

SAS-S-1PH

Sasquatch Control Panel

Single Phase Simplex

Owner's Manual



Overview

The SAS-S-1PH-X control panel is designed to operate a single pump in pump down applications. Panels are suitable to operate single phase pumps at 120/208/240VAC up to 25 full load amps.

Pump Amperage Ranges at 120/208/240VAC

- SAS-S-1PH-10 - (0.0 - 5.0) FLA
- SAS-S-1PH-20 - (5.0 - 15.0) FLA
- SAS-S-1PH-30 - (15.0 - 25.0) FLA

Enclosure Mounting

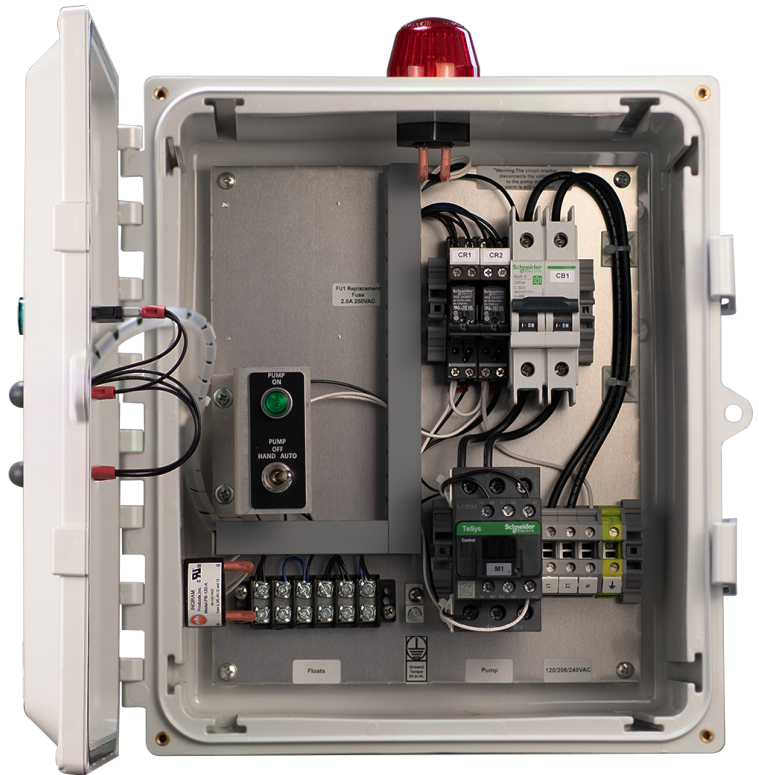
Mounting Brackets - A mounting bracket and screw pack are provided with the premium enclosures. To assemble, turn the enclosure upside down on a flat surface, place the mounting bracket over the square boss either horizontally or vertically, and fasten the mounting bracket with the 1/4"-20 x 0.5 SS, countersunk Phillips drive screws or vertically, with the mounting brackets in any configuration, using any acceptable fastening technique.

Covers/Doors - Covers/doors have a gasket pre-assembled to seal against the base.

Note: The control panel should not be mounted in a location that may be subject to submersion.

Auto Operation

1. When the "Stop" and "Lead" float rise, the pump will turn on and the pump run light will illuminate. The pump will remain on until the "Stop" float falls.
2. When the "High Level" float rises, the beacon and buzzer will turn on. The beacon and buzzer will remain on until the "High Level" float falls.



Installation Tips

- **Caution:** To maintain the Type 4X rating, make all wiring connections with seal-tight cable grips or conduit connections.
- Run pump cables and floats cables through conduit. Make field connections as shown on the wiring schematic.
- Run power line conductor through the conduit, wire to terminals per enclosed schematic.
- Branch circuit protection is to be provided by the installer.
- Panel circuit breakers are shipped in the off position.
- Ensure floats are accurately mounted at the correct levels. Note: Floats shall have free range of motion without touching each other or other equipment.

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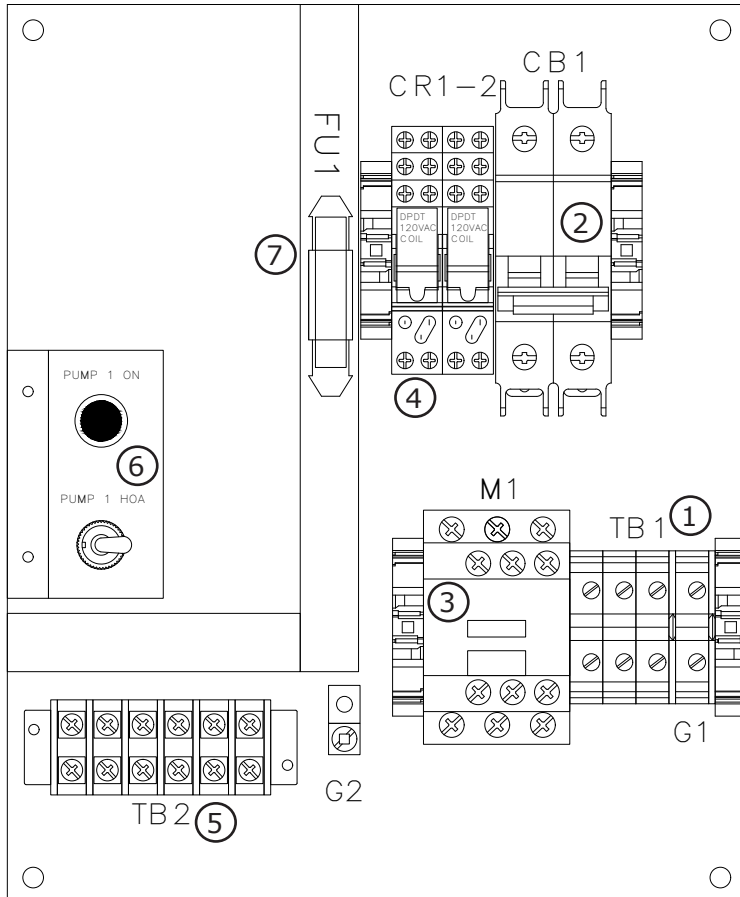
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Panel Backplate



Components

1. TB1/G1 - Incoming Power Terminals/Panel Ground
2. CB1 - Motor Circuit Breaker
3. M1 - Motor Contactor
4. CR1-2 - 120VAC Control Relays
5. TB2 - Float Terminals
6. Pump HOA switch and Run Light
7. Control Fuse(Inside Cable Tray)

Wiring

Warning: Ensure the pump power falls within the ratings of the control panel.

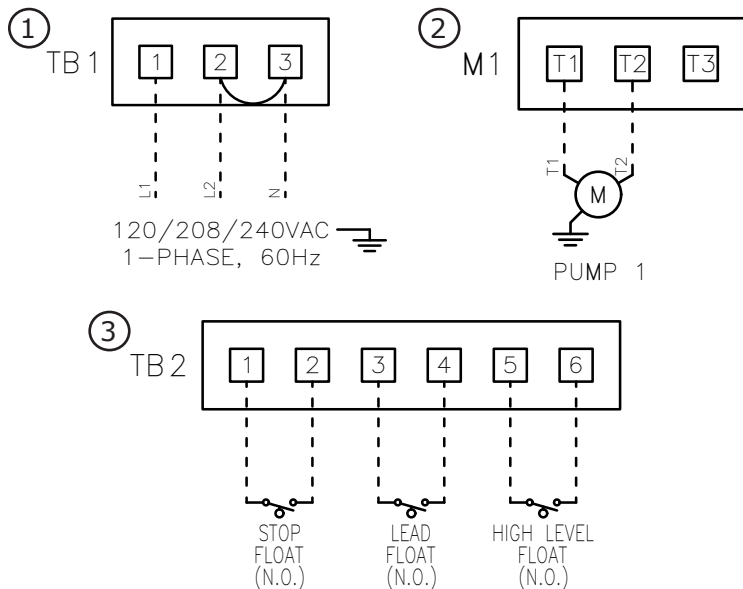
1. Land Incoming power to TB1 as shown at the bottom of the page. See note at the bottom right of page for 208/240VAC.
2. Land Pump Leads to M1 as shown at the bottom of the page.
3. Land Float Leads to TB2 as shown at the bottom of the page.
4. Ensure all ground connections are in place.

Quick Testing

- Turn circuit breaker one into the on position, and attempt to run the pump in "Hand" mode if possible. This can be done by switching the HOA to "Hand". Should any issues arise, please consult page 4 of this document for troubleshooting tips.
- Attempt to run the pump in "Auto" mode by switching the selector switch to the auto position, and jumpering the stop float terminals and lead float terminals respectively.

Note:

For 208/240VAC operation, remove jumper between TB1-2 and TB1-3 and supply dedicated neutral to TB1-3.



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Troubleshooting

Caution: Be mindful of applied power when performing any of the following troubleshooting.

Pump Won't Run in Hand?

- Verify that the contactor is engaging by testing the "Hand" function for the pump in question. Verify pump circuit breaker is in the "ON" position as well. You should be able to hear and see the plunger in the middle of the contactor sinking in when the "Hand" switch is engaged. If the pump still won't run, verify that the control relay's CR1-2, are locked into place and are pressed down all the way.

Pump Won't Run in Auto?

- Verify that the contactor is engaging by testing the "Auto" function for the pump in question. Verify pump circuit breaker is in the "ON" position. Simply jumper 2 wires across the stop and lead float wiring terminals. You should be able to hear and see the plunger in the middle of the contactor sink in when the "Auto" switch is engaged along with the float jumper wires. If the pump still won't run, verify that the control relay's CR1-2, are locked into place and are pressed down all the way.

No Power On Light?

- Verify appropriate voltage is applied to the control panel and confirm continuity across the fuse that is inside the long vertical portion of the cable tray.
NOTE: check fuse continuity when panel is power is disconnected.

If you still have issues after running through the above troubleshooting, please give us a call. We are available 24 hours, 7 days a week for customer support.

WARNING



Electrical Shock Hazard

- Disconnect power and lock out unit prior to servicing.
- Replace and secure access panel before operation.
- Failure to follow proper safety procedures could result in death or serious injury.