Eaton Type II Static Transfer Switch

Time is money as the world of business continues to move at breakneck speed. Downtime due to power problems can quickly escalate into significant lost revenue if the right infrastructure is not in place. In applications where seamless transfers of power are necessary due to the critical nature of the electrical load, the Eaton Type II Static Transfer Switch (STS) is the solution of choice. Type II STSs are high-speed open-transition switches that can transfer electrical loads from one AC power source to another in a fraction of a single electrical cycle. The Type II STS eliminates the chance of a loss of power to critical loads by properly coordinating with the electrical distribution system. During a fault condition, the Type II STS will continue to conduct current, allowing downstream circuit breakers to work selectively.

Designed by Cyberex, an industry leader in static switch technology, the Type II STS provides state-of-the-art technology and reliability. By incorporating a STS into a facilities power infrastructure, many UPS/building system configurations become a possibility, ranging from single module reverse transfer systems up to full distributed redundant systems.

Features

- Patented algorithm ensures instantaneous transfers without cross connection of sources
- Redundant internal power distribution in all system control boards
- Enhanced monitoring and diagnostics enhance system availability by enabling quick response to events:
  - RS-485 interface with Modbus protocol
  - System LCD control panel
  - Alarm, history and event logs
  - System mimic panel for visual indication with an audible alarm
- Design enables maintenance without affecting power to the critical load
- Digital signal processor based for high reliability and site-adaptability
- Fuse-free, rugged, high-reliability SCR devices eliminate the need to replace fuses

Standard features

- 100% continuous rating
- RS-485, four-wire interface with Modbus protocol
- Emergency 180˚ phase transfer
- Forced air cooling on all models
- Top or bottom cable entry
- Six plug-in circuit breakers (CBs)
- Fuse-free, rugged, high-reliability SCR devices eliminate the need to replace fuses
- Total access to all power connections for infrared scans
- Design enables system maintenance without affecting power to the critical load
- Digital signal processor based, fully digital controls for high reliability and site-adaptability
- System mimic panel for visual indication with an audible alarm
- Dual maintenance bypass with two kirk keys; protected to prevent operator error during bypassing operation
- Graphical user-interface
- Alarm log, history, and event log
- Real-time event log with 10 microsecond resolution between events
- Redundant cooling with fan fail sensing
- Lowest MTTR
- Multiple levels of user, maintenance and factory password protection
- Digitally controlled system setpoints
- Transfer count-date/time stamp
- Metering: kVA, kW, Ipeak, phase, current, voltage, frequency

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MODEL CHART

Part Number[1]	Current[2] Amps	Voltage Volts	Access	Dimensions, H x W x D (in)	BTU/Hr	Weight, lb
DSR020023262086N100	200	208	Front/Side/Rear[3]	77 x 34 x 34	2400	1200
DSR020023264806N100	200	480	Front/Side/Rear	77 x 34 x 34	2400	1200
DSR040023262086N100	400	208	Front/Side/Rear	77 x 34 x 34	3600	1200
DSR040023264806N100	400	480	Front/Side/Rear	77 x 34 x 34	3600	1200
DSR060023262086N100	600	208	Front/Side/Rear	77 x 34 x 34	4800	1400
DSR060023264806N100	600	480	Front/Side/Rear	77 x 34 x 34	4800	1400
DSR080023262086N065	800	208	Front/Side/Rear	77 x 46 x 34	6000	1800
DSR080023264806N065	800	480	Front/Side/Rear	77 x 46 x 34	6000	1800
DSR100023262086N065	1000	208	Front/Side/Rear	77 x 46 x 34	8400	2400
DSR100023264806N065	1000	480	Front/Side/Rear	77 x 46 x 34	8400	2400

1. Above units are 60 Hz applications with six (6) non-automatic circuit breakers rated 100 KAIC for 200 - 600A units; 65 KAIC for 800A units. Consult factory for other configurations. 2. Ampere ratings are continuous duty 100% rated. 3. All units require 36" clearance in front, rear, and right side, per local building code.

Options

- RS-232 communications interface with Modbus protocol
- Metering: power factor, kVA demand, harmonic analyzer
- Emergency power off (EPO); remote EPO
- Control power in bypass mode

Product Standards

- Conforms to NEMA standards
- UL 1008 listed
- Meets IEEE c62.41 and FIPS Pub 94
- Short circuit withstand: 200 - 600A models 100kA at 480V
  800 - 1000A models 65kA at 480V
- Temperature: 0-40˚C
- Audible noise: <65 dBA @ 2 meters (600A)

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France: 33.1.6012.7400
Germany: 49.0.7841.604.0
Italy: 39.02.66.04.05.40
Norway: 47.23.03.65.50
Portugal: 55.11.3616.8500
Sweden: 46.8.598.940.00
United Kingdom: 44.1753.608.700

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Australia: 61.2.9693.9366
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China: 86.21.6361.5599
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