

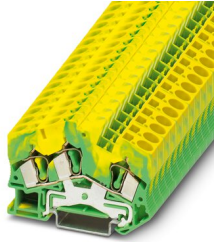
# Ground modular terminal block - STS 6-TWIN-PE

3038176

<https://www.phoenixcontact.com/de/produkte/3038176>

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Ground modular terminal block, number of connections: 3, connection method: Spring-cage connection, 1 level, cross section: 0.2 mm<sup>2</sup> - 10 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: green-yellow

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## Your advantages

- Same shape and pitch as the feed-through terminal blocks
- Contact is made free from mechanical and electrical errors by simply snapping onto the DIN rail
- All the requirements of standard IEC 60947-7-2 are met

# Ground modular terminal block - STS 6-TWIN-PE



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## Commercial Data

Item number	3038176
Packing unit	50 pc
Minimum order quantity	1 pc
Sales Key	A1 - Reihenklennen
Product Key	BE2122
Catalog Page	Page 239 (C-1-2019)
GTIN	4017918928995
Weight per Piece (including packing)	30,014 g
Weight per Piece (excluding packing)	28,115 g
Customs tariff number	85369010
Country of origin	PL

# Ground modular terminal block - STS 6-TWIN-PE



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<https://www.phoenixcontact.com/de/produkte/3038176>

## Technical Data

### Product properties

Product type	Ground terminal block
Number of connections	3
Number of rows	1

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	1.31 W

### Connection data

Grounding foot	Yes
Number of connections per level	3
Nominal cross section	6 mm <sup>2</sup>

### 1 level

Note	Please observe the current carrying capacity of the DIN rails.
Stripping length	12 mm
Internal cylindrical gage	A5
Conductor cross section solid	0.2 mm <sup>2</sup> ... 10 mm <sup>2</sup>
Cross section AWG	24 ... 8
Conductor cross section flexible	0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Conductor cross section, flexible [AWG]	24 ... 10
Flexible conductor cross section flexible (ferrule, w/o plastic sleeve)	0.25 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm <sup>2</sup> ... 6 mm <sup>2</sup>

### Dimensions

Width	8.2 mm
End cover width	2.2 mm
Height NS 35/15	57.5 mm
Height NS 35/7,5	50 mm
Length	70 mm

### Material specifications

Color	green-yellow
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C

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Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	125 °C
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3
Calorimetric heat release NFPA 130 (ASTM E 1354)	27,5 MJ/kg
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Smoke gas toxicity NFPA 130 (SMP 800C)	passed

## Mechanical properties

### Mechanical data

Open side panel	Yes
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## Environmental and real-life conditions

### Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Spectrum	Service life test category 2, bogie-mounted
Frequency	$f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$
ASD level	6.12 (m/s <sup>2</sup> )/Hz
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

### Shocks

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Pulse shape	Half-sine
Acceleration	30g
Shock duration	18 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Result	Test passed

### Ambient conditions

Ambient temperature (operation)	-60 °C ... 105 °C (max. short-term operating temperature RTI Elec.)
Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)
Ambient temperature (assembly)	-5 °C ... 70 °C
Ambient temperature (actuation)	-5 °C ... 70 °C
Permissible humidity (storage/transport)	30 % ... 70 %

# Ground modular terminal block - STS 6-TWIN-PE



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## Standards and regulations

Connection in acc. with standard	IEC 60947-7-2
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## Mounting

Mounting type	NS 35/7,5
	NS 35/15

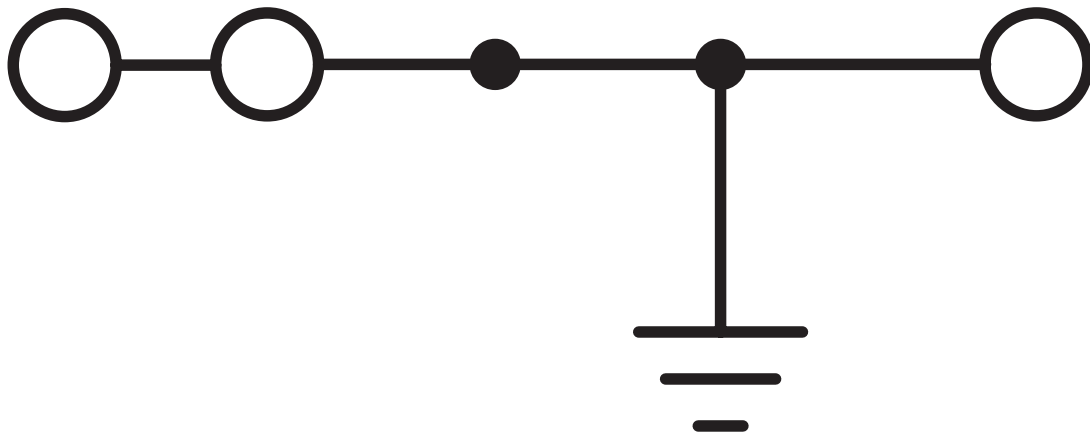
# Ground modular terminal block - STS 6-TWIN-PE

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## Drawings

Circuit diagram




# Ground modular terminal block - STS 6-TWIN-PE





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## Approvals


 <b>CSA</b> Approval ID: 13631	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $mm^2$
			24 - 8	-


 <b>cUL Recognized</b> Approval ID: FILE E 60425	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $mm^2$
			24 - 8	-

 <b>UL Recognized</b> Approval ID: FILE E 60425	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $mm^2$
			24 - 8	-


 <b>IECEE CB Scheme</b> Approval ID: DE1-63046	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $mm^2$
			-	0.2 - 6

 <b>EAC</b> Approval ID: RU C-DE.A*30.B.01742	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $mm^2$

 <b>LR</b> Approval ID: 06/20022	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $mm^2$

 <b>ClassNK</b> Approval ID: 06ME279	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $mm^2$
			-	-

 <b>RS</b> Approval ID: 17.00013.272	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $mm^2$

 <b>BV</b> Approval ID: 27725/A0 BV	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $mm^2$

# Ground modular terminal block - STS 6-TWIN-PE



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**EAC**

Approval ID: RU C-DE.BL08.B.00644



**VDE Zeichengenehmigung**

Approval ID: 40038075

	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $mm^2$
			-	0.2 - 6

**ABS**

Approval ID: 21-2158220-PDA

**DNV**

Approval ID: TAE00001CS

	Nominal Voltage $U_N$	Nominal Current $I_N$	Cross Section AWG	Cross Section $mm^2$
			-	-

**cULus Recognized**



# Ground modular terminal block - STS 6-TWIN-PE



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## Classifications

### ECLASS

ECLASS-9.0	27141141
ECLASS-10.0.1	27141141
ECLASS-11.0	27141141

### ETIM

ETIM 8.0	EC000901
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### UNSPSC

UNSPSC 21.0	39121400
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# Ground modular terminal block - STS 6-TWIN-PE



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## Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

# Ground modular terminal block - STS 6-TWIN-PE

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<https://www.phoenixcontact.com/de/produkte/3038176>

## Accessories

### Plug-in bridge

Plug-in bridge - FBS 2-8 - 3030284

<https://www.phoenixcontact.com/de/produkte/3030284>

Plug-in bridge, pitch: 8.2 mm, color: red



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### Plug-in bridge

Plug-in bridge - FBS 3-8 - 3030297

<https://www.phoenixcontact.com/de/produkte/3030297>

Plug-in bridge, pitch: 8.2 mm, color: red



# Ground modular terminal block - STS 6-TWIN-PE

3038176

<https://www.phoenixcontact.com/de/produkte/3038176>

## Plug-in bridge

Plug-in bridge - FBS 4-8 - 3030307

<https://www.phoenixcontact.com/de/produkte/3030307>



Plug-in bridge, pitch: 8.2 mm, color: red

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## Plug-in bridge

Plug-in bridge - FBS 5-8 - 3030310

<https://www.phoenixcontact.com/de/produkte/3030310>



Plug-in bridge, pitch: 8.2 mm, color: red

# Ground modular terminal block - STS 6-TWIN-PE

3038176

<https://www.phoenixcontact.com/de/produkte/3038176>

## Plug-in bridge

Plug-in bridge - FBS 10-8 - 3030323

<https://www.phoenixcontact.com/de/produkte/3030323>



Plug-in bridge, pitch: 8.2 mm, color: red

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## Plug-in bridge

Plug-in bridge - FBS 6-8 - 3032470

<https://www.phoenixcontact.com/de/produkte/3032470>



Plug-in bridge, pitch: 8.2 mm, color: red

# Ground modular terminal block - STS 6-TWIN-PE

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<https://www.phoenixcontact.com/de/produkte/3038176>

## Plug-in bridge

Plug-in bridge - FBS 2-8 CT - 3033830

<https://www.phoenixcontact.com/de/produkte/3033830>



Plug-in bridge, pitch: 8.2 mm, color: orange

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## Plug-in bridge

Plug-in bridge - FBS 3-8 CT - 3033831

<https://www.phoenixcontact.com/de/produkte/3033831>



Plug-in bridge, pitch: 8.2 mm, color: orange

# Ground modular terminal block - STS 6-TWIN-PE

3038176

<https://www.phoenixcontact.com/de/produkte/3038176>

## Plug-in bridge

Plug-in bridge - FBS 4-8 CT - 3033832

<https://www.phoenixcontact.com/de/produkte/3033832>



Plug-in bridge, pitch: 8.2 mm, color: orange

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## Plug-in bridge

Plug-in bridge - FBS 10-8 CT - 3033833

<https://www.phoenixcontact.com/de/produkte/3033833>



Plug-in bridge, pitch: 8.2 mm, color: orange

# Ground modular terminal block - STS 6-TWIN-PE

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<https://www.phoenixcontact.com/de/produkte/3038176>

## Plug-in bridge

Plug-in bridge - FBS 2-8 BU - 3032567

<https://www.phoenixcontact.com/de/produkte/3032567>



Plug-in bridge, pitch: 8.2 mm, color: blue

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## Plug-in bridge

Plug-in bridge - FBS 3-8 BU - 3032570

<https://www.phoenixcontact.com/de/produkte/3032570>



Plug-in bridge, pitch: 8.2 mm, color: blue



# Ground modular terminal block - STS 6-TWIN-PE

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<https://www.phoenixcontact.com/de/produkte/3038176>

## Plug-in bridge

Plug-in bridge - FBS 4-8 BU - 3032583

<https://www.phoenixcontact.com/de/produkte/3032583>



Plug-in bridge, pitch: 8.2 mm, color: blue

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## Plug-in bridge

Plug-in bridge - FBS 5-8 BU - 3032596

<https://www.phoenixcontact.com/de/produkte/3032596>



Plug-in bridge, pitch: 8.2 mm, color: blue

# Ground modular terminal block - STS 6-TWIN-PE

3038176

<https://www.phoenixcontact.com/de/produkte/3038176>

## Plug-in bridge

Plug-in bridge - FBS 6-8 BU - 3032677

<https://www.phoenixcontact.com/de/produkte/3032677>



Plug-in bridge, pitch: 8.2 mm, color: blue

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## Plug-in bridge

Plug-in bridge - FBS 10-8 BU - 3032606

<https://www.phoenixcontact.com/de/produkte/3032606>



Plug-in bridge, pitch: 8.2 mm, color: blue

# Ground modular terminal block - STS 6-TWIN-PE

3038176

<https://www.phoenixcontact.com/de/produkte/3038176>

## Plug-in bridge

Plug-in bridge - FBS 2-8 GY - 3032621

<https://www.phoenixcontact.com/de/produkte/3032621>



Plug-in bridge, pitch: 8.2 mm, color: gray

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## Plug-in bridge

Plug-in bridge - FBS 3-8 GY - 3032622

<https://www.phoenixcontact.com/de/produkte/3032622>



Plug-in bridge, pitch: 8.2 mm, color: gray

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# Ground modular terminal block - STS 6-TWIN-PE

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<https://www.phoenixcontact.com/de/produkte/3038176>

## Plug-in bridge

Plug-in bridge - FBS 4-8 GY - 3032635

<https://www.phoenixcontact.com/de/produkte/3032635>



Plug-in bridge, pitch: 8.2 mm, color: gray

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## Plug-in bridge

Plug-in bridge - FBS 5-8 GY - 3032648

<https://www.phoenixcontact.com/de/produkte/3032648>



Plug-in bridge, pitch: 8.2 mm, color: gray

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# Ground modular terminal block - STS 6-TWIN-PE

3038176

<https://www.phoenixcontact.com/de/produkte/3038176>

## Plug-in bridge

Plug-in bridge - FBS 6-8 GY - 3032664

<https://www.phoenixcontact.com/de/produkte/3032664>



Plug-in bridge, pitch: 8.2 mm, color: gray

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## Plug-in bridge

Plug-in bridge - FBS 10-8 GY - 3032651

<https://www.phoenixcontact.com/de/produkte/3032651>



Plug-in bridge, pitch: 8.2 mm, color: gray

# Ground modular terminal block - STS 6-TWIN-PE

3038176

<https://www.phoenixcontact.com/de/produkte/3038176>

## Short-circuit connector

Short-circuit connector - FBSRH 2-8 - 3033802

<https://www.phoenixcontact.com/de/produkte/3033802>



Short-circuit connector, pitch: 8.2 mm, color: red

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## Short-circuit connector

Short-circuit connector - FBSRH 3-8 - 3033803

<https://www.phoenixcontact.com/de/produkte/3033803>



Short-circuit connector, pitch: 8.2 mm, color: red

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# Ground modular terminal block - STS 6-TWIN-PE

3038176

<https://www.phoenixcontact.com/de/produkte/3038176>

## Short-circuit connector

Short-circuit connector - FBSRH 4-8 - 3033804

<https://www.phoenixcontact.com/de/produkte/3033804>



Short-circuit connector, pitch: 8.2 mm, color: red

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## Plug-in bridge

Plug-in bridge - FBSR 2-8 - 3033808

<https://www.phoenixcontact.com/de/produkte/3033808>



Plug-in bridge, pitch: 8.2 mm, color: red

# Ground modular terminal block - STS 6-TWIN-PE

3038176

<https://www.phoenixcontact.com/de/produkte/3038176>

## Plug-in bridge

Plug-in bridge - FBSR 3-8 - 3001597

<https://www.phoenixcontact.com/de/produkte/3001597>



Plug-in bridge, pitch: 8.2 mm, color: red

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## Plug-in bridge

Plug-in bridge - FBSR 4-8 - 3000585

<https://www.phoenixcontact.com/de/produkte/3000585>



Plug-in bridge, pitch: 8.2 mm, color: red



# Ground modular terminal block - STS 6-TWIN-PE

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<https://www.phoenixcontact.com/de/produkte/3038176>

## Plug-in bridge

Plug-in bridge - FBSR 5-8 - 3033809

<https://www.phoenixcontact.com/de/produkte/3033809>

Plug-in bridge, pitch: 8.2 mm, color: red



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## Plug-in bridge

Plug-in bridge - FBSR 10-8 - 3001599

<https://www.phoenixcontact.com/de/produkte/3001599>

Plug-in bridge, pitch: 8.2 mm, color: red



# Ground modular terminal block - STS 6-TWIN-PE

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<https://www.phoenixcontact.com/de/produkte/3038176>

## Switching jumper

Switching jumper - SB-MER 2-8 - 3000587

<https://www.phoenixcontact.com/de/produkte/3000587>



Switching jumper, pitch: 8.2 mm, color: gray/orange

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## Switching jumper

Switching jumper - SB-MER 3-8 - 3000588

<https://www.phoenixcontact.com/de/produkte/3000588>



Switching jumper, pitch: 8.2 mm, color: gray/orange

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# Ground modular terminal block - STS 6-TWIN-PE

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<https://www.phoenixcontact.com/de/produkte/3038176>

## Switching jumper

Switching jumper - SB-MER 4-8 - 3000589

<https://www.phoenixcontact.com/de/produkte/3000589>

Switching jumper, pitch: 8.2 mm, color: gray/orange



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## End cover

End cover - D-ST5 6-TWIN - 3038202

<https://www.phoenixcontact.com/de/produkte/3038202>

End cover, length: 70 mm, width: 2.2 mm, height: 50 mm, color: gray



# Ground modular terminal block - STS 6-TWIN-PE

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<https://www.phoenixcontact.com/de/produkte/3038176>

## DIN rail perforated

DIN rail perforated - NS 35/ 7,5 PERF 2000MM - 0801733

<https://www.phoenixcontact.com/de/produkte/0801733>



DIN rail perforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 25 (50 m)

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## Partition plate

Partition plate - ATP-ST 6 - 3024481

<https://www.phoenixcontact.com/de/produkte/3024481>



Partition plate, length: 73.5 mm, width: 2 mm, height: 47.2 mm, color: gray

# Ground modular terminal block - STS 6-TWIN-PE

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## DIN rail, unperforated

DIN rail, unperforated - NS 35/ 7,5 UNPERF 2000MM - 0801681

<https://www.phoenixcontact.com/de/produkte/0801681>



DIN rail, unperforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 25 (50 m)

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## Screwdriver

Screwdriver - SZF 2-0,8X4,0 - 1204520

<https://www.phoenixcontact.com/de/produkte/1204520>



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.8 x 4.0 x 100 mm, 2-component grip, with non-slip grip

# Ground modular terminal block - STS 6-TWIN-PE

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## DIN rail perforated

DIN rail perforated - NS 35/ 7,5 WH PERF 2000MM - 1204119

<https://www.phoenixcontact.com/de/produkte/1204119>



DIN rail perforated, acc. to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver, Pack of 25 (50 m)

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## Mounting material

Mounting material - ST-IL - 3039900

<https://www.phoenixcontact.com/de/produkte/3039900>

Operating decal for the ST terminal block



# Ground modular terminal block - STS 6-TWIN-PE

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<https://www.phoenixcontact.com/de/produkte/3038176>

## DIN rail, unperforated

DIN rail, unperforated - NS 35/ 7,5 WH UNPERF 2000MM-VPE 10 - 1204122

<https://www.phoenixcontact.com/de/produkte/1204122>



DIN rail, unperforated, acc. to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver, Pack of 10 (20 m)

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## DIN rail, unperforated

DIN rail, unperforated - NS 35/ 7,5 AL UNPERF 2000MM - 0801704

<https://www.phoenixcontact.com/de/produkte/0801704>



DIN rail, unperforated, acc. to EN 60715, material: Aluminum, uncoated, Standard profile, color: silver, Pack of 25 (50 m)

# Ground modular terminal block - STS 6-TWIN-PE

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## DIN rail perforated

DIN rail perforated - NS 35/ 7,5 ZN PERF 2000MM - 1206421

<https://www.phoenixcontact.com/de/produkte/1206421>



DIN rail perforated, acc. to EN 60715, material: Steel, galvanized, Standard profile, color: silver, Pack of 25 (50 m)

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## DIN rail, unperforated

DIN rail, unperforated - NS 35/ 7,5 ZN UNPERF 2000MM - 1206434

<https://www.phoenixcontact.com/de/produkte/1206434>



DIN rail, unperforated, acc. to EN 60715, material: Steel, galvanized, Standard profile, color: silver, Pack of 25 (50 m)



# Ground modular terminal block - STS 6-TWIN-PE

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## DIN rail, unperforated

DIN rail, unperforated - NS 35/ 7,5 CU UNPERF 2000MM-VPE 10 - 0801762

<https://www.phoenixcontact.com/de/produkte/0801762>



DIN rail, unperforated, acc. to EN 60715, material: Copper, uncoated, Standard profile, color: copper-colored, Pack of 10 (20 m)

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## End cap

End cap - NS 35/ 7,5 CAP - 1206560

<https://www.phoenixcontact.com/de/produkte/1206560>

DIN rail end piece, for DIN rail NS 35/7.5



# Ground modular terminal block - STS 6-TWIN-PE



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## Test adapter

Test adapter - PAI-4-N GY - 3032871

<https://www.phoenixcontact.com/de/produkte/3032871>



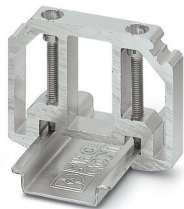
4 mm test adapter, for terminal blocks with 5.2 mm, 6.2 mm and 8.2 mm pitch

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## End clamp

End clamp - E/AL-NS 35 - 1201662

<https://www.phoenixcontact.com/de/produkte/1201662>



End clamp, for end support of UKH 50 to UKH 240, is pushed onto DIN rail NS 35 and fixed with 2 screws, width: 10 mm, color: aluminum

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