

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.	.bl.0.08-6	0.08-4	28-10	6.3	250	
1) see table below (1	the current i	s determined	d by the f	use us	ed)	

Technical data

Technical data			Туре	Order No.	<u>Pcs.</u> Pkt.
Fuse terminal block, for mounting of for cartridge fuse inserts 5 x 20 mm		nal 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.		FBS 2-6 I _{max} : 32 A FBS 3-6 32 A FBS 4-6 32 A FBS 5-6 32 A FBS 10-6 32 A FBS 20-6 32 A	30 30 24 2 30 30 25 5 30 30 34 9 30 30 27 1	50 50 50 50 10 10
(2) Partition plate , for visual and electrical separation of terminal groups, 2 mm thick			ATP-ST 4	30 30 72 1	50
(3) Screwdriver , for actuating the tension spring	Į	-	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	TITITI T	ZB 5:UNPRINTED	10 50 00 4	10
Dimensions		u .			
Width / length		[mm]		6.2 / 61.5	
Height (NS 35/7,5 / NS 35/15)		[mm]		62.5 / 70	
Technical data in accordance with	IEC/ DIN VDE				
Fuse type ISO/DIS 8820/DIN 72 581	I-3 / dimensions	— / [mm]	0	à / 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 r	material group	_/_		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 plas	STIC SIEEVE	[mm ²]		0.5 - 1	
Stripping length	047.4)	[mm]		10	
Internal cylindrical gauge (IEC 60	947-1)			A 4	
Insulating material	24			PA V0	
Inflammability class in acc. with UL 9	94			VU	
Approval data (UL and CSA/CUL)					
Nominal voltage / current / conducto] / [A] / AWG		_	
	CSA/CUL: [V			-	

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

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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	n.bl.0.08-6	0.08-4	28-10	6.3	250	
1) see table below	(the current	is determined	d by the f	use us	ed, the v	oltage by the
light indicator se	ected)					• •

2) 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 ²), for mount for cartridge fuse inserts 5 x 20 light indicator for:							
15 - 30 V AC/DC, 30 - 60 V AC/DC, 110 - 250 V AC/DC,	3.5 - 8.1 mA 0.8 - 2.0 mA 0.5 - 1.0 mA	terminal width 6.2 terminal width 6.2 terminal width 6.2	ST 4-HESILED 24 ST 4-HESILED 60 ST 4-HESILA 250	0	30 36 54 7 30 36 55 0 30 36 56 3	50 50 50	
(1) Plug-in bridge , for cross-connections in the terminal center	2-pos. 3-pos. 4-pos. 5-pos. 10-pos. 20-pos.		FBS 2-6 FBS 3-6 FBS 4-6 FBS 5-6 FBS 10-6 FBS 20-6	I _{max} : 32 A 32 A 32 A 32 A 32 A 32 A 32 A	30 30 33 6 30 30 24 2 30 30 25 5 30 30 34 9 30 30 27 1 30 30 36 5	50 50 50 50 10 10	
(2) Partition plate, for visual and electrical separation of terminal groups, 2 mm thick			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 t center and outer marker grooves			ZBF 6:UNPRINTI	ED	08 08 71 0	10	
(5) Zack strip, 10-section, for labeling on the fuse lever	white	JIIIIII I	ZB 5:UNPRINTE	D	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							
Fuse type ISO/DIS 8820/DIN 72	2 581-3 / dimens	sions – / [mm]		G/	5 x 20		
Max. power dissipation	011 0 0001 01	040			()		
at 23 °C based on E DIN VDE 0					1) 4 / 3		
Rated surge voltage / contamina Surge voltage category / insulati		[kV] / -			+/3 /		
Connection capacity	ion material gro	up _/_			11 / 1		
Stranded with ferrule with plastic	sleeve	[mm ²]		0 :	25 - 4		
Stranded with ferrule with plaste		[mm ²]		-	25 - 4		
Stranded with TWIN ferrule with		[mm ²]		-	.5 - 1		
Stripping length	· · · ·	[mm]			10		
Internal cylindrical gauge (IEC	60 947-1)	<u> </u>			A 4		
Insulating material	-				PA		
Inflammability class in acc. with	UL 94				V0		
Approval data (UL and CSA/C	UL)						
Nominal voltage / current / cond	uctor sizes	UL: [V] / [A] / AWG			-		
	CSA/C	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 p	rotection 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) [mm ²]	rigid solid	flexible stranded	AWG	 [A]	U [V]	
IEC 60 947-7-3	0.08-6	0.08-4	28-10	10*	400*	
* Current and volta	age are dete	rmined by th	e fuse us	ed.		

Technical data

Technical data	Technical data				Order No.	<u>Pcs.</u> Pkt.
Fuse terminal block, for mountine for cartridge fuse inserts 6.3 x 32		nal width 8.2	ST 4-HESI (6,3 x 32)		30 36 38 5	50
(1) Plug-in bridge , for cross-connections in the terminal center	2-pos. 3-pos. 4-pos. 5-pos. 10-pos.		FBS 2-8 FBS 3-8 FBS 4-8 FBS 5-8 FBS 10-8	I _{max} : 32 A 32 A 32 A 32 A 32 A 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 connectir ST 4-HESI (6,3 x 32) to an ST 4,			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 th center and outer marker grooves	e white		ZBF 8:UNPRINTE	D	08 08 78 1	10
(6) Zack strip, 10-section, for labeling on the fuse lever	white	TITITI T	ZB 6:UNPRINTED		10 51 00 3	10
Dimensions						
Width / length		[mm]			/ 76.5	
Height (NS 35/7,5 / NS 35/15)		[mm]		69	/ 76.5	
Technical data in accordance w						
Fuse type ISO/DIS 8820/DIN 72		– / [mm]		G /	6 x 32	
Maximum current with single arra	ingement	[A]			10	
Max. power dissipation						
at 23 °C based on E DIN VDE 06		[W]			e table	
Rated surge voltage / contaminat		[kV] / –			6/3	
Surge voltage category / insulation	on material group	-/-		1	11/1	
Connection capacity	-1	r			05 4	
Stranded with ferrule with plastic		[mm ²]			25 - 4 25 - 4	
Stranded with ferrule without plase Stranded with TWIN ferrule with		[mm ²] [mm ²]			25 - 4 .5 - 1	
Stranded with T will lerrule with p	שמשנות שבבאב	[mm]			.5 - 1 10	
Internal cylindrical gauge (IEC	60 047-1)	[1111]			A 4	
Insulating material	00 977-17				PA	
Inflammability class in acc. with L	11 94				VO	
Approval data (UL and CSA/CU					••	
Nominal voltage / current / condu		'] / [A] / AWG		applied for 6	600 / 10 / 24-10	
	CSA/CUL: [V				500 / 10 / 24-10 500 / 10 / 24-10	
	00,0001.[V	1, [,], ,				

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

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



(IEC) [mm ²]	rigid solid	flexible stranded	AWG	ا [A]	U [V]	
IEC 60 947-7-3	0.08-6	0.08-4	28-10	10*	400*	
* Current and volt	ana ara data	rminod by th	o fuco uc	od		

* 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 mou for cartridge fuse inserts 6 x 32 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.	งช นปไป	FBS 2-8 I _{max} : 32 FBS 3-8 32 FBS 4-8 32 FBS 5-8 32 FBS 10-8 32	A 30 30 29 7 A 30 30 30 7	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 connect ST 4-HESI (6,3 x 32) to an ST 4		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 t center and outer marker groove			ZBF 8:UNPRINTED	08 08 78 1	10
(6) Zack strip , 10-section, for labeling on the fuse lever	white	TITITI I	ZB 6:UNPRINTED	10 51 00 3	10
Dimensions		4°			
Width / length		[mm]		8.2 / 76.5	
Height (NS 35/7,5 / NS 35/15)		[mm]		69 / 76.5	
Technical data in accordance					
Fuse type ISO/DIS 8820/DIN 72				G / 6 x 32	
Maximum current with single an	rangement	[A]		10	
Max. power dissipation		[14/]		aaa tabla	
at 23 °C based on E DIN VDE 0 Rated surge voltage / contamina		۱ <u> </u>		see table 6 / 3	
Surge voltage category / insulat				<u> </u>	
Connection capacity	ion material gro			111 / 1	
Stranded with ferrule with plastic	c sleeve	[mm ²]		0.25 - 4	
Stranded with ferrule without pla		[mm ²]		0.25 - 4	
Stranded with TWIN ferrule with		[mm ²]		0.5 - 1	
Stripping length		[mm]		10	
Internal cylindrical gauge (IEC	C 60 947-1)			A 4	
Insulating material				PA	
Inflammability class in acc. with	UL 94			V0	
Approval data (UL and CSA/C	,				
Nominal voltage / current / cond	luctor sizes	UL: [V] / [A] / AWG	applied	for 600 / 10 / 24-10	
	004/	CUL: [V] / [A] / AWG		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 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

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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 Pcs. Order No. Туре Pkt Fuse terminal block, ST 4-FSI/C for mounting on L____ terminal width 8.2 30 36 37 2 50 (1) Insulating stop sleeve, prevents unintentional clamping of the insulation in the case of smaller cross sections Cross section range: 0.25-0,5 mm² ISH 4/0,5 30 02 88 5 50 gray 0.75-1 mm² ISH 4/1 30 02 89 8 50 black I_{max}: 41 A (2) Plug-in bridge, for 2-pos. FBS 2-8 30 30 28 4 10 cross-connections in the 3-pos. FBS 3-8 41 A 30 30 29 7 10 41 A terminal center 4-pos. FBS 4-8 30 30 30 7 10 5-pos. FBS 5-8 41 A 30 30 31 0 10 30 30 32 3 10-pos. FBS 10-8 41 A 10 (3) Test adapter, for 4 mm Ø test plug PS and 4 mm Ø safety test plugs, PAI 4 30 30 92 5 10 making contact in the bridge shaft (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 12 04 51 7 10 actuating the tension spring SZF 1 - 0,6 x 3,5 (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 **ZB 8:UNPRINTED** 10 52 00 2 labeling in the terminal center white 10 Dimensions 8.2 / 86.5 Width / length [mm] Height (NS 35/7,5 / NS 35/15) 43.5 / 51 [mm] 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: 2001-04 [W] 1) Rated surge voltage / contamination class 6/3 [kV] / -III / I Surge voltage category / insulation material group -/-**Connection capacity** Stranded with ferrule with plastic sleeve [mm²] 0.25 - 4 Stranded with ferrule without plastic sleeve [mm²] 0.25 - 4 Stranded with TWIN ferrule with plastic sleeve [mm²] 0.5 - 1 Stripping length [mm] 10 Internal cylindrical gauge (IEC 60 947-1) A 4 Insulating material PA V0 Inflammability class in acc. with UL 94 Approval data (UL and CSA/CUL) UL: [V] / [A] / AWG Nominal voltage / current / conductor sizes _ CSA/CUL: [V] / [A] / AWG

1) On request.

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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

Technical data			Туре	Order No.	<u>Pcs.</u> Pkt.	
Fuse terminal block1), for mount	ting on 🆵 ,					
with light indicator for: 12 V DC,	2.0 mA termi	nal width 8.2	ST 4-FSI/C-LED 12	30 36 49 5	50	
24 V DC,		nal width 8.2	ST 4-FSI/C-LED 12 ST 4-FSI/C-LED 24	30 36 50 5	50	
(1) Insulating stop sleeve, preve						
of the insulation in the case of sm		inping the second				
Cross section range: 0	.25-0.5 mm ²	gray	ISH 4/0,5	30 02 88 5	50	
	0.75-1 mm ²	black	ISH 4/1	30 02 89 8	50	
(2) Plug-in bridge, for	2-pos.		FBS 2-8 I _{max} : 41 A	30 30 28 4	10	
cross-connections	3-pos.		FBS 3-8 41 A	30 30 29 7	10	
in the terminal center	4-pos. 5-pos.	00 0000	FBS 4-8 41 A FBS 5-8 41 A	30 30 30 7 30 30 31 0	10 10	
	10-pos.		FBS 10-8 41 A	30 30 32 3	10	
(3) Test adapter , for 4 mm \emptyset test and 4 mm \emptyset safety test plugs, making contact in the bridge shaf	plug PS		PAI 4	30 30 92 5	10	
(4) 2.3 mm Ø test plug 1), consist metal part and red insulating slee			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 th center and outer marker grooves	e white		ZBF 8:UNPRINTED	08 08 78 1	10	
(7) Zack strip, 10-section, for labeling in the terminal center	white	THINK STATE	ZB 8:UNPRINTED	10 52 00 2	10	
Dimensions						
Width / length [mm]		8.2 / 86.5				
Height (NS 35/7.5 / NS 35/15)		[mm]	4	3.5 / 51		
Technical data in accordance w	ith IEC/ DIN VDE					
Fuse type ISO/DIS 8820/DIN 72 5	581-3	-		С		
Maximum current with single arra	ngement	[A]		30		
Max. power dissipation						
at 23 °C based on E DIN VDE 0611-6: 2001-04 [W]		2)				
Rated surge voltage / contamination class [kV] / -		6/3				
Surge voltage category / insulation	on material group	-/-		III / I		
Connection capacity						
Stranded with ferrule with plastic		[mm ²]		0.25 - 4		
Stranded with ferrule without plastic sleeve [mm ²]		0.25 - 4				
Stranded with TWIN ferrule with 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. with L Approval data (UL and CSA/CU				V0		
Nominal voltage / current / conductor sizes UL: [V] / [A] / AWG CSA/CUL: [V] / [A] / AWG						
 If the fuse is defective, the down On request. 	nstream circuit is not	off load.				

>>Phoenix Contact(菲尼克斯)