

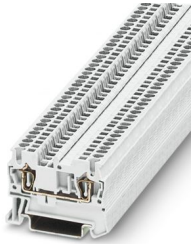
# ST 1,5 WH - Feed-through terminal block



3037054

<https://www.phoenixcontact.com/us/products/3037054>

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Feed-through terminal block, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 2, connection method: Spring-cage connection, Rated cross section: 1.5 mm<sup>2</sup>, 1 level, cross section: 0.08 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: white

## Commercial data

Item number	3037054
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE02
Product key	BE2111
GTIN	4017918599485
Weight per piece (including packing)	5.1 g
Weight per piece (excluding packing)	4.94 g
Customs tariff number	85369010
Country of origin	DE

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## Technical data

### Product properties

Product type	Feed-through terminal block
Number of connections	2
Number of rows	1
Potentials	1

### Electrical properties

Maximum power dissipation for nominal condition	0.56 W
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### Connection data

Number of connections per level	2
Nominal cross section	1.5 mm <sup>2</sup>

#### 1 level

Connection method	Spring-cage connection
Stripping length	8 mm ... 10 mm
Internal cylindrical gage	A1
Connection in acc. with standard	IEC 60947-7-1
Conductor cross-section rigid	0.08 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Cross section AWG	28 ... 16 (converted acc. to IEC)
Conductor cross-section flexible	0.08 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section, flexible [AWG]	28 ... 16 (converted acc. to IEC)
Conductor cross-section flexible ultrasound-compressed	0.34 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section, flexible [AWG] ultrasound-compressed	22 ... 16 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Flexible conductor cross-section (ferrule with plastic sleeve)	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm <sup>2</sup>
Nominal cross section	1.5 mm <sup>2</sup>
Nominal current	17.5 A
Maximum load current	17.5 A (with 1.5 mm <sup>2</sup> conductor cross-section)
Nominal voltage	500 V

### Ex data

#### Rated data (ATEX/IECEx)

Identification	Ⓜ II 2 GD Ex eb IIC Gb
Operating temperature range	-60 °C ... 85 °C
Ex-certified accessories	3030417 D-ST 2,5
	3030721 ATP-ST 4
	1204504 SZF 0-0,4X2,5
	3022276 CLIPFIX 35-5
	3022218 CLIPFIX 35

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List of bridges	Plug-in bridge / FBS 2-4 / 3030116
	Plug-in bridge / FBS 3-4 / 3030129
	Plug-in bridge / FBS 4-4 / 3030132
	Plug-in bridge / FBS 5-4 / 3030145
	Plug-in bridge / FBS 10-4 / 3030158
	Plug-in bridge / FBS 20-4 / 3030352
Bridge data	16.5 A (1.5 mm <sup>2</sup> )
Ex temperature increase for bridging with bridge	40 K (19.4 A / 1.5 mm <sup>2</sup> ) 440 V
- At bridging between non-adjacent terminal blocks	352 V
- At bridging between non-adjacent terminal blocks via PE terminal block	352 V
- At cut-to-length bridging with cover	220 V
- At cut-to-length bridging with partition plate	275 V
Rated insulation voltage	400 V
output	(Permanent)

## Ex level General

Rated voltage	440 V
Rated current	17.5 A
Maximum load current	17.5 A
Contact resistance	1.43 mΩ

## Ex connection data General

Nominal cross section	1.5 mm <sup>2</sup>
Rated cross section AWG	16
Connection capacity rigid	0.08 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Connection capacity AWG	28 ... 16
Connection capacity flexible	0.08 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Connection capacity AWG	28 ... 16

## Dimensions

Width	4.2 mm
Height	48.5 mm
Depth on NS 35/7,5	36.5 mm
Depth on NS 35/15	44 mm

## Material specifications

Color	white (RAL 9010)
Flammability rating according to UL 94	V0
Insulating material	PA

## Electrical tests

### Surge voltage test

Result	Test passed
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## Temperature-rise test

Requirement temperature-rise test	Increase in temperature $\leq 45$ K
Result	Test passed
Result	Test passed

## Power-frequency withstand voltage

Result	Test passed
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## Mechanical properties

### Mechanical data

Open side panel	Yes
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## Mechanical tests

### Mechanical strength

Result	Test passed
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### Attachment on the carrier

Result	Test passed
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## Environmental and real-life conditions

### Aging

Temperature cycles	192
Result	Test passed

### Needle-flame test

Time of exposure	30 s
Result	Test passed

### Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2008-03
Spectrum	Long life test category 1, class B, body mounted
Frequency	$f_1 = 5$ Hz to $f_2 = 150$ Hz
ASD level	0.02g <sup>2</sup> /Hz
Acceleration	0.8g
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	Semi-sinusoidal
Acceleration	5g
Shock duration	30 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)

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Result	Test passed
<b>Ambient conditions</b>	
Ambient temperature (operation)	-60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see 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 (operation)	20 % ... 90 %
Permissible humidity (storage/transport)	30 % ... 70 %

## Standards and regulations

Connection in acc. with standard	IEC 60947-7-1
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## Mounting

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

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## Approvals


To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3037054>

 <b>CSA</b> Approval ID: 13631				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
B	300 V	15 A	26 - 14	-
C	300 V	15 A	26 - 14	-

 <b>IECEE CB Scheme</b> Approval ID: DE1-63027_A1				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine	500 V	17.5 A	-	0.2 - 1.5

 <b>NK</b> Approval ID: 09 ME 140				
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 <b>VDE Zeichengenehmigung</b> Approval ID: 40009031				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine	500 V	17.5 A	-	0.2 - 1.5

 <b>cULus Recognized</b> Approval ID: E60425				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
B	300 V	15 A	26 - 14	-
C	300 V	15 A	26 - 14	-
D	600 V	5 A	26 - 14	-


<b>DNV</b> Approval ID: TAE00001CS				
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 <b>ATEX</b> Approval ID: KEMA01ATEX2129U				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
Type examination certificate	440 V	17.5 A	-	0.08 - 1.5

 <b>EAC Ex</b> Approval ID: KZ 7500525010101950				
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 <b>IECEx</b> Approval ID: IECEx KEM 06.0043U				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	440 V	17.5 A	-	0.08 - 1.5

 <b>CCC</b> Approval ID: 2020322313000621				
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 <b>UKCA-EX</b> Approval ID: DEKRA 21UKEX0302U				
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## Classifications

### ECLASS

ECLASS-13.0

27250101

### ETIM

ETIM 9.0

EC000897

### UNSPSC

UNSPSC 21.0

39121400

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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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### EF3.1 Climate Change

CO2e kg	0.034 kg CO2e
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