

- a. To be specified by the design consultant
- b. NFPA 20 Standard for the Installation of Stationary Pumps for Fire Protection”
- c.

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- xv. Shutoff pressure: not to exceed 120 percent of rated pressure.
- xvi. Pump Motor: horizontal, foot mounted, open dripproof, 100 HP ball bearing type “P” face, 1770 RPM, Solid State Soft Start squirrel cage induction motor, wound for 460 V, AC, three phase, 60 hz. Locked rotor current shall not exceed values specified in ~~PN20~~.
- xvii. Pump accessories:
 - 1. Two pressure gauges on suction and discharge
 - 2. One circulation relief valve, ¾ inch
 - 3. One automatic air release valve, ½ inch
 - 4. One concentric discharge increase
 - 5. One eccentric suction reducer
 - 6. One automatic ball drip valve
 - 7. One coupling guard
- b. Jockey Pump
 - i. Type: multistage
 - ii. Capacity: 12 GPM at 85 PSI
 - iii. Basis of design Manufacturer Grundfos: Model: CR3
- c. Fire Pump Controller
 - i. Basis of Design Manufacturer: Fio2 (<P)-14 (PA)-10v.i. (u)-4 (rH 3) PofBas -0.000.

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- a. handle operation requirements [OFF to ON]
 - i. Isolating disconnect switch to ON
 - ii. Circuit breaker
- b. Handle operation requirements [ON to OFF]
 - i. Circuit breaker OFF
 - ii. Isolating disconnect switch OFF
5. Circuit breaker trip curve: adjustment shall be factory set, tested and sealed for the full load amps of the connected motor.
6. Circuit breaker field testing shall be capable of verification of actual pickup, locked rotor, and instantaneous trip points. Incoming line and load conductors shall not be disturbed by post installation field testing
- xv. Voltage Measurement: True RMS, not average responding meters.
- xvi. LED indicators on front panel shall be visible with door closed and include:
 1. Power on
 2. Pump running
 3. Alarm
 4. Deluge open
 5. Phase failure
 6. Interlock on
 7. Emergency Isolation Switch Open
 8. Low System Pressure
 9. Transfer Switch Normal
 10. Transfer Switch Emergency
 11. Phase Reversal
- xvii. Information to be logged
 1. Motor calls/starts
 2. Elapsed Motor Run Time
 3. Last Trip Currents
 4. Elapsed power on time
 5. Last breaker trip
 6. Max and min run currents
 7. Max and min voltages
 8. Last motor run time
 9. Last phase failure

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- xiv. Selector switch for testing: for transfer to emergency and retransfer to normal power.
- e. Jockey Pump Controller
 - i. Basis of design: Manufacturer: Firetrol.
 - ii.

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e.

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1.