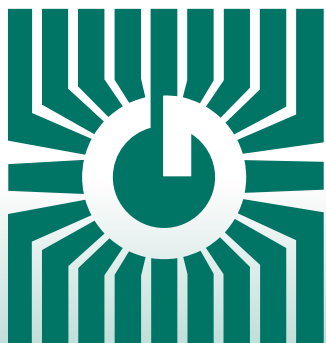


GREYSTONE

ENERGY SYSTEMS INC



**CURRENT SWITCHES
HIGH OUTPUT**



Precision power control/sensing

FEATURES:

- Solid Core
- Self-powered
- High current, Solid-state output
- Compact size

*Peace of mind
through reliable
current monitoring*

GREYSTONE HAS AN **ISO 9001** REGISTERED QUALITY SYSTEM

AC CURRENT SWITCH

CS-425-HC Series

CURRENT-OPERATED SOLID-STATE RELAYS FOR SWITCHING AC CIRCUITS WITH TIME DELAY



FEATURES:

- Self-powered and no insertion loss
- True digital switching and no leakage
- Small compact size
- 0, 5, 10, or 15 minutes time delay models
- Input / Output isolation via current transformer
- Solid-state reliability
- Solid, reliable mounting method

APPLICATIONS:

Direct control of AC loads, such as dryer booster fans, in response to the current of a monitored AC circuit.

DESCRIPTION:

The CS-425-HC products are solid-state current switches with N.O. triac outputs to control high-current line-voltage AC loads. All models have a factory set trip level of approximately 1 Amp and require no field adjustment for easy installation. Internal circuits are powered by induction from the line being monitored and all models are cULus certified.

SPECIFICATIONS:

Maximum Core Current.....	50 Amps
Operating Temperature.....	0 to 40°C (32 to 104°F)
Trip Set-Point.....	Approximately 1 Amps
Enclosure Size	49 x 87 x 25 mm (1.95" x 3.45" x 1") - (H x W x D)
AC Conductor Hole	20 mm (0.8") Diameter
Switch Rating	120 Vac @ 2.5 Amps Max.
Turn on time / Turn off time	<200 mS
	0, 5, 10 or 15 minutes (factory set)
Operating Humidity.....	0 - 95% RH non-condensing
Material	UL 94V-0 flammability rated ABS. Insulation Class 600V
Mounting Holes	2 x 5 mm holes spaced 76 mm on base
	(2 x 0.19" holes spaced 3" on base)
Switch Type	Solid-state triac
Off-state Leakage	<1 mA
Agency Approvals.....	cULus Listed

DRYER BOOSTER FAN OPERATION:

The CS-425-HC series can operate a dryer booster fan directly. These devices sense when a clothes dryer is drawing 1 Amp of current and then closes the output switch to activate the dryer vent booster fan. When the dryer cycle is complete and the current drops below the threshold, the output switch will remain closed for a pre-set delay time to allow heat to be removed from the vent before the switch is opened again. The device output can switch 120 Vac loads up to 2.5 Amps.

PRODUCT ORDERING INFORMATION:

Model	Output Type	Switch V Max.	Switch I Max.	Leakage Current	Input I Min.	Input I Max.	Time Delay (off)	Approval
CS-425-HC-0	Triac	120 VAC	2.5 Amp	<1 mA	~1 Amp	50 Amps	none	cULus
CS-425-HC-5	Triac	120 VAC	2.5 Amp	<1 mA	~1 Amp	50 Amps	5 minutes	cULus
CS-425-HC-10	Triac	120 VAC	2.5 Amp	<1 mA	~1 Amp	50 Amps	10 minutes	cULus
CS-425-HC-15	Triac	120 VAC	2.5 Amp	<1 mA	~1 Amp	50 Amps	15 minutes	cULus

AC CURRENT SWITCHES CS-625

ADJUSTABLE CURRENT-OPERATED SOLID-STATE RELAYS FOR SWITCHING AC CIRCUITS



FEATURES:

- Self-powered and no insertion loss
- True digital switching and no leakage
- Small compact size
- Jumper-selectable ranges
- Easy field adjustment
- Input / Output isolation via current transformer
- Solid-state reliability
- Solid, reliable mounting method

DESCRIPTION:

The CS-625 current switch is a solid-state switch that monitors line current for electrical loads such as pumps, conveyors, machine tools or fans and closes the output contacts when the adjustable trip point is exceeded. It is typically used to monitor motor operation and can be used to determine on/off status, proof of operation, motor failure or belt loss.

The sensor requires no external power as it is totally powered by induction from the primary AC line being monitored. The trip setpoint is adjustable in three jumper-selectable ranges from a minimum value (1 Amp) up to 175 Amps by rotating the adjustment pot counter-clockwise.

The output contacts can switch loads up to 1 Amp 240 Vac.

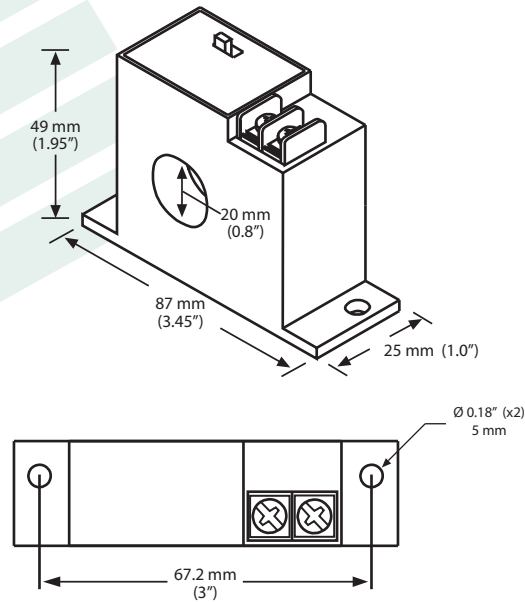
SPECIFICATIONS:

Setpoint Range	1 - 175 Amps adjustable
Maximum Input Current	175 Amps continuous
Sensing Ranges	Low (1-6 Amps) no-jumper Mid (6-40 Amps) High (40-175 Amps)
Sensor Power	Self-powered
Output Type	Solid-state
Output Switch Action	Normally open
Output Switch Ratings	240 Vac, 1 Amp maximum
Frequency	50/60 Hz
Response Time	< 200 mS typical
Insulation Class	600 Vac, insulated conductors
Operating Temperature	-15 to 40°C (5 to 104°F)
Operating Humidity	5 to 90 %RH, non-condensing
Terminal Block	14 to 22 AWG
Dimensions	49 x 87 x 25 mm (1.95" x 3.45" x 1")
Sensor Aperture	20 mm (0.8 in)
Enclosure Material	ABS, UL94 V-0
Mounting Holes	2 x 5 mm holes spaced 76 mm on base (2 x 0.19" holes spaced 3" on base)
Agency Approvals	cULus Listed

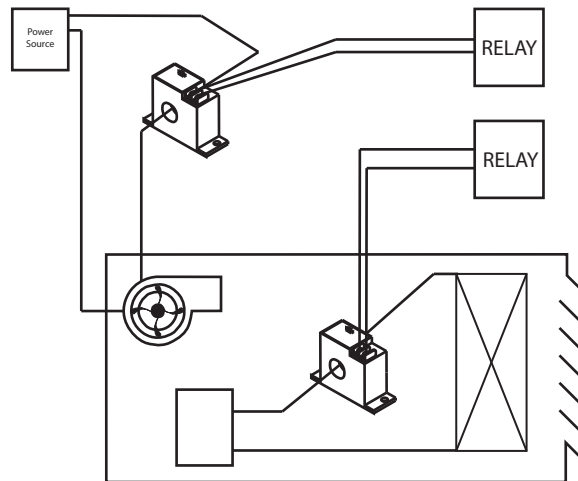
ORDERING INFO:

CS-625

Solid Core CS-425 and CS-625 Series Current Switch



Typical Installation



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RoHS
COMPLIANT



Greystone Energy Systems Inc. is one of North America's largest ISO registered manufacturers of HVAC/R sensors and transmitters for Building Automation Management Systems.

We have conscientiously established a worldwide reputation as an industry leader by maintaining leading-edge design technology, prompt technical support, and a commitment to on-time deliveries. We take pride in our Quality Management System which is ISO 9001 certified, assuring our customers of consistent product reliability.

GREYSTONE HAS AN ISO 9001 REGISTERED QUALITY SYSTEM