The classic Ripple Control Receiver for DB mounting SRvario

The SRvario is a state-of-the-art ripple-control receiver of the newest generation for three-point mounting on the meter cross with its outer dimension fulfilling DIN 43861-2 requirements.

With its big variety of pluggable relays (up to four 40A or six 16A relays) the SRvario is always the first choice when multiple switching tasks need to be complied with.

The SRvario is also the best choice when old receivers need to be replaced.

Features

- 1 to 6 relays 230 V, 16 A two-way contact
- 1 to 4 relays 230 V, 40 A normally open contact
- Relays, pluggable, with blind cover for unused slots
- USB-interface and optical interface in accordance with IEC 62056-21 for parameterization, ripple-control signal analysis and protocol evaluation
- In case of parameterization via USB, no supply voltage connection is necessary.
- Pluggable PROM as alternative, simple solution for parameterization tasks (optional)
- DIN-rail mounting in accordance with DIN EN 60715 possible
- Swistra®-functionalities (option)
- Underfrequency detection

Technology

All Swistec ripple control receivers use state-of-the-art, recently developed filter algorithms capable of reliably processing ripple control signals with operating voltages below 0.3% Un – a result of state-of-the-art processor technology combining high CPU power with little power consumption.

Time Program Functions

- Internal clock (remotely synchronised) for autonomous operation of up to 8 work schedules with 15 switching times each
- Free assignment of work schedules to the relays
- Real-time clock with super-cap (option), voltage interruptions can be bridged for a minimum of 48 hours

Programming

The programming can be done via the standard optical interface (acc. to IEC 62056-21) or via an optional USB interface.

As an alternative, a plug-in PROM is available allowing the programming of the SR*vario* by simply plug in a pre-programmed PROM – ideal if large-scale production is foreseen.

Logging

Each received ripple control signal is logged and can be traced using an attached PC or laptop. This feature allows easier trouble shooting in case of any dysfunction of the device that is controlled by the SR*vario*.

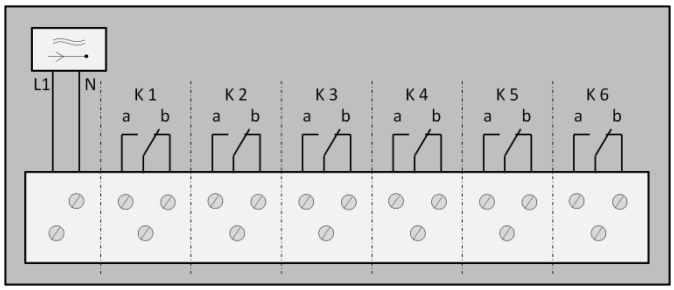
Technical Data

Right of any modification is reserved / release 2.0

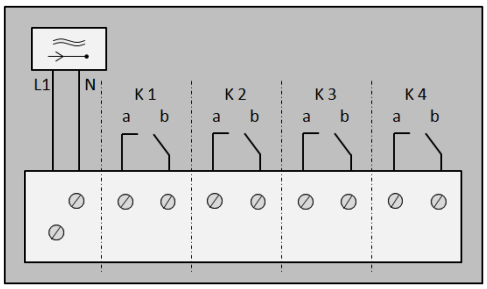
Power supply:	• Mains voltage	230 VAC + 15% ... -20%	
	• Frequency of mains voltage	50 Hz +2% ... -2%	
	• Power consumption	< 1W/10VA cap.	
	• Surge voltage resistance	12 kV 1.2/50 µs acc. to IEC 60060-1	
Filter data:	• Operating frequency	110 – 2000 Hz (programmable)	
	• Operating voltage	U_f > 0.3% U_n and U_f > U_{nf}	
	• Non-operating voltage	U_{nf} ≥ 0.1% U_n	
	• Maximum control voltage	8 to 15 times U_f (depending on frequency)	
	• *Swistra*® functions	Available, option	
Output data:	• Type	**16A relays**	**40A relays**
	• Number of relays	up to 6 (bistable, change over contact free of potential, idle position is programmable)	up to 4 (bistable, normally open contact free of potential, idle position is programmable)
	• Nominal switching voltage U_c	250 V, 50 Hz	250 V, 50 Hz
	• Nominal switching current I_c	16 A	40 A
	• Optical indication of relay position	latch	latch
	• Terminals	from 1 x 1.5mm² up to 1 x 4mm² or 2 x 2.5mm²	from 1 x 1.5mm² up to 1 x 10mm² or 2 x 4mm²
Real-time clock	• Accuracy	+/- 20 x 10-6	
	• Power reserve (option)	> 48 hours	
Resistance to climatic conditions:	• Operating temperature	-25 ... +70°C	
	• Storage temperature	-30 ... +80°C	
Design:	• Protection	IP 53	
	• Size (height x width x depth)	without extended mounting device: 170 x 105 x 61mm with extended mounting device: 185 x 105 x 61mm	

Circuit Diagrams

Fitted with up to 6 16A relays:



Fitted with up to 4 40A relays:



Swistec

Intelligent Energy Management Systems

Ripple Control | Smart Solutions | Transformers

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