

Project:	
Customer:	
Engineer:	
Pump Manufacturer:	
i dilip manaratarat	

Technical Data Submittal Document

Model JP2 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.



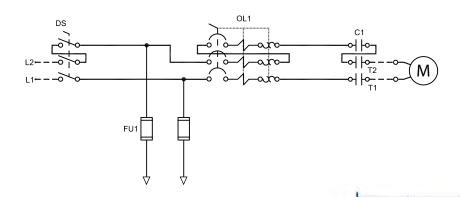








Technical Data Model JP2 Jockey Pump Controller











Full load current

80

100

60

Starting Method: Full Voltage

Across the line (Direct on line)

Typical Voltage Applied at Start: 100% Inrush Current: 6 x normal load current

Starting Torque: 100%

Motor Type: Across the line (Direct on line) **No. of Contactors:** 1 at 100% of horsepower

Min. ampacity of motor conductors: 3 at 125% x 100% of Full load Current (FLC)

	Underwriters Laboratory (UL)	UL508A - Industrial Pump Controllers	
	CSA	CSA C22.2 No. 14 Industrial Control Equipment	
Listing	New York City	Accepted for use in the City of New York by the Department of Buildings	
	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 	
	Accessories • Wall mounting lugs (x4)	Paint Specifications • Red RAL3002 • Powder coating • Glossy textured finish	

600

450 300

150

Locked rotor current

20

40

Percent of motor speed (%)

Line current % of full load

Fuseless Motor Starter	Main disconnect – rotary type - door interlocked Thermo-magnetic motor protector Contactor		
Control Circuit	• 24V.AC		
iPD+ Operator Interface	Solid state controls All adjustments on door front Navigation pushbuttons		
Pressure Sensing	Pressure transducer for fresh water application 316 stainless steel construction Rated for 0-600psi working pressure Pressure sensing line connection ½" Male NPT		
Visual Indications	Manual motor start/run LED Automatic motor start/run LED Motor overload Pressure reading Start pressure Stop pressure System pressure System pressure Green: system pressure at or above stop pressure Yellow: system pressure between start and stop pressure Red: system pressure at or below start pressure AUTO mode OFF mode		
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	atic Start Start on pressure drop	
	Manual Start	Start pushbutton	
Operation	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	
□ 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	Selector switch in auto alarm contacts	
□ D29	Selector switch 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

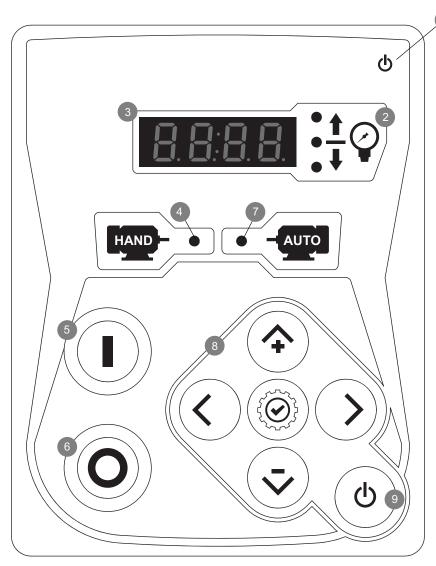
Note: Options chosen from this page are not electrically represented on the wiring schematics in this submittal package.



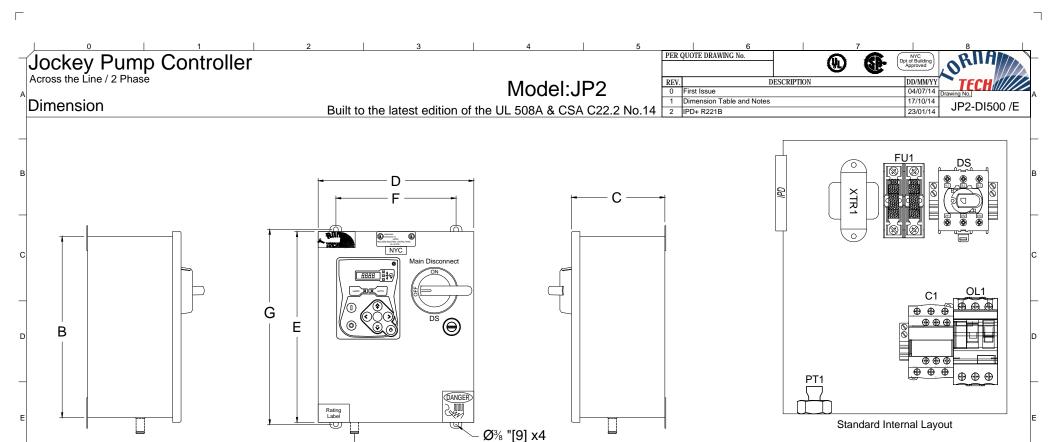
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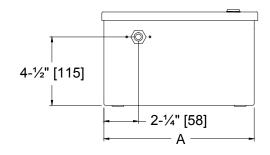
(iPD+)

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





Sensing Line

Connection

1/4 " M.NPT

Dimension*				
Maximum Motor Horsepower @	Dimension Enclosure	Dimension Door	Dimension Anchor	
220-240V	AXBXC	DXE	FXG	
2HP	10"X12"X6-1/2"	10-%"X12-%"	8"X12-3/4"	
3HP	10"X12"X6-1/2"	10-%"X12-%"	8"X12-3/4"	
5HP	10"X12"X6-1/2"	10-%"X12-%"	8"X12-3/4"	
10HP	16"X16"X7-1/2"	16-1/2"X16-1/2"	14"X16-¾"	
15HP	TBD	TBD	TBD	

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.
- -*Dimension may change depending on option required. Consult Factory for exact dimensions.



