

HSCD-100-SS CHAIN DISK SYSTEM SOFT STARTER

General Installation Notes:

Make sure that power is disconnected from system prior to servicing.

Installation of this equipment and related OEM equipment should be in accordance with these instructions, OEM's installation instructions and local codes (if applicable). Failure to follow specified instructions may cause damage to equipment and/or personal injury or death.

Take special note of any Warnings or Safety Decals on the equipment and in manuals.

Always wear protective clothing and any applicable Personal Protective Equipment (Safety Glasses and/or Ear Plugs) when working with the equipment.

Discarded materials, equipment and boxes should be recycled in accordance with local and national codes.

Note: Assembly is to be wired in accordance with all applicable local and national electrical wiring codes. All wiring sizes and fuse capacities are to be sized according to applicable electrical code specifications or other regulations.

Safety Instructions:

Read all safety messages in this manual and on equipment safety decals. Follow recommended precautions and safe operating practices.

Ground all electrical equipment for safety.

Ground all non-current carrying metal parts to guard against electrical shock.

Always keep safety decals in good condition and replace missing or damaged decals.

Overview:

The HSCD-100-SS soft starter is designed to start the chain disk drive motor at a slower rate in order to reduce the mechanical impact on the system upon start-up. With longer systems, the impact of starting the system almost instantaneously results in severe force placed on the chain, corners and drive system until the system is up to speed. The HSCD-100-SS reduces the start-up current of the drive motor and ramps the motor up to full speed over a period of 3 seconds reducing the sudden impact on the system. Once the system has been started for 5 seconds, the soft start circuit is bypassed allowing the motor to run at normal full speed. Any time the chain disk drive motor is started, the soft start circuitry will be active.

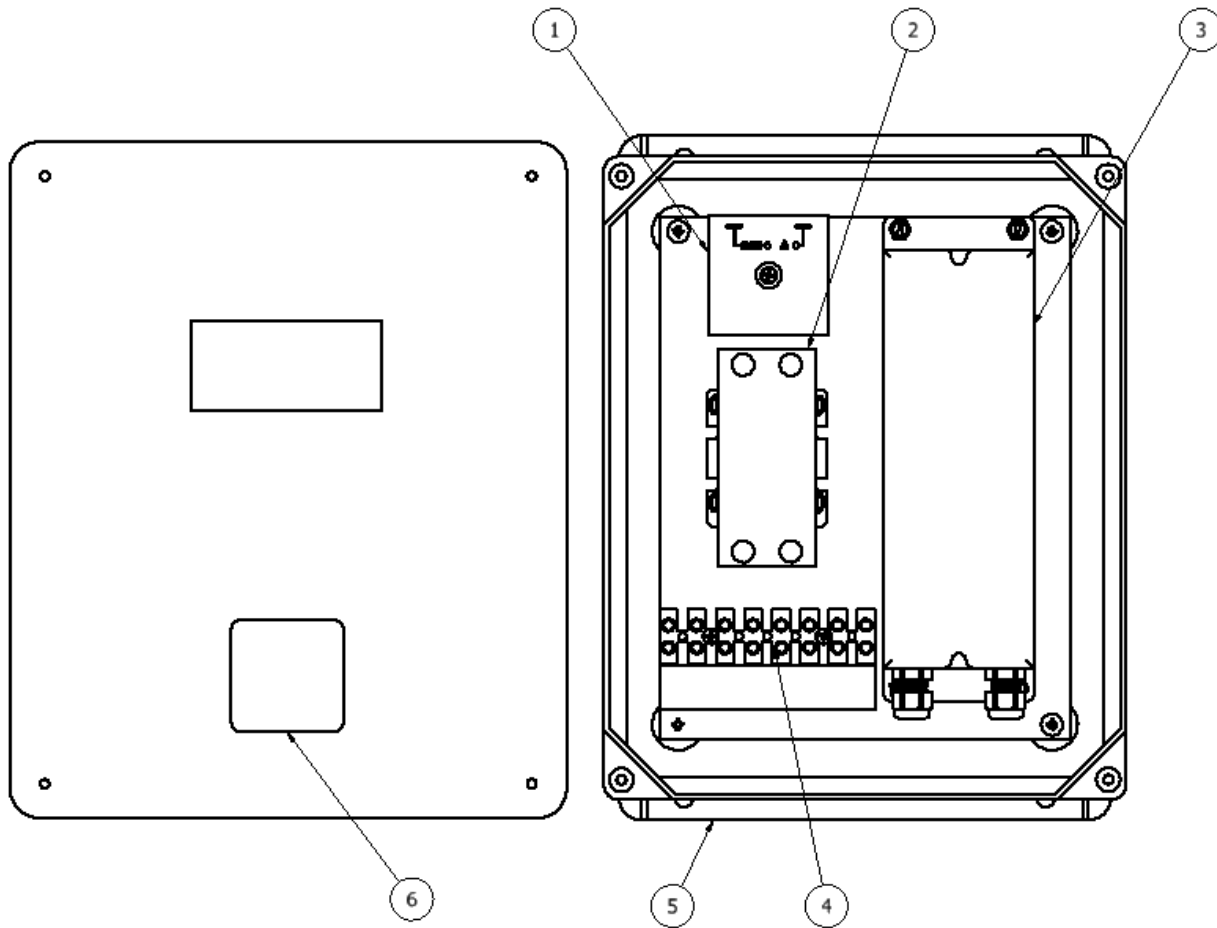
The HSCD-100-SS unit is electrically placed in between the output of the HSCD-100 chain disk controller contactor and the chain disk drive motor. The HSCD-100-SS enclosure is rated NEMA 4X so it is fully protected from the environment.

Specifications:

Input: 220 - 240VAC 1Ø , 50/60 Hz.

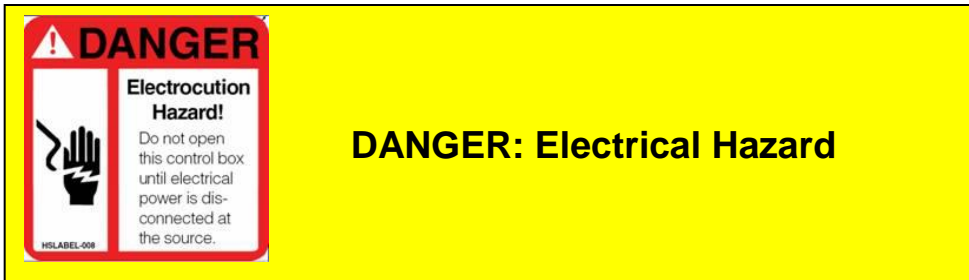
Output: Maximum 10 AMPS Continuous Duty.

HSCD-100-SS Exploded View and Parts Diagram.



Parts List

REF #	PART #	DESCRIPTION
1	THL-1024U-F5S	TIME DELAY RELAY, 5 SECOND FIXED
2	DP30C2P-2	CONTACTOR 2 POLE, 30 AMP 240V
3	HFE1	SINGLE PHASE SOFT STARTER
4	EL1159	TERMINAL STRIP, 8 POSITION, 8 AWG MAX
5	VJ1008W	ENCLOSURE, 10 X 8, NEMA 4X
6	HSLABEL-008	LABEL, WARNING SHOCK HAZARD

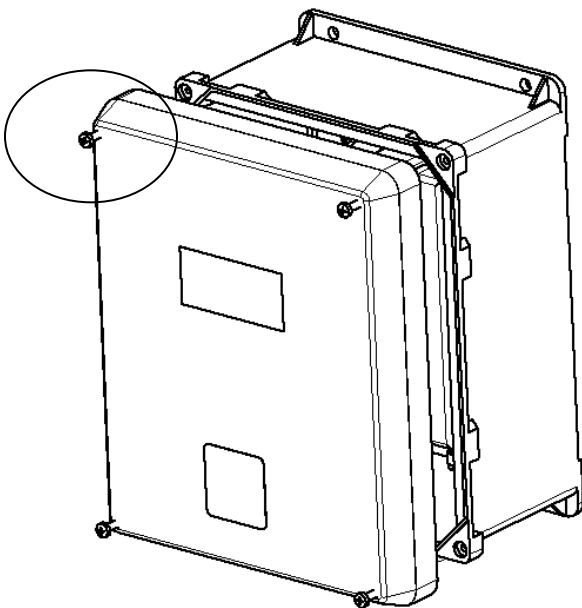
Installation:

IMPORTANT: Disconnect all electrical power before attempting installation of this (or any equipment), inspecting or servicing.

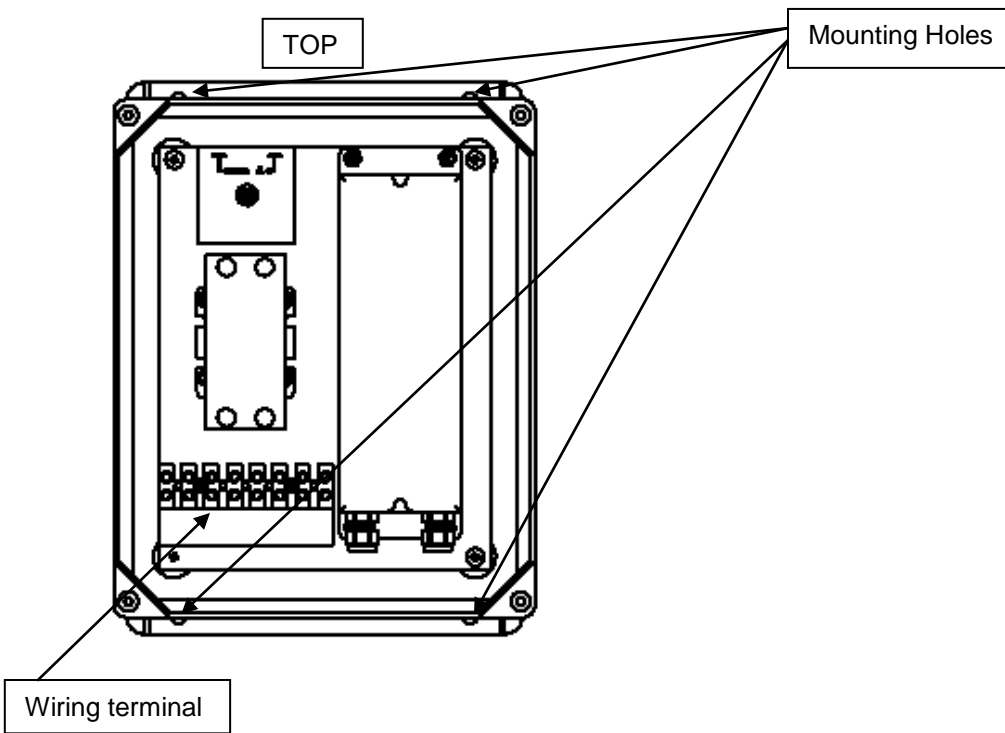
Ground all electrical equipment in accordance with applicable codes. Do not assume equipment will automatically be grounded due to incidental metal-to-metal contact.

ALL electrical wiring must be done by a qualified electrician in accordance with local and national electric codes.

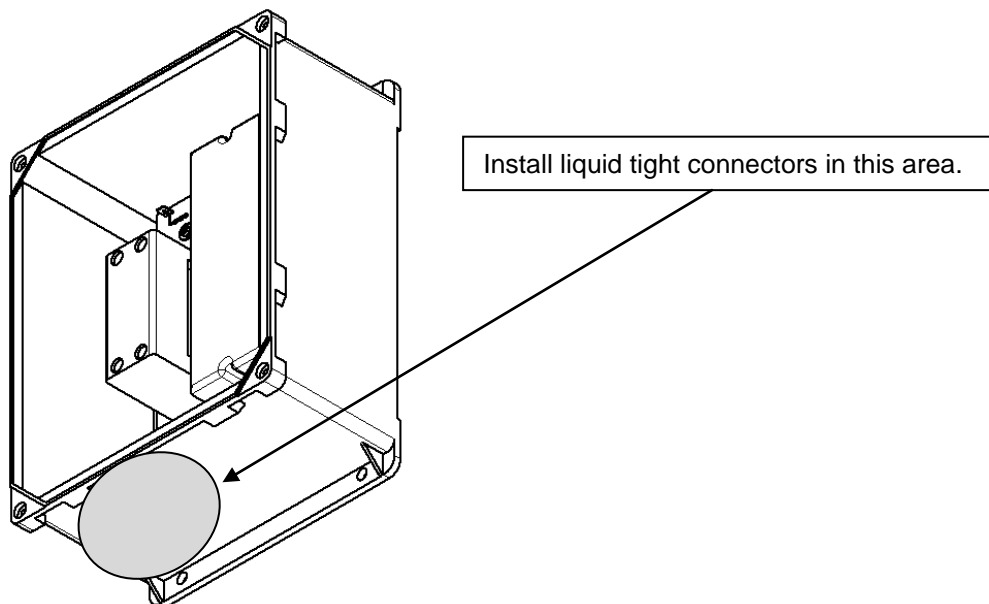
1. Loosen the four screws securing the cover. The screws do not have to be removed but loosened enough for the cover to be removed.



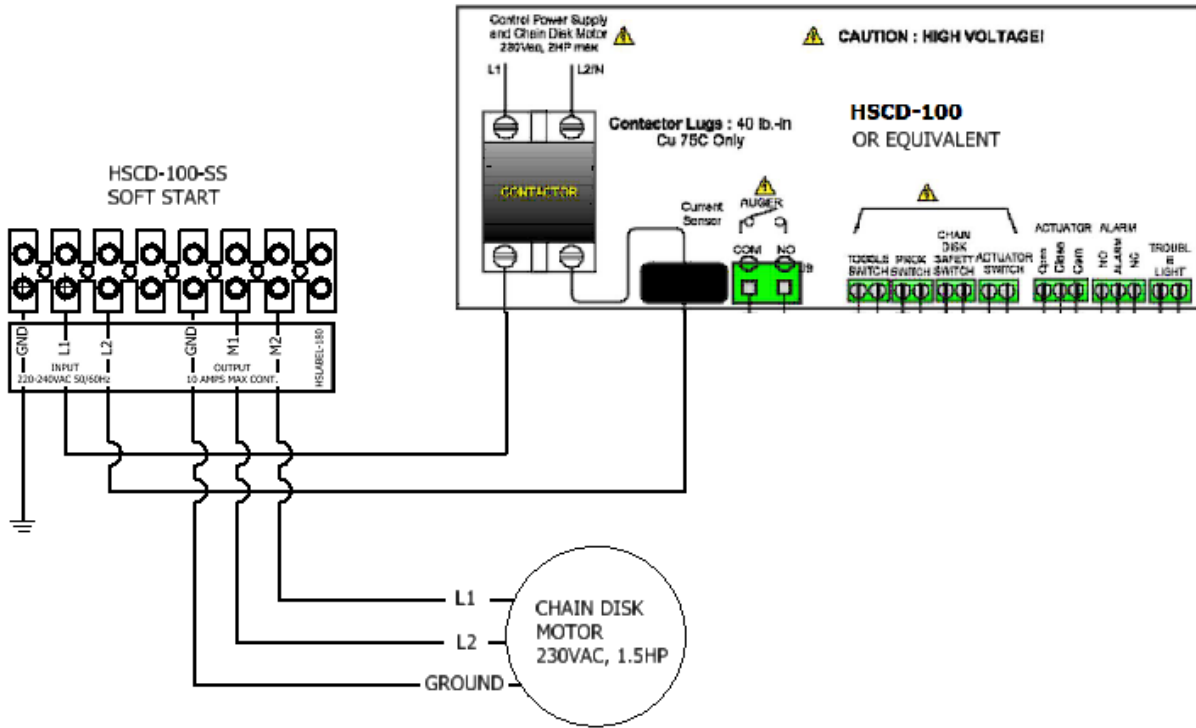
2. Mount the HSCD-100-SS vertically as shown. Wiring terminal should be on the bottom. Secure the enclosure using the four mounting holes provided.



When installing external wiring, use liquid tight connectors only. Drill holes for connectors in this location to have adequate space for wires. Take special care when drilling holes into the enclosure to prevent damage to internal components.



Wiring Diagram:

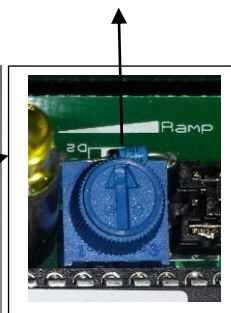
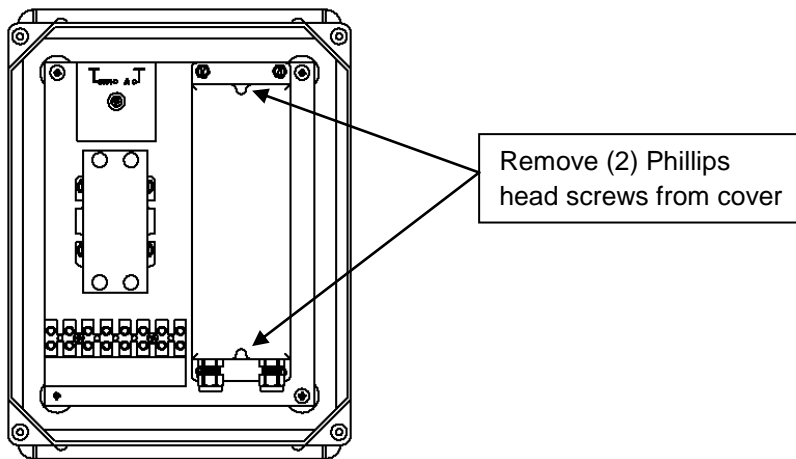


ALL WIRES SHOULD BE 12 AWG STRANDED, 300V

Operation:

No adjustments are required. Unit is pre-set from factory for the proper ramp rate the chain disk motor requires to get to full speed. However, if no speed ramp is observed or motor cycles up and down before finally reaching full speed, the adjustment potentiometer should be verified it is in the correct position.

Disconnect power from the unit. Remove the front cover of the enclosure. Remove two screws that secure the cover over the soft start unit. With cover removed locate the “Blue” adjustment pot as shown below. Confirm the arrow is pointing upward at 12 o’clock as shown below.



Adjustment pot should be pointing straight up.

Adjustment affects:

Turning the Blue adjustment counterclockwise decreases the ramp time of the soft start. Decreasing the ramp rate too far will result in the unit not being effective in soft starting the chain disk system.

Turning the Blue adjustment clockwise increases the ramp time. Going beyond the 12 o’clock setting too far may allow the motor to speed cycle before coming up to full speed. Speed cycle is when the motor will speed up slowly just fast enough to switch out the start capacitor, slow down and switch back in the start capacitor. This speed up, slow down and speed up again is an unwanted condition and should be avoided.

Hog Slat Limited Warranty

Hog Slat warrants products to be free from defects in material or workmanship for a period of twenty-four (24) months from the date of **original purchase**. Hog Slat will credit, repair, or replace, at its option any product deemed defective within this time period. Labor costs associated with the replacement or repair of the product are not covered by the Seller/Manufacturer.

Conditions and Limitations

1. The product must be installed by and operated in accordance with the instructions published by the **Seller/Manufacturer or Warranty will be void**.
2. Warranty is void if **all components** are not original equipment supplied by the **Seller/Manufacturer**.
3. This product must be purchased from and installed by an authorized retailer/distributor or certified representative thereof or the Warranty will be void.
4. Malfunctions or failure resulting from misuse, abuse, negligence, alteration, accident, or lack of proper maintenance shall not be considered defects under the Warranty.
5. This Warranty applies only to components/systems for the care of poultry and livestock. Other applications in industry or commerce are not covered by this Warranty.
6. This Warranty applies only to the Original Purchaser of the product.

The **Seller/Manufacturer** shall not be liable for any **Consequential or Special Damage** which any purchaser may suffer or claim to suffer as a result of any defect in the product. **“Consequential” or “Special Damages”** as used herein include, but are not limited to, *lost or damaged products or goods, costs of transportation, lost sales, lost orders, lost income, increased overhead, labor and incidental costs and operational inefficiencies.*

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This equipment must be installed in accordance with all State and Local Codes and applicable Regulations which should be followed in all cases. Authorities having jurisdiction should be consulted before installations are made.



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