

Project:	
Customer:	
Engineer:	
Pump Manufacturer:	

Technical Data Submittal Document

GPx Series

Full Service Electric Fire Pump Controller



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.



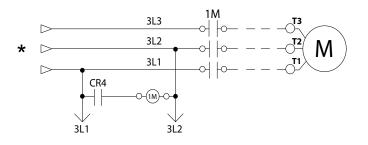


Technical Data GPx Series Full Service Electric Fire Pump Controller

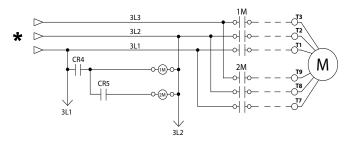
Select starting method

Model GPA

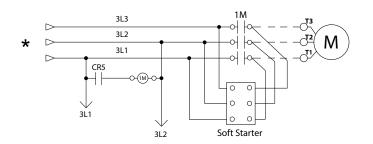




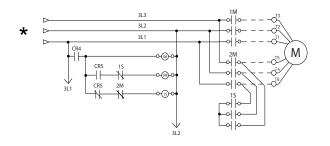
Model GPP Partwinding



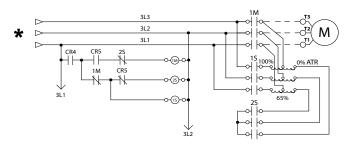
Model GPS Soft Start Soft Stop



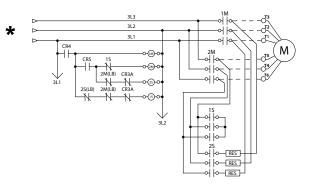
Model GPY Wye-Delta Open



Model GPR Autotransformer



Model GPW Wye-Delta Closed





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

This is a Marketing document. Please consult factory for more information. Manufacturer reserves the right to modify this information without notice



	Built to NFPA 20 (latest edition)					
	Underwriters Laboratory (UL)	UL218 - Fire Pump Controllers				
Standard,						
Listings, Approvals and	New York City	Accepted for use in the City of New York by the Department of Buildir				
Certifications	CE Mark	Vari	ous EN, IEC & CEE directives and sta	ndards		
	Built in Canada or U.A.E	E Built in Europe				
	CE Mark Option		Supplied as S	Standard		
	Protection Rating					
	Built in Canada or U.A.E		Built in Europe			
	Standard: NEMA 2		Standard: IP55			
	Optional					
	NEMA 12		NEMA 4X-304 sst painted	IP54		
Enclosure	NEMA 3		NEMA 4X-304 sst brushed finish	IP55		
	NEMA 3R	NEMA 4X-316 sst painted IP65		IP65		
	NEMA 4	NEMA 4X-316 sst brushed finish		IP66		
	Accessories • Bottom entry gland plate • Lifting Lugs • Keylock handle		Paint Specifications Red RAL3002 Powder coating Glossy textured finish			

Shortcircuit Withstand	200V to 208V 60Hz	220V to 240V 60Hz	380V to 415V 50 Hz / 60Hz	440V to 480V 60Hz	575V to 600V 60Hz					
Rating		HP (kw)								
Standard 100kA				E 400 (0 T 000)	N1/A					
Optional 150kA	5 - 150 (3.7 - 110)	5 - 200 (3.7 - 149)	5 - 300 (3.7 - 223)	5 - 400 (3.7 - 298)	N/A					
Standard 50kA	200 (149)	250 (186)	350 - 450 (261 - 335)	450 - 500 (335 - 373)	5 500 (2 7 272)					
Optional 100kA	N/A	N/A	350 - 500 (261 - 373)	450 - 500 (335 - 373)	5 - 500 (3.7- 373)					
Optional 200kA	5 - 150 (3.7 - 110)	5 - 200 (3.7 - 149)	5 - 300 (3.7 - 223)	5 - 400 (3.7 - 298)	N/A					

*Please see Disconnecting Means details on page 4



TORNATECH Technical Data GPx Series Full Service Electric Fire Pump Controller

Ambient Temperature Rating	Standard: Optional: 4°C to 40°C / 39°F to 104°F 4°C to 55°C / 39°F to 131°F Controllers built in Dubai, UAE (Tornatech FZE) are supplied standard with 55°C rating.						
Surge Suppression	Surge arrestor rated to suppress surges above line voltage						
Disconnecting Means	 Isolating switch and circuit breaker assembly: Door interlocked in the ON position Isolating switch rated not less than 115% of motor full load current Circuit breaker continuous rating not less than 115% of motor full load Overcurrent sensing non-thermal type, magnetic only Instantaneous trip setting of not more than 20 times the motor full load Common flange mounted operating handle 						
Service Entrance Rating	Suitable as service entrance equipment						
Emergency Start Handle	 Flange mounted Pull and latch activation Integrated limit switch Across the line start (direct on line) 						
Locked Rotor Protector	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 for the life of the controller. Data viewable on operator interface display screen Downloadable by USB port to external memory device 						
Pressure Sensing	 Pressure transducer and run test solenoid valve assembly for fresh water application Pressure sensing line connection 1/2" Female NPT Drain connection 3/8" Rated for 0-500PSI working pressure (standard display at 0-300PSI) Externally mounted with protective cover 						



GPx Series Full Service Electric Fire Pump Controller

Audible Alarm	6" alarm bell - 85 dB at 10ft.	(3m)	
Visual Indications	Motor runPeriodic test	 Deluge valve start Remote automatic start Remote manual start Emergency start 	 Pump on demand/Automatic start Pump room temperature (°F or °C) Lockout
Visual & Audible Alarms	Visual • Control voltage not healthy • Invalid cut-in • Lock rotor current • Loss of power • Low ambient temperature • Low water level • Motor trouble • Phase reversal (normal por Visual and audible • Fail to start	 Overvoltage Phase loss L1 Phase loss L2 Phase loss L3 Phase unbalanced Pressure transducer fault determination 	 Pump on demand Pump room alarm Service required Undercurrent Undervoltage Check weekly test solenoid Weekly test cut-in reached
Remote Alarm Contacts	DPDT-8A-250V.AC • Power available • Phase reversal • Motor run • Common pump room a • Overvoltage • Undervoltage • Phase unbalance • Low pump room te • High Pump room te • High Pump room te • Overcurrent • Fail to start • Undercurrent • Ground fault • Free (field programmate	emperature (field re-assignable)**	

**Tornatech reserves the right to use any of these three alarm points for special specific application requirements.



TORNATECH Technical Data GPx Series Full Service Electric Fire Pump Controller

ViZiTouch V2 Operator Interface	 Embedded microcomputer with software PLC logic 7.0" color touch screen (HMI technology) Upgradable software Multi-language 					
Communication Protocol Capability	 Protocol: Modbus Connection type: Shielded female connector RJ45 Frame Format: TCP/IP Addresses: See bulletin MOD-GPx 					
Automatic Start • Start on pressure drop • Remote start signal from automatic device • Deluge valve start						
	Manual Start	 Start pushbutton Run test pushbutton Remote start from manual device 				
Operation	Stopping	Manual with Stop pushbu Automatic after expiration				
	Timers		 Minimum run timer ***(off delay) Sequential start timer (on delay) Periodic test timer 			
	Actuation	Visual Indication	Pressure Non-pressure			
	Mode		Automatic Non-automatic			

***Can only be used if approved by the AHJ



Technical Data

GPx Series Full Service Electric Fire Pump Controller

A4	Flow switch provision	C19	Emergency start alarm contact (DPDT)		
A8	Foam pump application w/o pressure	C20	Manual start alarm contact (DPDT)		
<u> </u>	transducer and run test solenoid valve.	C21	Deluge valve start alarm contact (DPDT)		
A9	Low zone pump control function	C22	Remote automatic start alarm contact (DPDT)		
A10	Middle zone pump control function	C23	Remote manual start alarm contact (DPDT)		
A11	High zone pump control function	C24	High pump room temperature alarm contact		
A13	Non-pressure actuated controller w/o pressure transducer and run test solenoid valve	C24	(DPDT) Second set of standard alarm contacts (DPDT)		
A16	Lockout/interlock circuit from equipment installed inside the pump room	C25	(Typical for city of Los Angeles and Denver)		
	Built in alarm panel (120V.AC supervisory power) providing indication for:	Cx	Additional visual and alarm contact (Specify function) (DPDT)		
B11	 Audible alarm & silence pushbutton for motor run, phase reversal, loss of phase. Pilot lights for loss of phase & supervisory 	D1	Low suction pressure transducer for fresh water rated at 0-300PSI with visual indication and alarm contact		
B11B	power available Built in alarm panel same as B11 but 220- 240VAC supervisory power	D1A	Low suction pressure transducer for sea water rated at 0-300PSI with visual indication and alarm contact		
B19A	High motor temperature c/w thermoster relay and alarm contacts (DPDT)	D5	Pressure transducer and run test solenoid valve for fresh water rated for 0-500PSI (for factory calibration purposes only)		
B19B	High motor temperature c/w PT100 relay and alarm contacts (DPDT)	D5D	Pressure transducer and run test solenoid valve for sea water rated for 0-500PSI		
B21	Ground fault alarm detection c/w visual indication and alarm contact (DPDT)	D10	Omit mounting feet (when applicable)		
C1	Extra motor run alarm contact (DPDT)		High withstand rating for:		
C4	Periodic test alarm contact (DPDT)		 200V to 208V @ 150HP max. = 150kA* 200V to 208V @ 200HP = 100kA* 220V to 240V @ 200HP max. = 150kA* 		
C6	Low discharge pressure alarm contact (DPDT)				
C7	Low pump room temperature alarm contact (DPDT)	D13	 220V to 240V @ 250HP = 100kA* 380V to 415V @ 300HP max. = 150kA* 380V to 415V @ 350HP to 450HP = 100kA* 		
C10	Low water reservoir level alarm contact (DPDT)		• 440V to 480V @ 400HP max. = 150kA* • 440V to 480V @ 450HP to 500HP = 100kA*		
C11	High electric motor temperature alarm contact (DPDT)		• 600V @ 500HP max. = 100kA* High withstand rating for:		
C12	High electric motor vibration c/w visual indication and alarm contact (DPDT)	D13A	• 600V = 25kA*		
C14	Pump on demand / automatic start alarm contact (DPDT)	D400	High withstand rating for: • 200V to 208V @ 150HP max. = 200kA* • 220V to 240V @ 200HP max. = 200kA*		
C15	Pump fail to start alarm contact (DPDT)	D13B	• 220V to 240V @ 200HP max. = 200kA* • 380V to 415V @ 300HP max. = 200kA*		
C16	Control voltage healthy alarm contact (DPDT)		• 440V to 480V @ 400HP max. = 200kA*		
C17	Flow meter valve loop open c/w visual	D14	Anti-condensation heater & thermostat		
017	indication and alarm contact (DPDT)	D14A	Anti-condensation heater & humidistat		
C18	High water reservoir level c/w visual indication and alarm contact (DPDT)	D14B	Anti-condensation heater & thermostat & humidistat		

*For fire pump controller section only.

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

This is a Marketing document. Please consult factory for more information. Manufacturer reserves the right to modify this information without notice



GPx Series Full Service Electric Fire Pump Controller

D15	Tropicalization
D18	CE Mark with factory certificate
D26	Modbus with RTU frame format and RS485 connection
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 - 5 Input / 5 output
D43	Seismic Certification compliant to CBC 2019, IBC 2018 rigid base/wall mounted only
D44	Special Seismic Certification compliant to OSHPD rigid base/wall mounted only

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

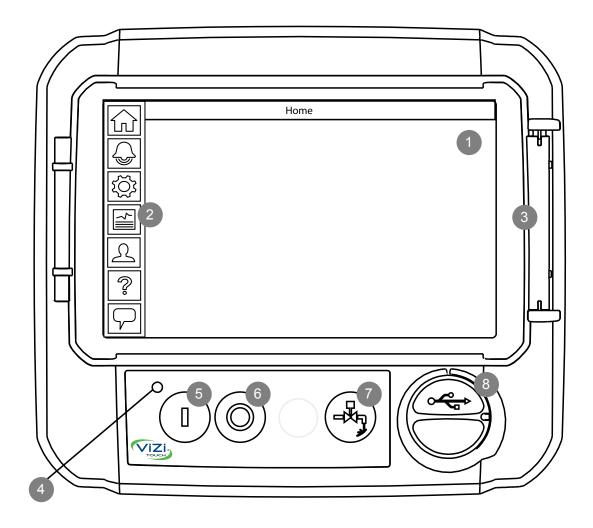
Additional Options:

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



ViZiTouch V2 Operator Interface





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

- 3 Screen protector
- 4 Power LED (3 colors)
- 5 START button
- 6 STOP button
- 7 RUN TEST button
- 8 USB port

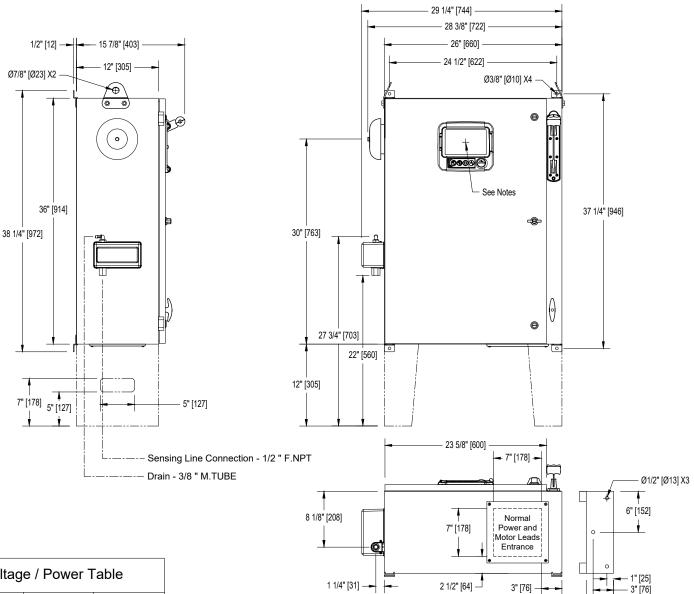
Electric Fire Pump Controller

Model: GPR/GPS/GPW

4" [102]

Dimensions

Built to the latest edition of the NFPA 20 standard



Voltage / Power Table						
Voltage	Min HP	Max HP				
208	5	30				
220 - 240	5	30				
380 - 400 - 415	5	60				
440 - 480	5	60				
600	5	75				

Notes:

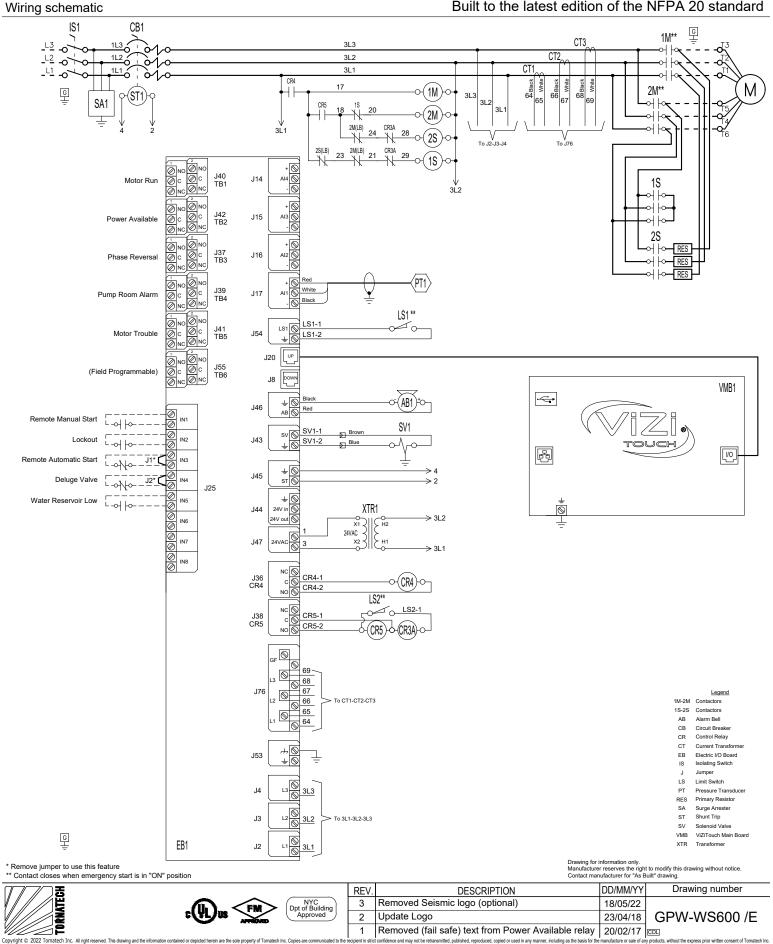
- Standard NEMA: NEMA 2
- Standard paint : textured red RAL 3002.
- All dimensions are in inches [millimeters].
- Center of ViZiTouch screen: 29-5/8" [751] from bottom (no feet).
- Bottom conduit entrance through removable gland plate recommended.
- Use watertight conduit and connector only.
- Protect equipment against drilling chips.
- Door swing equal to door width.

Drawing for information only. Projection Manufacturer reserves the right to modify this drawing without notice. Contact manufacturer for "As Built" drawing. (\oplus DD/MM/YY Drawing number REV DESCRIPTION Removed Seismic logo (optional) NYC Dpt of Building Approved 3. 18/05/22 2. New Logo 10/05/18 GPX-DI171 /E ίĒ Valve Change 21/11/17 CDL 1. Copyright © 2022 Tor ved. This drawing and the info

Electric Fire Pump Controller Reduced Voltage / Wye-Delta (Closed Transition)



Built to the latest edition of the NFPA 20 standard



Electric Fire Pump Controller

Model: GPX

Terminal Diagram and Sizing for Isolating Switch

Built to the latest edition of the NFPA 20 standard

Power Terminals 3 Phases

Bonding Ground	3 Phases Incoming Powe

Notes:

- 1 For proper wire sizing, refer to NFPA70 and NEC (USA) or CEC (Canada) or local code.
- 2 Controller suitable for service entrance in USA.
- 3 For more accurate motor connections refer to motor manufacturer or motor nameplate.
- 4 Controller is phase sensitive. Incoming lines must be connected in ABC sequence.

COPPER CONDUCTORS for Isolating Switch (IS1).

Field Wiring According to Bending Space (AWG or MCM). Terminals L1 - L2 - L3

Bending Space				5 " (1	27 mm)				8 " (203 mm)	
HP Voltage	5	7.5	10	15	20	25	30	40	50	60	
208	1x (10 to 1/0)	1x (8 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (3 to 1/0)	1x (2 to 1/0)	1x (1/0 to 3/0)	1x (3/0 to 250)	1x (4/0 to 250)	
220 to 240	1x (10 to 1/0)	1x (10 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (4 to 1/0)	1x (3 to 1/0)	1x (1 to 3/0)	1x (2/0 to 3/0)	1x (3/0 to 250)	
380 to 416	1x (10 to 1/0)	1x (10 to 1/0)	1x (10 to 1/0)	1x (8 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (3 to 1/0)	1x (3 to 1/0)	
440 to 480	1x (10 to 1/0)	1x (10 to 1/0)	1x (10 to 1/0)	1x (10 to 1/0)	1x (8 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (3 to 1/0)	
600	1x (10 to 1/0)	1x (10 to 1/0)	1x (10 to 1/0)	1x (10 to 1/0)	1x (10 to 1/0)	1x (8 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	
Bending Space	12 " (305 mm)				16 " (406 mm)						
HP Voltage	75	100	125	150	200	250	300	350	400	450	500
208	2x (1/0 to 500)	2x (2/0 to 500)	2x (4/0 to 500)	2x (250 to 500)	3x (4/0 to 500)						
220 to 240	1x (250)	2x (2/0 to 500)	2x (3/0 to 500)	2x (4/0 to 500)	2x (350 to 500)	3x (250 to 500)					
380 to 416	1x (1/0 to 3/0)	1x (3/0 to 250)	1x (250)	2x (1/0 to 500)	2x (3/0 to 500)	2x (4/0 to 500)	2x (300 to 500)	2x (400 to 500)	3x (250 to 500)	3x (300 to 500)	
440 to 480	1x (1 to 3/0)	1x (2/0 to 3/0)	1x (3/0 to 250)	1x (4/0 to 250)	2x (1/0 to 500)	2x (3/0 to 500)	2x (4/0 to 500)	2x (300 to 500)	2x (350 to 500)	2x (400 to 500)	3x (250 to 500)
600	1x (3 to 1/0)	1x (1 to 3/0)	1x (2/0 to 3/0)	1x (3/0 to 250)	1x (250)	2x (2/0 to 500)	2x (3/0 to 500)	2x (4/0 to 500)	2x (250 to 500)	2x (300 to 500)	2x (350 to 500)
Bending Space	5 " (127 mm) 8 " (203 mm)					12 " (3	05 mm)				

ALUMINUM CONDUCTORS for Isolating Switch (IS1). Field Wiring According to Bending Space (AWG or MCM). Terminals L1 - L2 - L3

Bending Space	5 " (127 mm)								203 mm)	10 " (254 mm)	
HP Voltage	5	7.5	10	15	20	25	30	40	50	60	
208	1x (10 to 1/0)	1x (6 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (3 to 1/0)	1x (1 to 1/0)	1x (1/0)	1x (3/0)	1x (4/0 to 250)	1x (300) ** or 1x (250) 90°C *	
220 to 240	1x (10 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (3 to 1/0)	1x (2 to 1/0)	1x (1 to 1/0)	1x (2/0 to 3/0)	1x (3/0) 90°C *	1x (250)	
380 to 416	1x (10 to 1/0)	1x (10 to 1/0)	1x (10 to 1/0)	1x (6 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (4 to 1/0)	1x (2 to 1/0)	1x (1 to 1/0)	1x (1/0)	
440 to 480	1x (10 to 1/0)	1x (10 to 1/0)	1x (10 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (6 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (2 to 1/0)	1x (1 to 1/0)	
600	1x (10 to 1/0)	1x (10 to 1/0)	1x (10 to 1/0)	1x (10 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (4 to 1/0)	1x (2 to 1/0)	
Bending Space	12 " (305 mm)				16 " (406 mm)						
HP Voltage	75	100	125	150	200	250	300	350	400	450	500
208	2x (2/0 to 500)	2x (4/0 to 500)	2x (300 to 500)	2x (350 to 500)	3x (300 to 500)						
220 to 240	1x (350) ** N/A	2x (3/0 to 500)	2x (250 to 500)	2x (300 to 500)	2x (500)	3x (400 to 500)					
380 to 416	1x (3/0)	1x (250 to 350)	1x (350) ** N/A	2x (3/0 to 500)	2x (4/0 to 500)	2x (300 to 500)	2x (500)	3x (300 to 500)** 2x (500) 90°C *	3x (350 to 500)	3x (400 to 500)	
440 to 480	1x (1/0 to 3/0)	1x (3/0)	1x (250)	1x (300 to 350)** 1x (250) 90°C *	2x (3/0 to 500)	2x (250 to 500)	2x (300 to 500)	2x (400 to 500)	2x (500)	2x (500) 90°C *	3x (350 to 500)
600	1x (1 to 1/0)	1x (2/0 to 3/0)	1x (3/0) 90°C *	1x (4/0 to 250)	1x (350 to 500)	2x (3/0 to 500)	2x (4/0 to 250)	2x (300 to 500)	2x (350 to 500)	2x (400 to 500)	2x (500)
Bending Space	5 " (127 mm) 8 " (203 mm)				12 " (305 mm)						

*For standard enclosure, use 90°C aluminium wire. Consult Factory for Use of Conductors Rated Lower than 90°C. ** Consult Factory



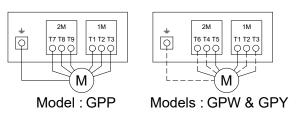


				0				
	REV.	DESCRIPTION	DD/MM/YY	Drawing number				
CULUS Approved	1	Removed Seismic logo (optional)	18/05/22	GPX-TD612 1/2 /E				
-	0	First issue	22/12/20	CDL				
g and the information contained or depicted herein are the sole property of Tornatech inc. Copies are communicated to the recipient in strict confidence and may not be retransmitted, published, reproduced, copied or used in any manner, including as the basis for the manufacture or sale of any products, without the express prior written consent of Tornatech Inc.								

Terminal Diagram and Sizing For GPP, GPY & GPW

Built to the latest edition of the NFPA 20 standard

Motor Terminals



Notes:

- 1 For proper wire sizing, refer to NFPA70 and NEC (USA) or CEC (Canada) or local code.
- 2 Controller suitable for service entrance in USA.
- 3 For more accurate motor connections refer to motor manufacturer or motor nameplate.
- 4 Controller is phase sensitive. Incoming lines must be connected in ABC sequence.

COPPER CONDUCTORS for Motor Connection (1M-2M). Field Wiring According to Bending Space (AWG or MCM). Terminals T1-T2-T3-T4-T5-T6-T7-T8-T9

HP Voltage	5	7.5	10	15	20	25	30	40	50	60	
208	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	1x (8 to 4)	1x (8 to 4)	1x (6 to 4)	1x (6 to 4)	1x (4 to 2/0)	1x (2 to 2/0)	1x (1 to 2/0)	
220 to 240	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	1x (8 to 4)	1x (8 to 4)	1x (6 to 4)	1x (6 to 4)	1x (4)	1x (3 to 2/0)	1x (2 to 2/0)	
380 to 416	1x (10 to 4)	1x (8 to 4)	1x (8 to 4)	1x (6 to 4)	1x (4)						
440 to 480	1x (10 to 4)	1x (8 to 4)	1x (8 to 4)	1x (6 to 4)							
600	1x (10 to 4)	1x (8 to 4)	1x (8 to 4)								
HP Voltage	75	100	125	150	200	250	300	350	400	450	500
208	1x (2/0 to 3/0)	1x (3/0 to 300)	1x (250 to 300)	2x (1/0 to 300)	2x (3/0 to 350)						
220 to 240	1x (1/0 to 2/0)	1x (3/0)	1x (4/0 to 300)	1x (300)	2x (2/0 to 300)	2x (4/0 to 350)					
380 to 416	1x (4 to 2/0)	1x (2 to 2/0)	1x (1/0 to 2/0)	1x (2/0 to 3/0)	1x (4/0 to 300)	1x (300)	2x (2/0 to 300)	2x (3/0 to 300)	2x (4/0 to 350)	2x (4/0 to 350)	
440 to 480	1x (4 to 2/0)	1x (3 to 2/0)	1x (2 to 2/0)	1x (1/0 to 3/0)	1x (2/0 to 3/0)	1x (4/0 to 300)	1x (300)	2x (1/0 to 300)	2x (2/0 to 300)	2x (3/0 to 350)	2x (4/0 to 350)
600	1x (6 to 4)	1x (4)	1x (3 to 2/0)	1x (2 to 2/0)	1x (1/0 to 3/0)	1x (2/0 to 3/0)	1x (4/0 to 300)	1x (250 to 300)	1x (300)	2x (1/0 to 300)	2x (2/0 to 300)

ALUMINUM CONDUCTORS for Contactor (1M-2M).

Field Wiring According to Bending Space (AWG or MCM). Terminals T1-T2-T3-T4-T5-T6-T7-T8-T9

HP Voltage	5	7.5	10	15	20	25	30	40	50	60	
208	1x (12 to 2/0) **	1x (10 to 2/0) **	1x (10 to 2/0) **	1x (8 to 2/0) **	1x (6 to 2/0) **	1x (4 to 2/0) **	1x (4 to 2/0) **	1x (2 to 2/0)	1x (1/0 to 2/0)	1x (2/0)	
220 to 240	1x (12 to 2/0) **	1x (10 to 2/0) **	1x (10 to 2/0) **	1x (8 to 2/0) **	1x (8 to 2/0) **	1x (6 to 2/0) **	1x (4 to 2/0) **	1x (2 to 2/0) **	1x (1 to 2/0)	1x (1/0 to 2/0)	
380 to 416	1x (12 to 2/0) **	1x (12 to 2/0) **	1x (12 to 2/0) **	1x (10 to 2/0) **	1x (10 to 2/0) **	1x (8 to 2/0) **	1x (8 to 2/0) **	1x (6 to 2/0) **	1x (4 to 2/0) **	1x (3 to 2/0) **	
440 to 480	1x (12 to 2/0) **	1x (10 to 2/0) **	1x (10 to 2/0) **	1x (8 to 2/0) **	1x (8 to 2/0) **	1x (6 to 2/0) **	1x (4 to 2/0) **				
600	1x (12 to 2/0) **	1x (10 to 2/0) **	1x (10 to 2/0) **	1x (10 to 2/0) **	1x (8 to 2/0) **	1x (8 to 2/0) **	1x (6 to 2/0) **				
HP Voltage	75	100	125	150	200	250	300	350	400	450	500
208	1x (3/0)	Consult Factory	1x (300) 90°C *	2x (3/0 to 300)	2x (250 to 350)						
220 to 240	1x (2/0) 90°C *	Consult Factory	1x (300)	1x (300) 90°C *	2x (4/0 to 300)	2x (300 to 350)					
380 to 416	1x (2 to 2/0)	1x (1/0 to 2/0)	1x (1/0 to 2/0)	1x (3/0) 90°C *	1x (300)	1x (300) 90°C *	2x (4/0 to 300)	2x (250 to 300)	2x (300 to 350)	2x (300 to 350)	
440 to 480	1x (3 to 2/0) **	1x (2 to 2/0)	1x (2/0) 90°C *	1x (2/0 to 3/0)	1x (3/0) 90°C *	1x (300)	1x (300) 90°C *	2x (3/0 to 300)	2x (4/0 to 300)	2x (250 to 350)	2x (300 to 350)
600	1x (4 to 2/0) **	1x (3 to 2/0) **	1x (2 to 2/0)	1x (1/0 to 3/0)	1x (3/0)	1x (3/0) 90°C *	1x (300)	1x (300) 90°C *	Consult Factory	2x (3/0 to 300)	2x (4/0 to 300)

*For standard enclosure, use 90°C aluminium wire. Consult Factory for Use of Conductors Rated Lower than 90°C.

** Option V659 required.



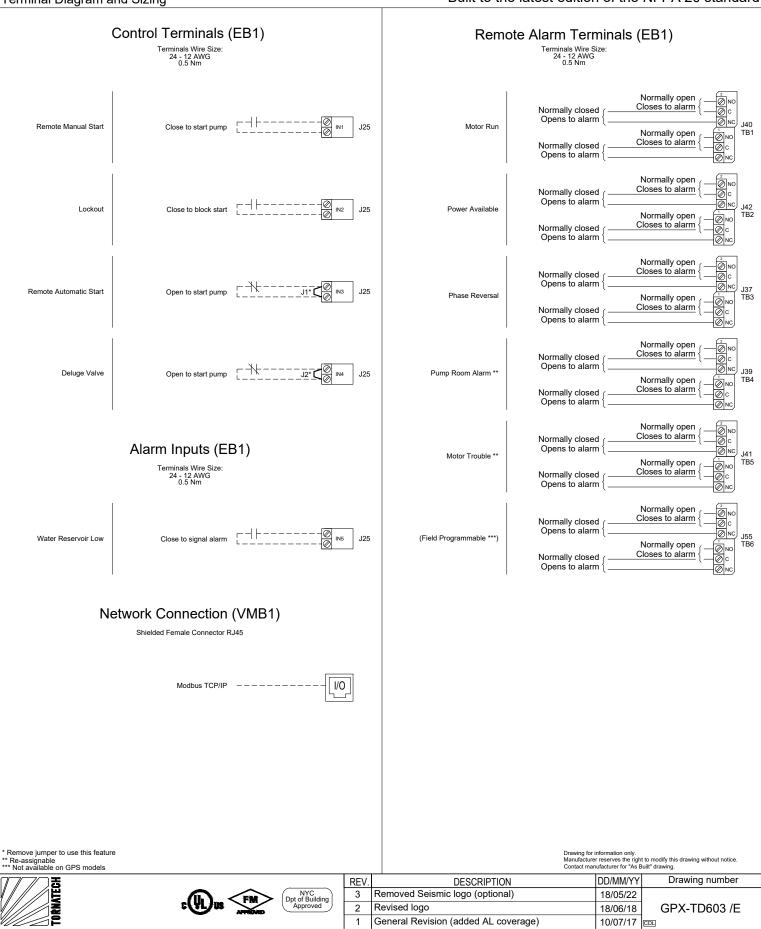
ed.	Drawing for information only. Manufacturer reserves the right to modify this drawing without notice. Contact manufacturer for XB built drawing.									
	REV.	DESCRIPTION	DD/MM/YY	Drawing number						
CUDUS AND DE APProved	1	Removed Seismic logo (optional)	18/05/22	GPX-TD612 2/2 /E						
	-	First issue	22/12/20							

Electric Fire Pump Controller

Model: GPX

Terminal Diagram and Sizing

Built to the latest edition of the NFPA 20 standard



Copyright © 2022 Tornatech Inc. All right reserved. This drawing and the information contained or depicted herein are the sole property of Tornatech Inc. Copies are communicated to the recipient in strict confidence and may not be retrained.

sale of any products, without the express prior written consent of Tornatech Inc