

Project:	
Customer:	
Engineer:	
Pump Manufacturer:	

Technical Data Submittal Document

Model HFY

Wye-delta Open
Electric Fire Pump Controller
Built to EN12485



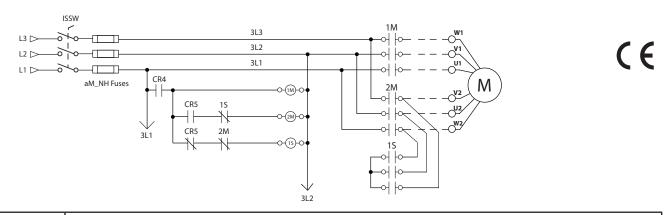
Contents:

Data Sheets
Dimensional Data
Wiring Schematics
Field Connections





Model HFY Electric Fire Pump Controller



Standard &	Built to EN12845		
Certification	CE Mark: Various EN, IEC & CEE directives and standards		
	Protection Rating IP55		
Enclosure	Accessories • Bottom entry gland plate • Red RAL3002 • Powder coating • Glossy textured finish		
Isolationg Means Motor Protection	Three (3) pole fused disconnect switch complete with rotary door handle Fuse NH_aM (3) Door interlocked in the ON position		
Electrical Readings	Voltage phase to phase Amperage at L1 when motor is running		
Event recorder	Event recording with date stamp Under regular maintained operation, events can be stored in memory for up to 5 years. Data viewable on operator interface display screen		
Pressure Sensing	Provision to connect to externally mounted pressure switch (by others)		
Visual Indications & Alarms	 Power available Phase reversal Motor run Pump room alarm Motor trouble Phase unbalance Pail to start Pump on demand/Automatic start Manual start Phase loss Low water level Remote pressure switch Overcurrent Undercurrent Undervoltage Overvoltage 		
Remote Alarm Contacts	SPDT-8A-250V.AC • Power available • Spare • Motor run • Common pump room alarm • Overvoltage • Undervoltage • Phase unbalance • Common motor trouble • Overcurrent • Undercurrent • Fail to start		



ViZiTouch Light Operator Interface	Embedded microcomputer with software PLC logic 4.2" color touch screen (HMI technology) Upgradable software Expandable storage Multi-language		
	Automatic Start	Start on pressure drop (p	ressure switches by others)
Operation	Manual Start	 Start pushbutton Run test pushbutton Deluge valve start Remote start from manual device 	
	Stopping	Manual with Stop pushbutton	
	Timers	Field Adjustable & Visual Countdown	Minimum run period time (off delay) Sequential start timer (on delay) Manual test timer



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Options

☐ D14	D14 Anti-condensation heater & thermostat		
□ I01	Permanent isolation controller for direct on line start (CPI)		
☐ I02	Manu off auto key selector switch		
<u> </u>	Permanent isolation controller for y-delta start (CPI)		

L01	Other language and English (bilingual)
L02	French
L03	Spanish
L04	German
L05	Italian
L06	Polish
L07	Romanian
L08	Hungarian
L09	Slovak
L10	Croatian
L11	Czech
L12	Portuguese
L13	Dutch
L14	Russian
L15	Turkish
L16	Swedish
L17	Bulgarian
L18	Thai
L19	Indonesian
L20	Slovenian
L21	Danish
L22	Greek
L23	Arabic
L24	Hebrew
L25	Chinese

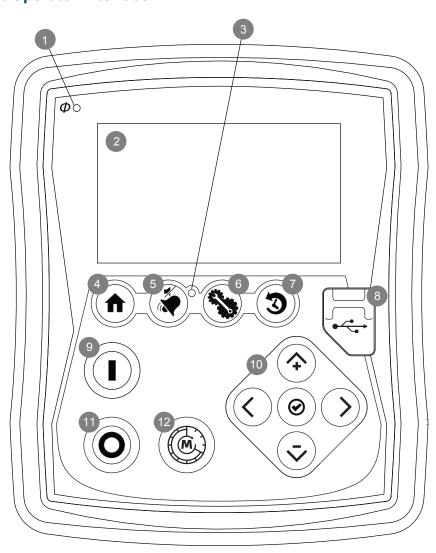
Note: Options chosen from this page are not electrically represented on the wiring schematics in this submittal package



Model HFY Electric Fire Pump Controller

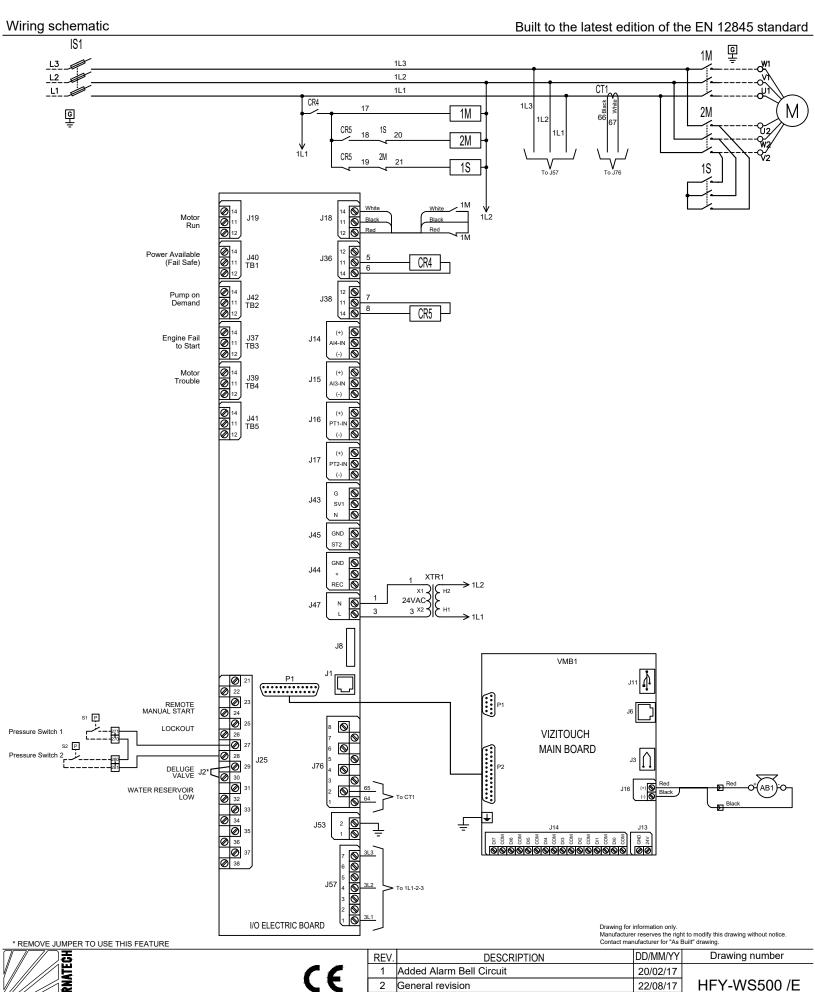
ViZiTouch Light Operator Interface





- 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
- 10 Contextual navigation pad
- 11 STOP button
- 12 RUN TEST button

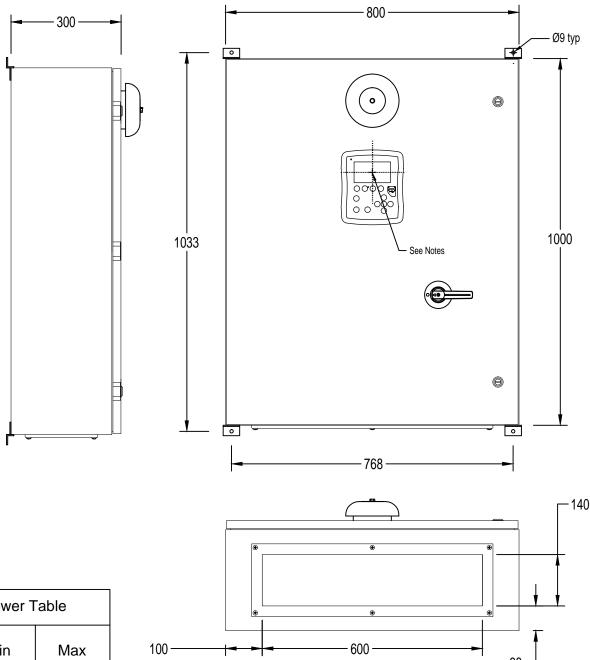


Revised logo

18/06/18

Dimensions

Built to the latest edition of the EN 12845 standard



Voltage / Power Table Voltage Min Max 380 - 400 - 415 45 kW 250 kW

Notes:

- Standard: IP55
- Standard Paint: Textured Red RAL 3002.
- All Dimensions are in Millimeters.
- Center of ViZiTouch Screen: 690mm from Bottom.
- Bottom Conduit Entrance Through Removable Gland Plate Recommended.
- Use Watertight Conduit and Connector Only.
- Protect Equipment Against Drilling Chips.
- Door Swing Equal to Door Width.

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	
1	Modified the Enclosure	04/08/16	
2	General revision	23/08/17	
3	Revised logo	18/06/18	

Drawing number

Remote Alarm Terminals (I/O Electric Board) Control Terminals (I/O Electric Board) Terminals Wire Size: 0.5 - 2.5 mm2 0.5 Nm Terminals Wire Size: 0.5 - 4 mm2 0.5 Nm Remote Manual Start Remote ²³ J25 Normally open J19 - 14 Manual Close to start pump Motor Closes to alarm Normally closed J19 - 11 Start Run Opens to alarm Lockout 25 J25 Normally closed J40 - 14 Close to block start Lockout Power Opens to alarm Ø 26 Normally open J40 - 11 Signal Available Closes to alarm Normally open Ø J42 - 14 Closes to alarm Pump on Open to start pump Normally closed J42 - 11 Pressure Switch 1 Demand Opens to alarm Pressure Switch 2 Open to start pump Normally open .137 - 14 Closes to alarm Normally closed J37 - 11 Engine Fail Deluge Valve Opens to alarm to Start Deluge 29 30 J25 Open to start pump Valve If used, remove jumper J1 Signal Normally open J39 - 14 Motor Closes to alarm Normally closed J39 - 11 Trouble Opens to alarm Filed Connections for External Devices Ø J39 - 12 (I/O board) Terminals Wire Size 12 - 24 AWG 0.5 Nm Normally open Water Reservoir Low Water Reservoir Normally closed Programmable) **Ø** 31 Close to signal alarm Opens to alarm Low J41 - 12 **Ø** 32 Signal Network Connection (VMB1) Shielded Female Connector RJ45

Drawing for information only.

Manufacturer reserves the right to modify this drawing without notice
For drawing for approval or installation, please contact manufacturer.

* Remove jumper to use this feature

J6





REV.	DESCRIPTION	DD/MM/YY	Drawing number	
1	Modified Terminal Descriptions	20/02/17		
2	General revision	22/08/17	HFX-TD500 /E	
-	Revised logo	18/06/18		

Modbus TCP/IP