



# TORNATECH

Project: \_\_\_\_\_

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

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

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

## Technical Data Submittal Document

### Model HFA

Across the line  
Electric Fire Pump Controller  
Built to EN12485



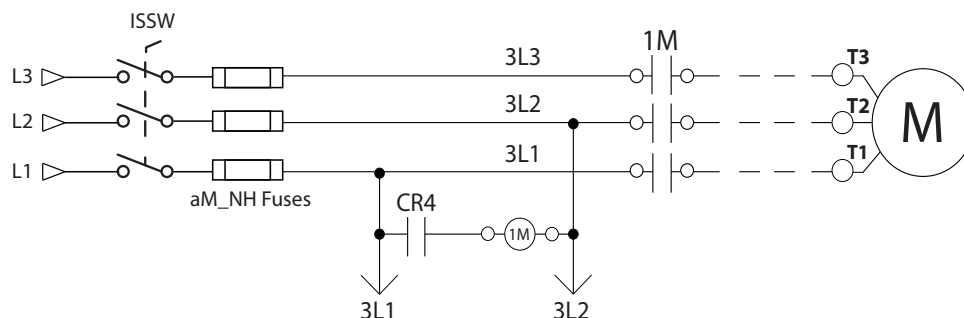
#### Contents:

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.



April 2020



Standard & Certification	Built to EN12845		
	CE Mark: Various EN, IEC & CEE directives and standards		
Enclosure	<b>Protection Rating</b> IP55		
	<b>Accessories</b> <ul style="list-style-type: none"><li>• Bottom entry gland plate</li></ul>	<b>Paint Specifications</b> <ul style="list-style-type: none"><li>• Red RAL3002</li><li>• Powder coating</li><li>• Glossy textured finish</li></ul>	
Isolationg Means Motor Protection	<ul style="list-style-type: none"><li>• Three (3) pole fused disconnect switch complete with rotary door handle<ul style="list-style-type: none"><li>• Fuse NH_aM (3)</li></ul></li><li>• Door interlocked in the ON position</li></ul>		
Electrical Readings	<ul style="list-style-type: none"><li>• Voltage phase to phase</li><li>• Amperage at L1 when motor is running</li></ul>		
Event recorder	<ul style="list-style-type: none"><li>• Event recording with date stamp</li><li>• Under regular maintained operation, events can be stored in memory for up to 5 years.</li><li>• Data viewable on operator interface display screen</li></ul>		
Pressure Sensing	• Provision to connect to externally mounted pressure switch (by others)		
Visual Indications & Alarms	<ul style="list-style-type: none"><li>• Power available</li><li>• Phase reversal</li><li>• Motor run</li><li>• Pump room alarm</li><li>• Motor trouble</li><li>• Phase loss</li></ul>	<ul style="list-style-type: none"><li>• Low water level</li><li>• Phase unbalance</li><li>• Fail to start</li><li>• Pump on demand/Automatic start</li><li>• Manual start</li><li>• Deluge valve start</li></ul>	<ul style="list-style-type: none"><li>• Remote pressure switch</li><li>• Remote manual start</li><li>• Overcurrent</li><li>• Undercurrent</li><li>• Undervoltage</li><li>• Overvoltage</li></ul>
Remote Alarm Contacts	SPDT-8A-250V.AC <ul style="list-style-type: none"><li>• Power available</li><li>• Spare</li><li>• Motor run</li><li>• Common pump room alarm<ul style="list-style-type: none"><li>• Overvoltage</li><li>• Undervoltage</li><li>• Phase unbalance</li></ul></li><li>• Common motor trouble<ul style="list-style-type: none"><li>• Overcurrent</li><li>• Undercurrent</li><li>• Fail to start</li></ul></li></ul>		



Operation	<b>ViZiTouch Light Operator Interface</b> <ul style="list-style-type: none"><li>• Embedded microcomputer with software PLC logic</li><li>• 4.2" color touch screen (HMI technology)</li><li>• Upgradable software</li><li>• Expandable storage</li><li>• Multi-language</li></ul>		
	<b>Automatic Start</b>	<ul style="list-style-type: none"><li>• Start on pressure drop (pressure switches by others)</li></ul>	
	<b>Manual Start</b>	<ul style="list-style-type: none"><li>• Start pushbutton</li><li>• Run test pushbutton</li><li>• Deluge valve start</li><li>• Remote start from manual device</li></ul>	
	<b>Stopping</b>	<ul style="list-style-type: none"><li>• Manual with Stop pushbutton</li></ul>	
	<b>Timers</b>	Field Adjustable & Visual Countdown	<ul style="list-style-type: none"><li>• Minimum run period time (off delay)</li><li>• Sequential start timer (on delay)</li><li>• Manual test timer</li></ul>

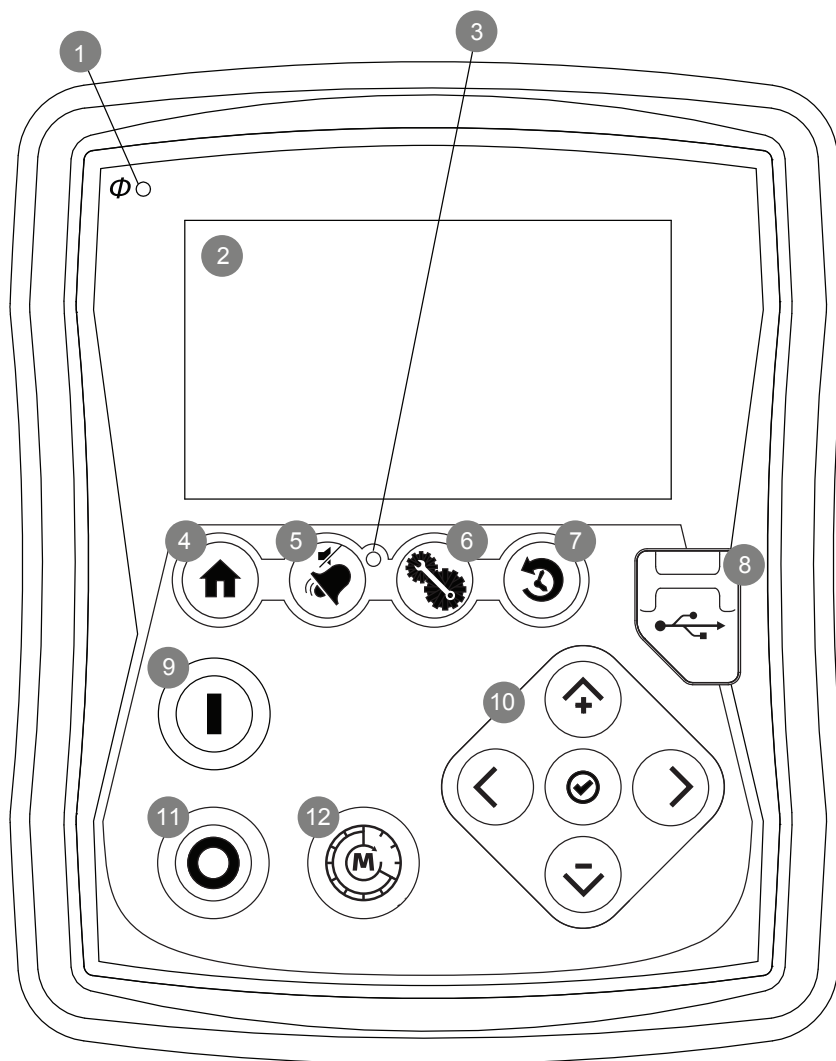
### Options

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<input type="checkbox"/> I02	Manu off auto key selector switch
<input type="checkbox"/> I03	Permanent isolation controller for y-delta start (CPI)

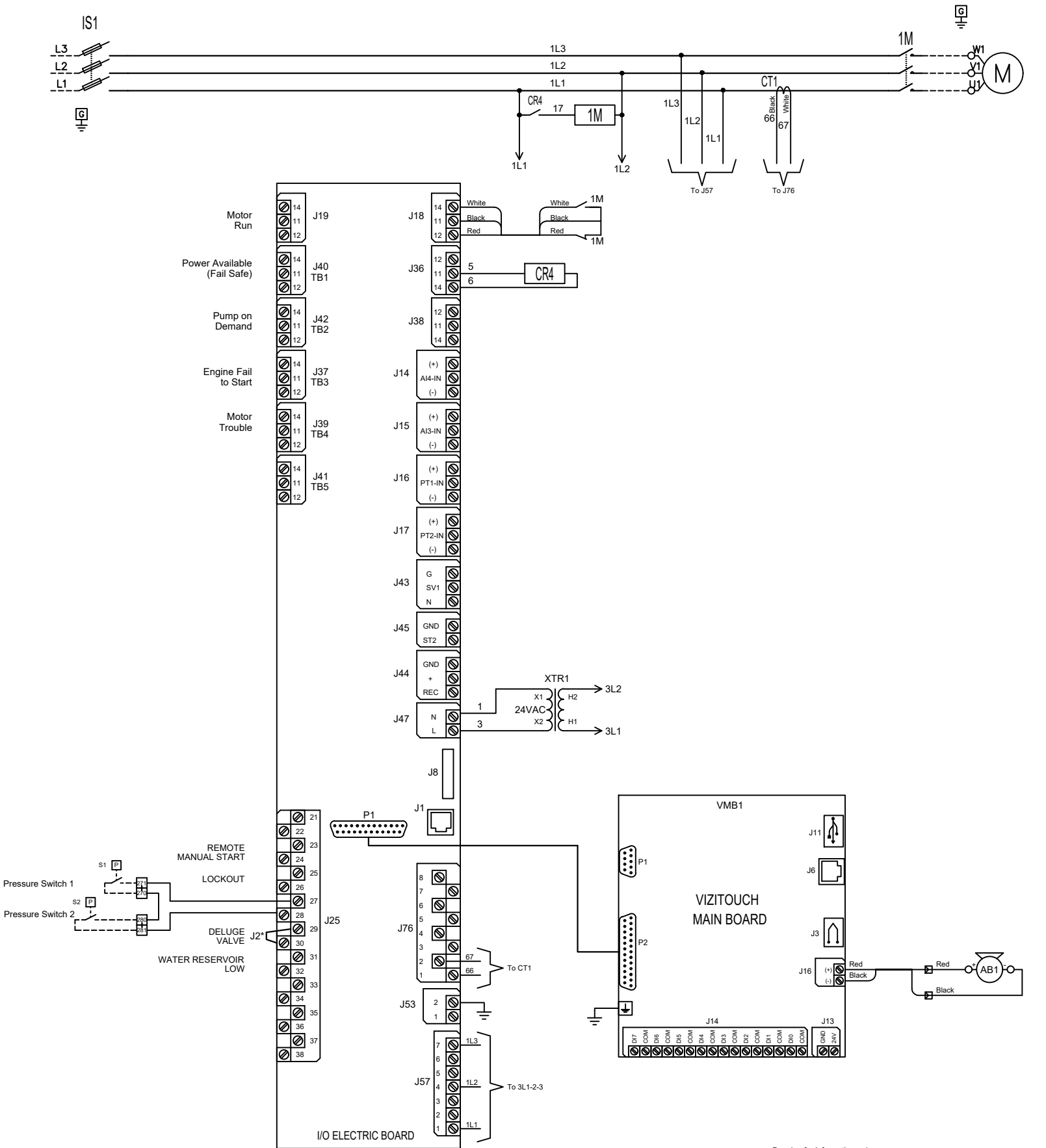
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<input type="checkbox"/> L02	French
<input type="checkbox"/> L03	Spanish
<input type="checkbox"/> L04	German
<input type="checkbox"/> L05	Italian
<input type="checkbox"/> L06	Polish
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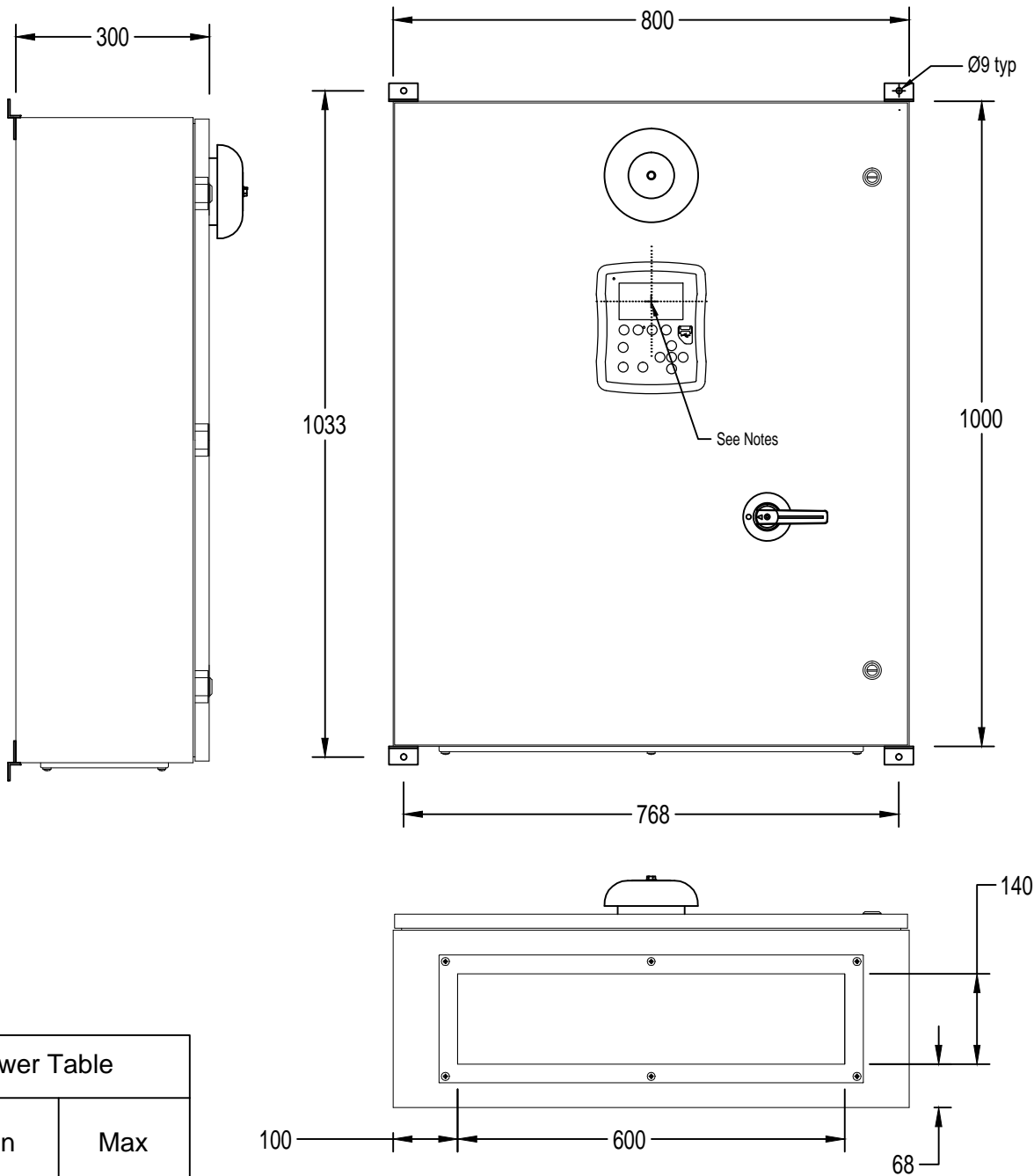
Note: Options chosen from this page are not electrically represented on the wiring schematics in this submittal package

### ViZiTouch Light Operator Interface



- |                               |                                |
|-------------------------------|--------------------------------|
| 1 - Power on LED              | 8 - USB port                   |
| 2 - Color touch screen        | 9 - START button               |
| 3 - Alarm LED                 | 10 - Contextual navigation pad |
| 4 - HOME page button          | 11 - STOP button               |
| 5 - ALARM page button         | 12 - RUN TEST button           |
| 6 - CONFIGURATION page button |                                |
| 7 - HISTORY page button       |                                |





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.

