

### Service Entrance Automatic Transfer Switches

## Simple Solutions

**PSGSE is an automatic transfer switch designed with a utility circuit breaker to be used as service entrance equipment.**

### PSGSE Includes

- Automatic Transfer Switch (ATS)
- Utility Circuit Breaker
- Rated for 600 to 800 ampere (2,3 or 4 pole)
- Rated for 1000/1200 ampere (3 or 4 pole)
- Suitable for use as Service Entrance Equipment
- UL1008 Listed at 480 VAC
- Double-throw, mechanically interlocked contactor mechanism
- Electrically operated, mechanically held
- Designed for emergency and standby applications

### Design and Construction Features

- Includes integrated and pre-wired (Normal) Source 1 molded case circuit breaker (2 or 3 pole) for 600-800 amps and 3 pole for 1000/1200 amps.
- Includes mechanical lug connections for cables.
- Close differential 3 phase under-voltage sensing of Source 1 – factory standard setting 90% pickup, 80% dropout (adjustable).
- Voltage and frequency sensing of Source 2 – factory standard setting 90% pickup voltage, 95% pickup frequency (adjustable).
- Test switch (fast test/load/no load) to simulate normal source failure – automatically bypassed should Source 2 fail.
- NEMA Type 1 enclosure is standard with optional NEMA 3R available.
- Neutral Disconnect link and Ground bonding strap.

### INTERFACE

PSGSE includes a microprocessor based ATS control that provides full automatic control, switch status, timers and exercise functions.

### STANDARDS

- UL1008, UL 891  
(please reference specific switch drawing for more details)

### ENCLOSURE

- NEMA 1 and NEMA 3R  
(please reference specific switch drawing for more details)



**PSGSE Transfer Switch**  
Rated 480 VAC, 800 Amps  
3 pole in NEMA 1

## CONTROL SETTING RANGES

Control Function		Range	Factory Setting
Source 1 Line Sensing - Under-Voltage	Dropout	75-98%	80%
	Pickup	85-100%	90%
Source 2 Line Sensing - Under-Voltage	Dropout	75-98%	80%
	Pickup	85-100%	90%
Source 2 Line Sensing - Under-Frequency	Dropout	88-98%	90%
	Pickup	90-100%	95%
Time Delay - Engine Start	(Acc. P1)	0-10 seconds	3 seconds
Time Delay - Engine Cool Down	(Acc. U)	0-60 minutes	5 minutes
Time Delay - Transfer to Emergency	(Acc. W)	0-300 seconds	1 second
Time Delay - Retransfer to Normal	(Acc. T)	0-60 minutes	30 minutes
Delayed Transition Time Delays	(DT, DW)	0-600 seconds	5 seconds
Event Exerciser	(CDT)	5-60 min.	20 min.
		1,7,14 or 28 days load or no load	7 days no load

## DIMENSIONAL SPECIFICATIONS

Amp Rating	Poles	NEMA 1 Enclosure				NEMA 3R Enclosure				App. Notes
		H	W	D	Fig.	H	W	D	Fig.	
600	2,3,4	75(191)	39(99)	24(61)	A	75(191)	39(99)	24(61)	A	1-4
800	2,3,4	75(191)	39(99)	24(61)	A	75(191)	39(99)	24(61)	A	1-4
1000/1200	3,4	75(191)	39(99)	24(61)	A	75(191)	39(99)	24(61)	A	1-4

## WEIGHTS

Amp Rating	Poles	NEMA 1 Wt.	NEMA 3R Wt.
600	2	517(235)	582(265)
	3	533(242)	598(271)
	4	562(255)	627(285)
800	2	617(280)	682(310)
	3	627(285)	692(315)
	4	712(324)	797(362)
1000/1200	3	752(342)	817(371)
	4	837(381)	902(410)

## REFERENCE FIGURES

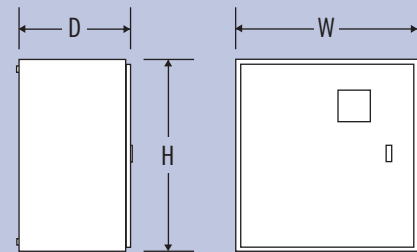


Figure A

## APPLICATION NOTES

1. Metric Dimensions (cm) and weights (kg) shown in parenthesis adjacent to English measurements.
2. Includes 1.25" door projection beyond base depth, Allow a minimum of 3" additional depth for projections of handle, lights, switches, push buttons, etc.
3. All dimensions and weights are approximate and subject to change without notice.
4. Packing materials must be added to weights shown. Allow 15% additional weight for cartons, skids, crates, etc.