TORNATECH

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

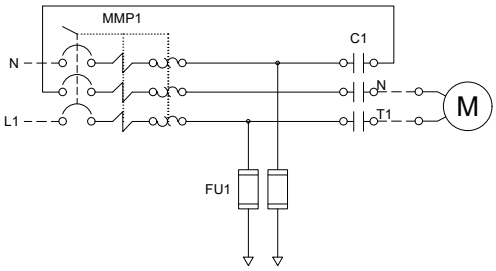
Note: The drawings included in this package are for controllers covered under our standard offering. Actual AS BUILT drawings may differ from what is shown in this package.

c UL us N.Y.C. APPROVED CE OPTIONAL

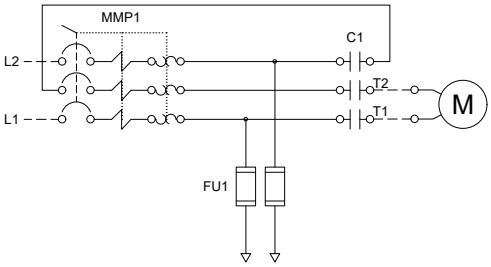
October 2025

Select Incoming Voltage

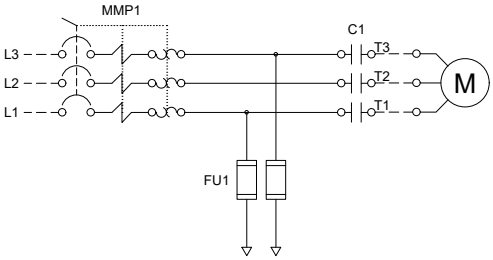
☐ 110-120V/1Phase



☐ 200-240V/1Phase



☐ 200-600V/3Phase



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OPTIONAL

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Select voltage and power rating

Voltage	Select Voltage	HP	Select HP
120V/1ph/60Hz[1]	☐	0.25	☐
200V/1ph/60Hz[2]	☐	0.33	☐
208V/1ph/60Hz[2]	☐	0.5	☐
220V/1ph/60Hz[2]	☐	0.75	☐
230V/1ph/60Hz[2]	☐	1	☐
240V/1ph/60Hz[2]	☐	1.5	☐
200V/3ph/50-60Hz[3]	☐	2	☐
208V/3ph/50-60Hz[3]	☐	3	☐
220V/3ph/50-60Hz[4]	☐	5	☐
230V/3ph/50-60Hz[4]	☐	7.5	☐
240V/3ph/50-60Hz[4]	☐	10	☐
380V/3ph/50-60Hz[5]	☐	15	☐
400V/3ph/50-60Hz[5]	☐	20	☐
415V/3ph/50-60Hz[5]	☐	25	☐
440V/3ph/50-60Hz[6]	☐		
460V/3ph/50-60Hz[6]	☐		
480V/3ph/50-60Hz[6]	☐		
575V/3ph/60Hz[7]	☐		
600V/3ph/60Hz[7]	☐		

Notes: [1] Maximum power rating is 5HP.
[2] Maximum power rating is 10HP.
[3] Maximum power rating is 7.5HP.
[4] Maximum power rating is 10HP.
[5] Maximum power rating is 15HP.
[6] Maximum power rating is 20HP.
[7] Maximum power rating is 25HP.

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

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Short circuit current rating

	Voltage						
	Single Phase		Three Phase				
HP	110 - 120V	200 - 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

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Fuseless Motor Starter	• Type -F fuse-less magnetic motor starter • Rotary handle, padlockable • Door interlocked		
Control Circuit	• 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	• H-O-A position • System pressure • Cut-out and Cut-In pressure setting • Manual motor run • Automatic motor run • Motor overload (occured) • Pump start counter • Elapsed time meter (hours / non-resettable)		
Timers	• Minimum run timer (off delay) • Delay start timer (on delay) • Visual countdown		
Counters	• Pump start counter • Elapsed timer meter (hours / non-resettable)		
Operators	• Main disconnect handle • HAND-OFF-AUTO pushbuttons • MENU navigation pushbuttons		
Operation	Automatic Start	Start on pressure drop	
	Manual Start	Start pushbutton	
	Stopping	Stop pushbutton	
	Timers	Field adjustable & visual countdown	• Minimum run timer (off delay) • Delay start timer (on delay)

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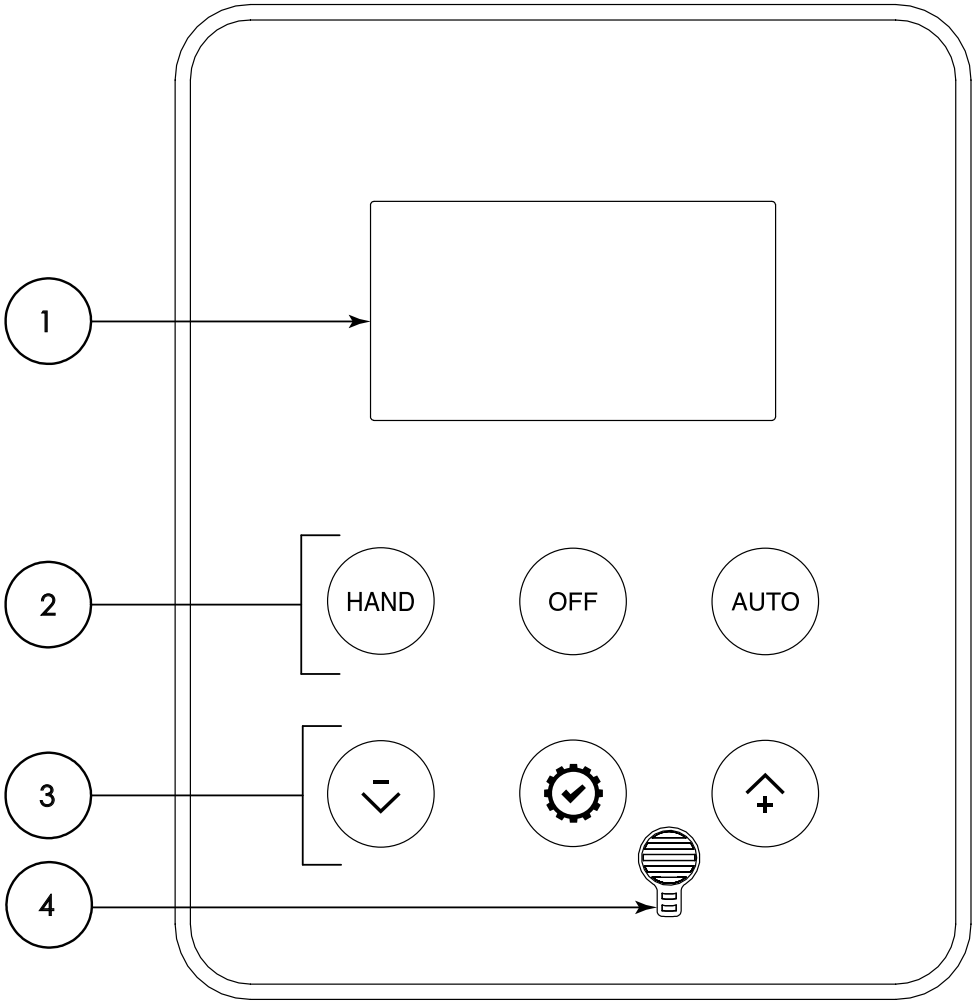
☐ A5	Motor run alarm contact
☐ A6	Loss of power alarm contact
☐ A7	Overload or short circuit alarm contact
☐ D11D	Pressure transducer 0-600psi with ½" MNPT 316 stainless steel bushing
☐ D13A	Externally mounted wetted parts
☐ D18	Audible alarm
☐ D19	Anti-condensation heater and thermostat
☐ D20	Anti-condensation 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	Controller in AUTO alarm contacts
☐ D29	Controller not in AUTO 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

☐ 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
☐ L28	Finnish
☐ L29	Norwegian

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

ViZiLT Operator Interface



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

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FINAL APPROVAL	FC	15/05/23

JOCKEY PUMP CONTROLLER

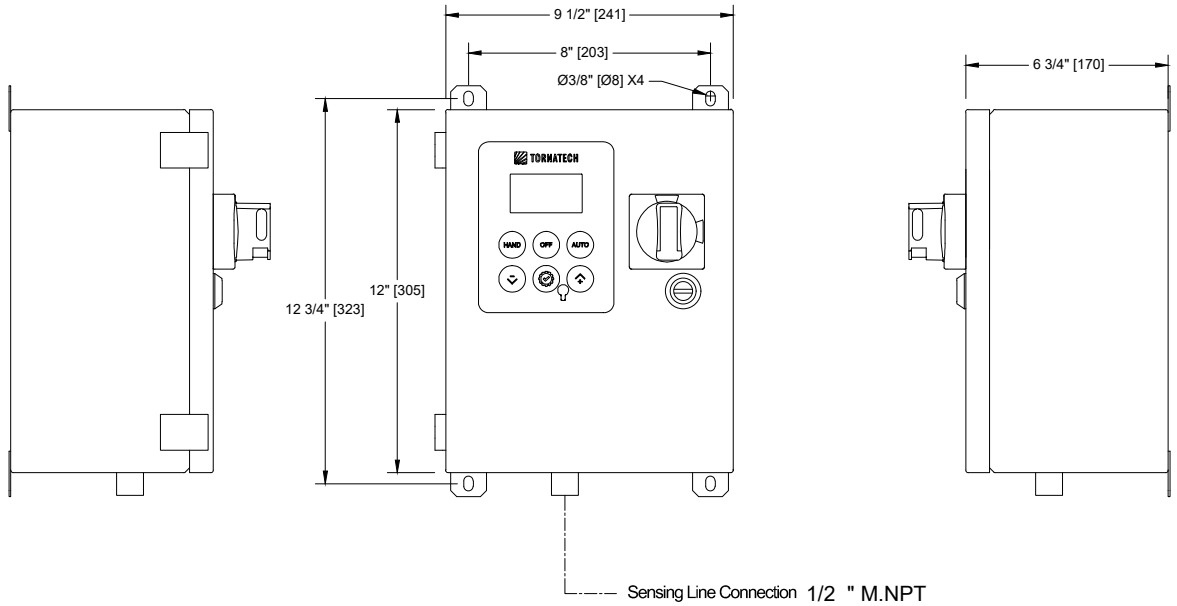
MODEL: JPLT

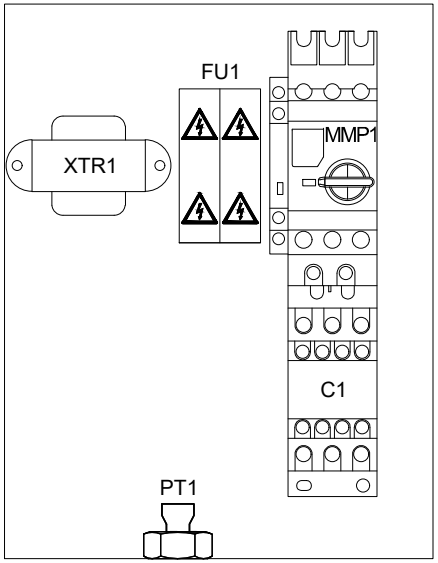
BUILT TO THE LATEST EDITION OF THE UL 508A

NYC Dpt of Building Approved

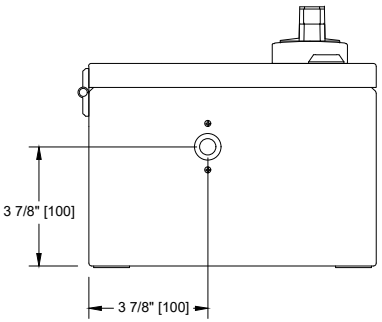
THIRD ANGLE PROJECTION

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





Standard Internal Layout



Voltage / Power Table	
Voltage	Max HP
1 Phase	
110 - 120	2
200 - 208	5
220 - 240	5
3 Phases	
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.
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Contact manufacturer for "As Built" drawing.
*Dimensions may change depending on option required. Consult Factory for exact dimensions.

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JOCKEY PUMP CONTROLLER ACROSS THE LINE / 3 PHASES

MODEL: JPLT

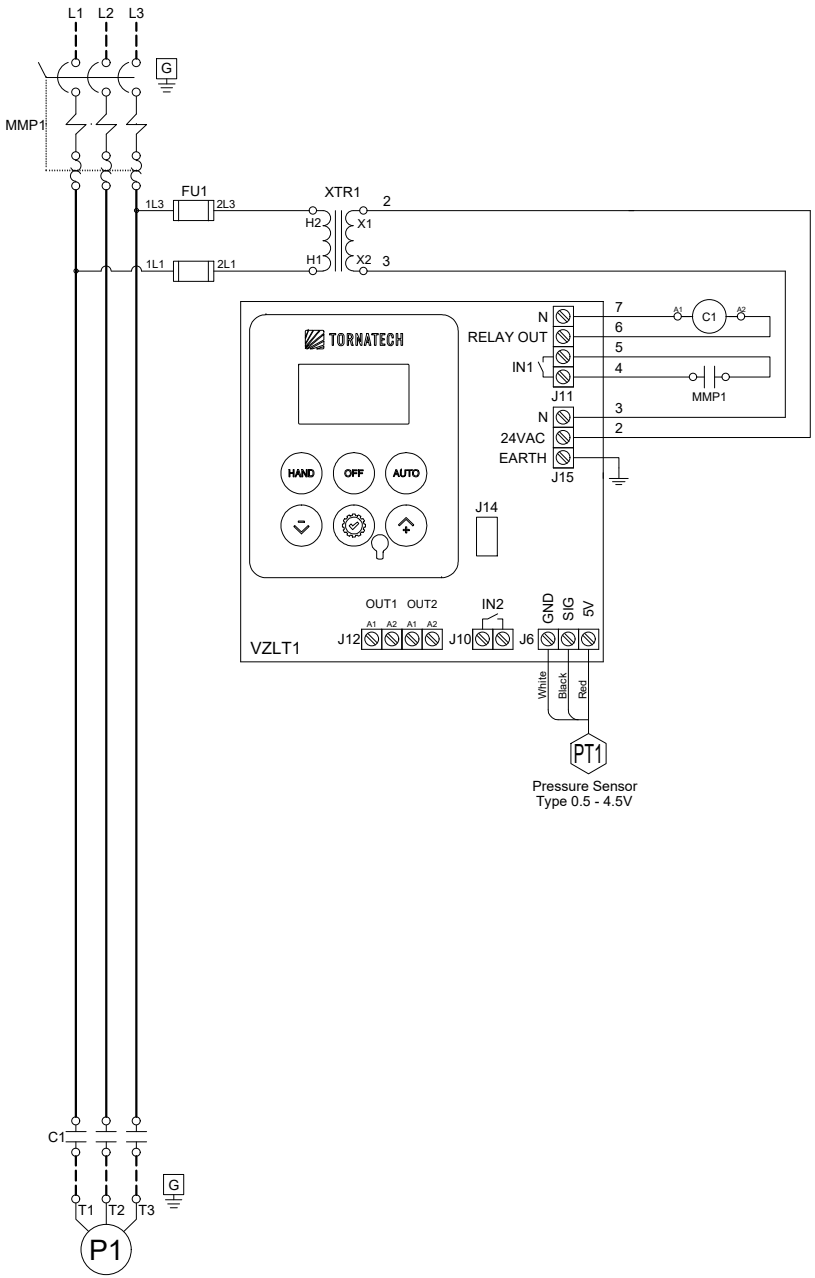
BUILT TO THE LATEST EDITION OF THE UL 508A

NYC Dpt of Building Approved

DRAWING NUMBER JPLT-WS003/E

DWG REV. 0

SHEET 1 OF 1



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JOCKEY PUMP CONTROLLER ACROSS THE LINE / 3 PHASES

MODEL: JPLT

BUILT TO THE LATEST EDITION OF THE UL 508A

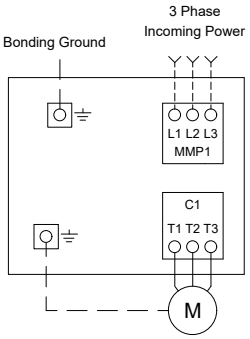
NYC Dpt of Building Approved

DRAWING NUMBER JPLT-TD003/E

DWG REV. 0

SHEET 1 OF 1

Power Connections and Motor Connections



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

Motor Terminals (T1,T2,T3,GND)							
Maximum Motor Horsepower					Wire Size Copper Only	Torque	Wire Size Ground Copper Only
200-208V	220-240V	380-416V	440-480V	575-600V			
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

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