

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 40 to 400 ampere (2,3 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

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)

Design and Construction Features

- Includes integrated and pre-wired (Normal) Source 1 molded case circuit breaker (2 or 3 pole) for 40-400 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.



PSGSE Transfer Switch
Rated 480 VAC, 260 Amps
4 pole in NEMA 3R

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. | |
| 40-80 | 2,3,4 | 48(122) | 36(92) | 18(46) | A | 48(122) | 36(92) | 18(46) | A | 1-4 |
| 100-200 | 2,3,4 | 48(122) | 36(92) | 18(46) | A | 48(122) | 36(92) | 18(46) | A | 1-4 |
| 225 | 2,3,4 | 48(122) | 36(92) | 18(46) | A | 48(122) | 36(92) | 18(46) | A | 1-4 |
| 260 | 2,3,4 | 48(122) | 36(92) | 18(46) | A | 48(122) | 36(92) | 18(46) | A | 1-4 |
| 400 | 2,3,4 | 48(122) | 36(92) | 18(46) | A | 48(122) | 36(92) | 18(46) | A | 1-4 |

WEIGHTS

| Amp Rating | Poles | NEMA 1 Wt. | NEMA 3R Wt. |
|------------|-------|------------|-------------|
| 40-80 | 2 | 210(96) | 245(112) |
| | 3 | 212(97) | 247(113) |
| | 4 | 216(99) | 251(114) |
| 100-200 | 2 | 215(98) | 250(114) |
| | 3 | 217(99) | 252(115) |
| | 4 | 221(101) | 256(117) |
| 225 | 2 | 222(101) | 257(117) |
| | 3 | 224(102) | 259(118) |
| | 4 | 228(104) | 263(120) |
| 260 | 2 | 231(105) | 266(121) |
| | 3 | 236(108) | 271(124) |
| | 4 | 240(109) | 275(125) |
| 400 | 2 | 315(144) | 350(159) |
| | 3 | 326(149) | 361(164) |
| | 4 | 350(159) | 385(175) |

REFERENCE FIGURES

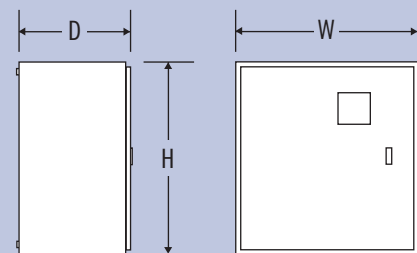


Figure A

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.