthy</li> <li>Pump running</li> <li>Pump on demand</li> <li>Start failure</li> <li>Ammeter</li> </ul>			

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Remote Alarm Contact	<ul> <li>Pump on demand (SPDT)</li> <li>Pump running (SPDT)</li> <li>AC supply failure (SPDT)</li> <li>Start failure (SPDT)</li> </ul>	
	Automatic Start	Start on pressure drop
Operation	Manual Start	Emergency Start pushbutton
	Stopping	Manual Stop pushbutton

400V / 3ph / 50hz	Approximate Dimensions (mm)		
5.5 KW - 22 KW	500 x 500 x 210		
30 KW - 75 KW	600 x 600 x 210		
90 KW - 110 KW	800 x 800 x 210		
132 KW - 250 KW	800 x 1000 x 300		

Options	
I10	Duty / Standby
I11	Run period timer
112	Start delay

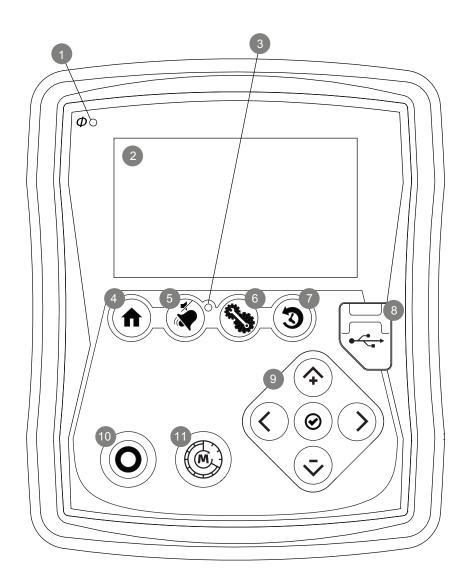
Note: Options chosen from this page are not electrically represented on the wiring schematics in this submittal package.



Technical Data Model LFY Electric Fire Pump Controller

#### ViZiTouch Light Operator Interface





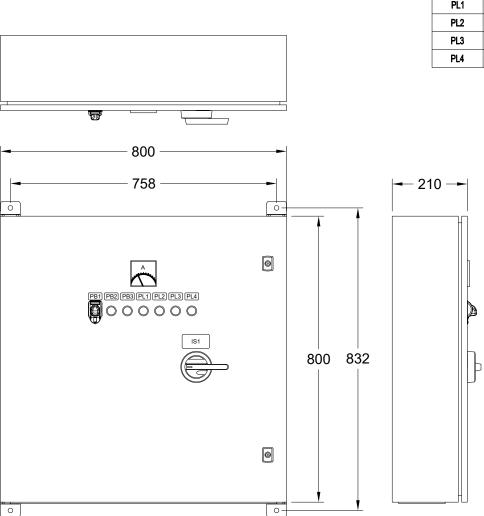
- 1 Power on LED
- 2 Color touch screen
- 3 Alarm LED
- 4 HOME page button
- 5 ALARM page button
- 6 CONFIGURATION page button
- 7 HISTORY page button
- 8 USB port
- 9 START button
- 9 Contextual navigation pad
- 10 STOP button\*
- 11 RUN TEST button

## Electric Fire Pump Controller Reduced Voltage / Wye-Delta (Open Transition)



#### Built to the latest edition of the LPS 1237

Designation	Label Text
IS1	ISOLATING SWITCH
PB1	EMERGENCY START
PB2	STOP/RESET
PB3	LAMP TEST
PL1	AC SUPPLY HEALTHY
PL2	PUMP RUNNING
PL3	PUMP ON DEMAND
PL4	START FAILURE



#### Notes:

Dimensions

- IP55 assembly
- All dimensions are in millimeters
- Paint: textured red RAL 3002
   Bottom conduit entrance through removable gland plate recommended
- Use watertight conduit and connector only
- Protect equipment against drilling chips
- Ambient temperature : between 4°C and 40°C
- Controller weight: approximately 20 Kg
- Shipping weight: approximately 35 Kg

Drawing for information only. Manufacturer reserves the right to modify this drawing without notice. Contact manufacturer for "As Built" drawing.



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Voltage / Power Table				
Voltage Min kW Max kW				
400	90	110		

Projection

	REV.	DESCRIPTION	DD/MM/YY	Drawing number
	2	General revision	07/12/16	
	3	General revision	29/08/17	LFY-DI003 /E
	4	Revised logo	18/06/18	
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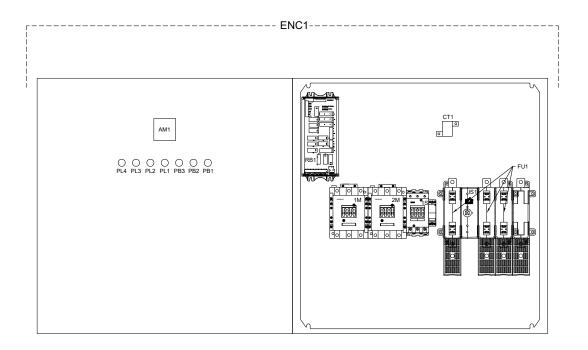
# Electric Fire Pump Controller Reduced Voltage / Wye-Delta (Open Transition)

### Internal Layout

### Model: LFY

Built to the latest edition of the LPS 1237

Designation	Description
1M-2M-1S	WYE Delta Contactors
AM1	Ammeter
CT1	Current Transformer
ENC1	Enclosure
FU1	Fuses
IS1	Isolating Switch
PB1	Green Push-Button
PB2	Red Push-Button
PB3	Black Push-Button
PL4	Red Pilot Light
PL1-PL2-PL3	Green Pilot Lights
RB1	LFX Board



Voltage / Power Table				
Voltage	Min kW	Max kW		
400	90	110		

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REV.	DESCRIPTION	DD/MM/YY	Drawing number
0	First issue	07/12/16	
1	General revision	29/08/17	LFY-LY003 /E
2	Revised logo	18/06/18	

### **Electric Fire Pump Controller**

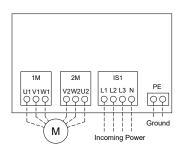
### Model: LFY

#### **Terminal Diagram**

#### **Field Connections**

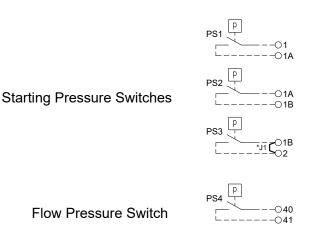
Normal Power Connections

kW	IS1 (mm2)	1M-2M (mm2)	
5.5 - 11	6 - 70	2.5 - 4	
15 - 22	6 - 70	2.5 - 10	
30 - 45	6 - 70	2.5 - 35	
55 - 75	6 - 70	6 - 50	
90 - 200	M10	25 - 120	
250	M12	25 - 120	



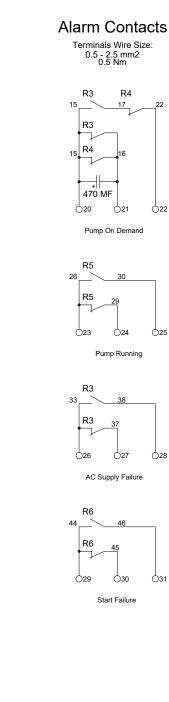
### **Field Connections**

Terminals Wire Size: 0.5 - 2.5 mm2 0.5 Nm



Flow Pressure Switch





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	REV.	DESCRIPTION	DD/MM/YY	Drawing number
	0	First issue	07/12/16	
1 Gen		General revision	29/08/17	LFY-TD001 /E
	2	Revised logo	18/06/18	
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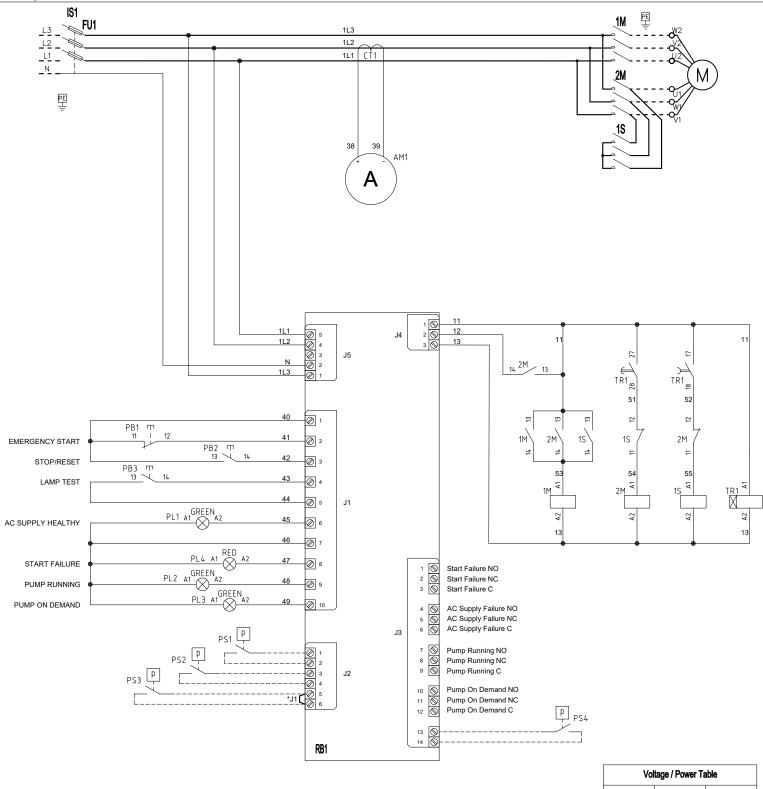
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#### Electric Fire Pump Controller Reduced Voltage / Wye-Delta (Open Transition)

Wiring schematic

### Model: LFY

Built to the latest edition of the LPS 1237



Voltage / Tower Table						
Voltage	Min kW	Max kW				
400	90	250				

\* Remove jumper to use this feature

#### Drawing for information only. Manufacturer reserves the right to modify this drawing without notice Contact manufacturer for "As Built" drawing.

	REV.	DESCRIPTION	DD/MM/YY	Drawing number			
	2	Added FU1 identification to fuses	07/12/16	LFY-WS003 /E			
	3	General revision	29/08/17				
	4	Revised logo	18/06/18				
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