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Description

The SVS04 power distribution system for symmetrical DIN rail mounting is designed to distribute power from a switch-mode power supply to 4 or 8 channels. Selective protection of the load output circuits is provided by the plug-in type circuit breakers installed. With a max. load current of 8A per channel and a max. total current of 40A the SVS04 provides ease of wiring in short circuit current limited DC24V applications. Five protected "L+" load outputs per way and 15 or 30 minus terminals significantly reduce wiring time enormously.

Electronic circuit breaker ESS20-003, electronic circuit protector ESX10-103 and thermal-magnetic circuit breakers 2210-S21 are all suitable for use with the SVS04, plugging directly into the sockets provided for each of the 4 or 8 outputs.

Ordering information

Туре power distribution system for types ESS20-003, ESX10-103, SVS04

- 2210-S21 for short circuit current limited DC 24 V applications
- max. 40 A continuous load
- one integral circuit breaker (CB1): overcurrent protection of group signalisation, red LED flashes upon trip of CB1
- including 1 insulated wire bridge Y 303 881 08

	essones	. jumper	3D-311-F1-01-1-1A	
		for unu	sed ways, please order separately	
Vei	Version, max. number of circuit breakers on the power distribution system			
dis				
04 4 circuit breakers F1F4)			ers F1F4)	
08	8 circu	cuit breakers (F1F8)		
	Fitted versions			
	B10 s	tandard	: fitted with screwless spring-loaded	
	te	erminals	(max. 2.5 mm ² , without wire end ferrule)	
	B20 fi	tted wit	h plug-in type screw terminals (max. 2.5 mm ² ,	
	without wire end ferrule)			
	C10 fitted with pcb terminals, spring-loaded terminals			
	(max. 2.5 mm ² , without wire end ferrule)			
Ň		linus te	erminals	
	_	15	minus terminals	
	K	01 30	minus terminals (only for SVS04-08)	
		S	pecial marking	
		SI	301 with marked terminals	
			entry line +++/	
			remaining terminals 1/2/3/4/5	

SVS04 - 04 - B10 - K01 - SB01

SVS04-08-...

Technical data

DC 24 V supply DC 24 V terminals, 2x3 terminals (screwless terminals max. 10 mm²), for current supply - DC 24 V (+) = (X21) +/+/+ - DC 24 V (-) = (X21) -/-/-Integral loop-through, for wiring and additional connection of an external buffer module. F positions Number of ways for circuit breakers, suitable for types ESS20-003, ESX10-103, 2210-S21 SVS04-04... F1...F4 = terminals X1...X4 SVS04-08... F1...F8 = terminals X1...X8 Plug jumper SB-S11-P1-01-1-1A into unused ways (please order separately, see accessories) Load outputs 5 x L+ protected per position F1...F4 (F1...F8), led through terminals X1...X4 (X1...X8), max. 2.5 mm² load current max. 8 A per position Signalisation signalisation terminal X31, 5-pole, max. 2.5 mm² DC 24 V feed from terminal X21, protected by +: integral circuit breaker CB1 total current max. 0.5 A group signalisation: S line feed DC 24 V, insert insulated wire bridge Y 303 881 08 (bulk shipped) between + and GR AS: output of group signalisation two-group signalisation GR: line feed, insert insulated wire bridge Y 303 881 08 (bulk shipped) between + and GR AS: output group A (X5...X8) B: output group B (X1...X4) Minus terminals 3 x 5 terminals (X22, X23, X24) or 6 x 5 terminals (X22, X23, X24, X25, X26, X27): version K01 Termination For signalisation, load outputs and minus terminals: B10: screwless spring-loaded terminals max.

2.5 mm², with integral test socket B20: plug-in type screw terminals max 2.5 mm²,

C10: pcb terminal/spring-loaded terminal max. 2.5 mm²,

 temperature range: 0...50 °C (without condensation) for symmetrical DIN rail mounting EN50022 – 35 x 7.5

with integral test socket

with integral test socket

dielectric strength AC 500 V

pollution degree 2

protection class to DIN 40050: IP20 insulation co-ordination to IEC 60934: 0.5 kV

• dimensions: see dimensional drawings

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General data

Wiring example: SVS04-04... with ESS20-003 and group signalisation



Wiring example: SVS04-04... with ESS20-003 and two-group signalisation



Dimensions SVS04-04-... (with 15 minus terminals)



Schematic diagram SVS04-04-... (fitted with ESS20-003)



Dimensions SVS04-04-..., fitted with ESS20-003



This is a metric design and millimeter dimensions take precedence $(\frac{mm}{inch})$

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Dimensions SVS04-08-... (with 15 minus terminals)



This is a metric design and millimeter dimensions take precedence ($\frac{mm}{inch}$)

Dimensions SVS04-08... K01 (with 30 minus terminals)



Schematic diagram SVS04-08... K01 (fitted with ESS20-003)



Dimensions SVS04-08... K01, fitted with ESX10-103



This is a metric design and millimeter dimensions take precedence ($\frac{mm}{inch}$)

Application example for jumper to replace

The signalling pathway of the group signalisation is as follows: - feed-in of +DC 24 V potential in X31 (»+« terminal)

- via in-built overcurrent protection CB1
- via all signal contacts of the fitted circuit breakers type ESS20-003

- back to signal output of group signalisation X31 (»AS«)

In operating condition (i.e. all circuit breakers plugged in and functional) the signalling pathway X31 from <code>w+w</code> to <code>wASw</code> is closed.

If the distribution rail is not completely fitted with ESS20-003, the open pathway »+« to »AS« may be closed by means of a jumper type SB-S11-P1-01-1-1A



Application example for insulated wire bridge



This is a metric design and millimeter dimensions take precedence $(\frac{mm}{inch})$

Accessories

Jumper SB-S11-P1-01-1-1A top view Germany Germany Signalbrücke ઉન∿≙ે Signal loop SB-S11-P1-01-1-1A -t-a.de Ŵ CE XXXX 60 2.36 Signalbrücke Signal loop 2.76) () (AC 240 V / DC 65 V, 1 A 000 12.3 .484 10.3 406 blade terminals DIN 46244-A 6.3-0.8 terminals 13+14 bridged

Insulated wire bridge Y 303 881 08

1 piece of the insulated wire bridge are supplied with the power distribution system. The insulated wire bridges may be used for:

- terminal X31: internal DC 24 V feed for group signalisation wire bridge from (+) to (S) signal path protected by CB1
- terminal X31: internal DC 24 V feed for two-group signalisation wire bridge from (+) to (GR) signal path protected by CB1



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All dimensions without tolerances are for reference only. In the interest of improved design, performance and cost effectiveness the right to make changes in these specifications without notice is reserved. Product markings may not be exactly as the ordering codes. Errors and omissions excepted.