

Power Distribution System SVS09 for DC 24 V

Overcurrent protection with integral signalling module



Technical information

Power Distribution System SVS09 for DC 24 V

Modern highly automated systems and plants heavily depend on each and every component, from the high level process control system to individual machines and their constituent parts.

Reliable integration into a complete system of complex measuring and control functions with numerous transducers, actuators and valves requires special attention. It is vital to ensure that failure signals especially are transferred reliably to the processor. The E-T-A SVS09 power distribution system, with its 10 plug-in sockets, can be cascaded on the master-slave-principle to provide

a flexible and economic solution to many specific requirements.

Integral pre-wiring of load and signal lines helps to save space in control cabinets and at the same time reduces the time and cost of planning, installation, start-up and diagnostics.

The 10 ways of the SVS09 will accommodate E-T-A electronic circuit breakers or protectors types ESS20 or ESX10, for selective overcurrent protection, as well as thermal-magnetic circuit breaker types 2210, 3600 and 3900. Integral single

and group signalisation facilitate indication both of local faults in the control cabinet and elsewhere in the system. Remote acknowledgment of the group alarm is possible by means of a momentary switch or PLC signal. The master-slave-cascading allows transducers, actuators, valves, distributed PLCs, intelligent terminals etc. to be clustered into distinct function groups and to be conveniently incorporated into the plant's overall alarm monitoring scheme. The SVS09 is configurable via wire bridges, is scalable upon demand and track-mountable to provide an efficient and cost-effective protection and signalling concept.

Technical Data

Entry line +24 V DC	1 x LINE (+) 10 mm ² spring-loaded terminal 1 x GND (-) 10 mm ² (self-supply)
Number of sockets	10 per SVS09
Cascading	1 SVS09 master with 5 SVS09 slaves
Protected load outputs	1 x load L (+) per socket (2.5 mm ²)
Current load	max. total current per SVS09: 30 A max. rated current per socket: 4 A
Suitable circuit breakers/protectors	ESS20-003, ESX10-103, 2210-S21, 3600, 3900
Signalling	integral signalling module SIGMO-09-100: 1 single signalling per socket 1 group signalling per SVS09 cascade
Acknowledgment of group signalling	locally per momentary switch on SVS09 or locally / remotely per momentary switch / signal (break contact N/C)
Reset of single signalling	locally per manual reset switch on tripped circuit breaker
Local status indication	group fault: red LED on SVS09 single fault: on circuit breaker (LED; button)
Dimensions	139.50 x 105.40 x 53.50 mm (without CBEs)

Features and benefits

- Cost- and space-saving installation and wiring
- Optimised failure indication and communication with remote group signalling and acknowledgment
- Ease of extension of the DC 24 V system through cascading
- Enhanced system availability, reduced downtime through professional overcurrent protection
- UL1077 and UL2367 approvals of the circuit breakers ensure suitability for international applications



Power distribution system SVS09-10 fitted with electronic circuit breaker types ESS20.



Cascaded SVS09 providing selective overcurrent protection and integral signalling module, fitted with circuit breaker types ESS20, 2210 and 3600.



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