

Project:	
Customer:	
Engineer:	
Pump Manufacturer:	

# Technical Data Submittal Document

# **Model JPY**

Wye-Delta Open Transition 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.



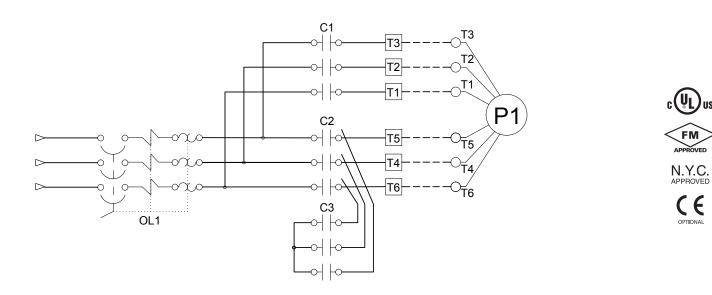








# **Model JPY Jockey Pump Controller**



	Underwriters Laboratory (UL)	UL508A - Industrial Pump Controllers		
l indian	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		
Enclosure	□ NEMA 3 □ NEMA 3R	NEMA 4X-304 sst painted NEMA 4X-304 sst brushed finish NEMA 4X-316 sst painted NEMA 4X-316 sst brushed finish		
	• Wall mounting lugs (x4)	Paint Specifications • Red RAL3002 • Powder coating • Glossy textured finish		



Wye-Delta Open Transition Fuseless Motor Starter	<ul> <li>Main disconnect - rotary type - door interlocked</li> <li>Thermo-magnetic motor protector</li> <li>Wye-delta open transition contactor set</li> </ul>			
Control Circuit	• 24V.AC			
<i>iPD</i> + Operator Interface	<ul><li>Solid state controls</li><li>All adjustments on door fro</li><li>Navigation pushbuttons</li></ul>	ont		
Pressure Sensing	<ul> <li>Pressure transducer for free</li> <li>Rated for 0-600psi working</li> <li>Pressure sensing line control</li> </ul>	g pressure		
Visual Indications	<ul> <li>Manual motor start/run LED</li> <li>Automatic motor start/run LED</li> <li>Motor overload</li> <li>Pressure reading <ul> <li>Start pressure</li> <li>Stop pressure</li> <li>System pressure</li> </ul> </li> <li>System pressure diagnostic LED's <ul> <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	Minimum run timer (off delay)     Delay start timer (on delay)     Visual countdown			
Counters	Pump start counter     Elapsed timer meter (hours / non-resettable)			
Operators	OFF-AUTO pushbutton     Start and Stop pushbutton			
	Automatic Start	Start on pressure drop		
Onerstiss	Manual Start	Start pushbutton		
Operation	Stopping	Stop pushbutton		
	Timers	Field adjustable & visual countdown	Minimum run timer (off delay)     Delay start timer (on delay)	



# **Model JPY Jockey Pump Controller**

□ A4	Elapsed time meter (time totalizer)
□ A5	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.)

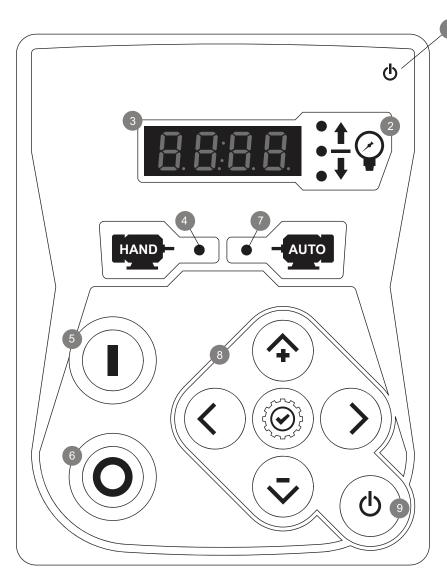
□ L01         Other language and English (bilingual)           □ L02         French           □ L03         Spanish           □ L04         German           □ L05         Italian           □ L06         Polish           □ L07         Romanian           □ L08         Hungarian           □ L09         Slovak           □ L10         Croatian           □ L11         Czech           □ L12         Portuguese           □ L13         Dutch           □ L14         Russian           □ L15         Turkish           □ L16         Swedish           □ L17         Bulgarian           □ L18         Thai           □ L19         Indonesian           □ L20         Slovenian		
□ 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	□ L01	Other language and English (bilingual)
□ 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	□ L02	French
□ 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	□ L03	Spanish
□ 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	□ L04	German
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□ L10       Croatian         □ L11       Czech         □ L12       Portuguese         □ L13       Dutch         □ L14       Russian         □ L15       Turkish         □ L16       Swedish         □ L17       Bulgarian         □ L18       Thai         □ L19       Indonesian	□ L08	Hungarian
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□ L17 Bulgarian □ L18 Thai □ L19 Indonesian	□ L15	Turkish
□ L18 Thai □ L19 Indonesian	□ L16	Swedish
L19 Indonesian	□ L17	Bulgarian
	□ L18	Thai
☐ L20 Slovenian	□ L19	Indonesian
	□ L20	Slovenian

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

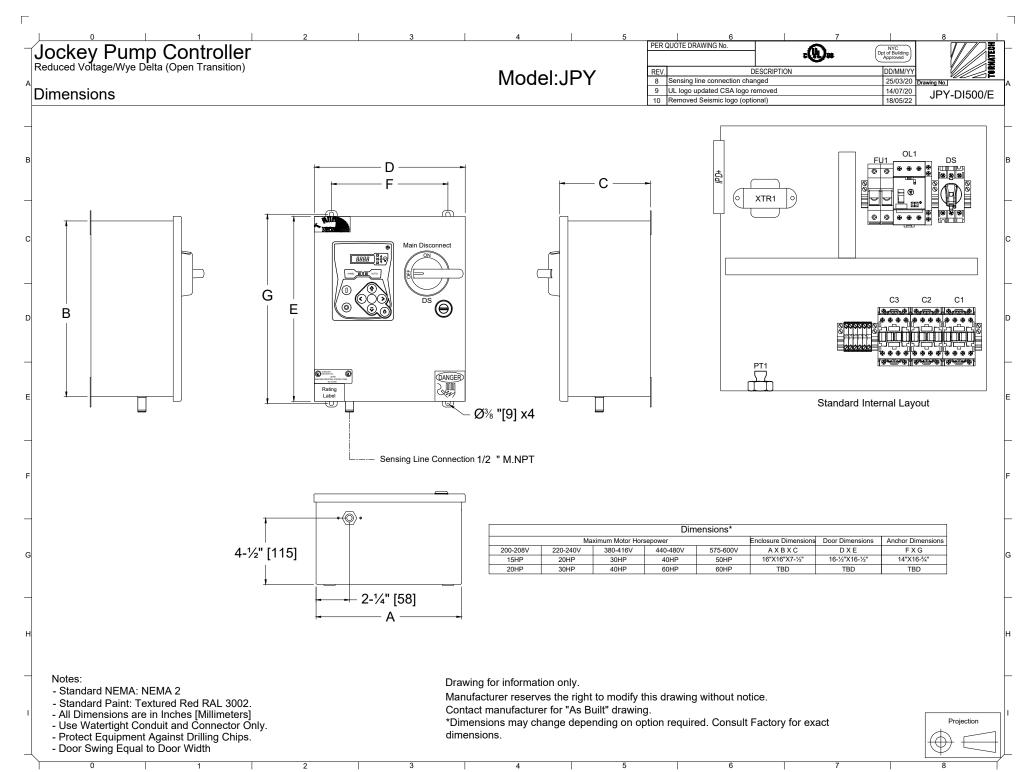


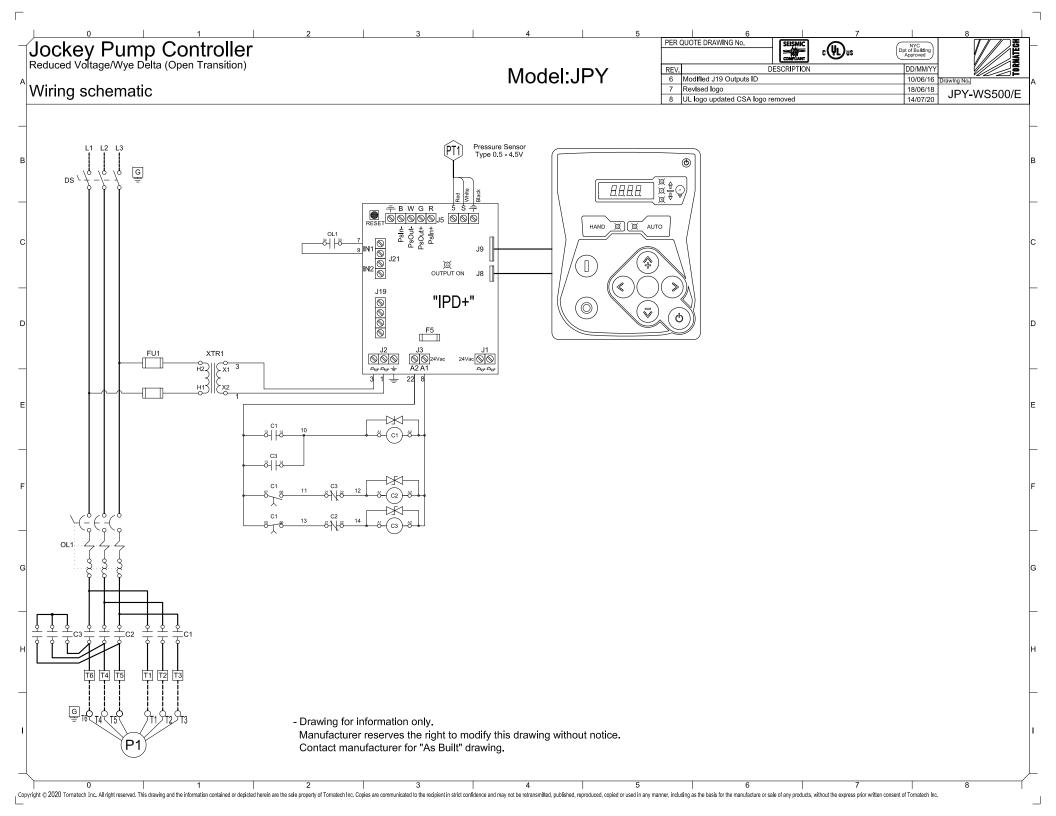
# **Model JPY Jockey Pump Controller**

### *iPD*+ Operator Interface



- 1 Power on LED
- 2 System status LED
- 3 Digital display
- 4 Hand start LED
- 5 START pushbutton
- 6 STOP pushbutton
- 7 Auto start LED
- 8 Navigation keypad
- 9 ON OFF pushbutton





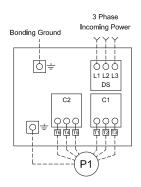
# Jockey Pump Controller Reduced Voltage/Wye Delta (Open Transition)

### Line and Motor Terminal Size

# Model:JPY

c (Y) us (Dpt of Building Approved)	WATE
REV. DESCRIPTION DD/MM/YY	
6 Modified J19 Outputs ID 10/06/16 Drawing No.	
7 Revised logo 18/06/18 JPY-TD50	0/⊏
8 UL logo updated CSA logo removed 14/07/20 JF 1-1 D30	U/ E

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



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
10HP	10HP	20HP	20HP	25HP	#14 AWG - #6 AWG	2 Nm	#14 AWG - #2 AWG
20HP	30HP	40HP	60HP	60HP	#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	Wife Size Ground Copper Only
10HP	10HP	15HP	20HP	25HP	#14 AWG - #10 AWG	1.8 Nm	#14 AWG - #2 AWG
15HP	20HP	30HP	40HP	50HP	#14 AWG - #6 AWG	2.5 Nm	#12 AWG - #2 AWG
20HP	30HP	40HP	60HP	60HP	#10 AWG - #3 AWG	5 Nm	#12 AWG - #2 AWG