

Project:	
Customer:	
Engineer:	
Pump Manufacturer:	

Technical Data Submittal Document

# **Model JPD**

Across the Line Start Duplex 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.

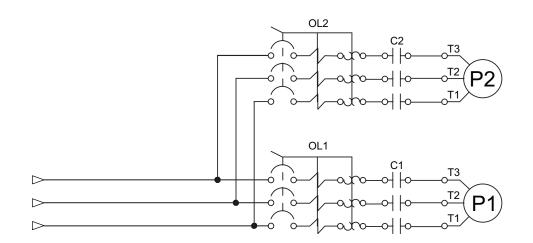




August 2020



## Technical Data Model JPD Duplex Jockey Pump Controller





OPTIONAL

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



Fuseless Duplex	Main disconnect - rotary type - door interlocked					
Motor Starter	<ul><li>Thermo-magnetic motor protectors</li><li>Contactors</li></ul>					
Control Circuit	• 24V.AC	• 24V.AC				
<i>iPD</i> + Operator Interface	<ul> <li>Solid state controls</li> <li>All adjustments on door front</li> <li>Navigation pushbuttons</li> </ul>					
Pressure Sensing	<ul> <li>Pressure transducer for fresh water application 316 stainless steel construction</li> <li>Rated for 0-600psi working pressure</li> <li>Pressure sensing line connection 1/2" brass Male NPT</li> </ul>					
Visual Indications	<ul> <li>Manual motor start/run LED</li> <li>Automatic motor start/run LED</li> <li>Pressure reading <ul> <li>Start pressure</li> <li>Stop pressure</li> <li>System pressure</li> <li>System pressure diagnostic LED's</li> <li>Green: system pressure at or above stop pressure</li> <li>Yellow: system pressure between start and stop pressure</li> <li>Red: system pressure at or below start pressure</li> </ul> </li> <li>AUTO mode</li> <li>OFF mode</li> </ul>					
Timers	<ul> <li>Minimum run timer (off delay)</li> <li>Delay start timer (on delay)</li> <li>Visual countdown</li> </ul>					
Operators	<ul> <li>OFF-AUTO pushbutton</li> <li>Start and Stop pushbutton</li> <li>Four (4) position selector switch (P1, P2, P1+P2, AUTO)</li> </ul>					
	Automatic Start	Start on pressure drop				
	Manual Start	Start pushbutton				
Onesting	Stopping	Stop pushbutton				
Operation	Timers	Field adjustable & visual countdown	<ul> <li>Minimum run timer (off delay)</li> <li>Delay start timer (on delay)</li> </ul>			
	Lead / Stand-by	Full redundancy, next pump start, in case of short circuit or overload				
	Alternation	After every start/stop				



## **Technical Data** Model JPD Duplex Jockey Pump Controller

□ A4	Elansed time meter (time totalizar)
□ A4 □ A5	Elapsed time meter (time totalizer)
	Motor run alarm contact
□ A6	Loss of power alarm contact
□ A7	Overload or short circuit alarm contact
□ A7A	Overload pilot light
🗆 D11D	Pressure transducer 0-600psi with ½" MNPT 316 stainless steel bushing
□ D12	CE Mark c/w externally mounted wetted parts
□ 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	Controller in auto alarm contacts
🗆 D29	Controller in off alarm contacts
□ D30	Motor heater circuit
□ D32	Service entrance rated - 100kA short circuit withstand rating: • 120V/1ph (0.5hp max.) • 240V/1ph (1hp max.) • 200V-208V - 60hz (2hp max.) • 220V-240V - 60hz (3hp max.) • 380V-416V - 50hz - 60hz (5hp max.) • 440V-480V - 60hz (5hp max.)
□ D33	Service entrance rated - 65kA short circuit withstand rating: • 120V/1ph (0.5hp max.) • 240V/1ph (1hp max.) • 200V-208V - 60hz (3hp-15hp max.) • 220V-240V - 60hz (515hp max.) • 380V-416V - 50hz - 60hz (7.5hp - 40hp max.) • 440V-480V - 60hz (7.5hp-40hp max.)
□ D34	Service entrance rated - 42kA short circuit withstand rating: • 600V - 60hz (7.5hp max.)

🗆 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

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



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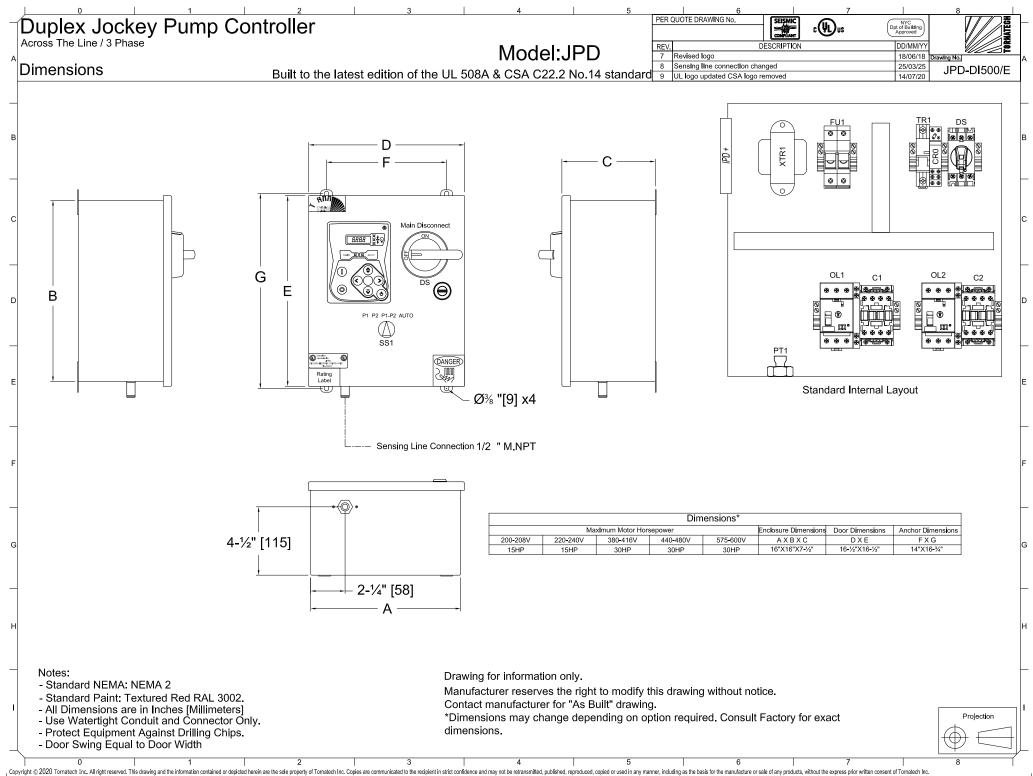
#### *iPD*+ Operator Interface

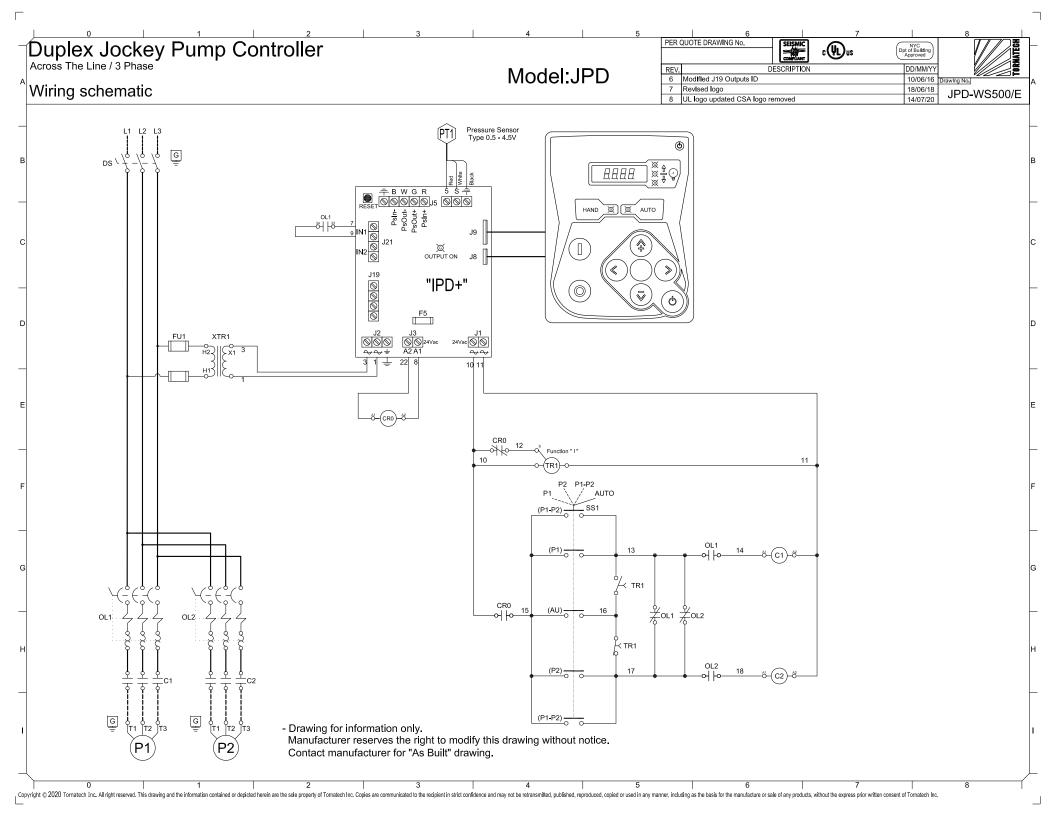


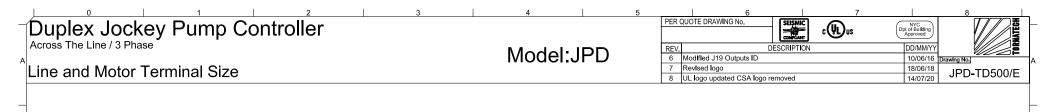
9 - ON - OFF pushbutton

4 - Hand start LED

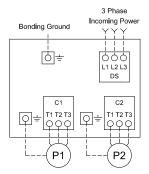
5 - START pushbutton







#### Power Connections and Motor Connections



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Line Terminals (L1,L2,L3,GND)							
Maximum Motor Horsepower							
200-208V	220-240V	380-416V	440-480V	575-600V	Wire Size Copper Only	Torque	Wire Size Ground Copper Only
2x5HP	2x5HP	2x10HP	2x10HP	2x10HP	#14 AWG - #6 AWG	2 Nm	#14 AWG - #2 AWG
2x15HP	2x15HP	2x30HP	2x30HP	2x30HP	#12 AWG - #1 AWG	6 Nm	#6 AWG - #2 AWG

	Motor Terminals (T1,T2,T3,GND)							
Maximum Motor Horsepower					Wire Size Ground Copper Only			
200-208V	220-240V	380-416V	440-480V	575-600V	Wire Size Copper Only	Torque	whe size sround copper only	
5HP	7.5HP	10HP	15HP	20HP	#14 AWG - #10 AWG	1.8 Nm	#14 AWG - #2 AWG	
10HP	10HP	15HP	20HP	25HP	#14 AWG - #6 AWG	2.5 Nm	#12 AWG - #2 AWG	
15HP	15HP	30HP	30HP	30HP	#10 AWG - #3 AWG	5 Nm	#12 AWG - #2 AWG	

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