

Project:	
Customer:	
Engineer:	
Pump Manufacturer:	

Technical Data Submittal Document

GFx Series

Electric Fire Pump Controller



Contents:

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

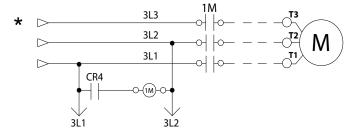




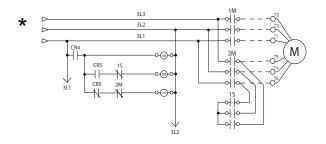
GFx Series Electric Fire Pump Controller

Select starting method

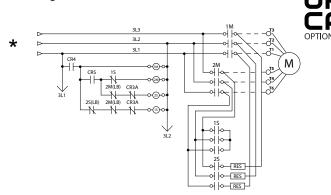
Model GFA Across the line



Model GFY Wye-Delta Open



Model GFW Wye-Delta Closed



	Built to NFPA 20			
Standard &	CE & UKCA Mark	Various EN, IEC & CEE directives and standards		
Certification	Built in U.A.E	Built in Europe		
CE Mark (only) Option		Supplied as Standard		
	Protection Rating: Standard: IP55			
	Optional			
NEMA 12 NEMA 3 Enclosure NEMA 3R NEMA 4	NEMA 12	NEMA 4X-304 sst painted	IP65	
	NEMA 3	NEMA 4X-304 sst brushed finish		
	NEMA 3R	NEMA 4X-316 sst painted	IDOO	
	NEMA 4	NEMA 4X-316 sst brushed finish	IP66	
Accessories • Bottom entry gland plate		Paint Specifications • Red RAL3002 • Powder coating • Glossy textured finish		

^{*}From normal incoming power through Disconnecting Means (IS/CB)



Disconnecting Means	Isolating switch and circuit breaker: Isolating switch rated not less than 115% of motor full load current Circuit breaker continuous rating not less than 115% of motor full load current Overcurrent sensing non-thermal type, magnetic only Instantaneous trip setting of not more than 20 times the motor full load current Individual operating handles		
Emergency Start Handle	 Flange mounted Pull and latch activation Integrated limit switch Across the line start (direct on line) 		
Locked Rotor	 Operate shunt trip to open circuit breaker Factory set at 600% of motor full load current Trip between 8 and 20 seconds 		
Electrical Readings	Voltage phase to phase (normal power) Amperage of each phase when motor is running		
Pressure Readings	Continuous system pressure display Cut-in and Cut-out pressure settings		
Pressure and Event recorder	 Pressure readings with date stamp Event recording with date stamp Under regular maintained operation, events are stored in memory fo Data viewable on operator interface display screen 	r the life of the controller.	
Pressure Sensing	 Pressure transducer for fresh water application Pressure sensing line connection 1/2" Female NPT Rated for 0-500PSI working pressure (standard display at 0-300PSI Externally mounted with protective cover)	
Visual Indications & Alarms	 Power available Phase reversal Motor run Pump room alarm Motor trouble Phase loss Low water level Phase unbalance Locked rotor Fail to start Low discharge pressure Pump on demand/Automatic start Emergency start Manual start 	 Deluge valve start Remote automatic start Remote manual start Overcurrent Undercurrent Undervoltage Overvoltage 	
Remote Alarm Contacts	SPDT-8A-250V.AC • Power available • Phase reversal • Motor run • Common pump room alarm • Overvoltage • Undervoltage • Common motor trouble • Overcurrent • Undercurrent • Fail to start		
Ambient Temperature Rating	Standard 4°C to 40°C / 39°F to 104°F Optional 4°C to 55°C / 39°F to 131°F		



ViZiTouch V2.1 Operator Interface	Embedded microcomputer with software PLC logic 7.0" color touch screen (HMI technology) Upgradable software Multi-language		
Audible Alarm	Alarm buzzer - 85dB at 3 meters		
	Automatic Start	Start on pressure drop Remote start signal from automatic device	
Manual Start		 Start pushbutton Run test pushbutton Deluge valve start Remote start from manual device 	
Operation	Stopping	Manual with Stop pushbutton Automatic after expiration of minimum run timer **	
	Timers	Field Adjustable & Visual Countdown	Minimum run timer **(off delay) Sequential start timer (on delay) Manual test timer
	Actuation	Visual Indication	Pressure Non-pressure
	Mode		Automatic Non-automatic

^{**} Can only be used if approved by the AHJ



GFx Series Electric Fire Pump Controller Options

A13	Non-pressure actuated controller w/o pressure transducer and run test solenoid valve
A16	Lockout/interlock circuit from equipment installed inside the pump room
B11B	Built in alarm panel (220VAC supervisory power) providing indication for: • Audible alarm & silence pushbutton for motor run • Phase reversal • Loss of phase • Pilot lights for loss of phase & supervisory power available
B19A	High motor temperature c/w thermoster relay and alarm contacts (Form C-SPDT)
B19B	High motor temperature c/w PT100 relay and alarm contacts (Form C-SPDT)
B21	Ground fault alarm indication c/w visual indication and alarm contact (Form C-SPDT)
C1	Extra motor run alarm contact (Form C-SPDT)
C4	Periodic test alarm contact (Form C-SPDT)
C6	Low discharge (system) pressure alarm contact (Form C-SPDT)
C7	Low pump room temperature alarm contact (Form C-SPDT)
C10	Low water level alarm contact (Form C-SPDT)
C11	High motor temperature alarm contact (Form C-SPDT)
C12	High vibration c/w visual indication and alarm contact (Form C-SPDT)
C14	Pump on demand / automatic start alarm contact (Form C-SPDT)
C15	Pump fail to start alarm contact (Form C-SPDT)
C16	Control voltage healthy alarm contact (Form C-SPDT)
C17	Flow meter loop valve open c/w visual indication and alarm contact (Form C-SPDT)
C18	High water level c/w visual indication and alarm contact (Form C-SPDT)
C19	Emergency start alarm contact (Form C-SPDT)

C20	Manual start alarm contact (Form C-SPDT)
C21	Deluge valve start alarm contact (Form C-SPDT)
C22	Remote automatic start alarm contact (Form C-SPDT)
C23	Remote manual start alarm contact (Form C-SPDT)
C24	High pump room temperature alarm contact (Form C-SPDT)
Сх	Other addition alarm contact alarm contact (Form C-SPDT) (specify function)
D1	Low suction pressure transducer for fresh water rated for 0-300psi with visual indication and alarm contact
D1A	Low suction pressure transducer for sea water rated for 0-300psi with visual indication and alarm contact
D5E	Addition of run test solenoid valve for fresh water rated for 0-500psi
D5F	Addition of run test solenoid valve for sea water rated for 0-500psi
D14	Anti-condensation heater & thermostat
D14A	Anti-condensation heater & humidistat
D14B	Anti-condensation heater & thermostat & humidistat
D15	Tropicalization
D26A	Modbus TCP/IP provision
D27	Motor heater connection (external single phase power source and heater on/off contact)
D27A	Motor heater connection (internal single phase power source and heater on/off contact, specify WATTS)
D34A	Field programmable i/o board - 5 input /5 output (NOTE: If more than 5 input or 5 output are required, please order this option as many times as required (max.8)
D36	Redundant pressure transducer for fresh water rated for 0-500psi
D36A	Redundant pressure transducer for sea water rated for 0-500psi

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



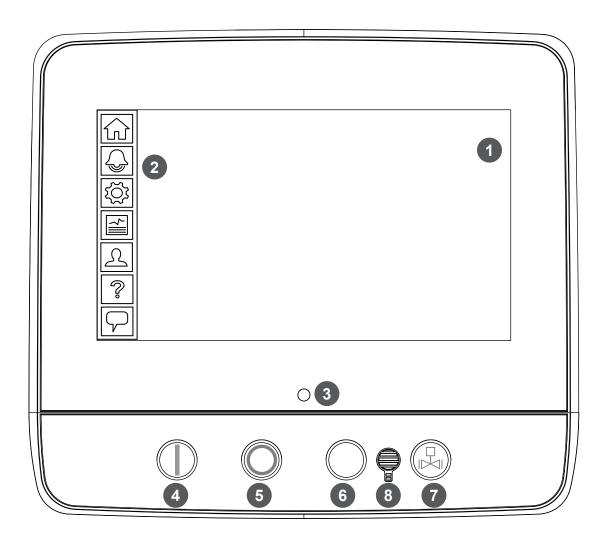
L01	Other language and English (bilingual)
L02	French
L03	Spanish
L04	German
L05	Italian
L06	Polish
L07	Romanian
L08	Hungarian
L09	Slovakian
L10	Croatian
L11	Czech
L12	Portuguese
L13	Dutch
L15	Turkish
L16	Swedish
L21	Danish
L25	Chinese
L28	Finnish
L29	Norwegian
L30	Vietnamese



GFx Series Electric Fire Pump Controller

ViZiTouch V2.1 Operator Interface





- 1 Color touch screen
- 2 Onscreen menu
 - HOME page
 - ALARM page
 - CONFIGURATION page
 - HISTORY page
 - SERVICE page
 - MANUAL page
 - LANGUAGES page

- 3 Power LED (3 colors)
- 4 START button
- 5 STOP button
- 6 Not Used
- 7 RUN TEST button
- 8 Alarm buzzer



	BY	DD/MM/YY
DRAWN BY	ACD	31/01/24
FINAL APPROVAL	FC	01/02/24

ELECTRIC FIRE PUMP CONTROLLER WITH AUTOMATIC TRANSFER SWITCH

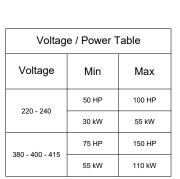
MODEL: GFA/GFY

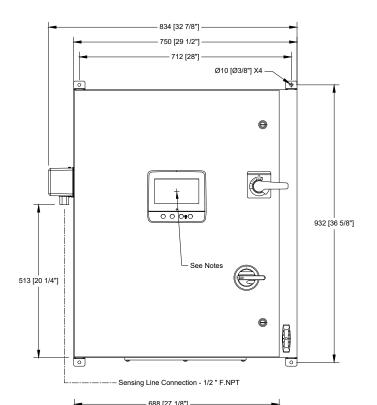
BUILT TO NFPA20

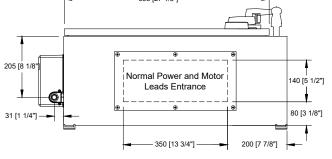




DRAWING NUMBER GFX-DI820 /E DWG REV. 0 SHEET 1 OF 1



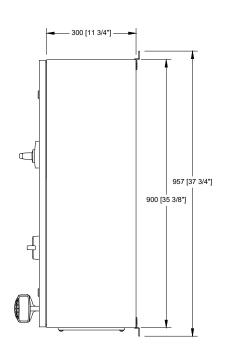


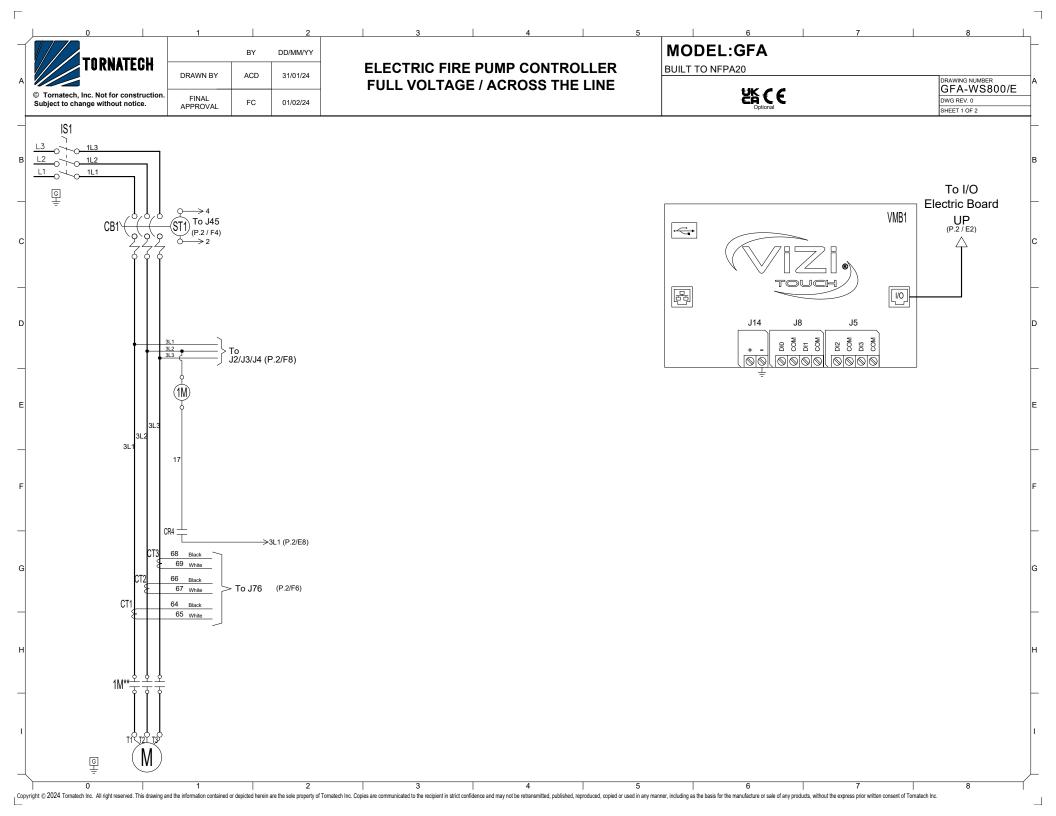


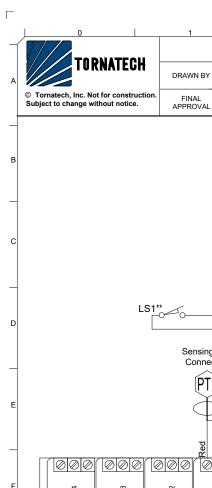
Notes:

- Standard: IP55
- Standard paint : textured red RAL 3002. All dimensions are in millimeters [inches].

- Center of screen: 559 [22"] 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.







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FINAL	FC	01/02/24

ELECTRIC FIRE PUMP CONTROLLER FULL VOLTAGE / ACROSS THE LINE

MODEL:GFA

BUILT TO NFPA20

EK€

DRAWING NUMBER GFA-WS800/E DWG REV. 0

SHEET 2 OF 2

