

SPCA

Stock Power Control Assembly

- Up to 75 Amps
- Single Circuit Operation
- Shutdown Capability
- Short Circuit Current Rating is rated to a minimum of 5kA
- NEMA4X Offerings
- On/Off or Proportional Control



TIP

Consider pairing with our Pick and Ship Sensor kits which include a process sensor, sensor wire, and a 304SS thermowell with a 3/4" NPT connection, 7-1/2" insertion length, and lagging extension for up to 3" of insulation clearance.

- PSKS-J4SS50-0001 (Type J T/C)
- PSKS-RTD4SS200-0002 (RTD)



SPCA-C1 COMMON FEATURES

- **Electrical Rating** – 480 volts, 3 phase, 1 circuit.
- **Power Terminal Enclosure** – Fiberglass, rated NEMA 4X / IP66, cULus Certification.
- **Power Wiring Conduit Location** – Enclosure can be punch drilled to suit incoming power connection size and location.
- **Power Control Type** – On/Off control utilizing a mechanical contactor, rated up to 40 or 75 amps.
- **Process & Overtemp Controllers** – includes a Chromalox 4040 process and 6050 overtemperature controller, door mounted, for process and overtemperature control.
- **Shutdown Capability** – Main Disconnect Switch
- **Enclosure Heater** – Integral Enclosure Heater allowing for usage in ambient down to -18°C.
- **Mounting Location** – Enclosure is designed for mounting in an environment up to NEMA 4X IP66 rating with a maximum of 40°C and minimum of -18°C ambient, out of direct sunlight.
- **Short Circuit Current Rating** – Assembly is rated for up to 5kA SCCR



SPCA-S1 COMMON FEATURES

- **Electrical Rating** – 480 volts, 3 phase, 1 circuit.
- **Power Terminal Enclosure** – Fiberglass, rated NEMA 4X / IP66, cULus Certification.
- **Power Wiring Conduit Location** – Enclosure can be punch drilled to suit incoming power connection size and location.
- **Power Control Type** – Full proportional control utilizing a SSR assembly, rated up to 75 amps.
- **Process & Overtemp Controllers** – includes a Chromalox 4040 process and 6050 overtemperature controller, door mounted, for process and overtemperature control.
- **Shutdown Capability** – Main Disconnect Switch
- **Enclosure Heater** – Integral Enclosure Heater allowing for usage in ambient down to -18°C.
- **Heat Sinks** – External heat sinks are provided for temperature regulation, pre-mounted to the enclosure.
- **Mounting Location** – Enclosure is designed for mounting in an environment up to NEMA 4X IP66 rating with a maximum of 40°C and minimum of -18°C ambient, out of direct sunlight.
- **Short Circuit Current Rating** – Assembly is rated for up to 5kA SCCR

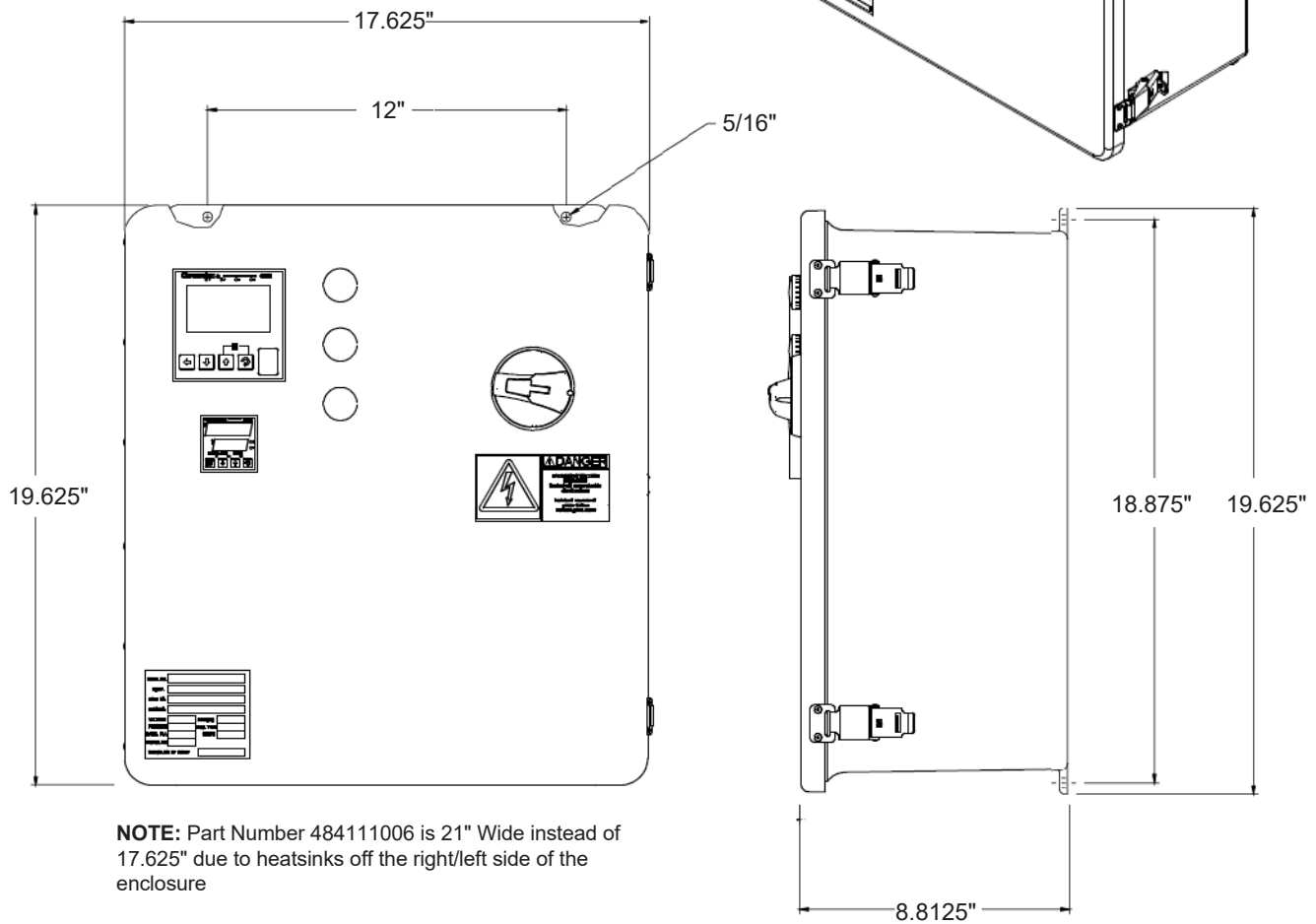
SELECTION TABLE

Model Description	Part Number	Amp Rating	Power Control Type	Process Controller	Overtemperature Controller	Controller Mounting Location
SPCA-C1-40E4X 480V3PH	484111004	40	On/Off	4040-RRA110	6050-1RA10	Door Mount
SPCA-C1-75E4X 480V3PH	484111005	75	On/Off	4040-RRA110	6050-1RA10	Door Mount
SPCA-S1-75E4V 480V3PH	484111006	75	Proportional	4040-SRA110	6050-1RA10	Door Mount

SPCA

Stock Power Control Assembly

SPCA DIMENSIONS(in)



OPTIONAL ACCESSORIES

Process Sensor Package

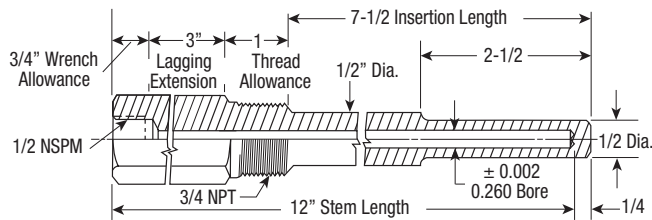
Each Process Sensor Package will include a process sensor, sensor wire, and a 304 stainless steel thermowell with a 3/4" NPT boundary connection, 7-1/2" insertion length, and lagging extension for up to 3" of insulation clearance.

- **Part PSKS-J4SS50-0001** is intended for sensor locations requiring <50 feet of wiring. The kit includes a thermowell, matching type J thermocouple, and 50 ft of thermocouple wire.
- **Part PSKS-RTD4SS200-0002** is intended for sensor locations requiring <200 ft of wiring. The kit includes a thermowell, matching RTD, and 200 ft of RTD wire.

Type J thermocouple wire is 20 gauge solid Iron/Constantan wire with Teflon insulation.

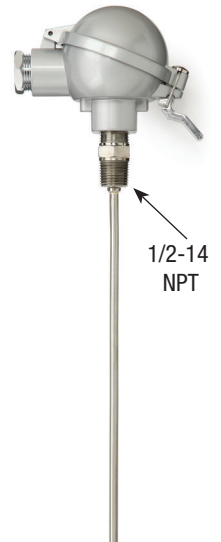
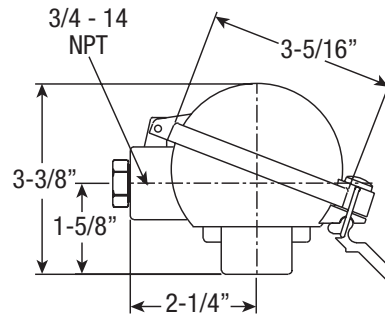
RTD wire is 3 wire, 16 gauge, copper twisted-shield with polyvinyl insulation.

Thermowell Dimensions



Note: NPSM internal pipe thread will accept both NPT and NPS male threads

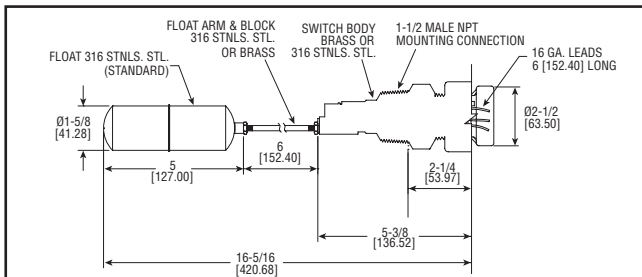
Sensor Connection Head Dimensions



Liquid Level Switch

Having a liquid level switch in the application is vital to protecting the heating equipment by ensuring proper shutdown of the heater when the level drops below the threshold point.

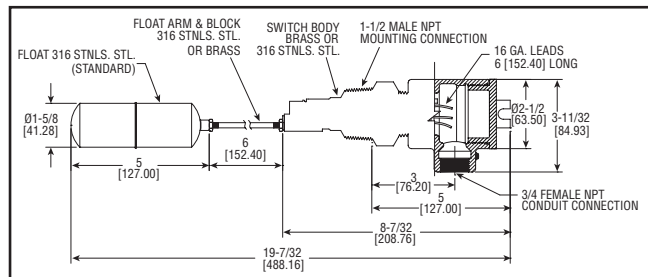
Part PSKS-BNL-0003 is intended for side mounting in clean water applications, non-hazardous area for temperatures up to 400°F. Wiring is handled by simply connecting to the leads with a conduit or a connection head directly coupled to the brass fitting.



PSKS-BNL-0003

Temperature Range	Min: 4°F / Max: 400°F
Pressure Limit (Body)	1000 PSIG
Pressure Limit (Float)	100 PSIG
Conduit Connection	3/4" FNPT
Process Connection	1-1/2" MNPT
Materials of Construction	Body: Brass / Float: 316 SST
Switch Type	SPDT Snap Switch
Electrical Ratings	5A @ 125/250VAC
Weight	4.56 lb

Part PSKS-6SSYH-0004 is intended for side mounting in water, oil, or caustic solution applications with a minimum specific gravity of 0.7. It can be used in hazardous area installations, being rated for Class 1 Groups C, D / Class II Group E, F, G areas.



PSKS-6SSYH-004

Temperature Range	Min: 4°F / Max: 400°F
Pressure Limit (Body)	2000 PSIG
Pressure Limit (Float)	100 PSIG
Conduit Connection	3/4" FNPT
Process Connection	1-1/2" MNPT
Materials of Construction	Body: 316 SST / Float: 316 SST
Switch Type	SPDT Snap Switch
Electrical Ratings	5A @ 125/250VAC
Weight	4.56 lb