



TORNATECH

Project: _____

Customer: _____

Engineer: _____

Pump Manufacturer: _____

Technical Data Submittal Document

Model HFA

Across the line
Electric Fire Pump Controller
Built to EN12485



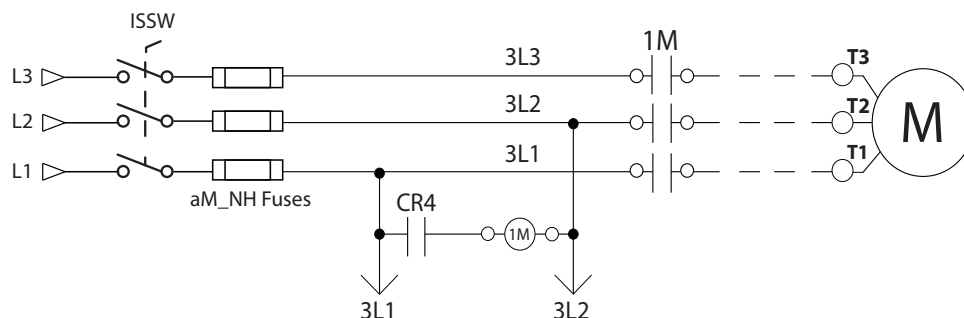
Contents:

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	Protection Rating IP55		
	Accessories <ul style="list-style-type: none">• Bottom entry gland plate	Paint Specifications <ul style="list-style-type: none">• Red RAL3002• Powder coating• Glossy textured finish	
Isolationg Means Motor Protection	<ul style="list-style-type: none">• Three (3) pole fused disconnect switch complete with rotary door handle<ul style="list-style-type: none">• Fuse NH_aM (3)• Door interlocked in the ON position		
Electrical Readings	<ul style="list-style-type: none">• Voltage phase to phase• Amperage at L1 when motor is running		
Event recorder	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• Power available• Phase reversal• Motor run• Pump room alarm• Motor trouble• Phase loss	<ul style="list-style-type: none">• Low water level• Phase unbalance• Fail to start• Pump on demand/Automatic start• Manual start• Deluge valve start	<ul style="list-style-type: none">• Remote pressure switch• Remote manual start• Overcurrent• Undercurrent• Undervoltage• Overvoltage
Remote Alarm Contacts	SPDT-8A-250V.AC <ul style="list-style-type: none">• Power available• Spare• Motor run• Common pump room alarm<ul style="list-style-type: none">• Overvoltage• Undervoltage• Phase unbalance• Common motor trouble<ul style="list-style-type: none">• Overcurrent• Undercurrent• Fail to start		



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



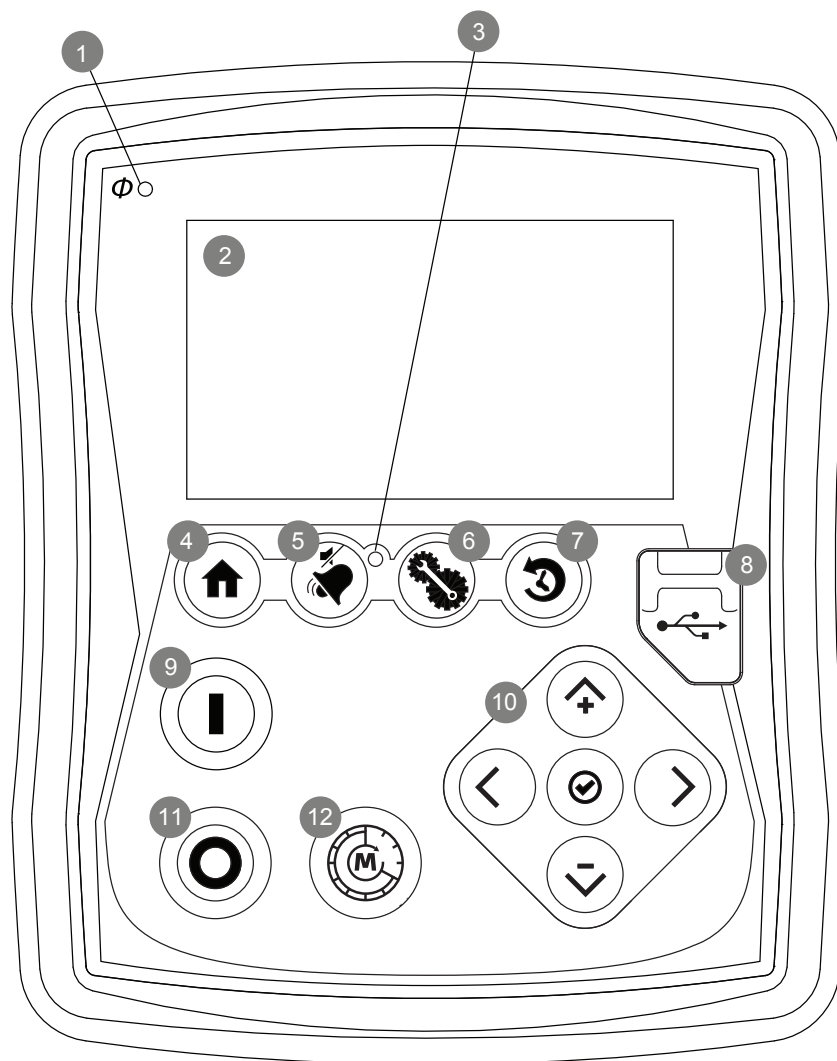
Options

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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)

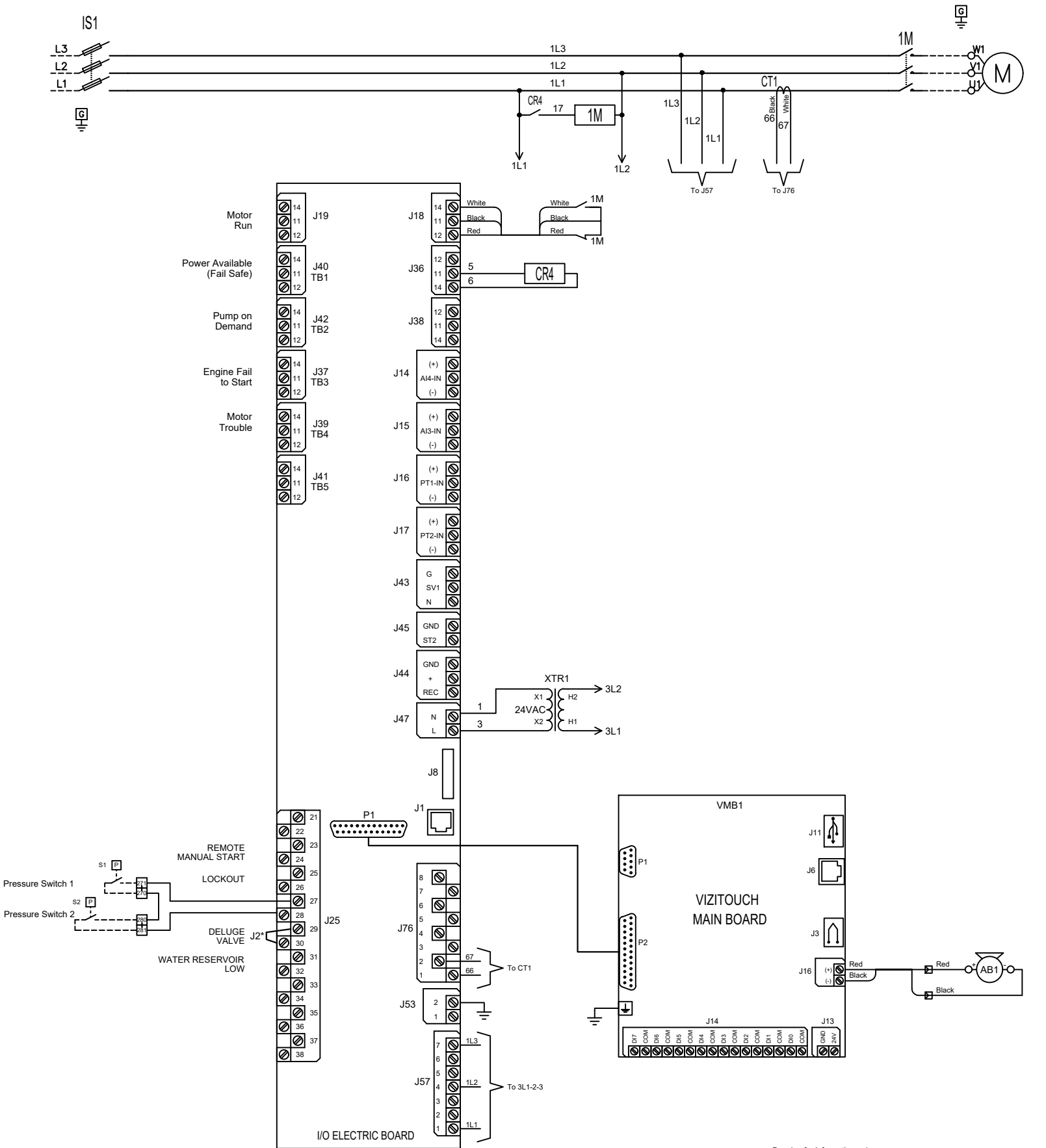
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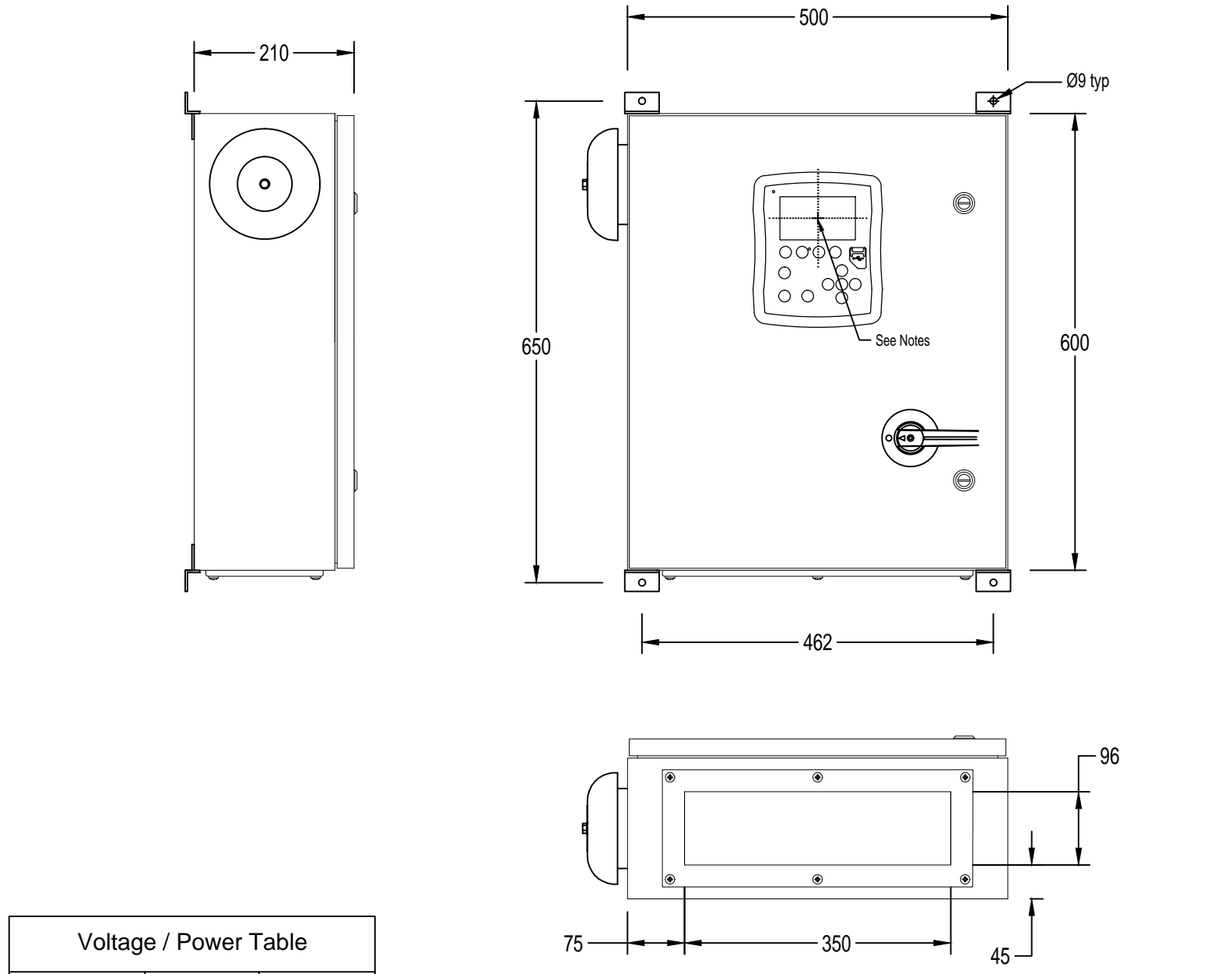
Note: Options chosen from this page are not electrically represented on the wiring schematics in this submittal package

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 | |

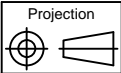


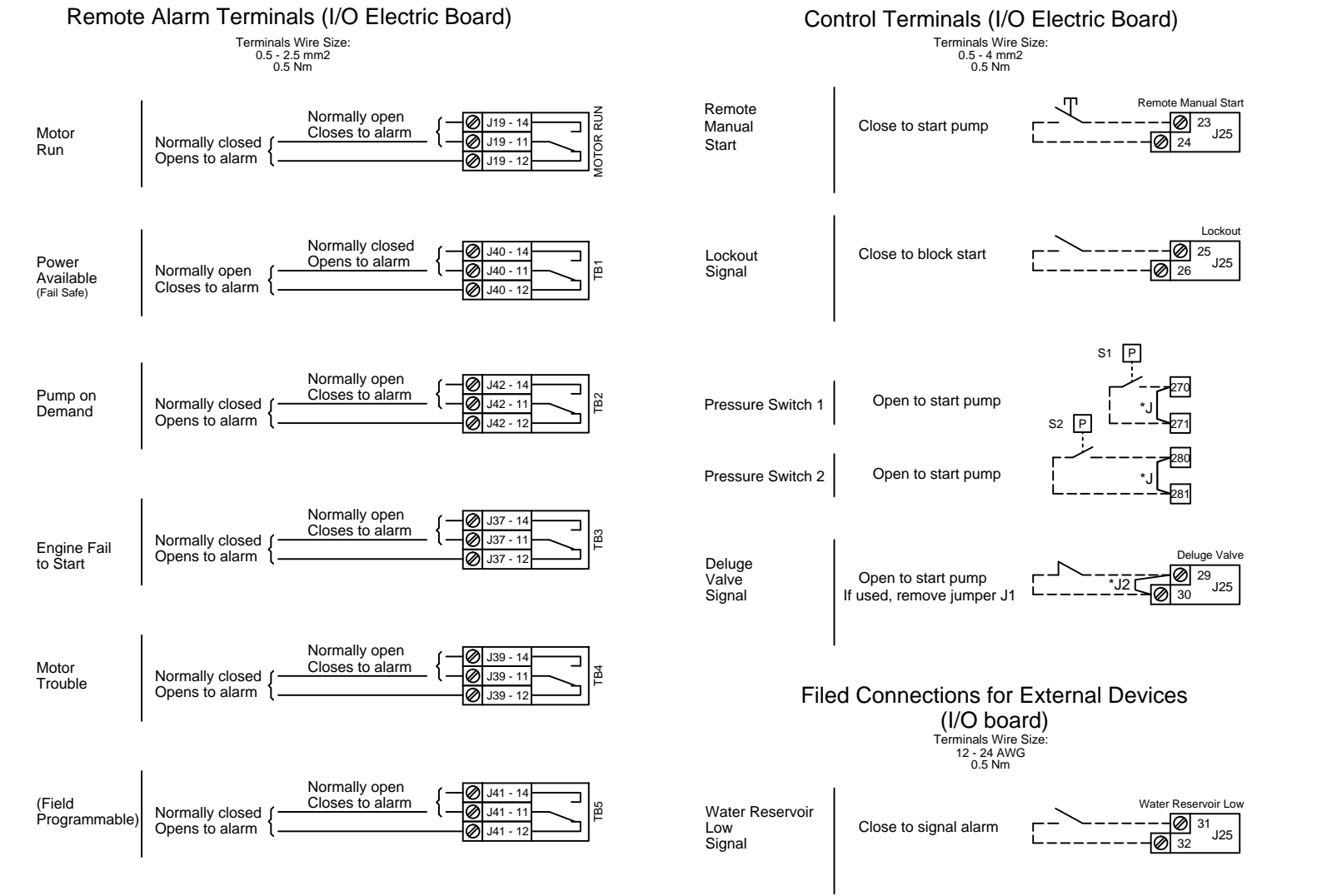


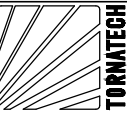

Voltage / Power Table		
Voltage	Min	Max
380 - 400 - 415	5 kW	37 kW

- Notes:**
- Standard: IP55
 - Standard Paint : Textured Red RAL 3002.
 - All Dimensions are in Millimeters.
 - Center of ViZiTouch Screen: 462mm 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	Drawing number
		1	Modified Terminal Descriptions	20/02/17	HFX-TD500 /E
		2	General revision	22/08/17	
		3	Revised logo	18/06/18	