

Project:	
Customer:	
Engineer:	
Pump Manufacturer:	

Technical Data Submittal Document

GPx Series

Full Service Electric Fire Pump Controller



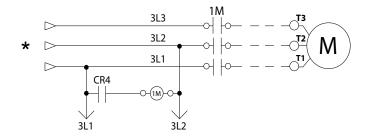
Contents: Data Sheets Dimensional Data Wiring Schematics Field Connections



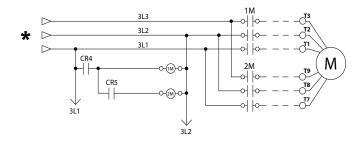


Select starting method

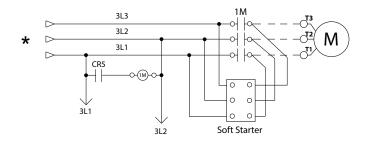
Model GPA Across the line



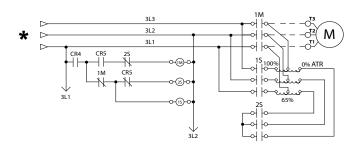
Model GPP Partwinding



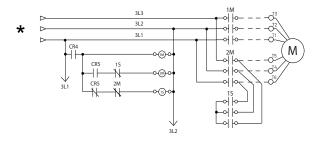
Model GPS Soft Start Soft Stop



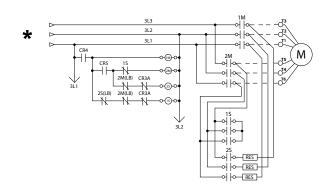
Model GPR Autotransformer



Model GPY Wye-Delta Open



Model GPW Wye-Delta Closed



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





	Built to NFPA 20 (latest edition)				
_	Underwriters Laboratory (UL)	UL218 - Fire Pump Controllers			
Standard, Listings,	FM Global	Clas	Class 1321/1323		
Approvals and	New York City	Acc	epted for use in the City of New York b	y the Department of Buildings	
Certifications	CE Mark	Vari	ous EN, IEC & CEE directives and sta	ndards	
	Built in Canada or U.A.E	<u> </u>	Built in E	urope	
	CE Mark Option		Supplied as S	Standard	
	Protection Rating				
	Built in Canada or U.A.E		Built in Europe		
	Standard: NEMA 2	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	
	NEMA 4	NEMA 4X-316 sst brushed finish		IP66	
	Accessories • Bottom entry gland plate • Lifting Lugs • Keylock handle	:	aint Specifications Red RAL3002 Powder coating Glossy textured finish		
	- Reylock Harlule		Glossy textured liftish		

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 150 (2.7, 110)	F 200 /2 7 140\	E 200 (2.7, 222)	E 400 (2.7, 200)	N/A			
Optional 150kA	5 - 150 (3.7 - 110)	5 - 200 (3.7 - 149) 5 -	5 - 300 (3.7 - 223)	5 - 400 (3.7 - 298)	IN/A			
Standard 50kA	200 (149)	250 (186)	350 - 450 (261 - 335)	450 - 500 (335 - 373)	5 - 500 (3.7- 373)			
Optional 100kA	N/A	N/A	350 - 500 (261 - 373)	450 - 500 (335 - 373)	3 - 300 (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



Ambient Temperature Rating	Standard: 4°C to 40°C / 39°F to 104°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 current Overcurrent sensing non-thermal type, magnetic only Instantaneous trip setting of not more than 20 times the motor full load current Common flange mounted operating handle		
Service Entrance Rating	Suitable as service entrance equipment		
Emergency Start Handle	• 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 		



Audible Alarm	6" alarm bell - 85 dB at 10ft.	(3m)	
Visual Indications	Motor run Periodic test	Deluge valve startRemote automatic startRemote manual startEmergency 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 povisual and audible	 Overvoltage Phase loss L1 Phase loss L2 Phase loss L3 Phase unbalanced Pressure transducer fault determinent 	Pump on demand Pump room alarm Service required Undercurrent Undervoltage Check weekly test solenoid tected 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 trouble • Overcurrent • Fail to start • Undercurrent • Ground fault	emperature e (field re-assignable)**	

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



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 • Rem		Start on pressure drop Remote start signal from Deluge valve start	Remote start signal from automatic device	
	Manual Start	Start pushbuttonRun test pushbuttonRemote 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) Periodic test timer	
	Actuation	Visual Indication	Pressure Non-pressure	
	Mode	visual illuicatiofi	Automatic Non-automatic	

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



A4	Flow switch provision	
A8	Foam pump application w/o pressure transducer and run test solenoid valve.	
A9	Low zone pump control function	
A10	Middle zone pump control function	
A11	High zone pump control function	
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	
B11	Built in alarm panel (120V.AC 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	
B11B	Built in alarm panel same as B11 but 220- 240VAC supervisory power	
B19A	High motor temperature c/w thermoster relay and alarm contacts (DPDT)	
B19B	High motor temperature c/w PT100 relay and alarm contacts (DPDT)	
B21	Ground fault alarm detection c/w visual indication and alarm contact (DPDT)	
C1	Extra motor run alarm contact (DPDT)	
C4	Periodic test alarm contact (DPDT)	
C6	Low discharge pressure alarm contact (DPDT)	
C7	Low pump room temperature alarm contact (DPDT)	
C10	Low water reservoir level alarm contact (DPDT)	
C11	High electric motor temperature alarm contact (DPDT)	
C12	High electric motor vibration c/w visual indication and alarm contact (DPDT)	
C14	Pump on demand / automatic start alarm contact (DPDT)	
C15	Pump fail to start alarm contact (DPDT)	
C16	Control voltage healthy alarm contact (DPDT)	
C17	Flow meter valve loop open c/w visual indication and alarm contact (DPDT)	
C18	High water reservoir level c/w visual indication and alarm contact (DPDT)	

C19	Emergency start alarm contact (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)	
C25	Second set of standard alarm contacts (DPDT) (Typical for city of Los Angeles and Denver)	
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	
D5	Pressure transducer and run test solenoid valve for fresh water rated for 0-500PSI (for factory calibration purposes only)	
D5D	Pressure transducer and run test solenoid valve for sea water rated for 0-500PSI	
D10	Omit mounting feet (when applicable)	
D13	High withstand rating for: • 200V to 208V @ 150HP max. = 150kA* • 200V to 208V @ 200HP = 100kA* • 220V to 240V @ 200HP max. = 150kA* • 220V to 240V @ 250HP = 100kA* • 380V to 415V @ 300HP max. = 150kA* • 380V to 415V @ 350HP to 450HP = 100kA* • 440V to 480V @ 400HP max. = 150kA* • 440V to 480V @ 450HP to 500HP = 100kA* • 600V @ 500HP max. = 100kA*	
D13A	High withstand rating for: • 380V to 480V = 65kA* • 600V = 25kA*	
D13B	High withstand rating for: • 200V to 208V @ 150HP max. = 200kA* • 220V to 240V @ 200HP max. = 200kA* • 380V to 415V @ 300HP max. = 200kA* • 440V to 480V @ 400HP max. = 200kA*	
D14	Anti-condensation heater & thermostat	
D14A	Anti-condensation heater & humidistat	
D14B	Anti-condensation heater & thermostat & humidistat	

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

^{*}For fire pump controller section only.



	T T	
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	

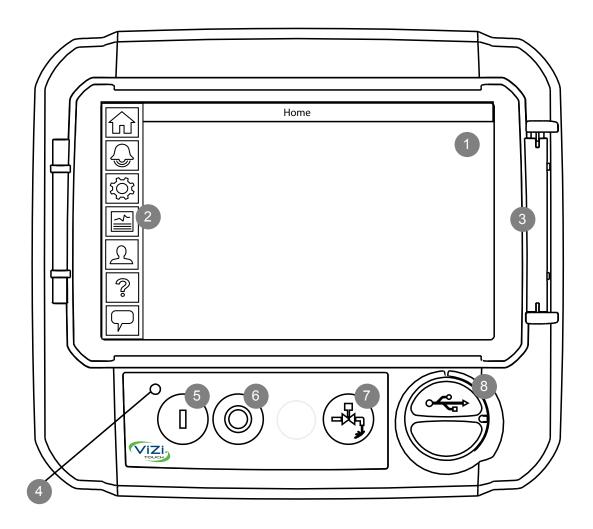
Addit	ional Options:			
_				
_				
_				
_				

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



ViZiTouch V2 Operator Interface



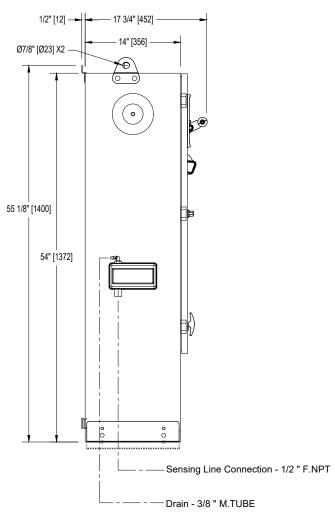


- 1 Color touch screen
- 2 Onscreen menu
 - HOME page
 - ALARM page
 - CONFIGURATION page
 - HISTORY page
 - SERVICE page
 - MANUAL page
 - LANGUAGES page

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

Dimensions

Built to the latest edition of the NFPA 20 standard



	Sensing Line Co Drain - 3/8 " M.T
e / Power 1	able
Min HP	Max HP
40	60
40	75
75	125
75	150
100	200
	e / Power 1 Min HP 40 40 75 75

33 1/4" [846] 32 3/8" [823] 30" [762] 28 1/2" [724] Ø3/8" [Ø10] X4 See Notes 48" [1220] 51 7/8" [1318] 27" [685] 21 1/4" [541] - 27 5/8" [702] 1" [25] Adjustable Feet 32" [813] Ø1/2" [Ø13] X4 1" [25] 9 1/8" [233] Normal Power and 12" [305] Motor Leads Entrance 1 1/4" [31] 3 1/2" [89] —

Notes:

- Standard NEMA: NEMA 2
- Standard paint : textured red RAL 3002.
- All dimensions are in inches [millimeters].
- Center of ViZiTouch screen: 47-5/8" [1208] 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.







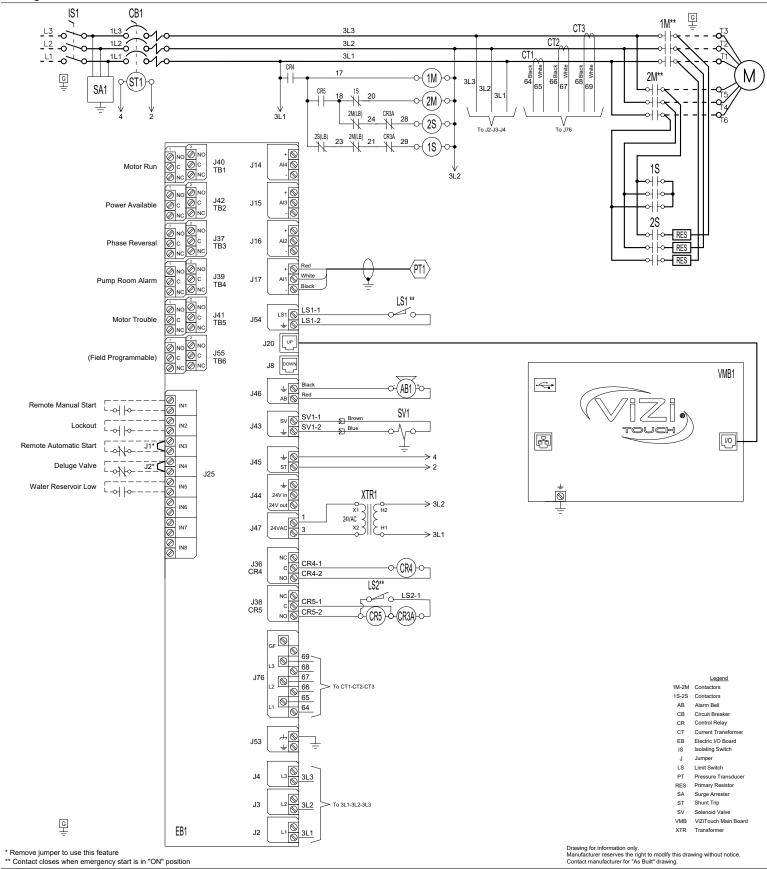
REV.	DESCRIPTION	DD/MM/YY	Drawing number
4.	Removed Seismic logo (optional)	18/05/22	
3.	HP Table Modified	22/12/20	GPX-DI271 /
2.	New Logo	10/05/18	[CDL]

Projection

Model: GPW

Wiring schematic

Built to the latest edition of the NFPA 20 standard







NYC Dpt of Building Approved
 REV.
 DESCRIPTION
 DD/MM/YY

 3
 Removed Seismic logo (optional)
 18/05/22

 2
 Update Logo
 23/04/18

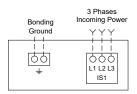
 1
 Removed (fail safe) text from Power Available relay
 20/02/17

Model: GPX

Terminal Diagram and Sizing for Isolating Switch

Built to the latest edition of the NFPA 20 standard

Power 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 Isolating Switch (IS1).

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

Bending Space			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 " (305 mm)							

ALUMINUM CONDUCTORS for Isolating Switch (IS1).

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

Bending Space			8 " (2	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				12 " (305 mm)								

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

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	Removed Seismic logo (optional)	18/05/22	GPX-TD612 1/2 /E
0	First issue	22/12/20	CDL

^{**} Consult Factory

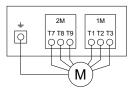
Electric Fire Pump Controller

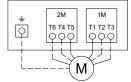
Built to the latest edition of the NFPA 20 standard

Model: GPX

Terminal Diagram and Sizing For GPP, GPY & GPW

Motor Terminals





Model: GPP

Models: GPW & GPY

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

		0	.9 -1 (-		,					
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)							
НР										

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

	5	5	J 1 (,					
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.

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	Removed Seismic logo (optional)	18/05/22	GPX-TD612 2/2 /E
0	First issue	22/12/20	CDL

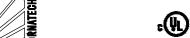
^{**} Option V659 required.

Terminal Diagram and Sizing

Built to the latest edition of the NFPA 20 standard

Control Terminals (EB1) Remote Alarm Terminals (EB1) Terminals Wire Size: 24 - 12 AWG 0.5 Nm Terminals Wire Size: 24 - 12 AWG 0.5 Nm Normally open Normally closed Opens to alarm Closes to alarm Motor Run Remote Manual Start Normally open Closes to alarm Normally closed Opens to alarm Normally open Normally closed Closes to alarm Opens to alarm Lockout Power Available Normally open Closes to alarm Normally closed Opens to alarm Normally open Normally closed Closes to alarm Opens to alarm Ø NC Remote Automatic Start Phase Reversal Normally open Closes to alarm Normally closed Opens to alarm Normally open Closes to alarm Normally closed Opens to alarm ' J39 TB4 Deluge Valve Pump Room Alarm 3 Normally open Closes to alarm Normally closed Opens to alarm Normally open Normally closed Closes to alarm Alarm Inputs (EB1) Opens to alarm Motor Trouble ** Normally open TB5 Terminals Wire Size: 24 - 12 AWG 0.5 Nm Closes to alarm Normally closed Opens to alarm Normally open Closes to alarm Normally closed Opens to alarm (Field Programmable ***) Water Reservoir Low Close to signal alarm Normally open Closes to alarm Normally closed Opens to alarm Network Connection (VMB1) Shielded Female Connector RJ45

^{**} Re-assignable
*** Not available on GPS models







REV.	DESCRIPTION	DD/MM/YY	Drawing number
3	Removed Seismic logo (optional)	18/05/22	
2	Revised logo	18/06/18	GPX-TD603 /E
1	General Revision (added AL coverage)	10/07/17	CDL

Drawing for information only.

Manufacturer reserves the right to modify this drawing without notice.

Contact manufacturer for "As Built" drawing.

Remove jumper to use this feature