

## Ripple Control Transmitter SRS-1008 .. 3400

The RC transmitter family SRS includes converter types in a power range from 8 kVA to 400 kVA. The SRS is optimized to the particular needs of ripple control applications.

### Flexible and future-proof

- Compatible with all types of coupling cells
  - Strong parallel injection
  - KI-parallel injection
  - Loose parallel injection
  - 1000 V serial injection
  - Serial injection transformers
  - Low voltage injection (SRS-1008 and 1023)
- Output power from 8 kVA up to 400 kVA
- Current limitation and regulation function
- Programmable transmitter interface
- User-friendly construction using different functional modules (transmitter interface, power module, output unit)

All modules are developed and built by Swistec. The SRS power module is based on state of the art "fast trench + field stop" IGBT-modules that are freely available on the market. Its production is independent of third party suppliers, Swistec can guarantee long-term availability and warranty for SRS power modules - just like for all Swistec-product.

### Integrated and communicative

- The Swistec-controller family RKS and the transmitter family SRS are compatible with each other and can act as one.
- The transmitter can be configured directly by the local controller RKS-12.
- All measurement values are permanently available.
- Thanks to the integrated RKS-concept remote configuration is possible by the central controller.
- The transmitter configuration files are administrated by the central controller.

Since the SRS is closely connected with the RKS-controller system it adds a new quality of transparency to ripple control transmitters. The maintain-ability as well as the reliability of the operations will be significantly enhanced.

### Expandable and universal

- Redundant operation (optional).  
2 transmitters operate as a redundant pair in order to enhance the operation reliability.
- Customer-specific options can be realized easily.
- The local controller unit (LCU) fits in the same cabinet.
- Additional equipment fits in the transmitter cabinet.



Transmitter control module SRS-ANS

- Conventional control via the signals keying and standby or one channel control.
- Coded check-back signals.
- Programmable alarm outputs

Using the new programmable transmitter interface module the transmitter can be easily adapted to the local requirements.

## Technical data

### Power modules overviews

- SRS-3040 40 (55) kVA 60 (83) A
  - SRS-3060 60 (83) kVA 90 (124) A
  - SRS-3090 90 (110) kVA 130 (160) A
  - SRS-3120 120 (144) kVA 180 (216) A
  - SRS-3200 200 (220) kVA 280 (300) A
  - SRS-3300 300 (310) kVA 420 (450) A
  - SRS-3400 400 (410) kVA 570 (585) A
- Duty cycle 20% (5%)

Version for low voltage injection

- SRS-1008 8 kVA 10 A
- SRS-1023 23 kVA 60 A

### Mains input

- Input voltage 3 x 400 VAC +/-10%
- Input frequency 50 oder 60 Hz

### Digital inputs

- Alert
- Keying / standby or single channel
- 3 outputs on / off (signal from coupling cell)
- 1 output frequency
- switching between 2 configurable frequencies (programmable)
- 1 output voltage  
switching between 2 configurable output voltages

### External input frequency

- Pilot frequency (from RKS-12 or existing GPS – pilot frequency generator)
- Switch internal /external (programmable)
- Configurable behavior if the pilot frequency signal is missing (programmable)

### Interface

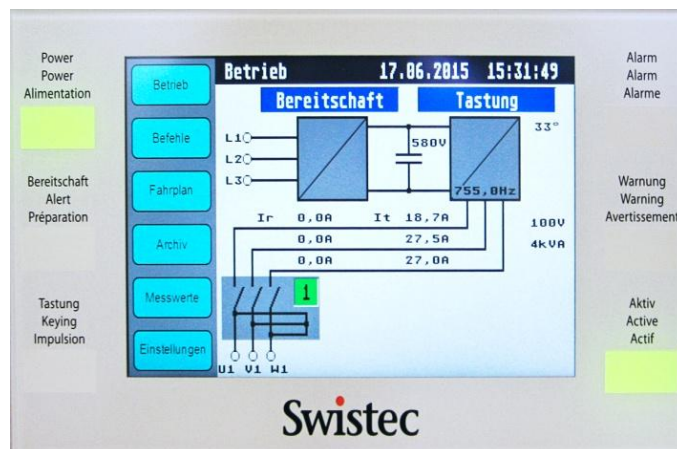
- TCP/IP, RJ 45
- RS 232

### Configuration

- RKS-12 Touch-Panel
- RS 232 with PC Configuration programm

### Supervision functions

- Duty cycle supervision
- Pulse length supervision
- Event memory up to 10000 events
- Alarm memory up to 10000 alarm events



Touch screen for display and operating

### Power output

- 1-3 outputs
- Output voltage 50..400 V, selectable
- 2 output voltages, switchable via external inputs
- Output frequency 110 – 1600 Hz, 2 frequencies, switchable via external input
- Maximum switch frequency of power converter 8 kHz
- Output current limitation, configurable
- Current control, configurable
- Short-circuit-proof

### Output configuration

- Output contactor and short circuit contactor for fixed parallel injection.
- Output contactor and output transformer for loose ans KI parallel injection.
- Output transformer und output ripple-control filter for serial injection.
- Short circuit contactor, output transformer and output ripple-control filter for low voltage injection.

### Ambient temperature

- 0° -45°, with fan over 30° or 35° selectable



**Intelligent Energy Management Systems**

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