



PROJECT: _____

CUSTOMER: _____

ENGINEER: _____

PUMP MANUFACTURER: _____

MODEL: JP

**ACROSS THE LINE START
JOCKEY PUMP CONTROLLER**

DRAWING SUBMITTAL PACKAGE

CONTENTS:

- BROCHURE
- 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.





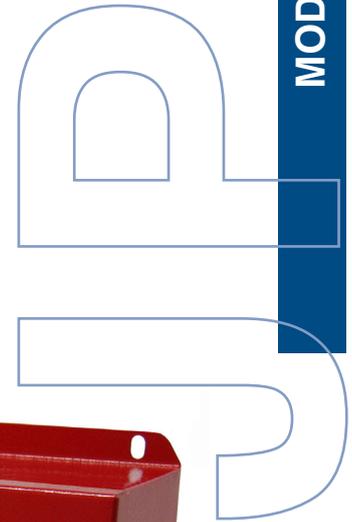
Jockey Pump Controller
Full voltage across the line starter
Micro Processor Based (Patent Pending)

N.Y.C.
 APPROVED



JP

MODEL



MAIN FEATURES:

- Easy and quick start-up and operation
- NEMA 2 enclosure
- Micro-processor based logic
- System pressure indication
- Pressure transducer
- Fuseless motor protection
- Operational temperature limits 41°F to 122°F (5°C to 50°C)

The model JP jockey pump controllers are specifically designed to control jockey pumps in order to maintain the desired water pressure in fire pump serviced systems. A jockey pump installation prevents unnecessary starting of the fire pump due to small leaks.



Individual models are specific to the voltage available on site:

- JP1: 120 V / single phase / 60Hz
- JP2: 220–240 V / single phase / 50/60Hz
- JP3: 208 to 600 V / three phase / 50/60Hz

The standard power circuit consists of a horsepower rated disconnect switch, a thermo-magnetic motor protector and a motor contactor for across the line full voltage starting. Consult factory for other types of motor protection or starting methods available.

The automatic operation of the jockey pump is achieved with an electronic pressure monitoring module which utilizes a pressure transducer as a pressure sensing device. It allows the user to digitally set the start and stop pressure values and on or off delay timers (timers are optional) if required. The module continuously displays the system pressure and, when required, the start and stop pressure settings. The system pressure reading can be viewed without opening the door of the controller.

The module also allows the user to choose the units of measure of the pressure reading in psi, bar, kPa, feet of head and meter of head.

The model JP jockey pump controllers are built in accordance to the latest Underwriters Laboratories UL508A and C.S.A C22.2 No.14 standards.



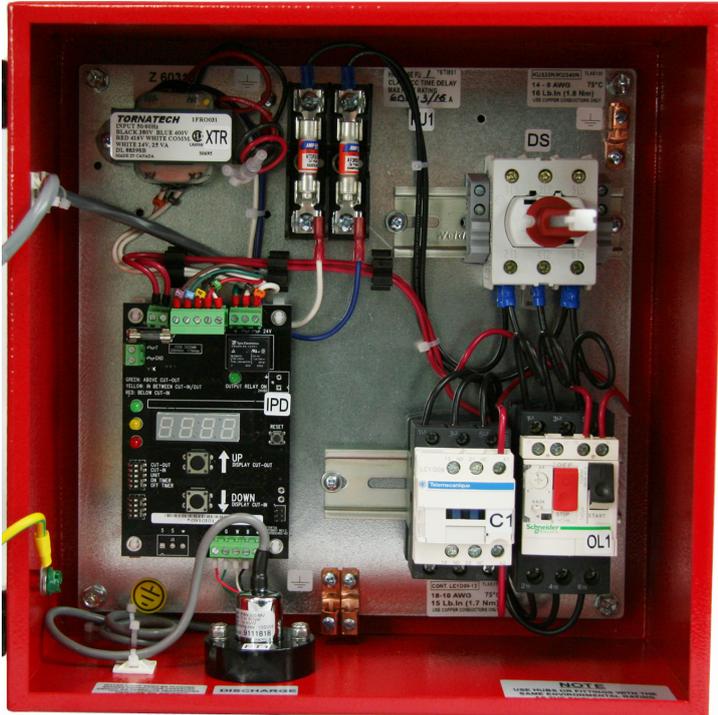
JP MODEL

Jockey Pump Controller

Full voltage across the line starter
Micro Processor Based (Patent Pending)



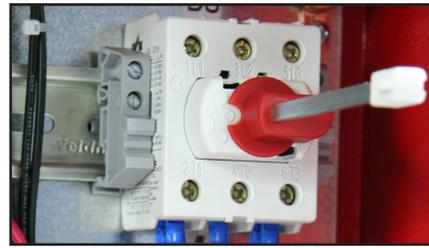
- Built-in wall mounting lugs for ease of installation



- 3 position Hand-Off Auto selector switch complete with pad-lockable cover

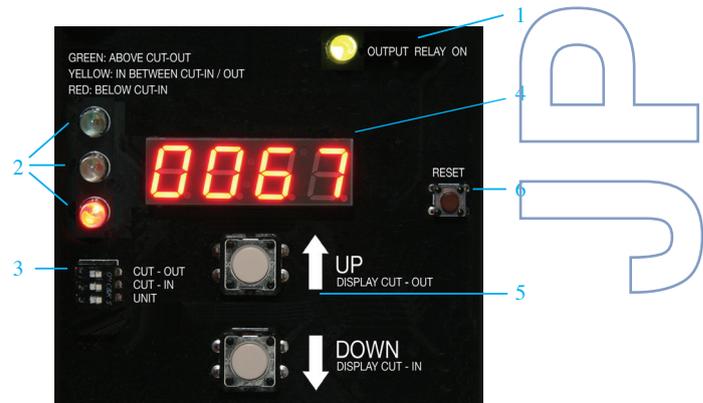


HOW TO ORDER: JPx - V/ HP/ Ph/ Hz
Ex.: JP3 - 208/ 2HP/ 3Ph/ 60



- Horsepower rated door interlocked rotary type disconnect switch

- Fuseless motor starter with thermo-magnetic motor protector and horsepower rated contactor



- System status diagnostic OUTPUT RELAY ON green LED
- System status diagnostic LED's for:
 - Green: system pressure at or above cut-out value
 - Yellow: system pressure between start cut-in and cut-out
 - Red: system pressure at or below cut-in value
- Easy to use dip-switches for field adjustable parameters
- High luminosity digital display
- Pushbuttons for setting and display of field adjustable parameters
- Reset pushbutton

- Pressure transducer with 0-300psi range and 316 stainless steel construction



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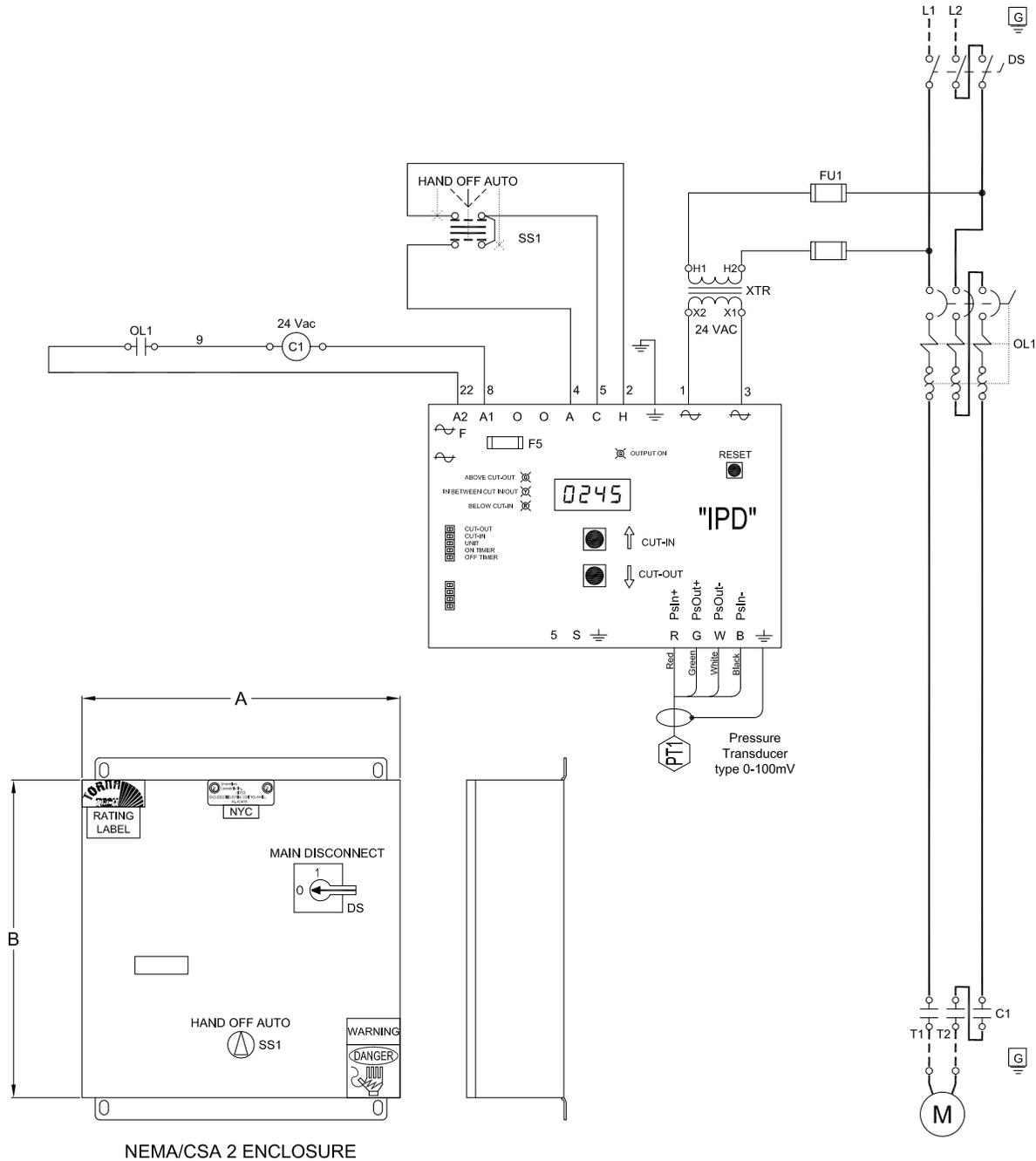
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JOCKEY PUMP CONTROLLER

MODEL : JP2

Wiring schematic

BUILT TO UL 508A & CSA C22.2 No.14 STANDARDS.



NEMA/CSA 2 ENCLOSURE

LINE TERMINALS / ENCLOSURE SIZE				
MAXIMUM MOTOR HORSEPOWER		WIRE SIZE	TORQUE	ENCLOSURE SIZE*
200-208V	220-240V	COPPER ONLY		A X B
3HP	5HP	#14 AWG - #8 AWG	16 LBS.IN	12"X12"
5HP	N/A	#12 AWG - #4 AWG	16 LBS.IN	12"X12"
10HP	15HP	#4 AWG - #1/0 AWG	50 LBS.IN	16"X16"

MOTOR TERMINALS			
MAXIMUM MOTOR HORSEPOWER		WIRE SIZE	TORQUE
200-208V	220-240V	COPPER ONLY	
1.5HP	2HP	#18 AWG - #10 AWG	15 LBS.IN
2HP	3HP	#18 AWG - #8 AWG	15 LBS.IN
5HP	5HP	#14 AWG - #6 AWG	23 LBS.IN
10HP	10HP	#10 AWG - #3 AWG	45 LBS.IN

* Dimension may change depending on options required. Consult factory for exact dimensions.
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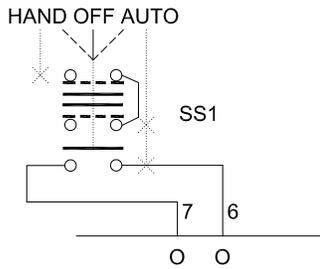
JOCKEY PUMP CONTROLLER OPTIONS

MODEL : JP & JPY

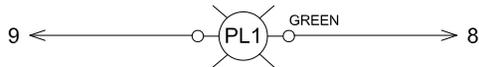
Wiring schematic

BUILT TO UL 508A & CSA C22.2 No.14 STANDARDS.

- OPTION No. 1 : MINIMUM RUN PERIOD TIMER**
TIMER ADJUSTABLE ON IPD BOARD.

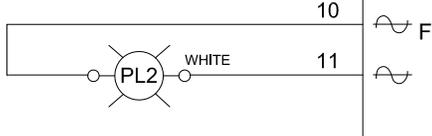


- OPTION No. 2 : "RUN" GREEN PILOT LIGHT**
PART REQUIRED : PL1 - GREEN PILOT LIGHT

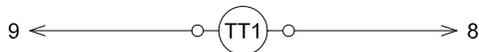


- OPTION No. 3 : "POWER ON" WHITE PILOT LIGHT**

PART REQUIRED : PL2 - WHITE PILOT LIGHT

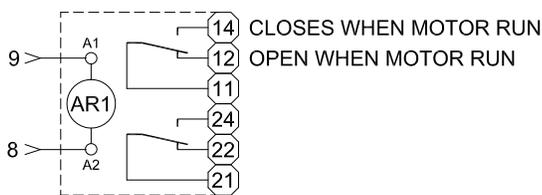


- OPTION No. 4 : ELAPSED TIME METER**
PART REQUIRED : TT1 - ELAPSED TIME METER



- OPTION No. 5 : "MOTOR RUN" ALARM CONTACT**

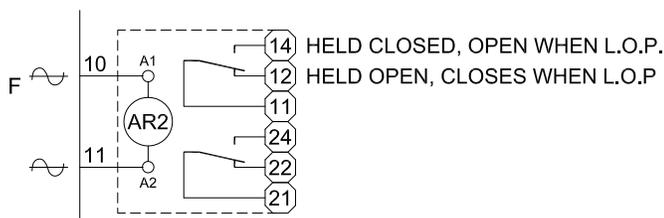
PART REQUIRED : AR1 - ALARM RELAY



NOTE: ○ : Terminal on alarm relay socket

- OPTION No. 6 : "LOSS OF POWER" ALARM RELAY**

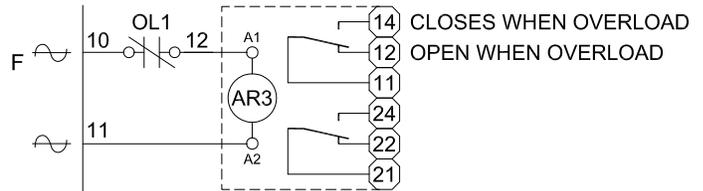
PART REQUIRED : AR2 - ALARM RELAY



NOTE: ○ : Terminal on alarm relay socket

- OPTION No. 7 : "OVERLOAD, SHORT CIRCUIT" ALARM CONTACT**

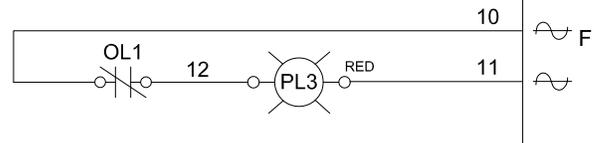
PART REQUIRED : AR3 - ALARM RELAY



NOTE: ○ : Terminal on alarm relay socket

- OPTION No. 7A : "OVERLOAD, SHORT CIRCUIT" RED PILOT LIGHT**

PART REQUIRED : PL3 - RED PILOT LIGHT



- OPTION No. 8 : NEMA/UL/CSA 12 ENCLOSURE**

- OPTION No. 8A : NEMA/UL/CSA 3/3R ENCLOSURE**

- OPTION No. 9 : NEMA/UL/CSA 4 ENCLOSURE**

- OPTION No. 10 : NEMA/UL/CSA 4X ENCLOSURE**
304SST STAINLESS STEEL ENCLOSURE

- OPTION No. 10A : NEMA/UL/CSA 4X ENCLOSURE**
316SST STAINLESS STEEL ENCLOSURE

- OPTION No. 11D : PRESSURE TRANSDUCER**
0-600 PSI 316SST

- OPTION No. 12 : CE LISTING C/W EXTERNALLY MOUNTED WETTED PARTS**

- OPTION No. 13A : EXTERNALLY MOUNTED WETTED PARTS**

- OPTION No. 14 : EXPORT CRATING**

- OPTION No. 15 : FRENCH LABELLING**

- OPTION No. 16 : SPANISH LABELLING**

- OPTION No. 17 : LABELLING IN LANGUAGE OTHER THAN ENGLISH, FRENCH OR SPANISH**

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0.	09/04/09	FIRST ISSUE	VER.	JPO-WS101 /E

JOCKEY PUMP CONTROLLER OPTIONS

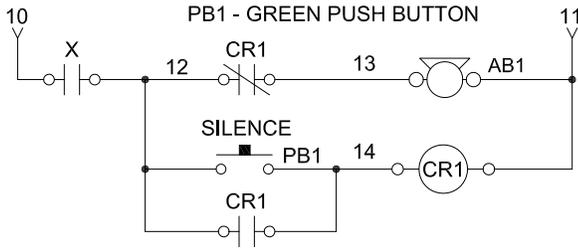
MODEL : JP & JPY

Wiring schematic

BUILT TO UL 508A & CSA C22.2 No.14 STANDARDS.

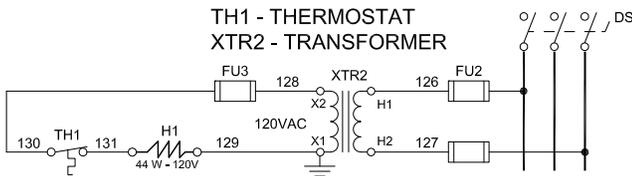
OPTION No. 18 : AUDIBLE ALARM

PART REQUIRED : AB1 - ALARM BUZZER
CR1 - CONTROL RELAY
PB1 - GREEN PUSH BUTTON



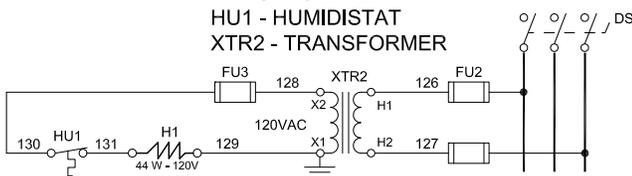
OPTION No. 19 : ANTI-CONDENSATION HEATER & THERMOSTAT

PART REQUIRED : FU2 & FU3 - FUSES
H1 - SPACE HEATER
TH1 - THERMOSTAT
XTR2 - TRANSFORMER



OPTION No. 20 : ANTI-CONDENSATION HEATER & HUMIDISTAT

PART REQUIRED : FU2 & FU3 - FUSES
H1 - SPACE HEATER
HU1 - HUMIDISTAT
XTR2 - TRANSFORMER



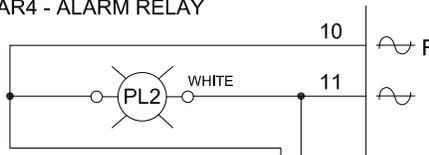
OPTION No. 21 : TROPICALIZATION

OPTION No. 22 : PHASE REVERSAL / FAILURE PILOT LIGHT & ALARM CONTACTS

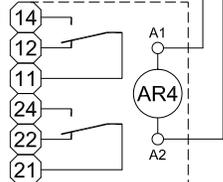
FOR WIRING SCHEMATIC PLEASE CONTACT MANUFACTURER

OPTION No. 23 : CONTROL POWER HEALTHY PILOT LIGHT & ALARM CONTACTS

PART REQUIRED : PL2 - WHITE PILOT LIGHT
AR4 - ALARM RELAY



HELD CLOSED, OPEN WHEN NO POWER
HELD OPEN, CLOSSES WHEN NO POWER



OPTION No. 24 : PUMP FAILURE VIA CURRENT SENSING RELAY

FOR WIRING SCHEMATIC PLEASE CONTACT MANUFACTURER

OPTION No. 25 : LOW ZONE PUMP CONTROL FUNCTION

FOR WIRING SCHEMATIC PLEASE CONTACT MANUFACTURER

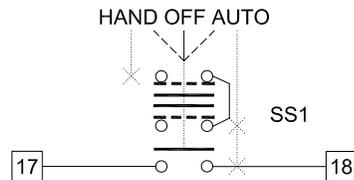
OPTION No. 26 : MID ZONE PUMP CONTROL FUNCTION

FOR WIRING SCHEMATIC PLEASE CONTACT MANUFACTURER

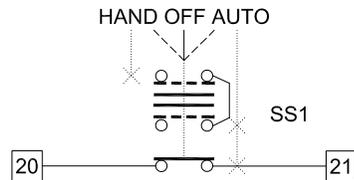
OPTION No. 27 : HIGH ZONE PUMP CONTROL FUNCTION

FOR WIRING SCHEMATIC PLEASE CONTACT MANUFACTURER

OPTION No. 28 : SELECTOR SWITCH IN AUTO ALARM CONTACT

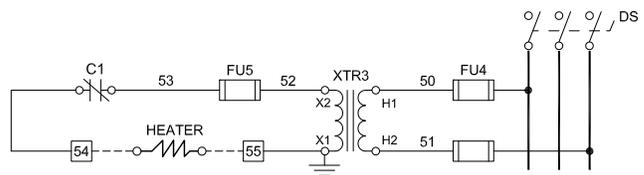


OPTION No. 29 : SELECTOR SWITCH IN OFF OR HAND ALARM CONTACT



OPTION No. 30 : MOTOR HEATER CIRCUIT

PART REQUIRED : FU4 & FU5 - FUSES
XTR3 - TRANSFORMER



OPTION No. 31 : SERVICE ENTRANCE RATED

FOR WIRING SCHEMATIC PLEASE CONTACT MANUFACTURER

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