

Project:	
Customer:	
Engineer:	
Pump Manufacturer	

Technical Data Submittal Document

Model GFA

Across the Line Start Electric Fire Pump Controller



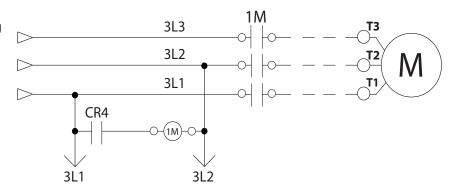
Contents:

Data Sheets
Dimensional Data
Wiring Schematics
Field Connections





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







Standard &	Built to NFPA 20 (latest edition)		
Certification	□ CE Mark: Various EN, IEC & CEE directives and standards		
	Protection Rating IP55		
Enclosure	Accessories • Bottom entry gland plate	Paint Specifications • Red RAL3002 • Powder coating • Glossy textured finish	
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 ru	nning	
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 can be stored in memory for up to 5 years. Data viewable on operator interface display screen 		
Pressure Sensing	 Pressure transducer for fresh water application Pressure sensing line connection 1/2" Female NPT Rated for 0-500PSI working pressure (calibrated at 0-300psi) Externally mounted with protective cover 		
Visual Indications & Alarms	 Power available Phase unbalance Deluge valve start Remote automatic start Remote automatic start Remote manual start Pump room alarm Low discharge pressure Motor trouble Pump on demand/Automatic start Phase loss Low water level Phase unbalance Remote automatic start Overcurrent Undercurrent Undervoltage Overvoltage 		 Remote automatic start Remote manual start Overcurrent Undercurrent
Remote Alarm Contacts	SPDT-8A-250V.AC Power available Phase reversal Motor run Common pump room alarm Overvoltage 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 Remote start signal from	automatic device
	Manual Start	Start pushbutton Run test pushbutton Deluge valve start Remote start from manual	al 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	visuai iiidication	Automatic Non-automatic

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



A4 Flow switch provision A9 Low zone pump control f	
A9 Low zone pump control f	
<u> </u>	unction
A10 Middle zone pump contro	ol function
A11 High zone pump control	function
A13 Non-pressure actuated of transducer and run test s	•
A16 Lockout/interlock circuit finstalled inside the pump	
B11B Built in alarm panel same 240VAC supervisory pow	
B19A High motor temperature and alarm contacts (DPE	
B19B High motor temperature alarm contacts (DPDT)	c/w PT100 relay and
B21 Ground fault alarm detection indication and alarm con	
C1 Extra motor run alarm co	ontact (DPDT)
C4 Periodic test alarm conta	act (DPDT)
C6 Low discharge pressure	alarm contact (DPDT)
C7 Low pump room tempera	ature alarm contact
C10 Low water reservoir leve (DPDT)	l alarm contact
C11 High electric motor temp (DPDT)	erature alarm contact
C12 High electric motor vibra indication and alarm con	
C14 Pump on demand / autor contact (DPDT)	matic start alarm
C15 Pump fail to start alarm of	contact (DPDT)
C16 Control voltage healthy a	alarm contact (DPDT)
C17 Flow meter valve loop or indication and alarm con	
C18 High water reservoir leve	
C19 Emergency start alarm c	ontact (DPDT)

C20	Manual start alarm contact (DPDT)
C21	Deluge valve start alarm contact (DPDT)
C22	Remote automatic start alarm contact (DPDT)
C23	Remote manual start alarm contact (DPDT)
☐ C24	High pump room temperature alarm contact (DPDT)
Сх	Additional visual and alarm contact (Specify function) (DPDT)
□ D1	Low suction pressure transducer for fresh water rated at 0-300PSI with visual indication and alarm contact
☐ D1A	Low suction pressure transducer for sea water rated at 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
☐ D18	CE Mark with factory certificate
☐ 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)
☐ D28	Customized drawing set
☐ D34A	Field programmable I/O board - 8 Input / 5 output
D37	Window kit for operator interface

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

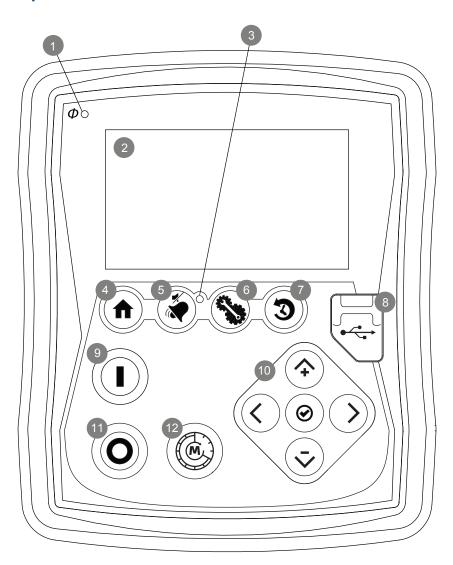


Other language and English (bilingual)
French
Spanish
German
Italian
Polish
Romanian
Hungarian
Slovak
Croatian
Czech
Portuguese
Dutch
Russian
Turkish
Swedish
Bulgarian
Thai
Indonesian
Slovenian
Danish
Greek
Arabic
Hebrew
Chinese



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

