



SPECIFICATIONS FOR
MODEL JPY WYE DELTA START
JOCKEY PUMP CONTROLLER
MICRO PROCESSOR BASED

JOCKEY PUMP CONTROLLER

The jockey pump controller shall be a model JPY as manufactured by Tornatech and rated for:
_____ V. / _____ HP / _____ phase / _____ Hz.

SHORT CIRCUIT INTERRUPTING CAPACITY

The short circuit interrupting capacity of the jockey pump controller shall be:

- ☐ 50 KA at 120 to 480V
- ☐ 18 KA at 600V - 15 HP max.
- ☐ 30 KA at 600V - 7.5 HP max or

when protected by a feeder line fuse not larger than 1,200A.

APPROVAL AND LISTINGS

The jockey pump controller shall meet the requirements of UL508, and by the City of New York.

ENCLOSURE

The standard enclosure shall be NEMA/UL/CSA type 2 or optional

- ☐ NEMA/UL/CSA 3 / 3R
- ☐ NEMA/UL/CSA 4
- ☐ NEMA/UL/CSA 12
- ☐ NEMA/UL/CSA 4X

OPERATIONAL COMPONENTS

The jockey pump controller shall be supplied with the following door mounted components approved to match the NEMA rating of the enclosure.

- One main disconnect switch complete with door interlock and padlock provision in the OFF position
- One Hand-Off-Auto rotary type selector switch

The following control components shall be mounted inside the controller:

- One wye delta open transition motor starter HP rated
- One thermo magnetic motor protector complete with short circuit and motor overload protection

MICRO PROCESSOR LOGIC

The jockey pump controller shall be supplied with a micro processor to perform the automatic sequence of operation. The micro processor shall be mounted inside the jockey pump controller and have a high luminosity LED digital display which shall display the following:

- System Pressure
- Minimum Run Period Timer
- Cut-In pressure setting
- Delay Start Timer
- Cut-out pressure setting

The system pressure indication shall be continuously displayed. Jockey pump controllers without the capability of digitally displaying the cut-in, cut-out and system pressure shall not be accepted. The micro processor shall allow the system pressure, cut-out and cut-in settings to be displayed in either Psi, Bar, kPa and feet of head.



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PRESSURE SENSING DEVICE

The jockey pump controller shall be supplied with a 304 stainless steel pressure transducer rated for fresh water operational between 0 and 300psi with $\pm 2\%$ accuracy and a minimum burst pressure of 420psi. The pressure transducer shall be used to display the pressure in the sprinkler system and also control the automatic start circuit. The pressure transducer shall be installed inside the controller directly mounted to a bulkhead allowing for an external connection to the sprinkler system sensing line. Jockey pump controllers supplied with mechanical pressure sensing devices with or without mercury shall not be accepted.

STANDARD OPTIONS

The jockey pump controller shall be supplied with the following options.

- ☐ Minimum run period timer
- ☐ RUN green pilot light
- ☐ POWER ON white pilot light
- ☐ Elapsed time meter
- ☐ MOTOR RUN alarm contact
- ☐ LOSS OF POWER alarm contact
- ☐ OVERLOAD or SHORT CIRCUIT alarm contact
- ☐ OVERLOAD red pilot light
- ☐ NEMA/UL/CSA 12 enclosure
- ☐ NEMA/UL/CSA 3/3R enclosure
- ☐ NEMA/UL/CSA 4 enclosure
- ☐ NEMA/UL/CSA 4X 304 stainless steel enclosure
- ☐ NEMA/UL/CSA 4X 316 stainless steel enclosure
- ☐ Mercoid pressure switch 0-300psi
- ☐ Pressure transducer 304 stainless steel rated for 0-600psi
- ☐ Pressure transducer 316 stainless steel rated for 0-600psi
- ☐ CE listing c/w externally mounted wetted parts
- ☐ Externally mounted wetted parts
- ☐ Export packaging
- ☐ French labels
- ☐ Spanish Labels
- ☐ Labeling in language other than English, French or Spanish
- ☐ Audible alarm
- ☐ Anti-condensation heater and thermostat
- ☐ Anti-condensation heater and humidistat
- ☐ Tropicalization
- ☐ Phase reversal/failure pilot light and alarm contact
- ☐ Control power healthy pilot light and alarm contact
- ☐ Pump failure via current sensing relay
- ☐ Low zone pump control function
- ☐ Mid zone pump control function
- ☐ High zone pump control function
- ☐ Selector switch in AUTO alarm contact
- ☐ Selector switch in OFF or Manual alarm contacts