

Project:	
Customer:	
Engineer:	
Pump Manufacturer:	

Technical Data
Submittal Document

GPx Series

Full Service Electric Fire Pump Controller

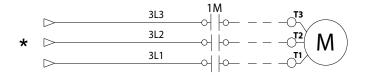
Contents:

Data Sheets
Dimensional Data
Wiring Schematics
Field Connections

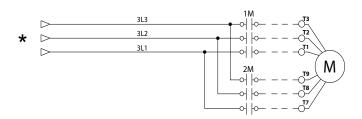


Select starting method

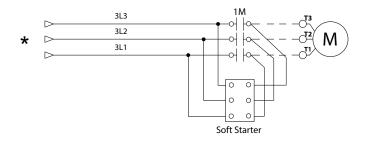
Model GPA Across the line



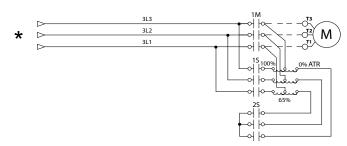
Model GPP Partwinding



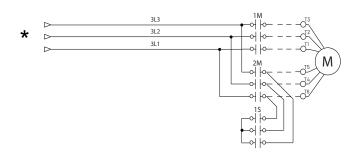
Model GPS Soft Start Soft Stop



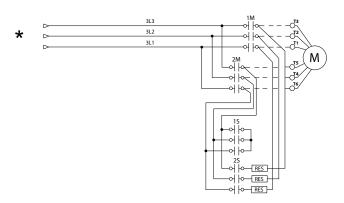
Model GPR Autotransformer



Model GPY Wye-Delta Open



Model GPW Wye-Delta Closed



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



^{*}Please see Disconnecting Means details on page 4



	Built to NFPA 20 (latest edition)					
	Underwriters Laboratory (UL) UL218 - Fire Pump Controllers					
Standard, Listings,	FM Global	Cla	ss 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	ious EN, IEC & CEE directives and sta	ndards		
	Built in Canada or U.A.E		Built in E	Europe		
	CE Mark Option		Supplied as	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		
	Accessories • Bottom entry gland plate • Lifting Lugs • Keylock handle		Paint Specifications Red RAL3002 Powder coating Glossy textured finish			

						She	ort Circuit W	/ithstand Ra	atings						
200V to 208V 50/60Hz/3ph 220V to 240V 50/60Hz/3ph		Hz/3ph	380V to 415V 50/60Hz/3ph		440V to 480V 50/60Hz/3ph		Hz/3ph	575V to 600V 60Hz/3ph							
HP		Inter- mediate	High		Inter- mediate	High		Inter- mediate	High		Inter- mediate	High		Inter- mediate	High
	Standard	Option D13	Option D13B	Standard	Option D13	Option D13B	Standard	Option D13	Option D13B	Standard	Option D13	Option D13B	Standard	Option D13	Option D13B
≤150	100kA	150kA	200kA	4001-4	4501-4	2001-4									
200	50kA	-	100kA	100kA	150kA	200kA	^								
250	-	-	-	50kA	-	100kA	100kA	150kA	200kA	10014	150kA	200kA			
300	-	-	-	-	-	-				100kA	A ISOKA	200KA	50kA	100kA	
350	-	-	-	-	-	-							JUKA	TOURA	-
400	-	-	-	-	-	-	50kA	-	100kA						
450	-	-	-	-	-	-	JUKA	-	TOUKA	50kA	-	100kA			
500	-	-	-	-	-	-	-	-	-	50kA	-	100kA			



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					
Surge	Controllers built in Dubai, UAE (Tornatech FZE) are supplied standard with 55°C rating.					
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 (not applicable for installations in Canada).					
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	eters	
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	 Overvoltage Phase loss L1 Phase loss L2 Phase loss L3 Phase unbalanced Pressure transducer fault det 	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 to • Common motor trouble • Overcurrent • Fail to start • Undercurrent • Ground fault • Free (field programmal	emperature e (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	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 dropRemote start signal from automatic deviceDeluge valve start					
	Manual Start	Start pushbuttonRun test pushbuttonRemote start from manual device					
Operation	Stopping	Manual with Stop pushbu Automatic after expiration					
	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	visuai indication	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
A8 transducer and run test solenoid valve. A9 Low zone pump control function A10 Middle zone pump control function A11 High zone pump control function
A10 Middle zone pump control function A11 High zone pump control function
A11 High zone pump control function
1.1.9.1 = 1.1.9 1.1.
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
Built in alarm panel (120V.AC supervisory power) providing indication for: • Audible alarm & silence pushbutton for motorun, 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)
B25 Digital flow test feature complete with access to Pump Curve menu, display of flow rate on main screen and 25ft cable (Option ONLY suitable for connection with Tornatech digital flow meter)
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)
D14	Anti-condensation heater & thermostat
D14A	Anti-condensation heater & humidistat
D14B	Anti-condensation heater & thermostat & humidistat
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

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

^{*}For fire pump controller section only.



D34A	Field programmable I/O board - 5 Input / 5 output
D36	Redundant pressure transducer for fresh water rated for 0-500PSI
D36A	Redundant pressure transducer for sea water rated for 0-500PSI
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	Slovakian
L10	Croatian
L11	Czech
L12	Portuguese
L13	Dutch
L15	Turkish
L16	Swedish
L21	Danish
L25	Chinese
L28	Finnish
L29	Norwegian

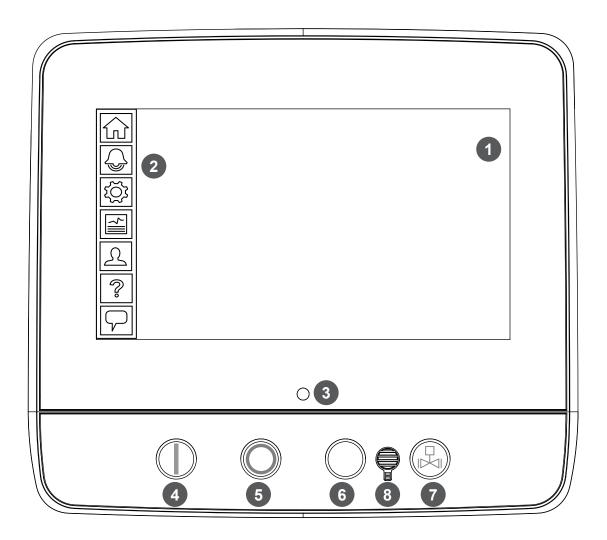
ditional Options:				

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



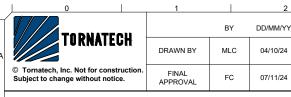
ViZiTouch V2.1 Operator Interface





- 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



MODEL: GPA/GPP/GPY

BUILT TO THE LATEST EDITION OF THE NFPA20 & NFPA70

38 1/2" [978] -

0



40 3/8" [1025]

34 5/8" [881]

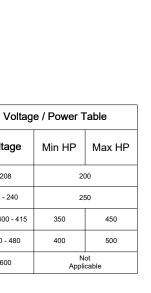


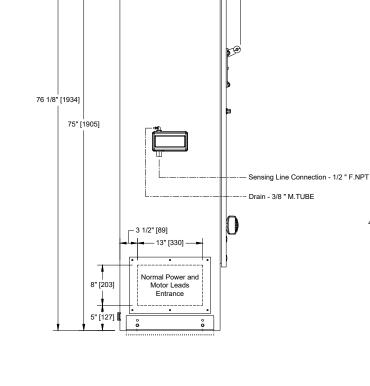
Ø3/8" [Ø10] X4

See Notes

RAWING NUMBER GPX-DI940/E DWG REV. 0 SHEET 1 OF 1

72 7/8" [1851]

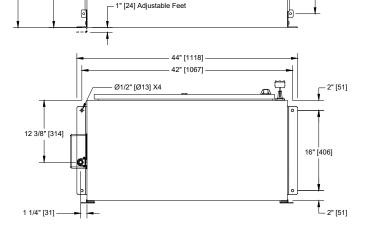




- 28 1/4" [718] -

1/2" [12] ---

Ø7/8" [Ø23] X2



- 36" [914]

Notes:

Voltage

208

220 - 240

380 - 400 - 415

440 - 480

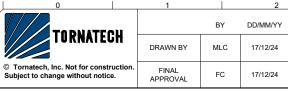
Min HP

400

200

250

- Standard: NEMA 2
- Standard paint : textured red RAL 3002.
- All dimensions are in inches [millimeters].
- Center of screen: 58-3/4" [1491] from bottom.
- Side conduit entrance through removable gland plate recommended.
- Use watertight conduit and connector only.
- Protect equipment against drilling chips.
- Door swing equal to door width.



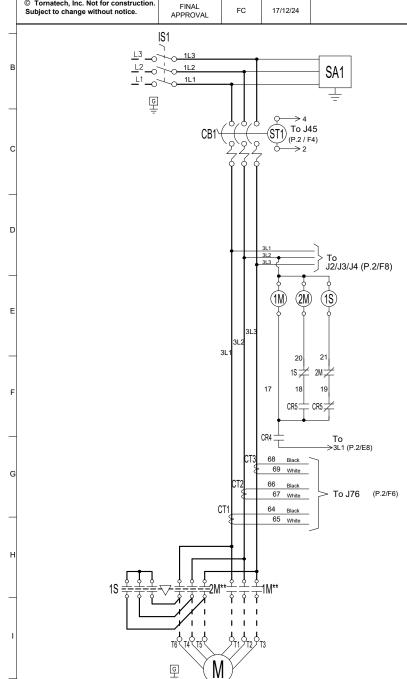
ELECTRIC FIRE PUMP CONTROLLER REDUCED VOLTAGE / WYE DELTA (OPEN TRANSITION)

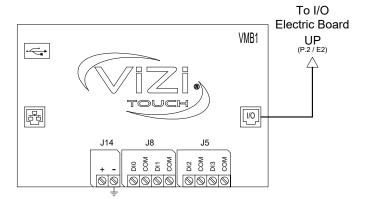


BUILT TO THE LATEST EDITION OF THE NFPA20 & NFPA70



DRAWING NUMBER
GPY-WS800/E
DWG REV. 2
SHEET 1 OF 2





	Legend	
1M-2M	Contactors	
18	Contactor	
AB	Alarm Bell	
CB	Circuit Breaker	
CR	Control Relay	1
CT	Current Transformer	
EB	Electric I/O Board	1
IS	Isolating Switch	
J	Jumper	1
LS	Limit Switch	
PT	Pressure Transducer	
SA	Surge Arrester	
ST	Shunt Trip	
SV	Solenoid Valve	
VMB	Main Board	
XTR	Transformer	1



	BY	DD/MM/YY
DRAWN BY	MLC	17/12/24
FINAL APPROVAL	FC	17/12/24

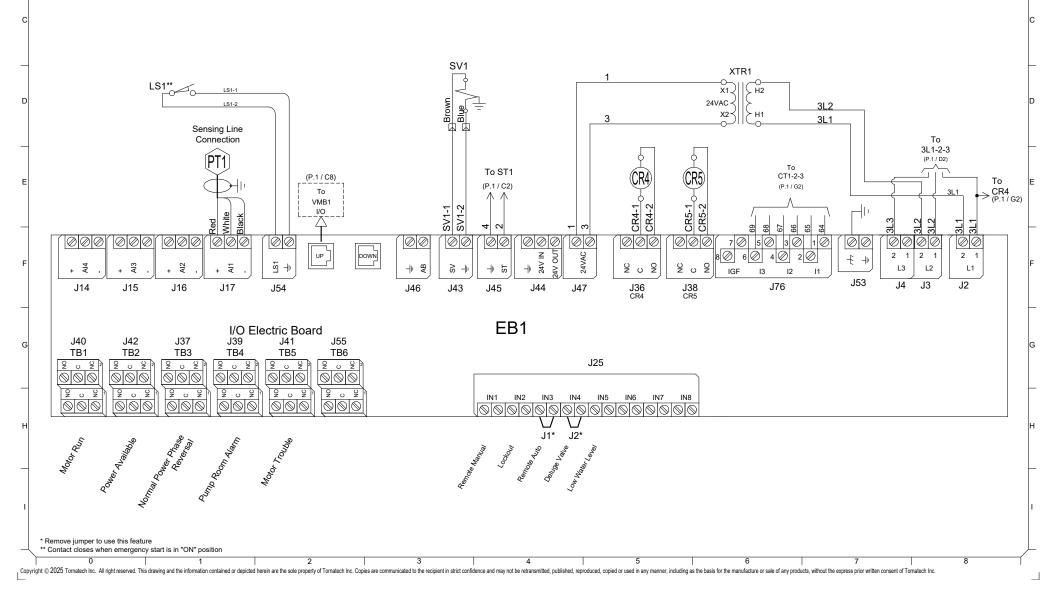
ELECTRIC FIRE PUMP CONTROLLER REDUCED VOLTAGE / WYE DELTA (OPEN TRANSITION)

MODEL:GPY

BUILT TO THE LATEST EDITION OF THE NFPA20 & NFPA70



DRAWING NUMBER
GPY-WS800/E
DWG REV. 2
SHEET 2 OF 2





MODEL:GPX

BUILT TO THE LATEST EDITION OF THE NFPA20 & NFPA70



DRAWING NUMBER
GPX-TD907/E
DWG REV. 0
SHEET 1 OF 1

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 (1 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)				

DD/MM/YY

04/10/24

07/11/24

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 250)	1x (3/0 to 250)	1x (250)	1x (300 to 500)	1x (500)	2x (4/0 to 500)	2x (300 to 500)	3x (4/0 to 500)	3x (250 to 500)	4x (3/0 to 500)		
440 to 480	1x (1 to 250)	1x (2/0 to 250)	1x (3/0 to 250)	1x (4/0 to 250)	1x (350 to 500)	1x (500)	2x (4/0 to 500)	2x (300 to 500)	3x (3/0 to 500)	3x (4/0 to 500)	3x (250 to 500)	
600	1x (3 to 1/0)	1x (1 to 250)	1x (2/0 to 250)	1x (3/0 to 250)	1x (250 to 500)	1x (350 to 500)	1x (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

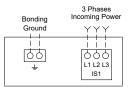
Bending Space						10 " (254 mm)				
HP Voltage	5	7.5	10	15	20	25	30	40	50	60
208	1x (10 to 1/0)	1x (6 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (3 to 1/0)	1x (1 to 1/0)	1x (1/0)	1x (3/0)	1x (4/0 to 250)	1x (300) ** or 1x (250) 90°C *
220 to 240	1x (10 to 1/0)	1x (8 to 1/0)	1x (6 to 1/0)	1x (4 to 1/0)	1x (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 (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 to 250)	1x (250)	Consult Factory	1x (500)	Consult Factory	2x (300 to 500)	2x (500)	3x (300 to 500)	3x (350 to 500)	3x (400 to 500)		
440 to 480	1x (1/0 to 250)	1x (3/0 to 250)	1x (250)	1x (250) 90°C *	1x (500)	Consult Factory	2x (300 to 500)	2x (400 to 500)	3x (250 to 500)	3x (300 to 500)	3x (350 to 500)	
600	1x (1 to 1/0)	1x (2/0 to 250)	1x (4/0 to 250)	1x (4/0 to 250)	1x (350 to 500)	1x (500)	Consult Factory	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)							

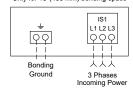
- *For standard enclosure, use 90°C aluminium wire. Consult Factory for Use of Conductors Rated Lower than 90°C.
- ** Consult Factory
- *** Aluminum is not permitted in Canada.

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

Power Terminals



***Only for 16"(406 mm) bending space



Votes

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

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	BY	DD/MM/YY
DRAWN BY	MLC	04/10/24
FINAL APPROVAL	FC	07/11/24

MODEL: GPP/GPY

BUILT TO THE LATEST EDITION OF THE NFPA20 & NFPA70



DRAWING NUMBER
GPX-TD902/E
DWG REV. 0
SHEET 1 OF 1

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

			g opass (,						
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)	1x (2)	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 300)	2x (4/0 to 600)	
440 to 480	1x (4 to 2)	1x (3 to 2)	1x (2 to 2/0)	1x (1/0 to 3/0)	1x (2/0 to 300)	1x (4/0 to 300)	2x (1/0 to 300)	2x (1/0 to 300)	2x (2/0 to 300)	2x (3/0 to 300)	2x (4/0 to 300
600	1x (6 to 2)	1x (4 to 2/0)	1x (3 to 2/0)	1x (2 to 3/0)	1x (1/0 to 300)	2x (3 to 300)	2x (2 to 300)	2x (1 to 300)	2x (1/0 to 300)	2x (1/0 to 300)	2x (2/0 to 300

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

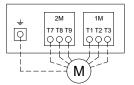
Field Wiring According to Bending Space (AWG or MCM). Terminals T1-T2-T3-T4-T5-T6-T7-T8-T9

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) **				
НР											
Voltage	75	100	125	150	200	250	300	350	400	450	
208	1x (3/0)	Consult Factory	1x (300) 90°C *	2x (3/0 to 300)	2x (250 to 350)						

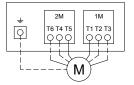
Voltage	75	100	125	150	200	250	300	350	400	450	500
208	1x (3/0)	Consult Factory	1x (300) 90°C *	2x (3/0 to 300)	2x (250 to 350)						
220 to 240	1x (2/0) 90°C *	Consult Factory	1x (300)	1x (300) 90°C *	2x (4/0 to 300)	2x (300 to 350)					
380 to 416	1x (2 to 2/0) **	1x (1/0 to 2/0) **	1x (1/0 to 2/0)	1x (2/0 to 3/0)	1x (300)	Consult Factory	2x (4/0 to 300)	2x (250 to 300)	2x (300)	2x (300 to 600)	
440 to 480	1x (3 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 300)	2x (250 to 300)	2x (300)
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 to 300)	2x (2 to 300)	2x (2 to 300)	2x (2/0 to 300)	2x (3/0 to 300)	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.
- *** Aluminum is not permitted in Canada.

Motor Terminals



Model: GPP



Model: GPY

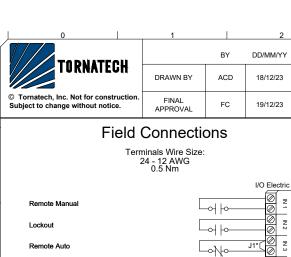
Notes

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

Drawing for information only.

Manufacturer reserves the right to modify this drawing without notice.

Contact manufacturer for "As Built" drawing.



MODEL: GPX

BUILT TO THE LATEST EDITION OF THE NFPA20 & NFPA70



RAWING NUMBER GPX-TD803/E DWG REV. 0

SHEET 1 OF 1 **Alarm Contacts** Terminals Wire Size: 24 - 12 AWG 0.5 Nm I/O Electric Board I/O Electric Board Normally Opened Closes to alarm NO Normally Closed 0 С Opens to alarm 0 NC Motor Run TB1 Normally Opened 0 NO Closes to alarm Normally Closed 0 С Opens to alarm NC Deluge Valve J2* \sim Normally Opened J25 000 NO Low Water Level Normally Closed С Opens to alarm NC 8 6 Power Available TB2 Normally Opened NO Closes to alarm Ø 10 7 00 10 8 0 Normally Closed С Opens to alarm NC Normally Opened NO Closes to alarm Normally Closed С Opens to alarm **Network Connections** NC Normal Power ТВ3 Normally Opened NO Closes to alarm Normally Closed С Terminals Wire Size: Opens to alarm Shielded Female Connector RJ45 NC Located on Main Board Normally Opened NO Closes to alarm 器 Modbus TCP/IP RJ45 Normally Closed С Opens to alarm NC Pump Room Alarm** Normally Opened NO Closes to alarm Normally Closed С Opens to alarm NC Normally Opened 00000 NO Closes to alarm Normally Closed С Opens to alarm NC Motor Trouble** TB5 Normally Opened Closes to alarm NO Normally Closed С Opens to alarm NC Normally Opened NO Closes to alarm Normally Closed 0 С Opens to alarm 0 NC (Field TB6 Programmable***) Normally Opened 0 NO Closes to alarm 0 Normally Closed С Opens to alarm NC * Remove jumper to use this feature ** Re-assignable
*** Not available on GPS models

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