STATYS Rack

Static Transfer Switch (STS): Providing optimal redundancy directly into your rack

from 32 to 100 A

Function

STATYS Rack is an intelligent Static Transfer Switch (STS) designed to increase power supply availability by seamlessly transferring the load to a redundant source.
In Data Centres, **STATYS Rack** makes use of the dual feed capability of your infrastructure allowing single-corded loads to access redundant power.
In industry, healthcare, infrastructure and other applications, **STATYS Rack** enhances availability of critical loads by bringing redundant power to any equipment.

Advantages

Advanced redundancy for optimal power availability
The STATYS Rack provides advanced level of redundancy in common with the entire STATYS Range, ensuring high power availability with no single point of failure.

- Dual redundant power supplies for control boards.
- Micro controller redundancy including history log & settings, physically separated.
- Independent and redundant power supplies for the SCR driver, which include SCR fault sensing.
- An 'auto-hold' feature that ensures continuity of power under any circumstances.
- Redundant cooling systems equipped with fan failure monitoring. Segregation of main functions to prevent internal fault propagation.

35 years of innovation driven by the field
Our technology is built on the experience gained from thousands of units installed and millions of hours of operation, ensuring the highest level of availability.

More flexibility for various applications
STATYS Rack offers configurations with 2, 3, or 4 wires, with or without a neutral wire.
Also available in cabinet version for non-rack applications.

- Flexible digital controls to adapt to any operational or electrical conditions.
- Greater versatility for direct integration into a standard 19" cabinet.
- Can to manage both synchronised and non-synchronised power sources.
- Tailored to specific electrical environment.
- Non-linear loads compatibility.

Advanced Transformer Switching Management (ATSM)
ATSM, a unique transfer method for the rackable solution developed by Socomec, manages magnetic loads such as transformers in power distribution systems. This feature protects against high transient currents after source transfers by controlling phase sequences, preventing high transients and spurious protection tripping during load transfers.

The solution for

- Industry
- Infrastructure & Transport
- Healthcare
- Building
- Data center

Strong points

- Advanced redundancy for optimal power availability
- More flexibility for various applications
- 35 years of experience
- ATSM

Conformity to standards

- IEC 62310 – 1
- IEC 62310 – 2
- IEC 60529
- CE
- UKCA

Expert services

We offer services to ensure the highest availability for your system:

- Commissioning
- On-site intervention
- Maintenances packages with scheduled preventive visits
- 24-hour call out and rapid on-site repairs
- Warranty extensions
- Training

Sustainability advantages

- Up to 91.1% recycling potential.
- 99% energy efficiency rating to limit the energy consumption.
- Manufactured in line with ISO 14001 certification.
- Enables the deployment of redundant architecture reducing the sizing of Genset, UPS systems and its batteries as well as cabling.
- RoHS & REACH compliant.
- PEP ecopassport® available.

socomec
Innovative Power Solutions

Standard Electrical features

- A smart and flexible transfer system that can be configured according to the type of load.
- Synchronised and non-synchronised sources compatibility (configurable synchronisation tolerance and switching management).
- Advanced Transformer Switching Management (ATSM)
- Output fault current sensing.
- Internal CAN Bus.
- Front accessible maintenance bypass with hot-swappable module.
- Mechanically & electronically secured bypass operation avoiding manipulation errors.
- Integrated Backfeed protection for single phase solution.

Standard communication features

- Slots for communication options.
- Dry-contact interface (configurable voltage-free contacts).
- Ethernet interface for STS monitoring via WEB pages.
- MODBUS TCP.
- Full digital configuration.

Remote monitoring and cloud services

- Remote monitoring and cloud services
- SoLive : mobile app enabling the monitoring of the STS systems from a smartphone.
- NET VISION: Professional WEB/SNMP Ethernet interface for secure STS monitoring.

Electrical options

- Fused or fuseless 3-phase only.
- 2-wire, 3-wire or 4-wire configuration.
- Advanced redundant design.

Communication options

- Dry-contact interface (configurable voltage-free contacts).
- MODBUS RTU RS485.
- PROFIBUS / PROFINET gateway.
- REMOTE VIEW PRO supervision software.

Technical data

	***STATYS* Rack**			
Rating (A)	32	63	63	100
ELECTRICAL CHARACTERISTICS				
Rated voltage	120 - 127 / 220 - 240 / 254V (±10 %)		208 - 220 / 380 - 415 / 440V (±10 %)	
Non-synchronised sources management	Configurable up to ± 180° (no restriction)			
Frequency	50 Hz ou 60 Hz (±5 Hz configurable)			
Number of phases	ph+N or ph-ph (+PE)		3ph+N or 3ph (+ PE)	
Number of poles switching	2 pole switching		3 or 4 pole switching	
Overload	150 % for 2 minutes – 110 % for 60 minutes			
Efficiency	99 %			
Admissible power factor	No restrictions			
ENVIRONMENT				
Operating ambient temperature	From 0°C to 40°C			
Relative humidity	95 % non-condensing			
Maximum altitude	1 000 m a.s.l without derating			
Acoustic level at 1 m (ISO 3746)	≤ 45 dBA		≤ 60 dBA	
STANDARDS				
Safety	IEC 62310, IEC 60529			
EMC	C2 category (IEC 62310-2)			
Product certification	CCE, RCM (E2376)			
Degrees of protection	IP 20			
DIMENSIONS				
Width (mm)	483		483	
Depth (mm)	747		648	
Height (mm)	89		400	
Weight (kg)	26		58	