



TORNATECH

Project: _____

Customer: _____

Engineer: _____

Pump Manufacturer: _____

Technical Data Submittal Document

Model JFY

Wye-Delta Open Transition Start
Jockey Pump Controller



Contents:

Data Sheets

Dimensional Data

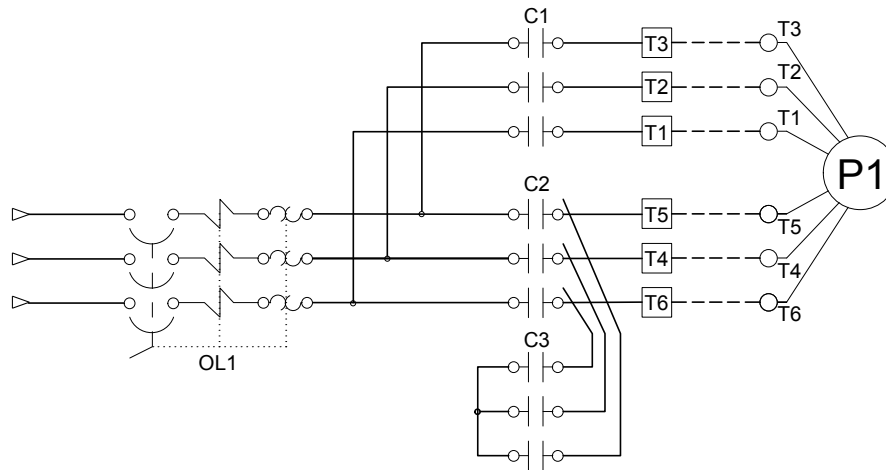
Wiring Schematics

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.



April 2020



Enclosure	Protection Rating Standard: IP55	
	Accessories • Wall mounting lugs (x4)	Paint Specifications • Red RAL3002 • Powder coating • Glossy textured finish
Fuseless Motor Starter	<ul style="list-style-type: none"> • Main disconnect – padlockable – rotary type handle – door interlocked • Thermo-magnetic motor protector • Contactor 	
Control Circuit	• 24V.AC	
iPD+ Operator Interface	<ul style="list-style-type: none"> • Solid state controls • All adjustments on door front • Navigation pushbuttons 	
Pressure Sensing	<ul style="list-style-type: none"> • 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 style="list-style-type: none"> • Manual motor start/run LED • Automatic motor start/run LED • Motor overload • Pressure reading <ul style="list-style-type: none"> • Start pressure • Stop pressure • System pressure • System pressure diagnostic LED's <ul style="list-style-type: none"> • 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 	



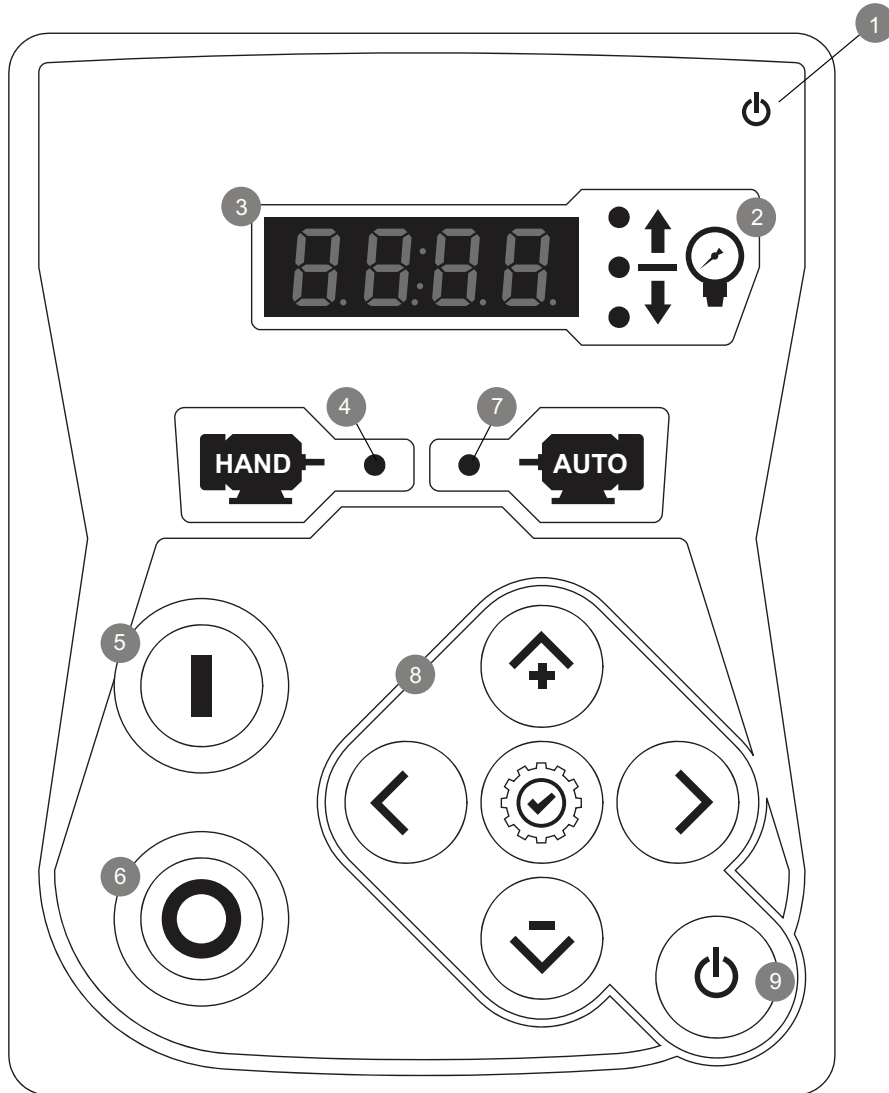
Timers	<ul style="list-style-type: none"> • Minimum run timer (off delay) • Delay start timer (on delay) • Visual countdown 		
Counters	<ul style="list-style-type: none"> • Pump start counter • Elapsed timer meter (hours / non-resettable) 		
Operators	<ul style="list-style-type: none"> • OFF-AUTO pushbutton • Start and Stop pushbutton 		
Operation	Automatic Start	Start on pressure drop	
	Manual Start	Start pushbutton	
	Stopping	Stop pushbutton	
	Timers	Field adjustable & visual countdown	<ul style="list-style-type: none"> • Minimum run timer (off delay) • Delay start timer (on delay)

Options

<input type="checkbox"/> A5	Motor run alarm contact
<input type="checkbox"/> A6	Loss of power alarm contact
<input type="checkbox"/> A7	Overload or short circuit alarm contact
<input type="checkbox"/> D11D	Pressure transducer 0-600psi with 1/2" MNPT 316 stainless steel bushing
<input type="checkbox"/> D15	Less pressure transducer - provision to connect pressure switch (pressure switch by others)
<input type="checkbox"/> D18	Audible alarm
<input type="checkbox"/> D19	Anti-condensation heater and thermostat
<input type="checkbox"/> D20	Anti-condensation heater and humidistat
<input type="checkbox"/> D21	Tropicalization

<input type="checkbox"/> L01	Other language and English (bilingual)
<input type="checkbox"/> L02	French
<input type="checkbox"/> L03	Spanish
<input type="checkbox"/> L04	German
<input type="checkbox"/> L05	Italian
<input type="checkbox"/> L06	Polish
<input type="checkbox"/> L07	Romanian
<input type="checkbox"/> L08	Hungarian
<input type="checkbox"/> L09	Slovak
<input type="checkbox"/> L10	Croatian
<input type="checkbox"/> L11	Czech
<input type="checkbox"/> L12	Portuguese
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<input type="checkbox"/> L18	Thai
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<input type="checkbox"/> L21	Danish
<input type="checkbox"/> L22	Greek
<input type="checkbox"/> L23	Arabic
<input type="checkbox"/> L24	Hebrew
<input type="checkbox"/> L25	Chinese

iPD+ Operator Interface



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

Jockey Pump Controller

Reduced Voltage/Wye Delta (Open Transition)

Model: JFY

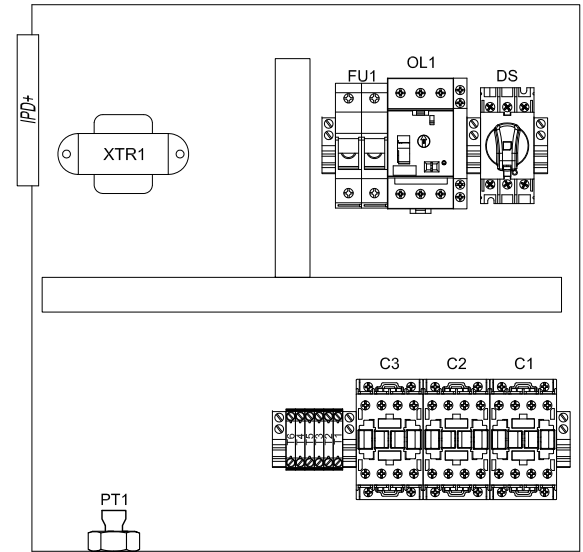
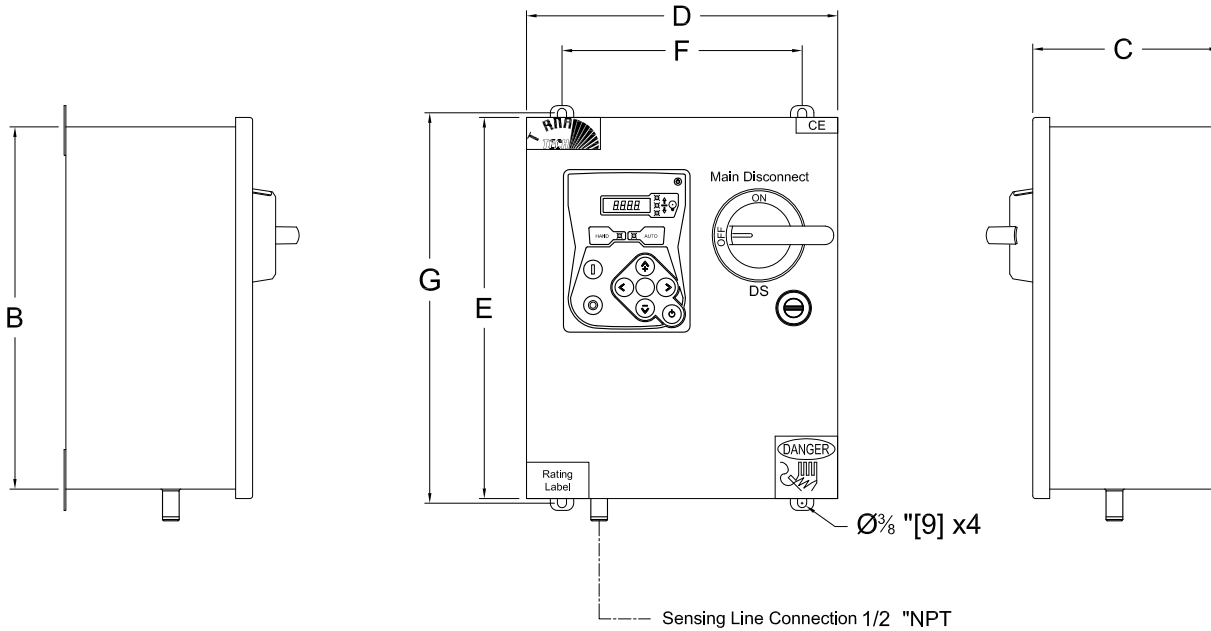
PER QUOTE DRAWING No.



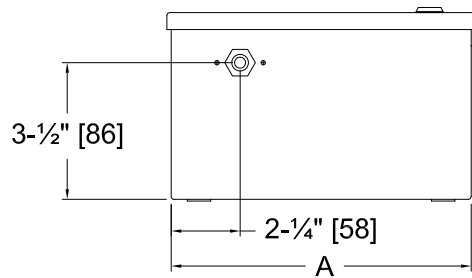
REV.	DESCRIPTION	DD/MM/YY
0	First Issue	08/01/16
1	Revised logo	18/06/18
2	Dimension Revision	02/06/23

Drawing No:
JFY-DI500/E

Dimensions



Standard Internal Layout



Dimensions*					Enclosure Dimensions	Door Dimensions	Anchor Dimensions
Maximum Motor Power							
200-208V	220-240V	380-416V	440-480V	575-600V	A X B X C	D X E	F X G
11kW	15kW	22kW	30kW	37kW	406X406X191	419X419	356X426
15kW	22kW	30kW	45kW	45kW	TBD	TBD	TBD

Notes:

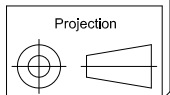
- Standard IP: IP 55
- Standard Paint: Textured Red RAL 3002.
- All Dimensions are in Millimeters [Inches]
- Use Watertight Conduit and Connector Only.
- Protect Equipment Against Drilling Chips.
- Door Swing Equal to Door Width

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

Reduced Voltage/Wye Delta (Open Transition)

Model:JFY

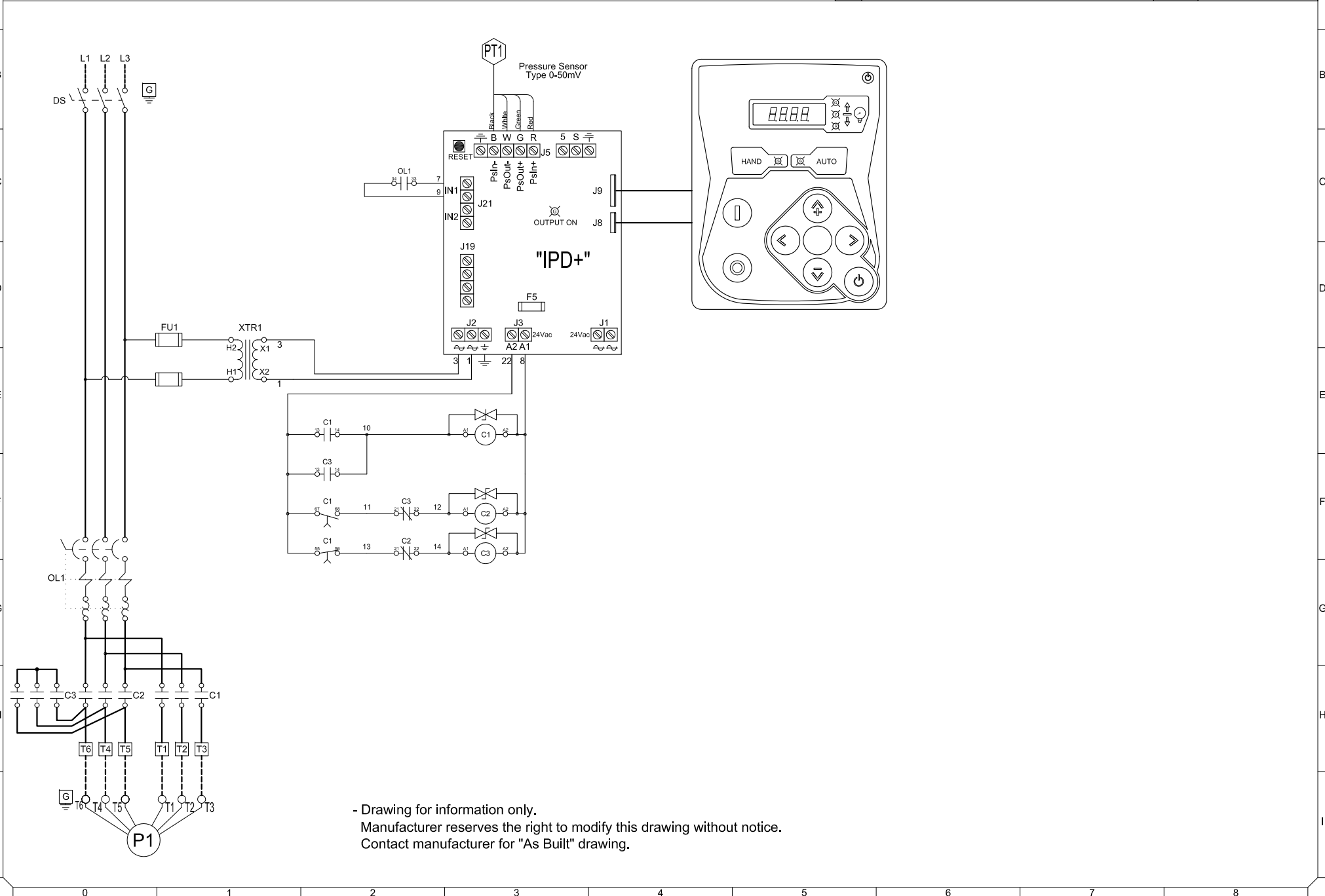
PER QUOTE DRAWING No.



REV.	DESCRIPTION	DD/MM/YY
0	First Issue	08/01/16
1	Revised logo	18/06/18

Drawing No:
JFY-WS500/E

Wiring schematic



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

Jockey Pump Controller

Reduced Voltage/Wye Delta (Open Transition)

Model:JFY

PER QUOTE DRAWING No.

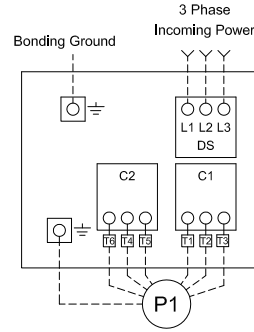


REV.	DESCRIPTION	DD/MM/YY
0	First Issue	08/01/16
1	Revised logo	18/06/18

Drawing No:
JFY-TD500/E

Line and Motor Terminal Size

Power Connections and Motor Connections



Line Terminals (L1,L2,L3,GND)

Maximum Motor Power					Wire Size Copper Only	Torque	Wire Size Ground Copper Only
200-208V	220-240V	380-416V	440-480V	575-600V			
7.5kW	7.5kW	15kW	15kW	18.5kW	2.5 mm ² - 16 mm ²	2 Nm	2.5 mm ² - 35 mm ²
15kW	22kW	30kW	45kW	45kW	4 mm ² - 50 mm ²	6 Nm	16 mm ² - 35 mm ²

Motor Terminals (T1,T2,T3,GND)

Maximum Motor Power					Wire Size Copper Only	Torque	Wire Size Ground Copper Only
200-208V	220-240V	380-416V	440-480V	575-600V			
7.5kW	7.5kW	11kW	15kW	18.5kW	2.5 mm ² - 6 mm ²	1.8 Nm	2.5 mm ² - 35 mm ²
11kW	15kW	22kW	30kW	37kW	2.5 mm ² - 16 mm ²	2.5 Nm	4 mm ² - 35 mm ²
15kW	22kW	30kW	45kW	45kW	6 mm ² - 25 mm ²	5 Nm	4 mm ² - 35 mm ²