

# **Submittal**

#### Fire Pump System

Your fire pump partner for over 20 years.

Date: 2-29-2024 P1551-11644 Rev01

Job: Homewood Suites -Puyallup, WA Discount Fire Protection
McBride, Tim

Prepared Lupe Godinez

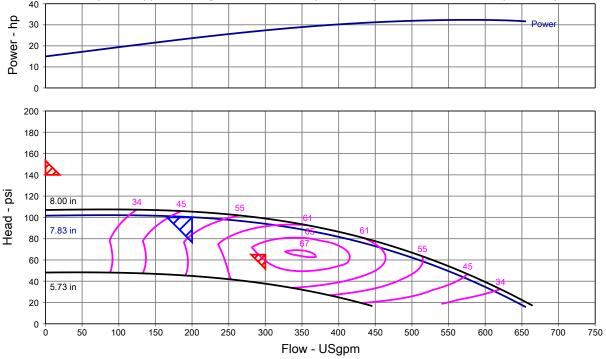
**By:** (817) 756-7473 x305

	(617) 736-7473 X303
	Items Included
1	FP Curve: 3PVF8, Peerless Pumps Series PVF, VIL,125#/125#, 3-in/3-in
2	FP Dimensions: 3PVF8, Peerless Pumps Series PVF, VIL,125#/125#, 3-in/3-in
3	FP Driver: 30 HP, 3600 RPM, 200v/3Ph/60Hz, ODP, High Eff Electric Motor
4	FP controller: Tornatech GPA, Full Svc - Across The Line, No ATS
5	Casing Relief Valve: Cla-Val 3/4" 55L, 20-300 psig
6	Hose Test Header: 3" x 1-Way, Valve/Cap/Chain, Standard
7	Jockey Pump Vertical 3/4 HP & Controller w/ Minimum Run Timer
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Other	Information

Please contact us at 817.430.2400 with any questions or comments.

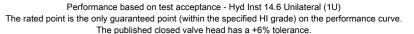


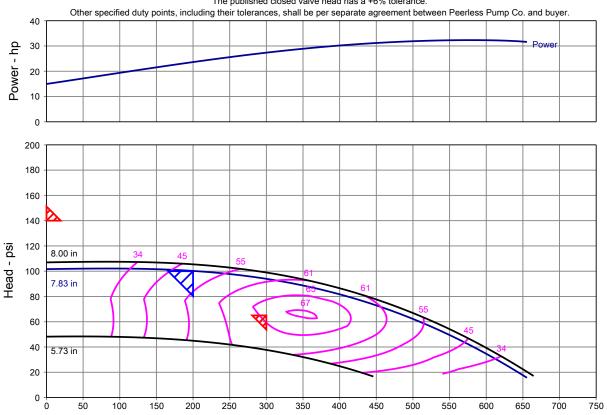
#### **Pump Performance Datasheet** Quote Number / ID : P1551-11644 Customer : Mechantek Corp Peerless Model Customer ref. / PO : 3PVF8 : Rev01 Stages Tag Number : 3PVF8-3500 Rev FEB 2022 Service Based on curve number Quantity : 1 Date last saved : 29 Feb 2024 7:37 PM Liquid **Operating Conditions** : Cold Water Flow, rated : 200 USgpm Liquid type Differential head / pressure, rated (requested) : 100.00 psi Additional liquid description Differential head / pressure, rated (actual) : 100.2 psi Solids diameter, max : 0.00 in Suction pressure, rated / max : 60.00 / 70.00 psi.g Solids concentration, by volume : 0.00 % NPSH available, rated : 68.00 deg F : Ample Temperature, max Site Supply Frequency : 60 Hz Fluid density, rated / max : 1.000 / 1.000 SG Viscosity, rated : 1.00 cP **NFPA Limits** Vapor pressure, rated : 0.34 psi.a Speed, rated : 3500 rpm Impeller diameter, rated : 7.83 in Material Material selected : Cast Iron Impeller diameter, maximum : 8.00 in Impeller diameter, minimum : 5.73 in Pressure Data Flow, rated : 200 USgpm Maximum working pressure : 172.1 psi.g Head, rated : 100.2 psi Maximum allowable working pressure : 175.0 psi.g Power, rated : 23.6 hp Maximum allowable suction pressure : N/A Power required at 150% flow : 27.4 hp Hydrostatic test pressure : N/A : 32.3 hp Peak power Efficiency, rated : 49.47 % Flow at 150% : 300 USgpm Head at 150%, actual/limit : 93.97 / 65.00 psi Head at shutoff, actual/limit : 101.6 / 140.0 psi Performance based on test acceptance - Hyd Inst 14.6 Unilateral (1U) The rated point is the only guaranteed point (within the specified HI grade) on the performance curve. The published closed valve head has a +6% tolerance. Other specified duty points, including their tolerances, shall be per separate agreement between Peerless Pump Co. and buyer. 40 Power - hp 30 20 10 0 200





#### **Pump Performance Curve**





Flow - USgpm

Customer : Mechantek Corp

Customer ref. / PO :

Tag Number : Rev01 Service :

Quantity : 1

Quote Number / ID : P1551-11644

Date last saved : 29 Feb 2024 7:37 PM

Flow, rated : 200 USgpm Differential head / : 100.00 psi

pressure, rated

Fluid density, rated / max : 1.000 / 1.000 SG

Peerless Model : 3PVF8
Stages : 1

Speed, rated : 3500 rpm

Based on curve number : 3PVF8-3500 Rev FEB 2022

Efficiency : 49.47 %
Rated power (based on duty point) : 23.6 hp
Max power (non-overloading) : 32.3 hp

NPSH required : -

Viscosity : 1.00 cP

Cq/Ch/Ce/Cn [ANSI/HI 9.6.7-2010] : 1.00 / 1.00 / 1.00

raid density, raidd / max					
Flow	Head	Efficiency	Power	NPSHr	Thrust, total
(USgpm)	(psi)	(%)	(hp)	(ft)	(lbf)
0	101.6	0.00	15.0	-	-
73	102.1	23.87	18.2	-	-
146	101.7	40.45	21.4	-	-
219	99.45	52.00	24.4	-	-
291	94.73	59.48	27.1	-	-
364	86.88	63.00	29.3	-	-
437	75.39	62.09	31.0	-	-
510	59.87	55.67	32.0	-	-
583	40.01	42.08	32.3	-	-
656	15.65	18.93	31.6	-	-



PUMP			reelless Expless 23.4.1
	Construct	tion Datasheet	
Customer	: Mechantek Corp	Quote Number / ID	: P1551-11644
Customer ref. / PO	:	Service	:-
Tag Number	: Rev01	Date last saved	: 29 Feb 2024 7:37 PM
Pump Model	: 3PVF8	Quantity	: 1
Con	struction	Electric M	lotor Information
Direction of Rotation (viewed from drive end)	Clockwise (RH)	Motor Type	Foot Mount J Frame
Suction Flange Diameter	3.00 in	Manufacturer	WEG
Suction Flange Rating	125lb ANSI Flat faced	Material Number	99845615
Discharge Flange Diameter	3.00 in	Manufacturer catalog number	03036OP3VFP284JPV-W4
Dicharge Flange Rating	125lb ANSI Flat faced	Rated power	30.0 hp
Impeller Diameter	7.83 in	Derated power	34.5 hp
Maximum Working Pressure	172.1 psi.g	Installation elevation	0.00 in
Pump Seal	Packing seal	Installation temperature (max)	99.00 deg F
		Voltage	200 V
Ma	aterials	Phase	3
Pump Casing	Cast Iron	Frequency	60 Hz
Impeller	Silicon Brass	Rated speed	3600 rpm
Pump Shaft	Carbon steel	Number of Poles	2
Shaft Sleeve	Bronze with O-ring	Service Factor	1.15
Case Ring	Bismuth tin bronze	Starting Method	Direct-on-line
Impeller wear ring	Integral	Frame Size	284JPV
Paint	Peerless Fire Red	Enclosure	ODP
		Efficiency Class	IE2
Listings a	and Approvals		Testing
UL	Yes	Hydraulic performance test	Non-witnessed per HI 14.6 1U
FM	Yes	Hydrostatic test	Non-witnessed
ULC	No	Curve approval	No
CE	No	NPSH test	N/A
NSF61	No	String test	N/A
NSF61	No	Test w/ motor	No
Approxii	mate Weights		
Complete pump	119 lb		
Driver	364 lb		



ΥY

9.50 in

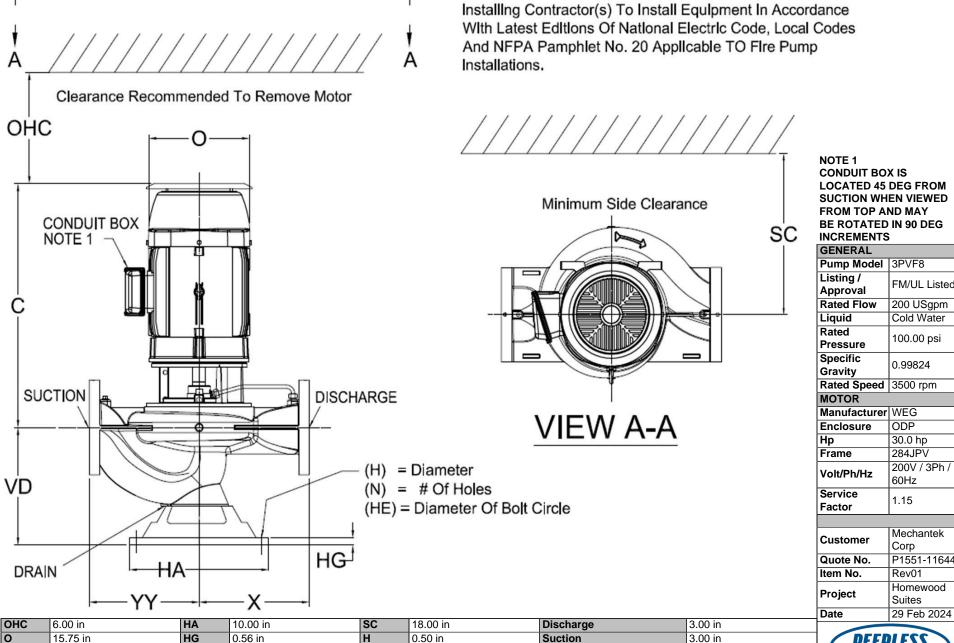
8.50 in

39.00 in

8.94 in

VD

## **General ArrangementGeneral Arrangement**



**CONDUIT BOX IS LOCATED 45 DEG FROM SUCTION WHEN VIEWED** FROM TOP AND MAY **BE ROTATED IN 90 DEG** 

GENERAL	
Pump Model	3PVF8
Listing / Approval	FM/UL Listed
Rated Flow	200 USgpm
Liquid	Cold Water
Rated Pressure	100.00 psi
Specific Gravity	0.99824
Rated Speed	3500 rpm
MOTOR	
Manufacturer	
Enclosure	ODP
Нр	30.0 hp
Frame	284JPV
Volt/Ph/Hz	200V / 3Ph / 60Hz
Service Factor	1.15
Customer	Mechantek Corp
Quote No.	P1551-11644
Item No.	Rev01
Project	Homewood Suites

4.00 in

8.88 in

HE

# **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W40 JP Pump High Efficiency Product code: 14830168 Three-Phase 03036OP3VFP284JPV-W4 Catalog #: Frame : 284/6JP Locked rotor time : 28s (cold) 16s (hot) Output : 30 HP (22 kW) Temperature rise : 80 K Poles Duty cycle : Cont.(S1) : -20°C to +40°C Frequency : 60 Hz Ambient temperature Rated voltage : 200/400 V : 1000 m.a.s.l. Altitude Rated current : 80.3/40.1 A Protection degree : IP23 L. R. Amperes : 498/249 A Cooling method : IC01 - ODP LRC : 6.2x(Code G) Mounting : W-6 No load current : 25.3/12.7 A Rotation<sup>1</sup> : Both (CW and CCW) Rated speed : 3540 rpm Starting method : Direct On Line : 325 lb Slip : 1.67 % Approx. weight<sup>3</sup> Rated torque : 43.9 ft.lb Locked rotor torque : 170 % Breakdown torque : 260 % Insulation class : F Service factor : 1.15 Moment of inertia (J) : 1.59 sq.ft.lb Design : B 25% 50% 75% 100% Output Foundation loads 90.2 91.0 Efficiency (%) 90.0 91.0 Max. traction Power Factor 0.50 0.74 0.83 0.87 Max. compression Non drive end Drive end Bearing type 6311 Z C3 6211 Z C3 Sealing Without Bearing Seal Without Bearing Seal

Lubrication interval 14226 h 11517 h Lubricant amount 18 g 11 g

Lubricant type Mobil Polyrex EM

Notes

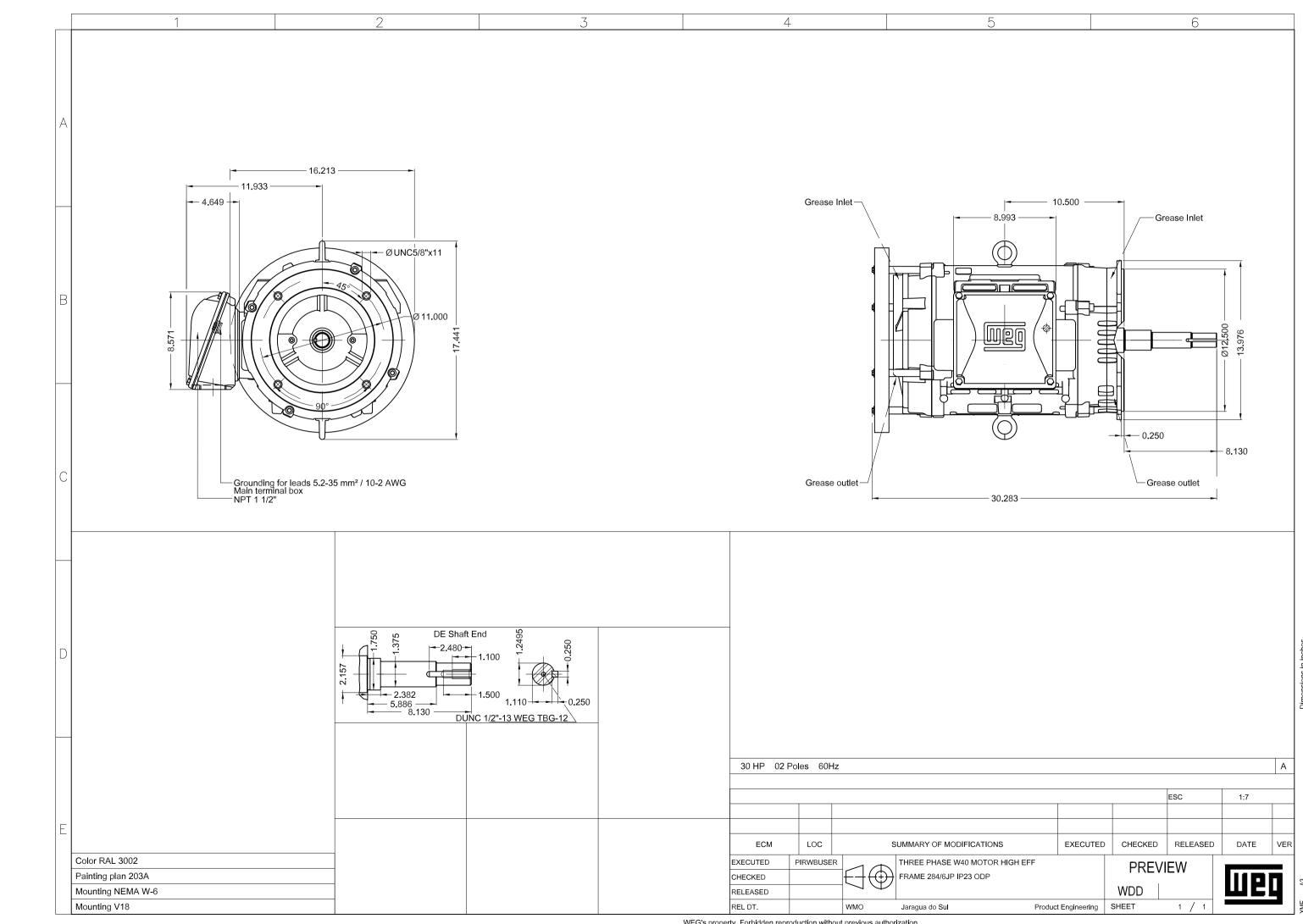
This revision replaces and cancel the previous one, which must be eliminated.

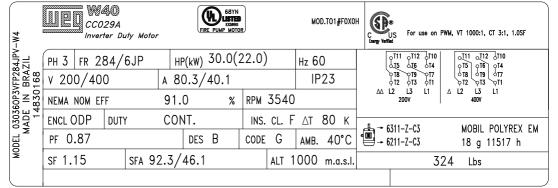
- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.

(4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	05/02/2020			1/1	







Project: Homewood Suites - Puyallup WA
Customer: Discount Fire Protection
Engineer:
Pump Manufacturer: Peerless Pumps

# Technical Data Submittal Document

# **GPx Series**

Full Service Electric Fire Pump Controller



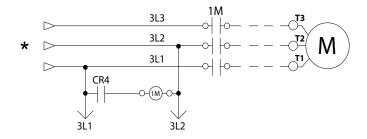
# Contents:

Data Sheets
Dimensional Data
Wiring Schematics
Field Connections

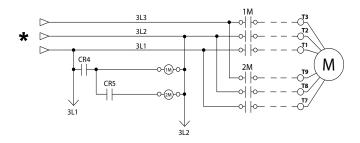


#### Select starting method

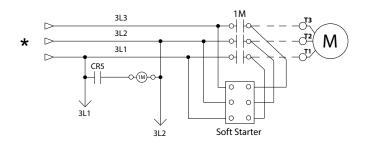




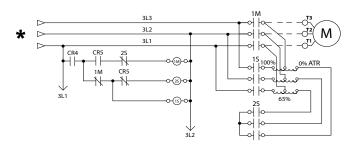




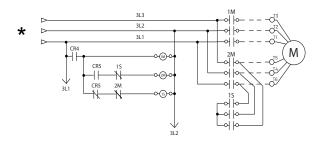
## **Model GPS Soft Start Soft Stop**



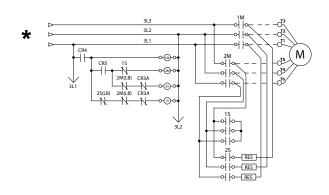
### **Model GPR Autotransformer**



## **Model GPY Wye-Delta Open**



## **Model GPW Wye-Delta Closed**



<sup>\*</sup>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	Cla	ss 1321/1323				
Approvals and	New York City	Acc	Accepted for use in the City of New York by 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	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			
	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	F 450 (0.7, 440)	F 200 (2.7, 440)	F 200 (2.7, 202)	F 400 (2.7, 200)	NI/A
5 - 150 (3.7 - 110) Optional 150kA		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)	F F00 (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

<sup>\*</sup>Please see Disconnecting Means details on page 4



Ambient Temperature Rating	Standard:  Optional:  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					
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				
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	• Under regular maintained operation, events are stored in memory for the life of the controller				
Pressure Sensing  Pressure Sensing  Pressure Sensing  Pressure Sensing  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 run     Periodic test	Remote automatic start	<ul> <li>Pump on demand/Automatic start</li> <li>Pump room temperature (°F or °C)</li> <li>Lockout</li> </ul>
Visual & Audible Alarms	Visual Control voltage not health Invalid cut-in Lock rotor current Loss of power Low ambient temperature Low water level Motor trouble Phase reversal (normal povisual and audible	<ul> <li>Overvoltage</li> <li>Phase loss L1</li> <li>Phase loss L2</li> <li>Phase loss L3</li> <li>Phase unbalanced</li> <li>Pressure transducer fault determine</li> </ul>	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 (field re-assignable)**	

<sup>\*\*</sup>Tornatech reserves the right to use any of these three alarm points for special specific application requirements.



ViZiTouch V2.1 Operator Interface	<ul> <li>Embedded microcomputer with software PLC logic</li> <li>7.0" color touch screen (HMI technology)</li> <li>Upgradable software</li> <li>Multi-language</li> </ul>			
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		Pressure     Non-pressure	
	Mode	- Visual Indication	Automatic     Non-automatic	

<sup>\*\*\*</sup>Can only be used if approved by the AHJ



alarm contact (DPDT) m contact (DPDT) t alarm contact (DPDT)
, ,
t alarm contact (DPDT)
t didiffi doritadt (Bi Bi)
c start alarm contact (DPDT)
start alarm contact (DPDT)
temperature alarm contact
ndard alarm contacts (DPDT)
f Los Angeles and Denver)
and alarm contact (Specify
sure transducer for fresh 800PSI with visual indication t
sure transducer for sea water I with visual indication and
cer and run test solenoid ater rated for 0-500PSI (for purposes only)
cer and run test solenoid er rated for 0-500PSI
et (when applicable)
ting for:
) 150HP max. = 150kA* ) 200HP = 100kA*
200HP max. = 150kA* 250HP = 100kA*
) 300HP max. = 150kA* ) 350HP to 450HP = 100kA*
0 400HP max. = 150kA* 0 450HP to 500HP = 100kA*
max. = 100kA* ting for:
65kA*
ating for: ) 150HP max. = 200kA* ) 200HP max. = 200kA*
300HP max. = 200kA*
0 400HP max. = 200kA*
n heater & thermostat
n heater & thermostat &

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

<sup>\*</sup>For fire pump controller section only.



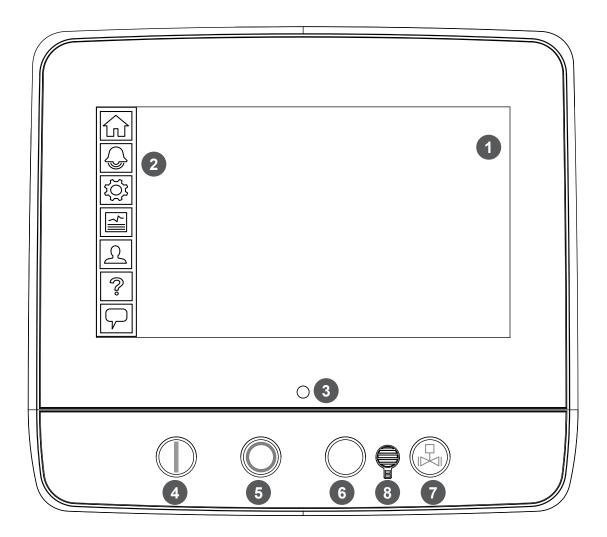
D15	Tropicalization	L01	Other language and English (bilingual)
D18	CE Mark with factory certificate	L02	French
☐ D26	Modbus with RTU frame format and RS485 connection	L03	Spanish
	Motor heater connection (external single	L04	German
D27	phase power source and heater on/off	L05	Italian
	contact)  Motor heater connection (internal single	L06	Polish
D27/		L07	Romanian
D28	Customized drawing set	L08	Hungarian
	Field programmable I/O board	L09	Slovak
D34.	5 Input / 5 output	L10	Croatian
D43	Seismic Certification compliant to CBC 2019, IBC 2018 rigid base/wall mounted only	L11	Czech
	Special Seismic Certification compliant to	L12	Portuguese
☐ D44	OSHPD rigid base/wall mounted only	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:		
<u> </u>			
<u> </u>			

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



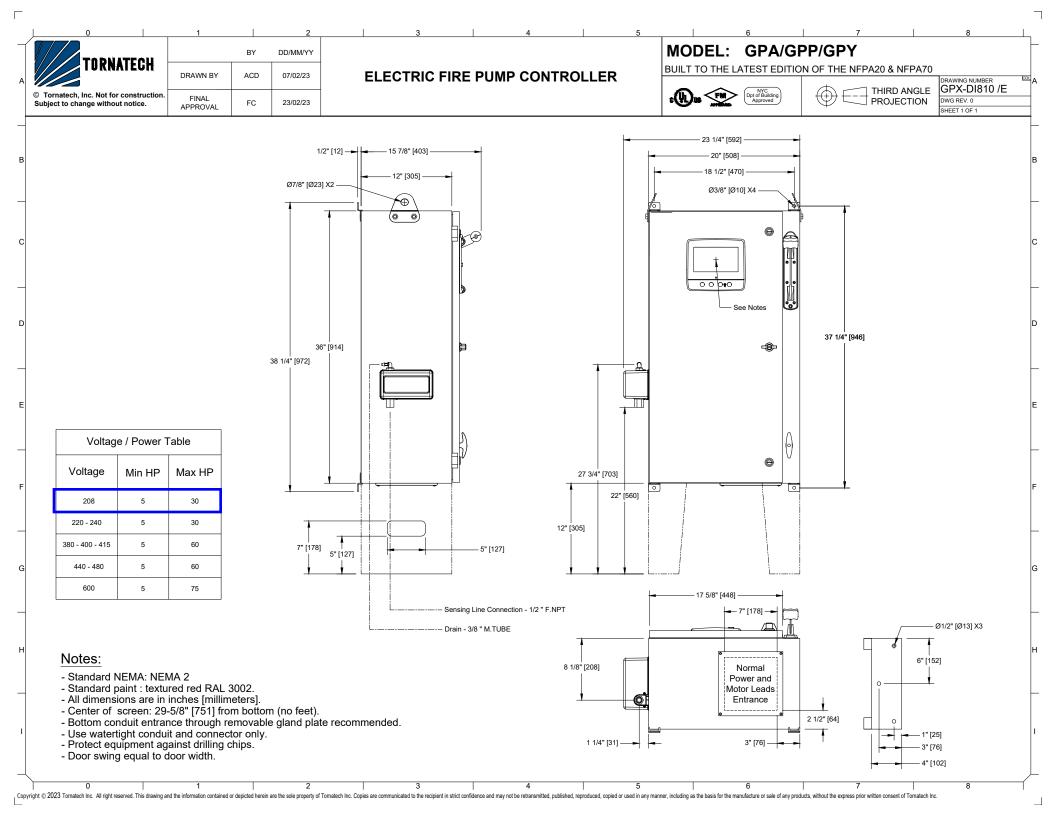
#### **ViZiTouch V2.1 Operator Interface**

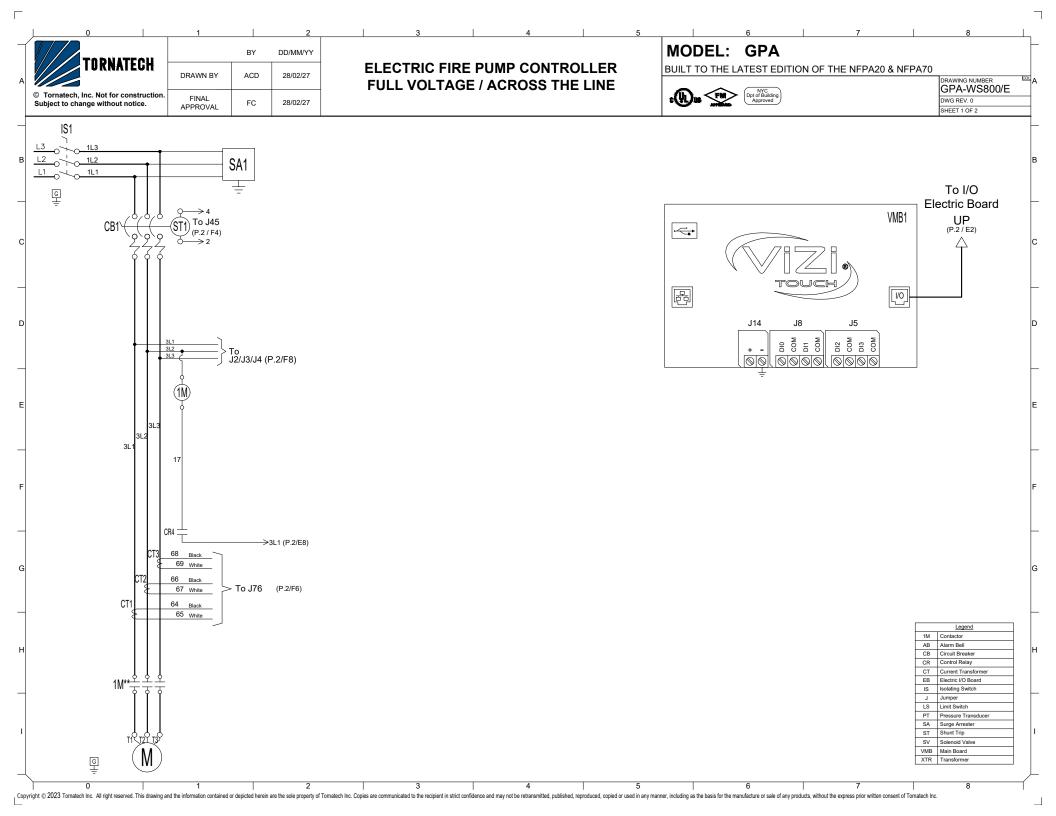




- 1 Color touch screen
- 2 Onscreen menu
  - HOME page
  - ALARM page
  - CONFIGURATION page
  - HISTORY page
  - SERVICE page
  - MANUAL page
  - LANGUAGES page

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







	BY	DD/MM/YY
DRAWN BY	ACD	28/02/27
FINAL APPROVAL	FC	28/02/27

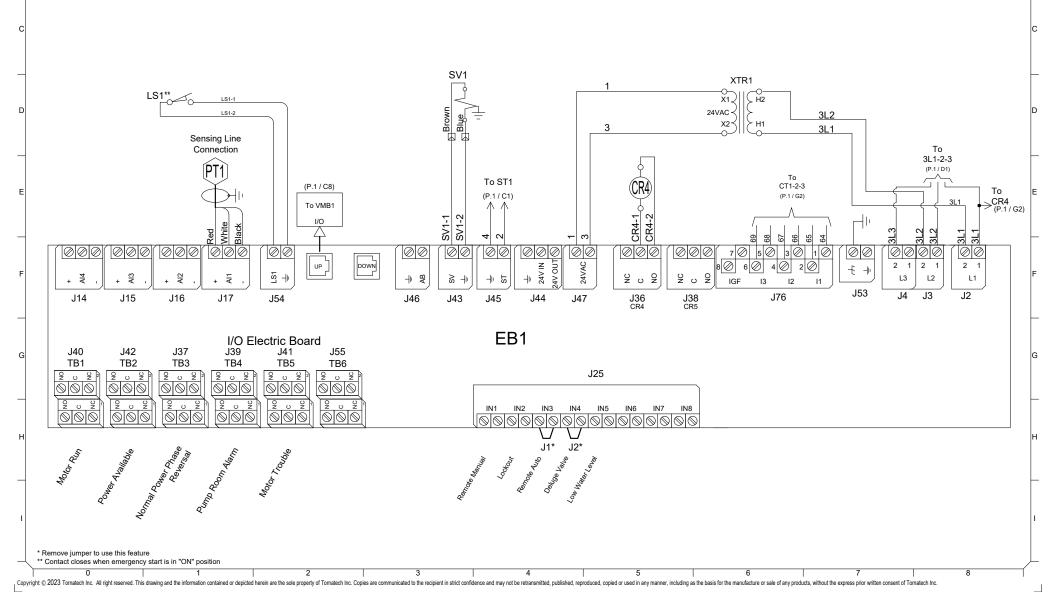
# ELECTRIC FIRE PUMP CONTROLLER FULL VOLTAGE / ACROSS THE LINE

MODEL: GPA

BUILT TO THE LATEST EDITION OF THE NFPA20 & NFPA70



DRAWING NUMBER
GPA-WS800/E
DWG REV. 0
SHEET 2 OF 2





	BY	DD/MM/YY
DRAWN BY	ACD	28/02/23
FINAL APPROVAL	FC	28/02/23

#### **ELECTRIC FIRE PUMP CONTROLLER**

**MODEL: GPX** 

BUILT TO THE LATEST EDITION OF THE NFPA20 & NFPA70

**Power Terminals** 

Bonding Ground

9

3 Phases Incoming Power

i i i

299 L1 L2 L3 IS1



DRAWING NUMBER GPX-TD800/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

i icia vvi	iling / tooolai	ng According to Bending Space (AWS or Wick). Terminals E1 - E2 - E3									
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						16 "	(406 mm)				
HP Voltage	75	100	125	150	200	250	300	350	400	450	
			I				1				

Bending Space		12 " (305 mm)			l	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)	" (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 (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)							

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

\*\* Consult Factory

- 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
- 4 Controller is phase sensitive. Incoming lines must be connected in ABC sequence.

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



	BY	DD/MM/YY
DRAWN BY	ACD	28/02/23
FINAL APPROVAL	FC	28/02/23

#### **ELECTRIC FIRE PUMP CONTROLLER**

MODEL: GPA/GPR/GPS

BUILT TO THE LATEST EDITION OF THE NFPA20 & NFPA70



DRAWING NUMBER
GPX-TD801/E
DWG REV. 0
SHEET 1 OF 1

#### **COPPER CONDUCTORS** for Motor Connection (1M).

Field Wiring According to Bending Space (AWG or MCM). Terminals T1 - T2 - T3

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

#### **ALUMINUM CONDUCTORS** for Contactor (1M).

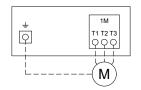
Field Wiring According to Bending Space (AWG or MCM). Terminals T1 - T2 - T3

HP Voltage	5	7.5	10	15	20	25	30	40	50	60
208	1x (10 to 2/0) **	1x (10 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) **	1x (2/0) 90°C *	Consult Factory	1x (300)
220 to 240	1x (10 to 2/0) **	1x (10 to 2/0) **	1x (8 to 2/0) **	1x (4 to 2/0) **	1x (3 to 2/0) **	1x (2 to 2/0) **	1x (1 to 2/0) **	1x (2/0)	1x (3/0) 90°C *	Consult Factory
380 to 416	1x (12 to 2/0) **	1x (12 to 2/0) **	1x (10 to 2/0) **	1x (8 to 2/0) **	1x (6 to 2/0) **	1x (6 to 2/0) **	1x (4 to 2/0) **	1x (2 to 2/0) **	1x (1 to1/0)	1x (1/0)
440 to 480	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 (6 to 2/0) **	1x (6 to 2/0) **	1x (4 to 2/0) **	1x (2 to 1/0)	1x (1 to 1/0)
600	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 (4 to 2/0) **	1x (4 to 2/0) **	1x (2 to 1/0)
HP	75	100	125	150	200	250	300	350	400	450

HP Voltage	75	100	125	150	200	250	300	350	400	450	500
208	1x (300) 90°C *	2x (4/0 to 300)	2x (300)	2x (300) 90°C *	2x (600)						
220 to 240	1x (300) 90°C *	2x (3/0 to 300)	2x (250 to 300)	2x (300)	2x (500)	2x (600)					
380 to 416	1x (3/0)	Consult Factory	1x (300) 90°C *	Consult Factory	2x (4/0 to 300)	2x (300)	Consult Factory	2x (600)	2x (600) 90°C *	2x (600) 90°C *	
440 to 480	1x (1/0)	1x (3/0)	Consult Factory	1x (300)	2x (3/0 to 300)	2x (250 to 300)	2x (300)	2x (300) 90°C *	2x (500)	2x (600)	2x (600) 90°C *
600	1x (1 to 1/0)	Consult Factory	1x (3/0) 90°C *	Consult Factory	1x (300) 90°C *	2x (3/0 to 300)	2x (4/0 to 300)	2x (300)	2x (300) 90°C *	2x (300) 90°C *	Consult Factory

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

#### **Motor Terminals**



Models: GPA/GPR/GPS

#### Note

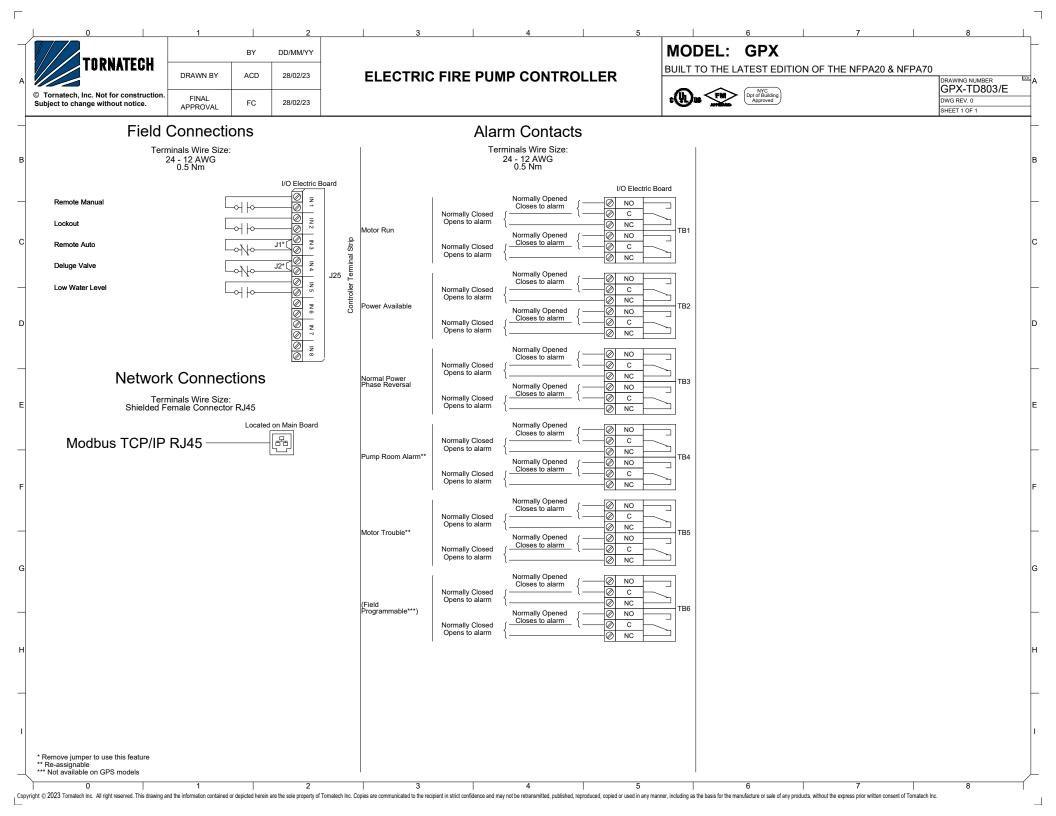
- 1 For proper wire sizing, refer to NFPA70 and NEC (USA) or CEC (Canada) or local code.
- 2 Controller suitable for service entrance in USA.
- 3 For more accurate motor connections refer to motor manufacturer or motor nameplate.
- 4 Controller is phase sensitive. Incoming lines must be connected in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

Drawing for information only.

Manufacturer reserves the right to modify this drawing without notice.

Contact manufacturer for "As Built" drawing.

<sup>\*\*</sup> Option V659 required.

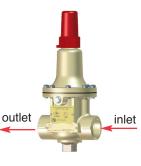




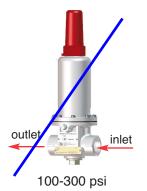
# - MODEL - 55L-60

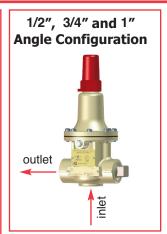
# Pressure Relief Valve/ Pump Casing Relief Valve

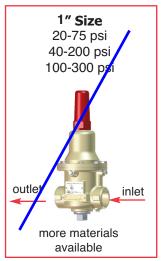
## 1/2" and 3/4" Globe Configuration



0-75 psi 20-200 psi 20-300 psi







- Sizes 1/2" and 3/4" are UL Listed and FM Approved for use as Fire Pump Casing Relief Valves
- The 1" model is UL Listed for use as a Fire Pump Casing Relief Valve
- Direct Acting Precise Pressure Control
- Drip Tight Closure
- No Packing Glands or Stuffing Boxes
- · Globe or Angle configurations available
- Sensitive to Small Pressure Variations
- Meets low lead requirements
- Available in Cast Bronze, 316 Stainless Steel, Monel & Super Duplex Stainless Steel

The Cla-Val Model 55L-60 **(UL Listed, FM Approved)** Pressure Relief Valve is a direct-acting, spring loaded, diaphragm type relief valve. The valve may be installed in any position and will open and close within very close pressure limits. The bottom plug may be removed and installed in the inlet to convert it to an angle pattern flow path.

The Model 55L-60 is normally held closed by the force of the compression spring above the diaphragm. When the controlling pressure applied under the diaphragm exceeds the spring setting, the disc is lifted off its seat, permitting flow through the control. When control pressure drops below the spring setting, the spring forces the control back to its normally closed position. The controlling pressure is applied to the chamber beneath the diaphragm through an internal passage. A gauge port is provided for accurate pressure setting.

Pressure adjustment is done by turning the adjusting screw to vary the spring load on the diaphragm. The 55L-60 is available in pressure ranges suited to agency approval tests. To prevent tampering, the adjustment cap can be wire sealed by using the lock wire holes provided in the cap and cover.



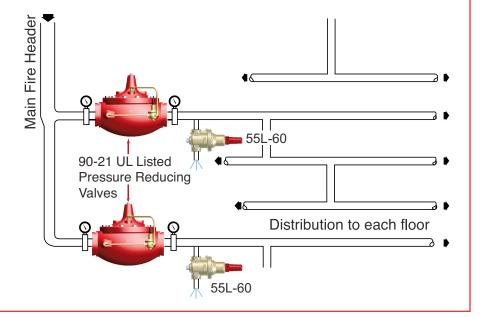


Fire Protection System Service The Model 55L-60 is typically used in a fire protection system to trim water pressure, thus preventing pressure build-up whenever line pressure exceeds the setting of the spring.

The 55L-60 will relieve excess pressure to atmosphere to prevent damage to the distribution network.

NOTE: Model 55L-60 is not suitable for discharging the full-rated pump capacity of a fire pump. See Model 50B-4KG1 Fire Pump Relief Valve for such applications.

## Typical Application for Fresh Water or Seawater Service



#### **Specifications**

Size 1/2", 3/4" and 1" Threaded NPT

**Temperature Range** Water, Air: to 180°F Max.

**Materials** 

Body & Cover: Cast Bronze UNS C87850 -Standard

Stainless Steel ASTM A743-CF-16F

Monel

Super Duplex Stainless Steel

303 Stainless Steel Trim:

Monel

Rubber: Buna-N® Synthetic Rubber

**Pressure Ratings** Cast Bronze 400 psi Max.

Stainless Steel 400 psi Max.

Other Materials Available on special order

#### Adjustment Ranges UL Listed

10 to 75 psi • 20 to 200 psi • 20 to 300 psi • 100 to 300 psi

#### **Adjustment Ranges FM Approved**

0 to 75 psi • 20 to 200 psi • 20 to 300 psi • 100 to 300 psi

#### Pressure Drop Chart (Full Open Valve)

Valve Size	C <sub>V</sub> Factor	Max Flow (GPM)
1/2"	6	25
3/4"	8.5	40
1"	12.8	65

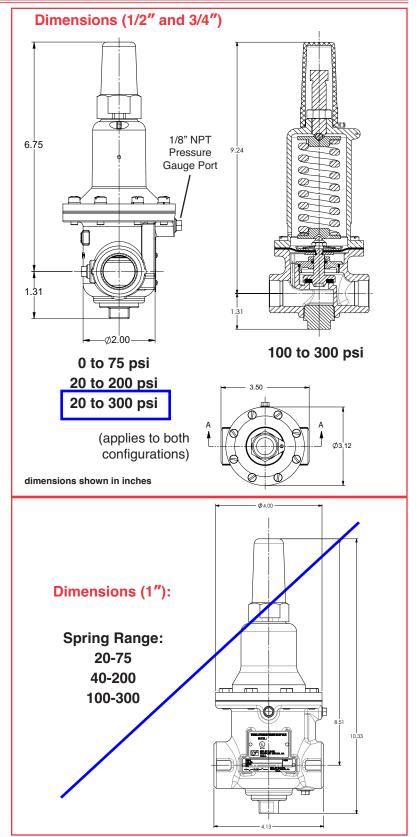
#### Standard Factory Set Points\* (1/2", 3/4", 1")

0 -75 psi	20 - 200 psi	20 - 300 psi	100 - 300 psi
50 psi	60 psi	60 psi	100 psi

<sup>\*</sup> Custom set points available upon request

#### When Ordering, Please Specify

- 1. Catalog No. 55L-60
- Valve Size
- Adjustment Range Desired
- **Optional Materials**





#### **CLA-VAL**

1701 Placentia Avenue · Costa Mesa CA 92627

800-942-6326 • Web Site: www.cla-val.com • E-mail: info@cla-val.com

#### CLA-VAL CANADA 4687 Christie Drive

Beamsville, Ontario Canada L0R 1B4 905-563-4963 www.cla-val.com E-mail sales@cla-val.ca

#### **CLA-VAL EUROPE**

Chemin des Mésanges 1 CH-1032 Romanel/ Lausanne, Switzerland Phone: 41-21-643-15-55 www.cla-val.ch E-mail: cla-val@cla-val.ch

#### CLA-VAL UK

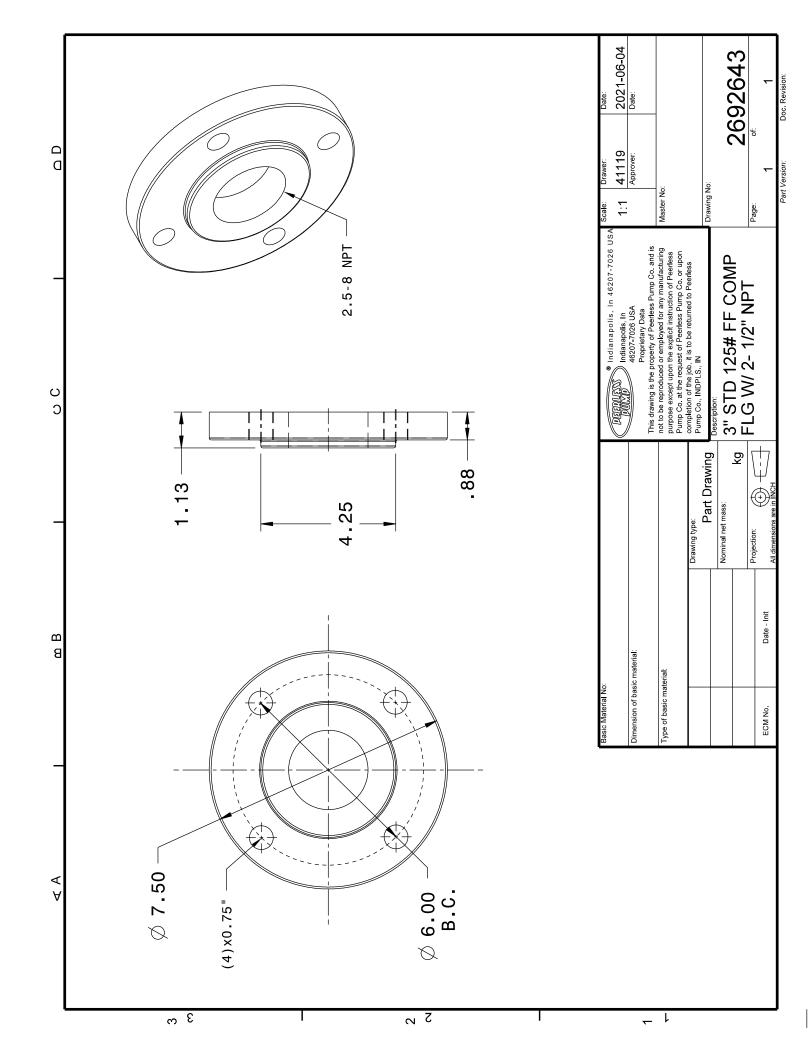
Dainton House, Goods Station Road Tunbridge Wells Kent TN1 2 DH England Phone: 44-1892-514-400 www.cla-val.ch E-mail: info@cla-val.ch

#### **CLA-VAL FRANCE**

Porte du Grand Lyon 1 ZAC du Champ du Périer France - 01700 Neyron Phone: 33-4-72-25-92-93 www.cla-val.ch E-mail: cla-val@cla-val.ch

#### **CLA-VAL ASIA PACIFIC**

45 Kennaway Road Woolston, Christchurch, 8023 New Zealand Phone: 64-39644860 www.cla-valpacific.com E-mail: info@cla-valpacific.com



# **GRUNDFOS DATA BOOKLET**

# CR, CRI, CRN, CRE, CRIE, CRNE

Vertical multistage centrifugal pumps 60 Hz



## **Product overview**

#### **Pump**

The CR and CRE pump is a non-self-priming, vertical multistage centrifugal pump. The pumps are available with a Grundfos standard motor (CR pumps) or a frequency-controlled motor (CRE pumps).

The pump consists of a base and a pump head. The chamber stack and the outer sleeve are secured between the pump head and the base by means of staybolts. The base has suction and discharge ports on the same level (in-line).

All pumps are equipped with a maintenance-free mechanical shaft seal of the cartridge type.



Fig. 3 CR pump

CR pump with ANSI/NSF 61 listing is available. See UL file MH26400 or contact Grundfos.

#### Motor

Grundfos standard motors - ML and Baldor® motors CR, CRI and CRN pumps are fitted with a Grundfos specified motor. The motors are all heavy-duty 2-pole, NEMA C-face motors.

#### Frequency-controlled motors - MLE motors

CRE, CRIE and CRNE pumps are fitted with a totally enclosed, fan-cooled, 2-pole motor with integrated variable frequency drive.

From 0.5 Hp to 1.5 Hp Grundfos offers CRE pumps fitted with single-phase MLE motors (1 x 208-230 V). From 1.0 Hp to 10 Hp Grundfos offers CRE pumps fitted with three-phase MLE motors (3 x 460-480 V). From 1.5 Hp to 7.5 Hp Grundfos offers CRE pumps fitted with three-phase MLE motors (3 x 208-230 V).

#### **Electrical data**

Mounting designation	NEMA
Insulation class	F&B
Efficiency class*	Energy efficient Premium efficiency - on request for 15 Hp and above
Enclosure class  TEFC - Totally Enclosed Fan Cooled (Grundfos standard)  ODP - Open Drip Proof - on request	
60 Hz Standard voltages	1 x 115/208-230 V 3 x 208-230/460 V 3 x 575 V
Approvals	The motors are rated for:  Baldor  ML/MLE  R  R  R  R  R  R  R  R  R  R  R  R  R

<sup>\* 1 - 10</sup> Hp ML motors are premium efficiency as standard

#### **Optional motors**

The Grundfos standard range of motors covers a wide variety of application demands. However, for special applications or operating conditions, custom-built motor solutions can be provided.

For special applications or operating conditions, Grundfos offers custom-built motors such as:

- · explosion proof motors,
- · motors with anti-condensation heating unit,
- · low-noise motors,
- premium efficiency motors,
- · motors with thermal protection.

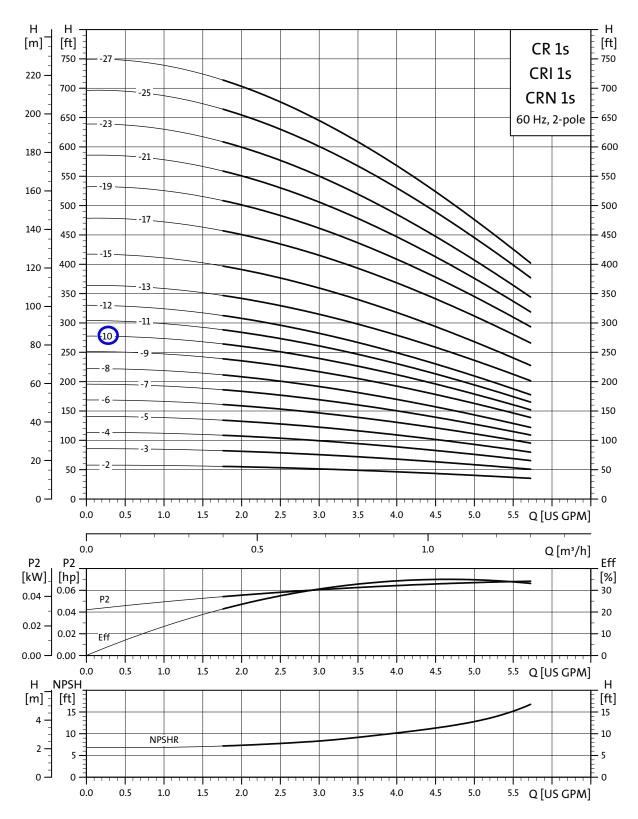
#### Motor protection

Single-phase Grundfos specified motors up to 7.5 hp have a built-in thermal overload switch.

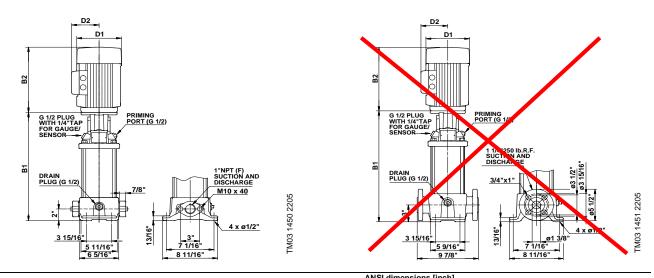
Three-phase motors **must** be connected to a motor starter in accordance with local regulations.

# Performance curves/ Technical data

#### CR, CRI, CRN 1s



# **Technical data**



				ANSI dimensions [inch]				
Pump type	P2 [hp]	Ph.	Oval*	B1	TEFC			Ship Wt. [lbs.]
	[444]			ы	D1	D2	B1+B2	[105.]
00.4-0		1	•	11.97	6.19	5.18	21 26	69
CR 1s-2	1/3	3	•	11.97	5.55	4.57	19.41	67
00.4-0		1	•	11.97	6.19	5.18	21 26	69
CR 1s-3	1/3	3	•	11.97	5.55	4.57	19.41	67
OD 4- 4		1	•	12 68	6.19	5.18	21 97	70
CR 1s-4	1/3	3	•	12 68	5.55	4.57	20.12	68
OD 4- 5		1	•	13 39	6.19	5.18	22 68	71
CR 1s-5	1/3	3	•	13 39	5.55	4.57	20 83	69
OD 4- 0		1	•	14 09	6.19	5.18	23 38	75
CR 1s-6	1/2	3	•	14 09	5.55	4.57	21 53	70
CD 10 7	1/0	1	•	14 80	6.19	5.18	24 09	76
CR 1s-7	1/2	3	•	14 80	5.55	4.57	22 24	71
CR 1s-8		1	•	15 51	6.19	5.18	24 80	77
CR 15-8	1/2	3	•	15 51	5.55	4.57	22 95	72
OD 4- 0		1	•	16 22	6.19	5.18	26.13	82
CR 1s-9	3/4	3	•	16 22	5.55	4.57	23 66	73
OD 4- 40		1	•	16.93	6 10	5 1 Q	26.84	92
CR 1s-10	3/4	3	•	16 93	5.55	4.57	24 37	74
CR 1s-11	0/4	1	•	17 64	6.19	5.18	27 55	84
CK 15-11	3/4	3	•	17 64	5.55	4.57	25 08	75
CD 12 12	3/4	1	•	18 35	6.19	5.18	28 26	85
CR 1s-12		3	•	18 35	5.55	4.57	25.79	76
CR 1s-13		1	•	19 06	7.19	5.73	30 25	101
CK 15-13	1	3	•	19 06	5.55	4.57	26 50	77
CD 40 45		1	•	20.47	7.19	5.73	31 66	103
CR 1s-15	1	3	•	20.47	5.55	4.57	27 91	78
CD 10 17		1	•	21 89	7.19	5.73	33 57	107
CR 1s-17	1 1/2	3	•	21 89	5.55	4.57	30 51	84
OD 4- 40		1	-	23 31	7.19	5.73	34 99	109
CR 1s-19	1 1/2	3	-	23 31	5.55	4.57	31 93	86
OD 4- 04		1	-	24.72	7.19	5.73	36.40	111
CR 1s-21	1 1/2	3	-	24.72	5.55	4.57	33 34	88
OD 45 22		1	-	26.14	7.19	5.73	37 82	113
CR 1s-23	1 1/2	3	-	26.14	5.55	4.57	34.76	90
OD 4= 25		1	-	27 56	7.19	5.73	40.12	126
CR 1s-25	2	3	-	27 56	7.01	4.33	38.78	116
OD 4- 07		1	-	28 98	7.19	5.73	41 54	127
CR 1s-27	2	3	-	28 98	7.01	4.33	40 20	118

All dimensions in inches unless otherwise noted.

<sup>\*</sup>Oval flanged pump B1 and B1+B2 dimension is one inch less than ANSI flanged pump and weight is approximately 9 lbs. less.

Available



Project:	
Customer:	
Engineer:	
Pump Manufacturer:	

# Technical Data Submittal Document

## **Model JPLT**

Across the Line Start Jockey Pump Controller



#### **Contents:**

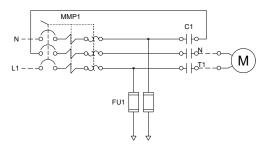
Data Sheets
Dimensional Data
Wiring Schematics
Field Connections



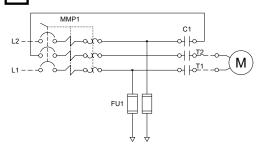


## **Select Incoming Voltage**

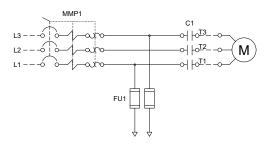
## 110-120V



#### 220-240V



# 200-600V







	<del></del>		
	Underwriters Laboratory (UL)	UL508A - Industrial Pump Controllers	
Linting	New York City	Accepted for use in the City of New York by the Department of Buildings	
Listing	Optional		
	☐ CE Mark	Various EN, IEC & CEE directives and standards	
	Protection Rating		
	Standard: NEMA 2		
	Optional		
	□ NEMA 12 □	NEMA 4X-304 sst painted	
Enclosure	□ NEMA 3 □	NEMA 4X-304 sst brushed finish	
Eliciosule	□ NEMA 3R □	NEMA 4X-316 sst painted	
	□ NEMA 4 □	NEMA 4X-316 sst brushed finish	
	Accessories	Paint Specifications	
	<ul> <li>Wall mounting lugs (x4)</li> </ul>	• Red RAL3002	
		Powder coating	
		Glossy textured finish	



# **Technical Data Model JPLT Jockey Pump Controller**

#### **Short circuit current rating**

	Voltage						
HP	110 - 120V	220 - 240V	200 - 208V	220 - 240V	380 - 415V	440 - 480V	600V
0.25	65kA	65kA	65kA	65kA	65kA	65kA	10kA
0.5	65kA	65kA	65kA	65kA	65kA	65kA	10kA
0.75	42kA	65kA	65kA	65kA	65kA	65kA	10kA
1	42kA	65kA	65kA	65kA	65kA	65kA	10kA
1.5	42kA	65kA	65kA	65kA	65kA	65kA	10kA
2	42kA	65kA	65kA	65kA	65kA	65kA	10kA
3	CF	42kA	65kA	65kA	65kA	65kA	10kA
4	CF	42kA	42kA	42kA	65kA	65kA	10kA
5	CF	42kA	42kA	42kA	65kA	65kA	10kA
5.5	CF	CF	42kA	42kA	65kA	65kA	10kA
7.5	CF	CF	42kA	42kA	42kA	65kA	10kA
10	CF	CF	CF	42kA	42kA	42kA	10kA
15	CF	CF	CF	CF	42kA	42kA	5kA
20	CF	CF	CF	CF	CF	42kA	5kA
25	CF	CF	CF	CF	CF	CF	5kA



Fuseless Motor Starter		Type -F fuse-less magnetic motor starter Rotary handle, padlockable Door interlocked				
Control Circuit	• 24V.AC	• 24V.AC				
ViZiLT Operator Interface	High luminosity alphanumeric digital display     HAND-OFF-AUTO pushbuttons     MENU navigation pushbuttons					
Pressure Sensing	Pressure transducer for fresh water application 316 stainless steel construction     Rated for 0-600psi working pressure     Pressure sensing line connection 1/2" brass Male NPT					
Visual Indications	<ul> <li>H-O-A position</li> <li>System pressure</li> <li>Cut-out and Cut-In pressure setting</li> <li>Manual motor run</li> <li>Automatic motor run</li> <li>Motor overload</li> <li>Pump start counter</li> <li>Elapsed time meter (hours / non-resettable)</li> </ul>					
Timers	Minimum run timer (off delay     Delay start timer (on delay     Visual countdown					
Counters	Pump start counter     Elapsed timer meter (hours	s / non-resettable)				
Operators	Main disconnect handle     HAND-OFF-AUTO pushbuttons     MENU navigation pushbuttons					
	Automatic Start	Start on pressure drop				
On a series in	Manual Start	Start pushbutton				
Operation	Stopping	Stop pushbutton				
	Timers	Field adjustable & • Minimum run timer (off delay) • Delay start timer (on delay)				



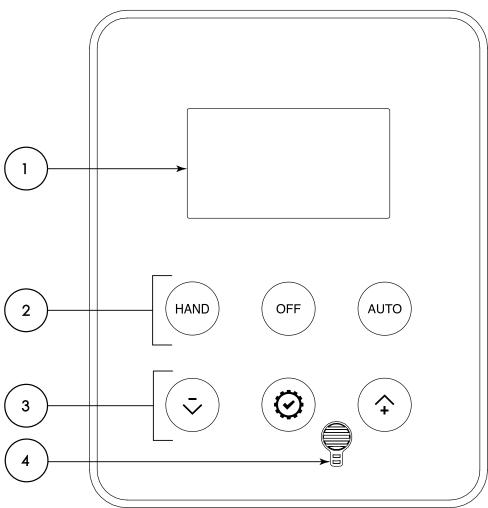
ПА4	Flanced time mater (time totalizer)
<u> </u>	Elapsed time meter (time totalizer)
☐ A5	Motor run alarm contact
☐ A6	Loss of power alarm contact
☐ A7	Overload or short circuit alarm contact
□ D11D	Pressure transducer 0-600psi with ½" MNPT 316 stainless steel bushing
☐ D14	Export packing for 1 controller
☐ D13A	Externally mounted wetted parts
☐ D14	Export packing for 1 controller
☐ D18	Audible alarm
☐ D19	Anti-condensation heater and thermostat
☐ D20	Anti-condensation heater and humidistat
☐ D21	Tropicalization
☐ D22	Phase reversal / failure pilot light and alarm contact
□ D23	Controller power healthy pilot light and alarm contact
☐ D24	Pump failure via current sensing relay with pilot light and dry alarm contact
☐ D25	Low zone pump control function
☐ D26	Mid zone pump control function
☐ D27	High zone pump control function
☐ D28	Selector switch in auto alarm contacts
☐ D29	Selector switch in off alarm contacts
☐ D30	Motor heater circuit
☐ D35	Seismic Certification compliant to CBC 2019, IBC 2018 rigid base/wall mounted only
□ D36	Special Seismic Certification compliant to OSHPD rigid base/wall mounted only
□ D37	100kA high short circuit withstand rating for 200V to 600V

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☐ 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



#### **ViZiLT Operator Interface**





- 1 High luminosity alphanumeric digital display
- 2 HAND-OFF-AUTO pushbuttons
- 3 MENU navigation pushbuttons
- 4 Audible Alarm



	BY	DD/MM/YY
DRAWN BY	ACD	15/05/23
FINAL APPROVAL	FC	15/05/23

#### **JOCKEY PUMP CONTROLLER**

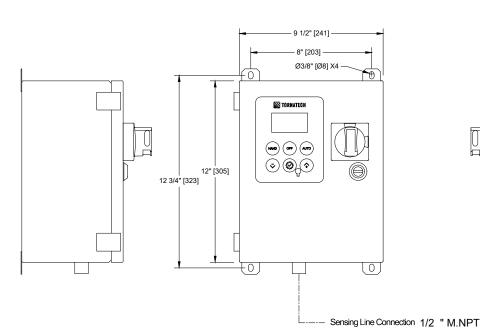
#### MODEL: JPLT

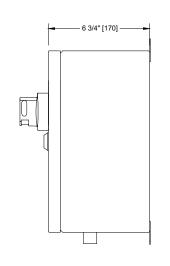
BUILT TO THE LATEST EDITION OF THE UL 508A

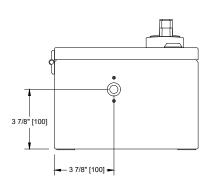


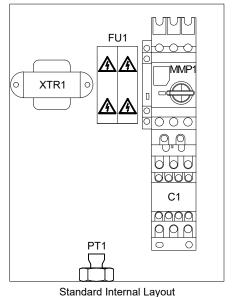


DRAWING NUMBER
JPLT-DI001/E
DWG REV. 0
SHEET 1 OF 1









Standard Internal Layout

	Voltage / Po	wer Table	
	Voltage	Max HP	
1 Phase			
	110 - 120	2	
	200 - 208	5	
	220 - 240	5	
	3 Pha	ses	

I	200 - 208	7.5
	220 - 240	10
	380 - 400 - 415	15
	440 - 480	20
	600	25

#### Notes:

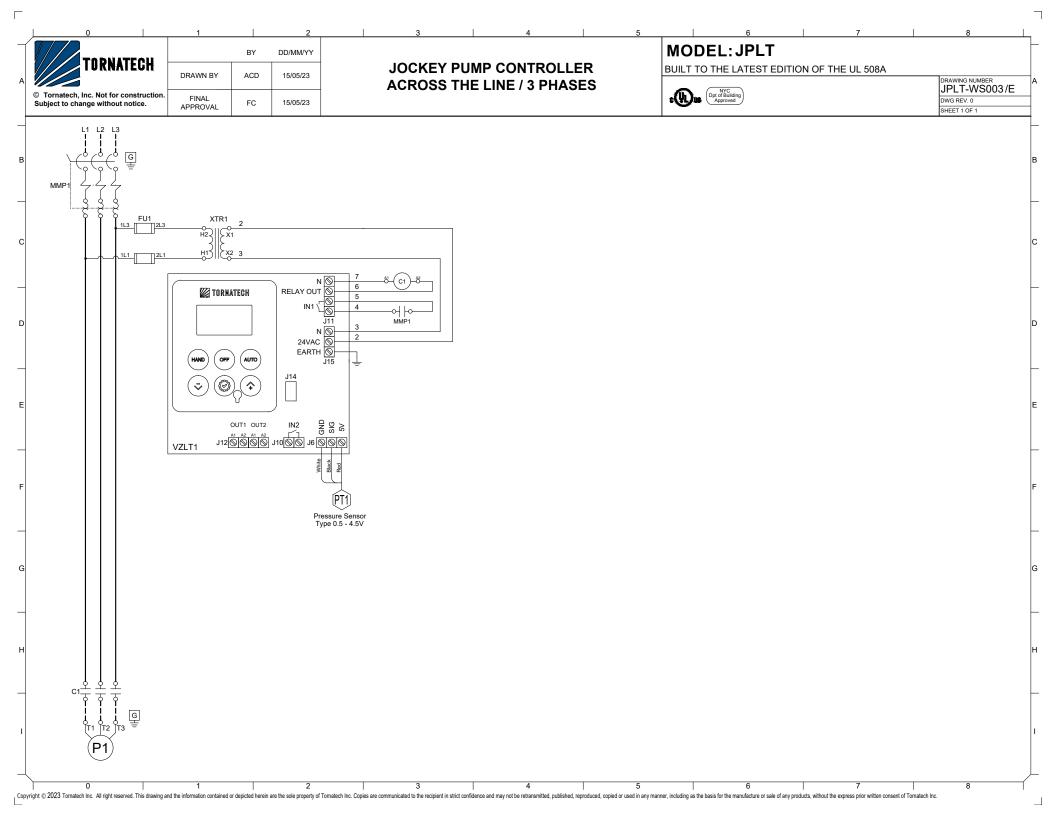
- Standard NEMA: NEMA 2
- Standard Paint: Textured Red RAL 3002.
- All Dimensions are in Inches [Millimeters]
- Use Watertight Conduit and Connector Only.
- Protect Equipment Against Drilling Chips.
- Door Swing Equal to Door Width

Drawing for information only.

Manufacturer reserves the right to modify this drawing without notice.

Contact manufacturer for "As Built" drawing.

\*Dimensions may change depending on option required. Consult Factory for exact dimensions.





# JOCKEY PUMP CONTROLLER ACROSS THE LINE / 3 PHASES

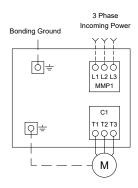
MODEL: JPLT

BUILT TO THE LATEST EDITION OF THE UL 508A



DRAWING NUMBER
JPLT-TD003/E
DWG REV. 0
SHEET 1 OF 1

#### **Power Connections and Motor Connections**



Line Terminals (L1,L2,L3,GND)										
	Ma	aximum Motor Horse	power	Wire Size Copper Only	_					
200-208V	220-240V	380-416V	440-480V	575-600V	wife Size Copper Only	Torque	Wire Size Ground Copper Only			
7.5HP	10HP	15HP	20HP	25HP	#14 AWG - #8 AWG	2.5 Nm	#14 AWG - #2 AWG			

Motor Terminals (T1,T2,T3,GND)										
	Ma	aximum Motor Horse	power			Wire Size Ground Copper Only				
200-208V	220-240V	380-416V	440-480V	575-600V	Wire Size Copper Only	Torque	wife Size Ground Copper Only			
3HP	4HP	5.5HP	7.5HP	10HP	#14 AWG - #10 AWG	1.7 Nm	#14 AWG - #2 AWG			
7.5HP	10HP	15HP	20HP	25HP	#14 AWG - #8 AWG	2.5 Nm	#12 AWG - #2 AWG			