

Project:	
Customer:	
Engineer:	
Pump Manufacturer: _	

Technical Data Submittal Document

GPx Foam Series

Full Service Electric Additive (Foam) 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.



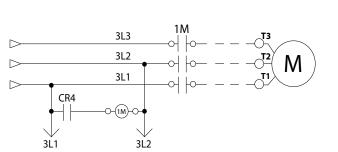


GPx Foam Series Electric Additive (Foam) Pump Controller

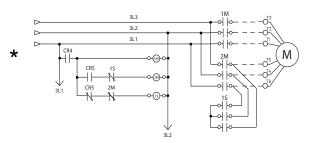
Select starting method

Model GPA Across the line

*



Model GPY Wye-Delta Open



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





	Built to NFPA 20						
Standard,	Underwriters Laboratory (UL)	UL2	218 - Fire Pump Controllers				
Listings,	FM Global	Clas	ss 1321/1323				
Approvals and Certifications	CE Mark	Vari	ous EN, IEC & CEE directives and sta	ndards			
Certifications	Built in Canada or U.A.E	-	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	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			
	Bottom entry gland plate Lifting Lugs		Paint Specifications Red RAL3002 Powder coating Glossy textured finish 				

Additive (Foam) Pump Controllers	 Choose one of the following configurations: A8 - Additive (Foam) pump controller / non pressure actuated without pressure transducer and run test solenoid valve A8A - Additive (Foam) pump controller with pressure transducer and run test solenoid valve A8B - Additive (Foam) pump controller with pressure transducer and run test solenoid valve A8B - Additive (Foam) pump controller with pressure transducer and run test solenoid valve in stainless steel Add any of the following options if required: D40 - Dump valve circuitry, 24VDC Max2A Cx79 - Low foam additive level complete with visual indication and alarm contact (DPDT) Cx081 - Provision for proof pressure switch for low additive pressure complete with visual
	Cx79 - Low foam additive level complete with visual indication and alarm contact (DPDT) Cx081 - Provision for proof pressure switch for low additive pressure complete with visual indication and alarm contact. (Proof pressure switch provided by others.)



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)	5 200 (2 7 140)	5 - 300 (3.7 - 223)	5 - 400 (3.7 - 298)	N/A				
Optional 150kA	5 - 150 (3.7 - 110)	5 - 200 (3.7 - 149)	5 - 300 (3.7 - 223)	5 - 400 (3.7 - 296)					
Standard 50kA	200 (149)	250 (186)	350 - 450 (261-335)	450 - 500 (335 - 373)	E EOO (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				

Ambient Temperature Rating	Standard:Optional:4°C to 40°C / 39°F to 104°F4°C to 55°C / 39°F to 131°FControllers 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	 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 							



Audible Alarm	Alarm buzzer - 85dB at 3 me	ters	
Visual Indications	Motor runPeriodic test	Remote automatic 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.



ViZiTouch V2.1 Operator Interface							
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 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		Automatic Non-automatic				

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



A4	Flow switch provision	C19	Emergency start alarm contact (DPDT)			
A9	Low zone pump control function	C20	Manual start alarm contact (DPDT)			
A10	Middle zone pump control function	C21	Deluge valve start alarm contact (DPDT)			
A11	High zone pump control function	C22	Remote automatic start alarm contact (DPDT)			
A13	Non-pressure actuated controller w/o pressure transducer and run test solenoid valve	C23	Remote manual start alarm contact (DPDT)			
A16	Lockout/interlock circuit from equipment installed inside the pump room	C24	High pump room temperature alarm contact (DPDT)			
	Built in alarm panel (120V.AC supervisory	C25	Second set of standard alarm contacts (DPDT) (Typical for city of Los Angeles and Denver)			
B11	power) providing indication for: • Audible alarm & silence pushbutton for motor run, phase reversal, loss of phase.	Cx	Additional visual and alarm contact (Specify function) (DPDT)			
	• Pilot lights for loss of phase & supervisory power available	D1	Low suction pressure transducer for fresh water rated at 0-300PSI with visual indication and alarm contact			
B11B	Built in alarm panel same as B11 but 220- 240VAC supervisory power		Low suction pressure transducer for sea water			
B19A	High motor temperature c/w thermoster relay and alarm contacts (DPDT)	D1A	rated at 0-300PSI with visual indication and alarm contact			
B19B	High motor temperature c/w PT100 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)			
B21	Ground fault alarm detection c/w visual indication and alarm contact (DPDT)	D5D	Pressure transducer and run test solenoid valve for sea water rated for 0-500PSI			
C1	Extra motor run alarm contact (DPDT)	D10	Omit mounting feet (when applicable)			
C4	Periodic test alarm contact (DPDT)		High withstand rating for: • 200V to 208V @ 150HP max. = 150kA*			
C6	Low discharge pressure alarm contact (DPDT)					
C7	Low pump room temperature alarm contact (DPDT)		 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* 			
C10	Low water reservoir level alarm contact (DPDT)	D13				
C11	High electric motor temperature alarm contact (DPDT)		• 440V to 480V @ 400HP max. = 150kA* • 440V to 480V @ 450HP to 500HP = 100kA*			
C12	High electric motor vibration c/w visual indication and alarm contact (DPDT)	D 404	600V @ 500HP max. = 100kA* High withstand rating for:			
C14	Pump on demand / automatic start alarm contact (DPDT)	D13A	• 600V = 25kA*			
C15	Pump fail to start alarm contact (DPDT)		High withstand rating for: • 200V to 208V @ 150HP max. = 200kA*			
C16	Control voltage healthy alarm contact (DPDT)	D13B	• 220V to 240V @ 200HP max. = 200kA*			
C17	Flow meter valve loop open c/w visual indication and alarm contact (DPDT)		 380V to 415V @ 300HP max. = 200kA* 440V to 480V @ 400HP max. = 200kA* 			
C18	High water reservoir level c/w visual indication	D14	Anti-condensation heater & thermostat			
010	and alarm contact (DPDT)	D14A	Anti-condensation heater & humidistat			
		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.



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:

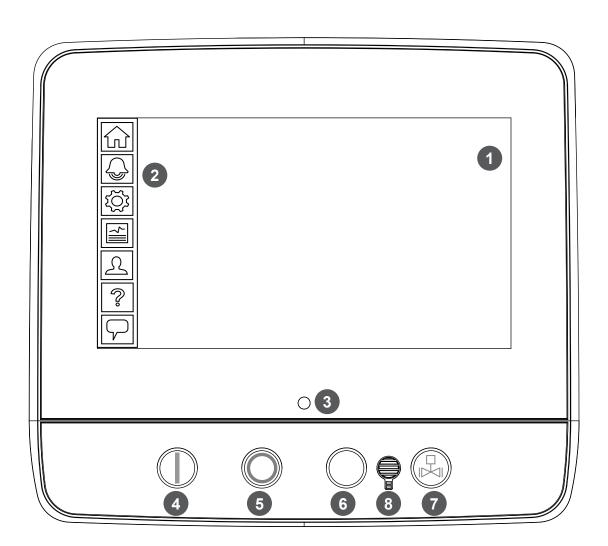
Note: Options chosen from this page are not electrically represented on the wiring schematics in this submittal package.

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



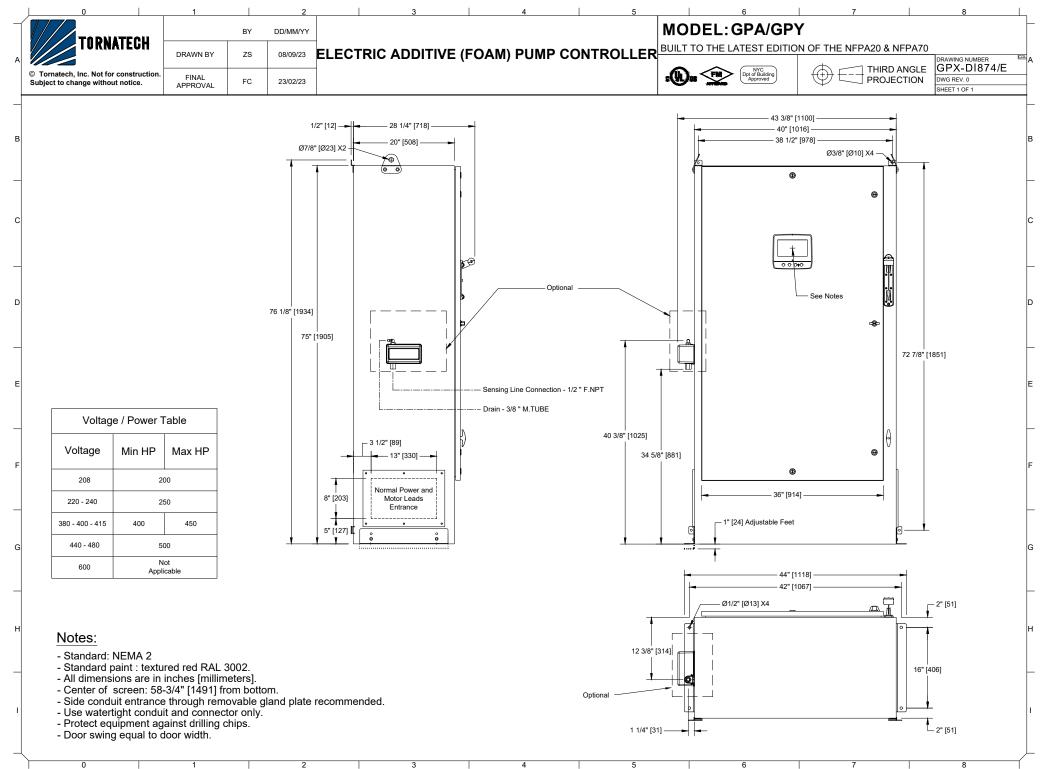
ViZiTouch V2.1 Operator Interface

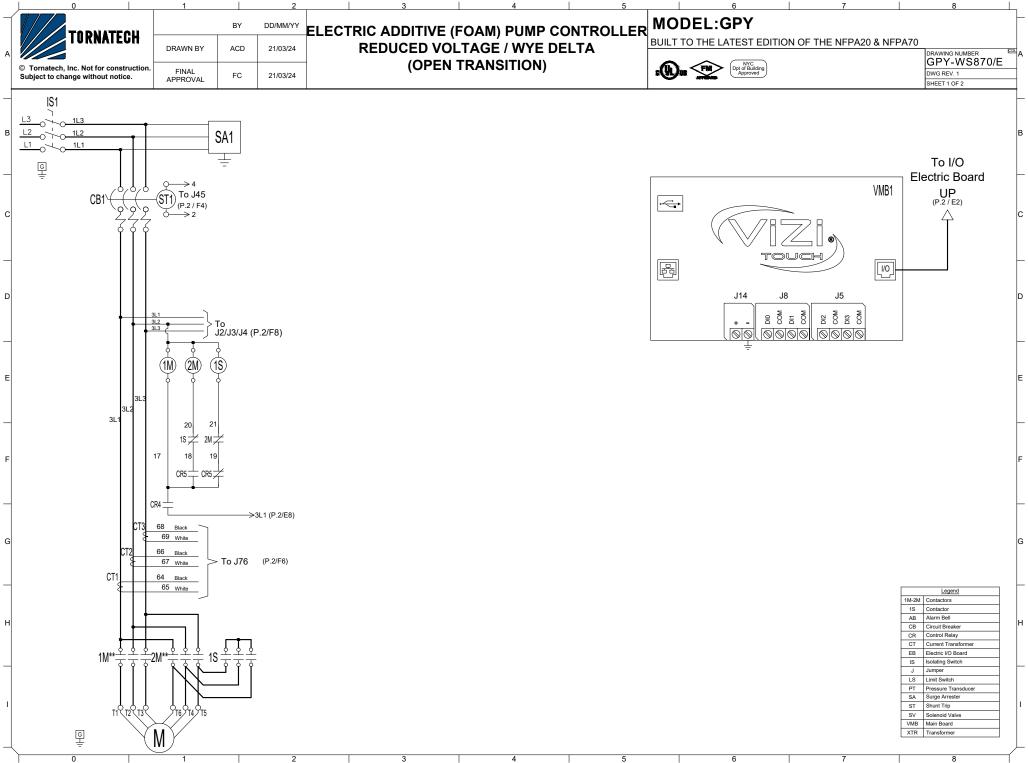


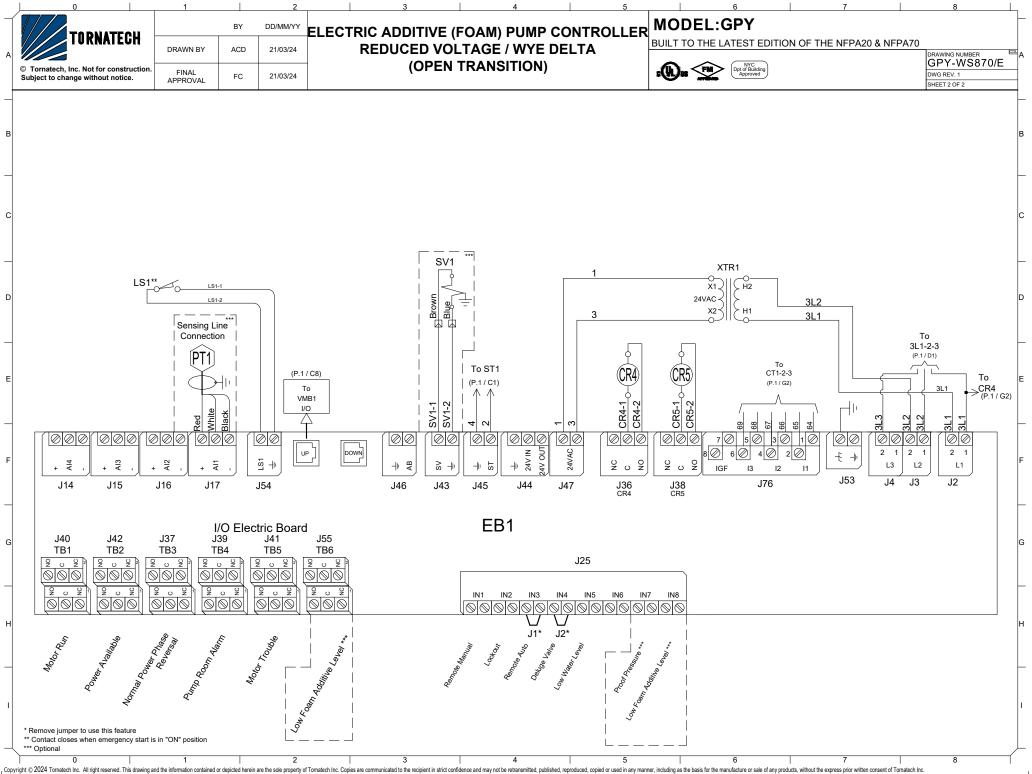


- 1 Color touch screen
- 2 Onscreen menu
 - HOME page
 - ALARM page
 - CONFIGURATION page
 - HISTORY page
 - SERVICE page
 - MANUAL page
 - LANGUAGES page

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







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ĺ	TODNATEON		BY	DD/MM/YY						DEL:GPA/GP			
	TORNATECH	DRAWN BY	ZS	08/09/23	ELECI	TRIC ADDITIVE (F	ГОАМ) РИМР СС	NTROLLER	-	<u> </u>	N OF THE NFPA20 & NFPA7(0 DRAWING NUMBER GPX-TD870/E	CDL A
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COPPER CONDUCTORS for Isolating Switch (IS1).

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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 (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 (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 " (1	27 mm)			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)			
opuoc			(,				10	(400 mm)			
HP	75	100	125	150	200	250	300	350	400	450	500
HP	75 2x (2/0 to 500)	1		150 2x (350 to 500)	200 3x (300 to 500)	250			400	450	500
HP Voltage	-	100	125			250 3x (400 to 500)			400	450	500
HP Voltage 208	2x (2/0 to 500) 1x (350) **	100 2x (4/0 to 500)	125 2x (300 to 500) 2x (250 to 500) 1x (350) **	2x (350 to 500)	3x (300 to 500)		300	350			
HP Voltage 208 220 to 240	2x (2/0 to 500) 1x (350) ** N/A	100 2x (4/0 to 500) 2x (3/0 to 500)	125 2x (300 to 500) 2x (250 to 500) 1x (350) ** N/A	2x (350 to 500) 2x (300 to 500)	3x (300 to 500) 2x (500)	 3x (400 to 500)	300 	350 3x (300 to 500)**			
HP Voltage 208 220 to 240 380 to 416	2x (2/0 to 500) 1x (350) ** N/A 1x (3/0)	100 2x (4/0 to 500) 2x (3/0 to 500) 1x (250 to 350)	125 2x (300 to 500) 2x (250 to 500) 1x (350) ** N/A	2x (350 to 500) 2x (300 to 500) 2x (3/0 to 500) 1x (300 to 350)**	3x (300 to 500) 2x (500) 2x (4/0 to 500)	 3x (400 to 500) 2x (300 to 500)	300 2x (500)	350 3x (300 to 500)** 2x (500) 90°C *	 3x (350 to 500)	 3x (400 to 500)	

Power Terminals

Bonding Ground

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3 Phases Incoming Power

Y Y Y

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ठिठठ L1 L2 L3

IS1

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C

G

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.

Manufacturer reserves the right to modify this drawing without notice. Contact manufacturer for "As Built" drawing.

Notes:

Drawing for information only.

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.

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

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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 (10 to 4)	1x (10 to 4)	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 (4)	
440 to 480	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	1x (8 to 4)	1x (8 to 4)	1x (6 to 4)	
600	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	1x (10 to 4)	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)	
380 to 416 440 to 480	1x (4 to 2/0) 1x (4)	1x (2 to 2/0) 1x (3 to 2/0)	1x (1/0 to 2/0) 1x (2 to 2/0)	1x (2/0 to 3/0) 1x (1/0 to 3/0)	1x (4/0 to 300) 1x (2/0 to 3/0)	1x (300) 1x (4/0 to 300)	2x (2/0 to 300) 1x (300)	2x (3/0 to 300) 2x (1/0 to 300)	2x (4/0 to 350) 2x (2/0 to 300)	2x (4/0 to 350) 2x (3/0 to 350)	 2x (4/0 to 350)

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.

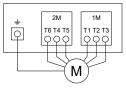
B

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Motor Terminals

C

G



Model: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.

6

Drawing for information only. Manufacturer reserves the right to modify this drawing without notice. Contact manufacturer for "As Built" drawing.

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TORNATECH		BY DD/MM/YY							DDEL:GPA/GPY		
Tornatech, Inc. Not for construction. ubject to change without notice.	DRAWN BY	ZS	08/09/23	ELEC		TIVE (FOA	M) PUMP CONTROLI			GPX-TD8	^R 873/Е
	FINAL APPROVAL	FC	08/09/23					-(H	NYC Drd G Building Approved	DWG REV. 0 SHEET 1 OF 1	
Field (Connecti	ons				Ala	m Contacts				
Term 2	inals Wire Size 4 - 12 AWG 0.5 Nm	:				Те	rminals Wire Size: 24 - 12 AWG 0.5 Nm				
	0.5 Mill		I/O Electric	Board				ectric Board			
Remote Manual							Normally Opened Closes to alarm				
Lockout			 ⊘ ≥		Motor Run	Normally Closed Opens to alarm	{ (@ c		31		
Remote Auto		-•N•	J1*	al Strip		Normally Closed Opens to alarm	Normally Opened Image: Closes to alarm				
Deluge Valve		-01/0	J2*	J25 J25		1	Normally Opened				
Low Water Level				Controller	Power Available	Normally Closed Opens to alarm			22		
Proof Pressure ***		- <u> </u>	- 0 N 7	ŭ		Normally Closed Opens to alarm	Normally Opened Closes to alarm Closes to alarm Close to alarm Close to alarm Close to alarm				
Low Foam Additive Level ***				J		 	Normally Opened Closes to alarm				
Network Connections					Normal Power Phase Reversal	Normally Closed Opens to alarm	{ @ C		33		
Term Shielded Fe	inals Wire Size male Connecto	: or RJ45				Normally Closed Opens to alarm	{ Closes to alarm Closes to al				
		Located	on Main Board				Normally Opened Closes to alarm				
Modbus TCP/IP	RJ45 —		æ		Pump Room Alarm**	Normally Closed Opens to alarm		Т	34		
						Normally Closed Opens to alarm	Normally Opened Image: Closes to alarm				
							Normally Opened Closes to alarm				
					Motor Trouble**	Normally Closed Opens to alarm		Т	35		
						Normally Closed Opens to alarm	Normally Opened Image: Closes to alarm				
						<u>'</u> 	Normally Opened Closes to alarm ∫ ─── ∅ NO	<u>+</u> _ F=			
					Low Foam Additive	Normally Closed Opens to alarm	{				
					Level ***	Normally Closed Opens to alarm	Normally Opened Image: Closes to alarm				
					L	<u> </u>					
Remove jumper to use this feature Re-assignable											
* Optional			2		3			5	1		

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