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Spring Cage Installation Terminal Blocks
STI 2,5 and STI 4

The asymmetrically arranged terminal foot makes the STI series stand out against standard terminal blocks. This foot makes it possible to route the neutral busbar past the terminal strip and to fix it in the insulated supports. The neutral busbar makes contact via the screwless neutral-disconnect slide by simple levering with a screwdriver. Considerable space savings in the control cabinet can be made by using the "mini-spring" spring cage system, without having to give up the familiar high quality features such as the generous labeling option, maximum connection space and the flexible plug-in bridge system.

Assembly

In order to achieve a reliable contact between the disconnect slide and the neutral busbar, the AB-STI supports must be mounted at the beginning and end of each terminal strip or, in the case of longer terminal strips, approx. every 20 cm.

Headquarters: © Phoenix Contact GmbH & Co. • Flachsmarktstraße 8 • 32825 Blomberg • Germany
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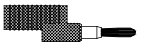
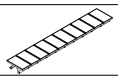
Spring Cage
Installation Terminal Block
STI 2,5

(IEC) [mm²]	rigid solid	flexible stranded	AWG	I [A]	U [V]
IEC 60 947-7-1	0.2-4	0.2-2.5	24-12	32	400

Technical data

			Type		Order No.	Pcs. Pkt.
Spring cage installation terminal block, for mounting on ⊓	gray	terminal width 5.2	**STI 2,5**		**30 31 92 4**	**50**
	blue	terminal width 5.2	**STI 2,5 BU**		**31 36 21 7**	**50**
(1) **End cover**	gray		**D-STI 2,5**		**30 30 56 9**	**50**
(2) **Insulating stop sleeve,** prevents unintentional clamping of insulation in the case of smaller cross sections						
Cross section range:	0.2 mm²	white	**ISH 2,5/0,2**		**30 02 84 3**	**50**
	0.25-0.5 mm²	gray	**ISH 2,5/0,5**		**30 02 85 6**	**50**
	0.75-1 mm²	black	**ISH 2,5/1**		**30 02 86 9**	**50**
(3) **Plug-in bridge,** for cross connections in the terminal center	2-pos.		**FBS 2-5**	$I_{max.}$: 24 A	**30 30 16 1**	**10**
	3-pos.		**FBS 3-5**	24 A	**3/0 30 17 4**	**10**
	4-pos.		**FBS 4-5**	24 A	**30 30 18 7**	**10**
	5-pos.		**FBS 5-5**	24 A	**30 30 19 0**	**10**
	10-pos.		**FBS 10-5**	24 A	**30 30 21 3**	**10**
	20-pos.		**FBS 20-5**	24 A	**30 30 22 6**	**10**
(4) **Test adapter,** for 4 mm ∅ test connector PS and 4 mm ∅ safety test connector, making contact in the bridge shaft			**PAI 4**		**30 30 92 5**	**10**
(5) **2.3 mm ∅ test connector** [1], consisting of metal part and red insulating sleeve			**MPS-RD**		**02 01 55 3**	**10**
(6) **Reducing plug**			**RPS**		**02 01 64 7**	**10**
(7) **Screwdriver,** for actuating the tension spring			**SZF 1 - 0,6 x 3,5**		**12 04 51 7**	**10**
(8) **Zack marker sheet,** flat, 120-section, for labeling the outer marker grooves		white	**ZBFM 5 /WH:UNPRINTED**		**08 03 59 5**	**10**
(9) **Zack strip,** 10-section, for labeling in the terminal center and on the plug-in bridges	white		**ZB 5: UNPRINTED**		**10 50 00 4**	**10**

Dimensions		
Width / length /end cover width	[mm]	5.2 / 59.5 / 2.2
Height (NS 35:7.5 / NS 35:15)	[mm]	43 / 50.5
Technical data in accordance with IEC/ DIN VDE		
Maximum load current / cross section	[A] / [mm²]	32 / 4
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 - 2.5
Stranded with ferrule without plastic sleeve	[mm²]	0.25 - 2.5
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5
Stripping length	[mm]	10
Internal cylindrical gauge (IEC 60 947-1)		A 3
Insulation material		PA
Inflammability class in accordance with UL 94		V0
Approval data (UL and CSA/CUL)		
Nom. voltage / nom. current / conduc. sizes	UL: [V] / [A] / AWG	–
	CSA/CUL: [V] / [A] / AWG	–

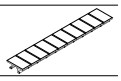
[1]) Further colors are available on request.

Spring Cage Ground Terminal Block
STI 2,5-PE

(IEC) [mm²]	rigid solid	flexible stranded	AWG
IEC 60 947-7-2	0.2-4	0.2-2.5	24-12

The current carrying capacity of the mounting rails should be observed.

Technical data

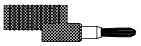
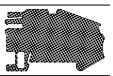
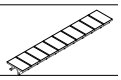
			Type	Order No.	Pcs. Pkt.
Spring cage ground terminal block, for mounting on ⊓	green-yellow	terminal width 5.2	**STI 2,5-PE**	**30 31 93 7**	**50**
(1) **End cover**	gray		**D-STI 2,5**	**30 30 56 9**	**50**
(2) **Insulating stop sleeve,** prevents unintentional clamping of insulation in the case of smaller cross sections					
Cross section range:	0.2 mm²	white	**ISH 2,5/0,2**	**30 02 84 3**	**50**
	0.25-0.5 mm²	gray	**ISH 2,5/0,5**	**30 02 85 6**	**50**
	0.75-1 mm²	black	**ISH 2,5/1**	**30 02 86 9**	**50**
(3) **Screwdriver,** for actuating the tension spring			**SZF 1 - 0,6 x 3,5**	**12 04 51 7**	**10**
(4) **Zack marker sheet,** flat, 120-section, for labeling the outer marker grooves		white	**ZBFM 5 /WH:UNPRINTED**	**08 03 59 5**	**10**
(5) **Zack strip,** 10-section, for labeling in the terminal center and on the plug-in bridges	white		**ZB 5: UNPRINTED**	**10 50 00 4**	**10**

Dimensions		
Width / length /end cover width	[mm]	5.2 / 59.5 / 2.2
Height (NS 35:7.5 / NS 35:15)	[mm]	43 / 50.5
Technical data in accordance with IEC/ DIN VDE		
Maximum load current / cross section	[A] / [mm²]	–
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 - 2.5
Stranded with ferrule without plastic sleeve	[mm²]	0.25 - 2.5
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5
Stripping length	[mm]	10
Internal cylindrical gauge (IEC 60 947-1)		A 3
Insulation material		PA
Inflammability class in accordance with UL 94		V0
Approval data (UL and CSA/CUL)		
Nom. voltage / nom. current / conduc. sizes	UL: [V] / [A] / AWG	–
	CSA/CUL: [V] / [A] / AWG	–

Spring Cage
Installation Terminal Block
STN 2,5

(IEC) [mm²]	rigid solid	flexible stranded	AWG	I [A]	U [V]
IEC 60 947-7-1	0.2-4	0.2-2.5	24-12	32	400

Technical data

Type		Order No.	Pcs. Pkt.
Spring cage neutral disconnect terminal block, for mounting on ⊓ blue terminal width 5.2		**STN 2,5**	**30 31 94 0**	**50**
(1) **End cover** gray		**D-STI 2,5**	**30 30 56 9**	**50**
(2) **Insulating stop sleeve,** prevents unintentional clamping of insulation in the case of smaller cross sections				
Cross section range: 0.2 mm²	white	**ISH 2,5/0,2**	**30 02 84 3**	**50**
0.25-0.5 mm²	gray	**ISH 2,5/0,5**	**30 02 85 6**	**50**
0.75-1 mm²	black	**ISH 2,5/1**	**30 02 86 9**	**50**
(3) **Plug-in bridge,** for cross connections in the terminal center 2-pos.		**FBS 2-5**	$I_{max.}$: 24 A	**30 30 16 1**	**10**
3-pos.		**FBS 3-5**	24 A	**3/0 30 17 4**	**10**
4-pos.		**FBS 4-5**	24 A	**30 30 18 7**	**10**
5-pos.		**FBS 5-5**	24 A	**30 30 19 0**	**10**
10-pos.		**FBS 10-5**	24 A	**30 30 21 3**	**10**
20-pos.		**FBS 20-5**	24 A	**30 30 22 6**	**10**
(4) **Test adapter,** for 4 mm ∅ test connector PS and 4 mm ∅ safety test connector, making contact in the bridge shaft		**PAI 4**		**30 30 92 5**	**10**
(5) **2.3 mm ∅ test connector** [1]), consisting of metal part and red insulating sleeve		**MPS-RD**		**02 01 55 3**	**10**
(6) **Reducing plug**		**RPS**		**02 01 64 7**	**10**
(7) **Neutral busbar,** 3 x 10 mm, 1 m long, copper, tin-plated		**NLS-CU 3/10**		**04 02 17 4**	**10**
(8) **Support,** blue insulating material, for mounting the neutral busbar		**AB-STI**		**30 30 82 8**	**50**
(9) **Screwdriver,** for actuating the tension spring		**SZF 1 - 0,6 x 3,5**		**12 04 51 7**	**10**
(10) **Zack marker sheet,** flat, 120-section, for labeling the outer marker grooves white		**ZBFM 5 /WH:UNPRINTED**		**08 03 59 5**	**10**
(11) **Zack strip,** 10-section, for labeling in the terminal center and on the plug-in bridges white		**ZB 5: UNPRINTED**		**10 50 00 4**	**10**

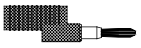
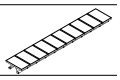
Dimensions		
Width / length /end cover width	[mm]	5.2 / 59.5 / 2.2
Height (NS 35:7.5 / NS 35:15)	[mm]	43 / 50.5
Technical data in accordance with IEC/ DIN VDE		
Maximum load current / cross section	[A] / [mm²]	32 / 4
Current carrying capacity of the neutal busbar	[A]	140
Rated surge voltage / contamination class	[kV] / –	6 / 3
Surge voltage category / insulation material group	– / –	III / I
Connection capacity		
Stranded with ferrule with plastic sleeve	[mm²]	0.25 - 2.5
Stranded with ferrule without plastic sleeve	[mm²]	0.25 - 2.5
Stranded with TWIN ferrule with plastic sleeve	[mm²]	0.5
Stripping length	[mm]	10
Internal cylindrical gauge (IEC 60 947-1)		A 3
Insulation material		PA
Inflammability class in accordance with UL 94		V0
Approval data (UL and CSA/CUL)		
Nom. voltage / nom. current / conduc. sizes	UL: [V] / [A] / AWG	–
	CSA/CUL: [V] / [A] / AWG	–

[1]) Further colors are available on request.

Spring Cage
Installation Terminal Block
STI 4

(IEC) [mm²]	rigid solid	flexible stranded	AWG	I [A]	U [V]
IEC 60 947-7-1	0.5-6	0.5-4	20-10	41	400

Technical data

			Type		Order No.	Pcs. Pkt.
Spring cage installation terminal block, for mounting on ⊔	gray	terminal width 6.2	**STI 4**		**30 31 95 3**	**50**
	blue	terminal width 6.2	**STI 4 BU**		**31 36 22 0**	**50**
(1) **End cover**	gray		**D-STI 4**		**30 30 64 0**	**50**
(2) **Insulating stop sleeve,** prevents unintentional clamping of insulation in the case of smaller cross sections						
Cross section range:	0.25-0.5 mm²	gray	**ISH 4/0,5**		**30 02 88 5**	**50**
	0.75-1 mm²	black	**ISH 4/1**		**30 02 89 8**	**50**
(3) **Plug-in bridge,** for cross connections in the terminal center	2-pos.		**FBS 2-6**	$I_{max.}$: 32 A	**30 30 33 6**	**10**
	3-pos.		**FBS 3-6**	32 A	**30 30 24 2**	**10**
	4-pos.		**FBS 4-6**	32 A	**30 30 25 5**	**10**
	5-pos.		**FBS 5-6**	32 A	**30 30 34 9**	**10**
	10-pos.		**FBS 10-6**	32 A	**30 30 27 1**	**10**
	20-pos.		**FBS 20-6**	32 A	**30 30 36 5**	**10**
(4) **Test adapter,** for 4 mm ∅ test connector PS and 4 mm ∅ safety test connector, making contact in the bridge shaft			**PAI 4**		**30 30 92 5**	**10**
(5) **2.3 mm ∅ test connector** [1]**),** consisting of metal part and red insulating sleeve			**MPS-RD**		**02 01 55 3**	**10**
(6) **Reducing plug**			**RPS**		**02 01 64 7**	**10**
(7) **Screwdriver,** for actuating the tension spring			**SZF 1 - 0,6 x 3,5**		**12 04 51 7**	**10**
(8) **Zack marker sheet,** flat, 100-section, for labeling the outer marker grooves		white	**ZBFM 6 /WH:UNPRINTED**		**08 03 61 8**	**10**
(9) **Zack strip,** 10-section, for labeling in the terminal center and on the plug-in bridges	white		**ZB 6:UNPRINTED**		**10 51 00 3**	**10**

Dimensions		
Width / length /end cover width	[mm]	6.2 / 66 / 2.2
Height (NS 35:7.5 / NS 35:15)	[mm]	43 / 50.5
Technical data in accordance with IEC/ DIN VDE		
Maximum load current / cross section	[A] / [mm²]	41 / 6
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]	0.5 - 4
Stranded with ferrule without plastic sleeve	[mm²]	0.5 - 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
Insulation material		PA
Inflammability class in accordance with UL 94		V0
Approval data (UL and CSA/CUL)		
Nom. voltage / nom. current / conduc. sizes	UL: [V] / [A] / AWG	–
	CSA/CUL: [V] / [A] / AWG	–

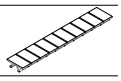
[1]) Further colors are available on request.

Spring Cage Ground Terminal Block
STI 4-PE

(IEC) [mm²]	rigid solid	flexible stranded	AWG
IEC 60 947-7-2	0.5-6	0.5-4	20-10

The current carrying capacity of the mounting rails should be observed.

Technical data

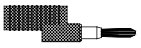
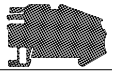
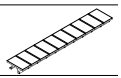
			Type	Order No.	Pcs. Pkt.
Spring cage ground terminal block, for mounting on ⊓	green-yellow	terminal width 6.2	**STI 4-PE**	**30 31 96 6**	**50**
(1) **End cover**	gray		**D-STI 4**	**30 30 64 0**	**50**
(2) **Insulating stop sleeve,** prevents unintentional clamping of insulation in the case of smaller cross sections					
Cross section range: 0.25-0.5 mm²		gray	**ISH 4/0,5**	**30 02 88 5**	**50**
0.75-1 mm²		black	**ISH 4/1**	**30 02 89 8**	**50**
(3) **Screwdriver,** for actuating the tension spring			**SZF 1 - 0,6 x 3,5**	**12 04 51 7**	**10**
(4) **Zack marker sheet,** flat, 100-section, for labeling the outer marker grooves		white	**ZBFM 6 /WH:UNPRINTED**	**08 03 61 8**	**10**
(5) **Zack strip,** 10-section, for labeling in the terminal center and on the plug-in bridges	white		**ZB 6:UNPRINTED**	**10 51 00 3**	**10**

Dimensions		
Width / length /end cover width	[mm]	6.2 / 66 / 2.2
Height (NS 35:7.5 / NS 35:15)	[mm]	43 / 50.5
Technical data in accordance with IEC/ DIN VDE		
Maximum load current / cross section	[A] / [mm²]	–
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]	0.5 - 4
Stranded with ferrule without plastic sleeve	[mm²]	0.5 - 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
Insulation material		PA
Inflammability class in accordance with UL 94		V0
Approval data (UL and CSA/CUL)		
Nom. voltage / nom. current / conduc. sizes	UL: [V] / [A] / AWG	–
	CSA/CUL: [V] / [A] / AWG	–

Spring Cage
Installation Terminal Block
STN 4

(IEC) [mm²]	rigid solid	flexible stranded	AWG	I [A]	U [V]
IEC 60 947-7-1	0.5-6	0.5-4	20-10	36	250

Technical data

			Type		Order No.	Pcs. Pkt.
Spring cage neutral disconnect terminal block, for mounting on ⊓	blue	terminal width 6.2	**STN 4**		**30 31 97 9**	**50**
(1) **End cover**	gray		**D-STI 4**		**30 30 64 0**	**50**
(2) **Insulating stop sleeve,** prevents unintentional clamping of insulation in the case of smaller cross sections						
Cross section range:	0.25-0.5 mm²	gray	**ISH 4/0,5**		**30 02 88 5**	**50**
	0.75-1 mm²	black	**ISH 4/1**		**30 02 89 8**	**50**
(3) **Plug-in bridge,** for cross connections in the terminal center	2-pos.		**FBS 2-6**	$I_{max.}$: 32 A	**30 30 33 6**	**10**
	3-pos.		**FBS 3-6**	32 A	**30 30 24 2**	**10**
	4-pos.		**FBS 4-6**	32 A	**30 30 25 5**	**10**
	5-pos.		**FBS 5-6**	32 A	**30 30 34 9**	**10**
	10-pos.		**FBS 10-6**	32 A	**30 30 27 1**	**10**
	20-pos.		**FBS 20-6**	32 A	**30 30 36 5**	**10**
(4) **Test adapter,** for 4 mm ∅ test connector PS and 4 mm ∅ safety test connector, making contact in the bridge shaft			**PAI 4**		**30 30 92 5**	**10**
(5) **2.3 mm ∅ test connector** [1]**),** consisting of metal part and red insulating sleeve			**MPS-RD**		**02 01 55 3**	**10**
(6) **Reducing plug**			**RPS**		**02 01 64 7**	**10**
(7) **Neutral busbar,** 3 x 10 mm, 1 m long, copper, tin-plated			**NLS-CU 3/10**		**04 02 17 4**	**10**
(8) **Support,** blue insulating material, for mounting the neutral busbar			**AB-STI**		**30 30 82 8**	**50**
(9) **Screwdriver,** for actuating the tension spring			**SZF 1 - 0,6 x 3,5**		**12 04 51 7**	**10**
(10) **Zack marker sheet,** flat, 100-section, for labeling the outer marker grooves		white	**ZBFM 6 /WH:UNPRINTED**		**08 03 61 8**	**10**
(11) **Zack strip,** 10-section, for labeling in the terminal center and on the plug-in bridges	white		**ZB 6:UNPRINTED**		**10 51 00 3**	**10**

Dimensions		
Width / length /end cover width	[mm]	6.2 / 66 / 2.2
Height (NS 35:7.5 / NS 35:15)	[mm]	43 / 50.5
Technical data in accordance with IEC/ DIN VDE		
Maximum load current / cross section	[A] / [mm²]	36 / 6
Current carrying capacity of the neutral busbar	[A]	140
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]	0.5 - 4
Stranded with ferrule without plastic sleeve	[mm²]	0.5 - 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
Insulation material		PA
Inflammability class in accordance with UL 94		V0
Approval data (UL and CSA/CUL)		
Nom. voltage / nom. current / conduc. sizes	UL: [V] / [A] / AWG	–
	CSA/CUL: [V] / [A] / AWG	–

[1]) Further colors are available on request.