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Spring Cage Fuse Terminal Blocks ST

Spring cage fuse terminal blocks from Phoenix Contact satisfy two important tasks of electrical connection systems. Firstly, they act as carriers for fuses and secondly, they assume the task of potential distribution. The universal ST bridge shaft makes continuous bridging possible between ST feed-through terminal blocks and ST fuse terminal blocks.

ST 4-HESI can be used for the 5 x 20 mm fuse format, which is a standard in electrical engineering. It is also available with a light indicator for signaling a triggered fuse.

ST 4-HESI (6,3 x 32) is characterized by the double bridge shaft located in the same position as in the entire ST series.

This opens up all options for power distribution. To make it practical to use, test connections are provided on both sides of the standardized ($6.3 \times 32 \text{ mm}$) fuse inserts. Terminal blocks with a light indicator are available to signal the triggering of a fuse.

The large-surface labeling option on the fuse lever enables fast identification of the fused circuits.

Flat-type fuses in accordance with ISO/DIS 8820/ DIN 72581-3 or alternatively the TCP thermal miniature circuit breaker can be used as the fuse element in the **ST 4-FSI/C** fuse terminal block. Terminal blocks with a light indicator are available for quick error diagnosis "at a glance". A wide range of potential distribution options can be implemented using the ST bridge shaft which is integrated in this terminal block.

Attention:

The cartridge fuse holders should be selected according to the maximum power dissipation (self-heating) of the cartridge fuse inserts. The thermal conditions in closed fuse holders should be checked according to the application and installation.

Higher ambient temperatures

are an additional strain on fuse inserts. In applications of this kind, the shift of the rated current should be taken into consideration accordingly.



Spring Cage Fuse Terminal Block ST 4-HESI (5 x 20)

(IEC) [mm ²]	rigid solid	flexible stranded	AWG	І [А]	U [V]		
DIN VDE 0611							_
with fuse	0.08-6	0.08-4	28-10	1)	1)		
as disconnect term	n.bl.0.08-6	0.08-4	28-10	6.3	250		
1) see table below (the current is determined by the fuse used)							

abaical dat



Technical data			Туре	Order No.	<u>Pcs.</u> Pkt.
Fuse terminal block, for mounting for cartridge fuse inserts 5 x 20 mm		terminal width 6.2	ST 4-HESI (5 x 20)	30 36 36 9	50
(1) Plug-in bridge, for cross-connections in the terminal center	2-pos. 3-pos. 4-pos. 5-pos. 10-pos. 20-pos.	00 0000	FBS 2-6 I _{max} : 32 / FBS 3-6 32 / FBS 4-6 32 / FBS 5-6 32 / FBS 10-6 32 / FBS 20-6 32 /	30 30 24 2 30 30 25 5 30 30 30 34 9 30 30 30 27 1	50 50 50 50 10 10
(2) Partition plate , for visual and electrical separation of terminal groups, 2 mm thick		J.	ATP-ST 4	30 30 72 1	50
(3) Screwdriver , for actuating the tension spring			SZF 1 - 0,6 x 3,5	12 04 51 7	10
(4) Zack strip, flat, for labeling the center and outer marker grooves	white		ZBF 6:UNPRINTED	08 08 71 0	10
(5) Zack strip , 10-section, for labeling on the fuse lever	white	1111111	ZB 5:UNPRINTED	10 50 00 4	10
Dimensions					
Width / length		[mm]		6.2 / 61.5	
Height (NS 35/7,5 / NS 35/15)		[mm]		62.5 / 70	
Technical data in accordance with	h IEC/ DIN VE	DE			
Fuse type ISO/DIS 8820/DIN 72 58	1-3 / dimensio	ons – / [mm]	(G / 5 x 20	
Max. power dissipation					
at 23 °C based on E DIN VDE 0611		[W]		1)	
Rated surge voltage / contamination		[kV] / —		4/3	
Surge voltage category / insulation	material grou	o – / –		III / I	
Connection capacity					
Stranded with ferrule with plastic sle		[mm ²]		0.25 - 4	
Stranded with ferrule without plastic		[mm ²]		0.25 - 4	
Stranded with TWIN ferrule with pla	stic sleeve	[mm ²]		0.5 - 1	
Stripping length		[mm]		10	
Internal cylindrical gauge (IEC 60	947-1)			A 4	
Insulating material				PA	
Inflammability class in acc. with UL				V0	
Approval data (UL and CSA/CUL)					
Nominal voltage / current / conducto		JL: [V] / [A] / AWG		-	
	CSA/CL	JL: [V] / [A] / AWG		-	

Cartridge fuse terminal blocks based on E DIN VDE 0611-6: 2001-04

Max. power dissipation at 23°C (based on E DIN VDE 0611-6:2001-04)

When selecting cartridge fuse inserts, please ensure that the maximum power dissipation specified below is not exceeded. Details can be obtained from the fuse suppliers.

Terminal block type	U	Overload	protection	Short-circuit pr	rotection only
	[V]	Single	Interconnected	Single	Interconnected
ST 4-HESI (5 x 20)	250	2.5 W	1.6 W	4.0 W	2.5 W

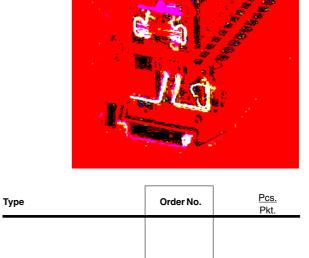
Spring Cage Fuse Terminal Blocks with Light Indicator

ST 4-HESILED and ST 4-HESILA (5 x 20)

(IEC) [mm ²]	rigid solid	flexible stranded	AWG	 [A]	U [V]	
DIN VDE 0611						
with fuse	0.08-6	0.08-4	28-10	1)	1)	
as disconnect terr	m.bl.0.08-6	0.08-4	28-10	6.3	250	
 see table below light indicator se 		is determined	d by the f	use us	ed, the v	oltage by the

2) If the fuse is defective, the downstream circuit is not off load.

Technical data



					PKI.
Fuse terminal block ²), for m for cartridge fuse inserts 5 x t light indicator for:	20 mm, with				
15 - 30 V AC/DC,	3.5 - 8.1 mA	terminal width 6.2	ST 4-HESILED 24	30 36 54 7	50
30 - 60 V AC/DC,	0.8 - 2.0 mA	terminal width 6.2	ST 4-HESILED 60	30 36 55 0	50
110 - 250 V AC/DC,	0.5 - 1.0 mA	terminal width 6.2	ST 4-HESILA 250	30 36 56 3	50
(1) Plug-in bridge, for	2-pos.		FBS 2-6 I _{max} : 32 A	30 30 33 6	50
cross-connections in the	3-pos.		FBS 3-6 32 A FBS 4-6 32 A	30 30 24 2 30 30 25 5	50
terminal center	4-pos. 5-pos.		FBS 4-6 32 A FBS 5-6 32 A	30 30 25 5	50 50
	10-pos.	<u>00</u> 000	FBS 10-6 32 A	30 30 27 1	10
	20-pos.		FBS 20-6 32 A	30 30 36 5	10
(2) Partition plate , for visual and electrical separation of terminal groups, 2 mm thic			ATP-ST 4	30 30 72 1	50
(3) Screwdriver, for actuating the tension spring			SZF 1 - 0,6 x 3,5	12 04 51 7	10
(4) Zack strip, flat, for labelin center and outer marker groc			ZBF 6:UNPRINTED	08 08 71 0	10
(5) Zack strip, 10-section, fo					
labeling on the fuse lever	white		ZB 5:UNPRINTED	10 50 00 4	10
Dimensions				_ /	
Width / length	->	[mm]		2/61.5	
Height (NS 35/7,5 / NS 35/15	,	[mm]	62	2.5 / 70	
Technical data in accordan					
Fuse type ISO/DIS 8820/DIN	72 581-3 / dimen	sions – / [mm]	G	/ 5 x 20	
Max. power dissipation					
at 23 °C based on E DIN VD				1)	
Rated surge voltage / contan		[kV] / –		4/3	
Surge voltage category / insu	lation material gro	oup -/-		III / I	
Connection capacity					
Stranded with ferrule with pla		[mm ²]	C	.25 - 4	
Stranded with ferrule without		[mm ²]	C	.25 - 4	
Stranded with TWIN ferrule w	vith plastic sleeve	[mm ²]		0.5 - 1	
Stripping length		[mm]		10	
Internal cylindrical gauge (IEC 60 947-1)			A 4	
Insulating material				PA	
Inflammability class in acc. w	rith UL 94			V0	
Approval data (UL and CSA	VCUL)				
Nominal voltage / current / co	onductor sizes	UL: [V] / [A] / AWG		-	
	CSA/0	CUL: [V] / [A] / AWG		-	

Cartridge fuse terminal blocks based on E DIN VDE 0611-6: 2001-04

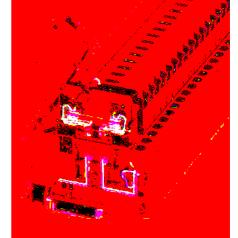
Max. power dissipation at 23°C (based on E DIN VDE 0611-6:2001-04)

When selecting cartridge fuse inserts, please ensure that the maximum power dissipation specified below is not exceeded. Details can be obtained from the fuse suppliers.

Terminal block type	U	Overload protection		Short-circuit protection only	
	[V]	Single	Interconnected	Single	Interconnected
ST 4-HESI	250	2.5 W	1.6 W	4.0 W	2.5 W

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Spring Cage Fuse Terminal Block ST 4-HESI (6,3 x 32)



(IEC)	rigid	flexible		1	U		
[mm ²]	solid	stranded	AWG	[A]	[V]		
IEC 60 947-7-3	0.08-6	0.08-4	28-10	10*	400*		
* Current and voltage are determined by the fuse used.							

Technical data Pcs. Order No. Туре Pkt. Fuse terminal block, for mounting on ____, ST 4-HESI (6,3 x 32) 30 36 38 5 for cartridge fuse inserts 6.3 x 32 mm, black terminal width 8.2 50 (1) Plug-in bridge, for FBS 2-8 I_{max}: 32 A 30 30 28 4 10 2-pos. FBS 3-8 32 A 30 30 29 7 10 cross-connections in the 3-pos. terminal center 4-pos. FBS 4-8 32 A 30 30 30 7 10 32 A 30 30 31 0 5-pos. FBS 5-8 10 10-pos. FBS 10-8 32 A 30 30 32 3 10 (2) Partition plate, for visual and electrical separation ATP-QTC TWIN 32 06 21 2 50 of terminal groups, 2 mm thick (3) Adapter bridge, for connecting an ST 4-HESI (6,3 x 32) to an ST 4, ST 2,5 or QTC 1,5 RB ST 6-(2,5/4) 30 30 86 0 50 (4) Screwdriver, for actuating the tension spring SZF 1 - 0,6 x 3,5 12 04 51 7 10 (5) Zack strip, flat, for labeling the **ZBF 8:UNPRINTED** 08 08 78 1 10 white center and outer marker grooves (6) Zack strip, 10-section, for labeling on the white **ZB 6:UNPRINTED** 10 51 00 3 10 fuse lever Dimensions 8.2 / 76.5 Width / length [mm] Height (NS 35/7,5 / NS 35/15) [mm] 69 / 76.5 Technical data in accordance with IEC/ DIN VDE Fuse type ISO/DIS 8820/DIN 72 581-3 / dimensions – / [mm] G / 6 x 32 Maximum current with single arrangement [A] 10 Max. power dissipation at 23 °C based on E DIN VDE 0611-6: 2001-04 see table [W] Rated surge voltage / contamination class [kV] / – 6/3 Surge voltage category / insulation material group III / I-/-**Connection capacity** Stranded with ferrule with plastic sleeve [mm²] 0.25 - 4 Stranded with ferrule without plastic sleeve 0.25 - 4 [mm²] Stranded with TWIN ferrule with plastic sleeve 0.5 - 1 [mm² 10 Stripping length [mm] Internal cylindrical gauge (IEC 60 947-1) A 4 Insulating material PA Inflammability class in acc. with UL 94 V0 Approval data (UL and CSA/CUL) Nominal voltage / current / conductor sizes UL: [V] / [A] / AWG applied for 600 / 10 / 24-10 CSA/CUL: [V] / [A] / AWG applied for 600 / 10 / 24-10

Cartridge fuse terminal blocks based on E DIN VDE 0611-6: 2001-04

Max. power dissipation at 23°C (based on E DIN VDE 0611-6:2001-04)

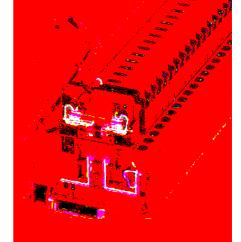
When selecting cartridge fuse inserts, please ensure that the maximum power dissipation specified below is not exceeded. Details

can be obtained from the fuse suppliers.

Terminal block type	U	Overload protection		Short-circuit	I _{max.}	
	[V]	Single	Interconnected	Single	Interconnected	[A]
ST 4-HESI (6,3 x 32)	400	1.6 W	1.6 W	4.0 W	2.5 W	10

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Spring Cage Fuse Terminal Block ST 4-HESILED and ST 4-HESILA (6,3 x 32)



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(IEC)	rigid	flexible		1	U		
[mm ²]	solid	stranded	AWG	[A]	[V]		
IEC 60 947-7-3	0.08-6	0.08-4	28-10	10*	400*		
* Current and voltage are determined by the fuse used							

* Current and voltage are determined by the fuse used. 1) If the fuse is defective, the downstream circuit is not off load.

Technical data

Technical data			Туре	Order No.	<u>Pcs.</u> Pkt.
Fuse terminal block ¹), for mo for cartridge fuse inserts 6 x 3 light indicator for:					
15 - 30 V AC/DC, 110 - 250 V AC/DC,	1 - 2.5 mA 0.5 - 2.5 mA	terminal width 8.2 terminal width 8.2	ST 4-HESILED 24 (6,3 x 32) ST 4-HESILA 250 (6,3 x 32)	30 38 76 5 30 38 77 8	50 50
(1) Plug-in bridge , for cross-connections in the terminal center	2-pos. 3-pos. 4-pos. 5-pos. 10-pos.	มน นมแน	FBS 2-8 Imax: 32 A FBS 3-8 32 A FBS 4-8 32 A FBS 5-8 32 A FBS 10-8 32 A	30 30 28 4 30 30 29 7 30 30 30 7 30 30 31 0 30 30 32 3	10 10 10 10 10
(2) Partition plate , for visual and electrical separation of terminal groups, 2 mm thick			ATP-QTC TWIN	32 06 21 2	50
(3) Adapter bridge, for conne ST 4-HESI (6,3 x 32) to an ST		C 1,5	RB ST 6-(2,5/4)	30 30 86 0	50
(4) Screwdriver , for actuating the tension spring			SZF 1 - 0,6 x 3,5	12 04 51 7	10
(5) Zack strip, flat, for labeling center and outer marker groov			ZBF 8:UNPRINTED	08 08 78 1	10
(6) Zack strip, 10-section, for labeling on the fuse lever	white	1. IIIIIII	ZB 6:UNPRINTED	10 51 00 3	10
Dimensions		[mm]		/ 76 5	
Width / length Height (NS 35/7,5 / NS 35/15)		[mm] [mm]		2 / 76.5 / 76.5	
Technical data in accordance		<u> </u>		770.0	
Fuse type ISO/DIS 8820/DIN			G/	6 x 32	
Maximum current with single a	arrangement	[A]		10	
Max. power dissipation					
at 23 °C based on E DIN VDE	0611-6: 2001-04	· [W]	se	e table	
Rated surge voltage / contami	nation class	[kV] / –		6/3	
Surge voltage category / insul	ation material gro	oup _ / _		111 / 1	
Connection capacity					
Stranded with ferrule with plas		[mm ²]		25 - 4	
Stranded with ferrule without p		[mm ²]		25 - 4	
Stranded with TWIN ferrule wi	th plastic sleeve	[mm ²]	0	.5 - 1	
Stripping length	C 60 047 1)	[mm]		10	
Internal cylindrical gauge (II	20 00 947-1)			A 4 PA	
Insulating material				PA V0	
Inflammability class in acc. wit				vu	
Approval data (UL and CSA/ Nominal voltage / current / cor	,		onnlied for	600 / 10 / 24-10	
Nominal voltage / current / cor		UL: [V] / [A] / AWG CUL: [V] / [A] / AWG		500 / 10 / 24-10 500 / 10 / 24-10	
	USAN			000/10/24-10	

Cartridge fuse terminal blocks based on E DIN VDE 0611-6: 2001-04

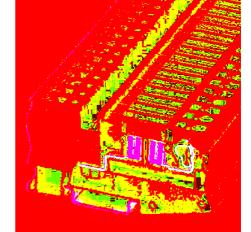
Max. power dissipation at 23°C (based on E DIN VDE 0611-6:2001-04)

When selecting cartridge fuse inserts, please ensure that the maximum power dissipation specified below is not exceeded. Details can be obtained from the fuse suppliers.

Terminal block type	U	Overload protection		Short-circuit p	I _{max.}	
	[V]	Single	Interconnected	Single	Interconnected	[A]
ST 4-HESI (6,3 x 32)	400	1.6 W	1.6 W	4.0 W	2.5 W	10

Phoenix Contact page 5 of 7

Spring Cage Fuse Terminal Block ST 4-FSI/C

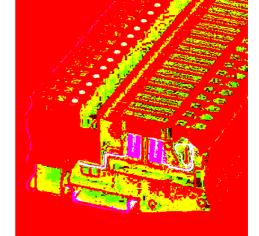


(IEC) [mm ²]	rigid solid	flexible stranded	AWG	۱ [A]	U [V]	
Connection data	0.08-6	0.08-4	28-10	30	400	

Technical data		Туре	Order No.	<u>Pcs.</u> Pkt.
Fuse terminal block, for mounting on して,	terminal width 8.2	ST 4-FSI/C	30 36 37 2	50
(1) Insulating stop sleeve , prevents unintent of the insulation in the case of smaller cross s Cross section range: 0.25-0,5 mm ² 0.75-1 mm ²	ections gray	ISH 4/0,5 ISH 4/1	30 02 88 5 30 02 89 8	50 50
(2) Plug-in bridge, for 2-pos cross-connections in the 3-pos terminal center 4-pos 5-pos 10-pos		FBS 2-8 I _{max} : 41 A FBS 3-8 41 A FBS 4-8 41 A FBS 5-8 41 A FBS 10-8 41 A	30 30 28 4 30 30 29 7 30 30 30 7 30 30 31 0 30 30 32 3	10 10 10 10 10 10
(3) Test adapter, for 4 mm Ø test plug PS and 4 mm Ø safety test plugs, making contact in the bridge shaft		PAI 4	30 30 92 5	10
(4) 2.3 mm Ø test plug 1), consisting of metal part and red insulating sleeve		MPS-RD	02 01 55 3	10
(5) Screwdriver , for actuating the tension spring		SZF 1 - 0,6 x 3,5	12 04 51 7	10
(6) Zack strip , flat, for labeling the center and outer marker grooves white		ZBF 8:UNPRINTED	08 08 78 1	10
(7) Zack strip , 10-section, for labeling in the terminal center white	- IIIIIII	ZB 8:UNPRINTED	10 52 00 2	10
Dimensions	· · ·			
Width / length	[mm]	8.2	2 / 86.5	
Height (NS 35/7,5 / NS 35/15)	[mm]	43	.5 / 51	
Technical data in accordance with IEC/ DIN	VDE			
Fuse type ISO/DIS 8820/DIN 72 581-3	-		С	
Maximum current with single arrangement	[A]		30	
Max. power dissipation				
at 23 °C based on E DIN VDE 0611-6: 2001-0			1)	
Rated surge voltage / contamination class	[kV] / -		6/3	
Surge voltage category / insulation material g Connection capacity	roup -/-		/	
Stranded with ferrule with plastic sleeve	[mm2]	0	25 - 4	
Stranded with ferrule with plastic sleeve	[mm ²] [mm ²]		25 - 4 25 - 4	
Stranded with TWIN ferrule with plastic sleeve			25 - 4 .5 - 1	
Stranded with Twink lendle with plastic sleeve	<u> </u>	0	10	
Internal cylindrical gauge (IEC 60 947-1)	[]		A 4	
Insulating material			PA	
Inflammability class in acc. with UL 94			VO	
Approval data (UL and CSA/CUL)				
Nominal voltage / current / conductor sizes	UL: [V] / [A] / AWG		_	
	/CUL: [V] / [A] / AWG		_	

1) On request.

Spring Cage Fuse Terminal Blocks with Light Indicator ST 4-FSI/C-LED



Γ

(IEC) [mm ²]	rigid solid	flexible stranded	AWG	۱ [A]	U [V]	
Connection data	0.08-6	0.08-4	28-10	30	400	_

Technical data

<u>Pcs.</u> Pkt.	Order No.	Туре			
				nting on 🆵 ,	Fuse terminal block ¹), for mount
50	30 36 49 5	ST 4-FSI/C-LED 12	minal width 8.2	2.0 mA ter	with light indicator for: 12 V DC,
50	30 36 50 5	ST 4-FSI/C-LED 24	minal width 8.2		24 V DC,
			lamping	ents unintentional c	(1) Insulating stop sleeve, preve
				naller cross section	of the insulation in the case of sm
50	30 02 88 5	ISH 4/0,5	gray	$0.25-0.5 \text{ mm}^2$	Cross section range: 0
50	30 02 89 8	ISH 4/1	black	0.75-1 mm ²	
10	30 30 28 4	FBS 2-8 I _{max} : 41 A FBS 3-8 41 A		2-pos.	(2) Plug-in bridge , for
10 10	30 30 29 7 30 30 30 7	FBS 3-8 41 A FBS 4-8 41 A		3-pos. 4-pos.	cross-connections in the terminal center
10	30 30 31 0	FBS 5-8 41 A		5-pos.	
10	30 30 32 3	FBS 10-8 41 A		10-pos.	
10	30 30 92 5	PAI 4			(3) Test adapter , for 4 mm \emptyset test and 4 mm \emptyset safety test plugs, making contact in the bridge shaft
10	02 01 55 3	MPS-RD			(4) 2.3 mm \varnothing test plug 1), consist metal part and red insulating slee
10	12 04 51 7	SZF 1 - 0,6 x 3,5			(5) Screwdriver, for actuating the tension spring
10	08 08 78 1	ZBF 8:UNPRINTED			(6) Zack strip, flat, for labeling the center and outer marker grooves
10	10 52 00 2	ZB 8:UNPRINTED	JIIIIII	white	(7) Zack strip , 10-section, for labeling in the terminal center
			•		Dimensions
	/ 86.5	8.2	[mm]		Width / length
	5 / 51	43.	[mm]		Height (NS 35/7.5 / NS 35/15)
					Technical data in accordance w
	С		-	581-3	Fuse type ISO/DIS 8820/DIN 72 5
	30		[A]	angement	Maximum current with single arra
					Max. power dissipation
	2)		[W]	611-6: 2001-04	at 23 °C based on E DIN VDE 06
	6/3		[kV] / –		Rated surge voltage / contaminat
	11/1	I	_/_	on material group	Surge voltage category / insulatio
					Connection capacity
	25 - 4		[mm ²]		Stranded with ferrule with plastic
	25 - 4		[mm ²]		Stranded with ferrule without plas
	5 - 1		[mm ²]	plastic sleeve	Stranded with TWIN ferrule with p
	10		[mm]		Stripping length
	A 4			60 947-1)	Internal cylindrical gauge (IEC
	PA				Insulating material
	V0				Inflammability class in acc. with U Approval data (UL and CSA/CU
	-		[V] / [A] / AWG		Nominal voltage / current / condu-
	-		[V] / [A] / AWG	CSA/CUL:	
			ot off load.	vnstream circuit is n	 If the fuse is defective, the down On request.
-					