

Project:	
Customer:	
Engineer:	
Pump Manufacturer:	

## **Technical Data Submittal Document**

# Model LFY

Wye-Delta Open Electric Fire Pump Controller Built to LPS1237



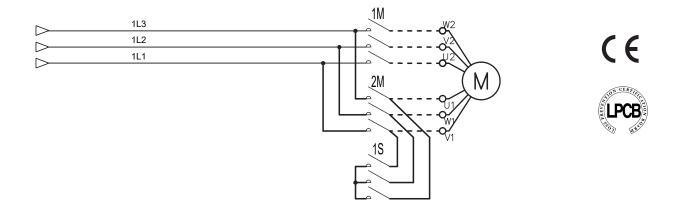
## **Contents:**

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





# **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 fi			
	Accessories  • Bottom entry gland plate  • Special tool ¼ turn locks	Paint Specifications • Red RAL3002 • Powder coating • Glossy textured finish	
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	Pilot light AC supply healthy Pump running Pump on demand Start failure Ammeter		



# **Model LFY Electric Fire Pump Controller**

Remote Alarm Contact	Pump on demand (SPDT) Pump running (SPDT) AC supply failure (SPDT) Start failure (SPDT)	
	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
☐ I12	Start delay

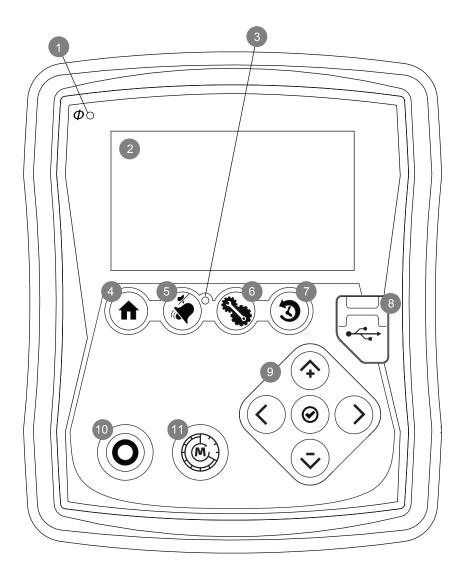
Note: Options chosen from this page are not electrically represented on the wiring schematics in this submittal package.



# **Model LFY Electric Fire Pump Controller**

## **ViZiTouch Light Operator Interface**

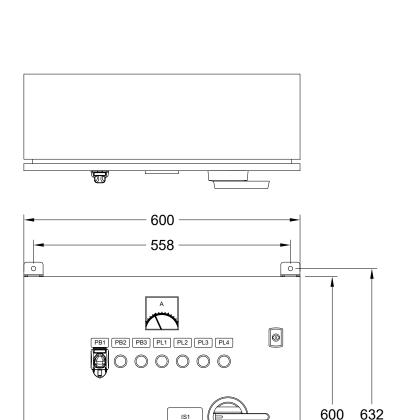




- 1 Power on LED
- 2 Color touch screen
- 3 Alarm LED
- 4 HOME page button
- 5 ALARM page button
- 6 CONFIGURATION page button
- 7 HISTORY page button
- 8 USB port
- 9 START button
- 9 Contextual navigation pad
- 10 STOP button\*
- 11 RUN TEST button

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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:

- 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

Voltage / Power Table			
Voltage	Min kW	Max kW	
400	30	75	

Manufacturer reserves the right to modify this drawing without notice. Contact manufacturer for "As Built" drawing.
7/7/7 <b>=</b>



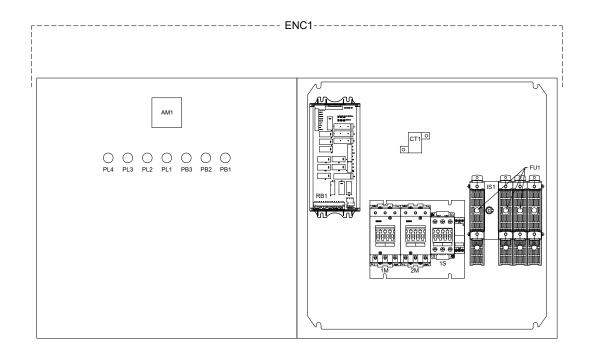
REV.	DESCRIPTION	DD/MM/YY	
2	General revision	07/12/16	
3	General revision	29/08/17	
4	Revised logo	18/06/18	



Internal Layout

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Designation	Description
1M-2M-1S	WYE Delta Contactor Assembly
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	30	75	

Drawing for information only.

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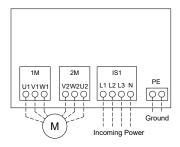


REV.	DESCRIPTION	DD/MM/YY	Drawing number
0	First issue	07/12/16	
1	General revision	29/08/17	LFY-LY002 /E
2	Revised logo	18/06/18	

#### Field Connections

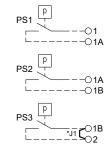
#### **Normal Power Connections**

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



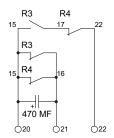
Flow Pressure Switch

Starting Pressure Switches

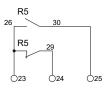


### **Alarm Contacts**

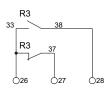
Terminals Wire Size: 0.5 - 2.5 mm2 0.5 Nm



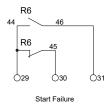
Pump On Demand



Pump Running



AC Supply Failure



Drawing for information only.

Manufacturer reserves the right to modify this drawing without notice.

For drawing for approval or installation, please contact manufacturer.



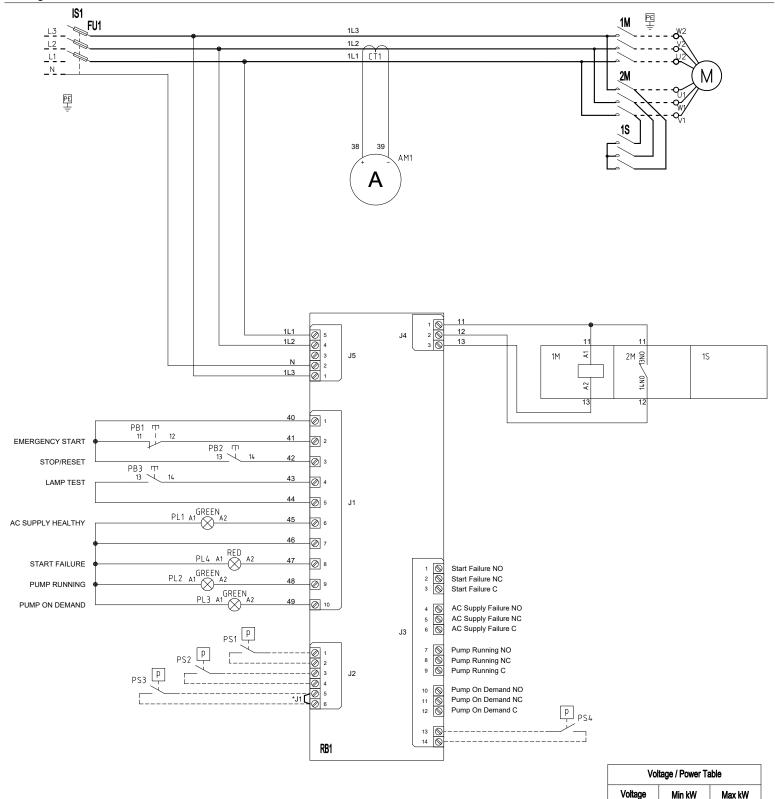


REV.	DESCRIPTION	DD/MM/YY	Drawing number
0	First issue	07/12/16	
1	General revision	29/08/17	LFY-TD001 /E
2	Revised logo	18/06/18	

# Model: LFY

Wiring schematic

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\* Remove jumper to use this feature

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Contact manufacturer for "As Built" drawing.

15

75

400



 REV.
 DESCRIPTION
 DD/MM/YY
 Drawing number

 2
 Added FU1 identification to fuses
 07/12/16

 3
 General revision
 29/08/17

 4
 Revised logo
 18/06/18