

# PTVFIX 2,5-3L/N/GNYE - Device terminal block



1300613

<https://www.phoenixcontact.com/nl/products/1300613>

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Device terminal block, nom. voltage: 450 V, nominal current: 24 A, number of connections: 10, number of positions: 5, connection method: Push-in connection, cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, mounting type: for snapping onto a DIN rail adapter, Direct mounting with flange, Free-hanging, color: gray/blue/green-yellow

## Commercial data

Item number	1300613
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	BEA281
Product key	BEA281
GTIN	4063151545604
Weight per piece (including packing)	15,506 g
Weight per piece (excluding packing)	15,488 g
Customs tariff number	85369010
Country of origin	PL

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## Technical data

### Notes

#### General

Note	The maximum load current of a single clamping unit must not be exceeded.
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### Product properties

Product type	Distributor terminal block
Number of positions	5
Number of connections	10
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	0.77 W

### Connection data

Number of connections per level	10
Nominal cross section	2.5 mm <sup>2</sup>
Stripping length	8 mm ... 10 mm
Internal cylindrical gage	A3 B3
Connection in acc. with standard	IEC 60998-2-2
Conductor cross section rigid	0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Cross section AWG	26 ... 12 (converted acc. to IEC)
Conductor cross section flexible	0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross section, flexible [AWG]	26 ... 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Nominal current	24 A
Maximum load current	32 A (with 4 mm <sup>2</sup> conductor cross-section)
Maximum total current	The maximum load current of the individual terminal point must not be exceeded.
Nominal voltage	450 V (in accordance with IEC 60998-2-2)

#### Connection cross sections directly pluggable

Conductor cross section rigid	0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross section, rigid [AWG]	20 ... 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.75 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>

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Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
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## Dimensions

Width	25.98 mm
Height	28.6 mm
Depth	21.7 mm

## Material specifications

Color	multicolored
	gray (RAL 7042)
	blue (RAL 5015)
	green-yellow
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °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
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	No
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## Environmental and real-life conditions

### Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2018-05
Spectrum	Long 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> ) <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):2018-05
Pulse shape	Half-sine
Acceleration	30g

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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 ... 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

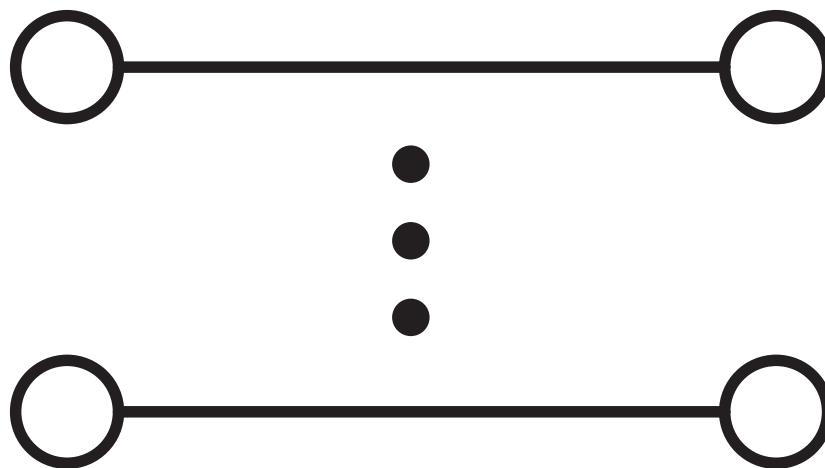
Connection in acc. with standard	IEC 60998-2-2
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## Mounting

Mounting type	for snapping onto a DIN rail adapter
	Direct mounting with flange
	Free-hanging

## Drawings

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/nl/products/1300613>

 <b>CSA</b> Approval ID: 2030668				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Use group B	300 V	20 A	26 - 12	-
Use group C	300 V	20 A	26 - 12	-
Use group D	600 V	5 A	26 - 12	-

 <b>cULus Recognized</b> Approval ID: E60425				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Use group B	300 V	20 A	26 - 12	-
Use group C	300 V	20 A	26 - 12	-
Use group F	500 V	20 A	26 - 12	-
Use group D	600 V	5 A	26 - 12	-

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## Classifications

### ECLASS

ECLASS-13.0	27250118
ECLASS-15.0	27250118

### ETIM

ETIM 9.0	EC000897
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### 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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## Accessories

 Note: Applying some accessories below might limit this product.


### FBS 2-5 - Plug-in bridge

3030161

<https://www.phoenixcontact.com/nl/products/3030161>



Plug-in bridge, pitch: 5.2 mm, number of positions: 2, length: 23 mm, color: red

 Max. current carrying capacity: 24 A

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### FBS 2-5 BU - Plug-in bridge

3036877

<https://www.phoenixcontact.com/nl/products/3036877>



Plug-in bridge, pitch: 5.2 mm, number of positions: 2, color: blue

 Max. current carrying capacity: 24 A

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## FBS 2-5 GY - Plug-in bridge

3038969

<https://www.phoenixcontact.com/nl/products/3038969>



Plug-in bridge, pitch: 5.2 mm, number of positions: 2, color: gray

 Max. current carrying capacity: 24 A

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## PTFIX-NS35 - DIN rail adapter

3274054

<https://www.phoenixcontact.com/nl/products/3274054>



DIN rail adapter, for NS 35 and NS 15 for accommodating 2.5 mm<sup>2</sup>, 4 mm<sup>2</sup>, and 10 mm<sup>2</sup> FIX blocks in vertical direction, color: gray

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## PTFIX-NS35A - DIN rail adapter

3274056

<https://www.phoenixcontact.com/nl/products/3274056>

DIN rail adapter, for NS 35 for accommodating 2.5 mm<sup>2</sup> and 4 mm<sup>2</sup> FIX blocks in horizontal direction, color: gray



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## PTFIX-NS35A-FIX - DIN rail adapter

3274057

<https://www.phoenixcontact.com/nl/products/3274057>

DIN rail adapter, for NS 35 with end bracket function for accommodating 2.5 mm<sup>2</sup> and 4 mm<sup>2</sup> FIX blocks in horizontal direction; color: gray



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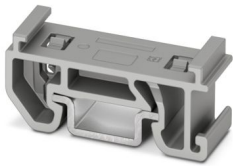
<https://www.phoenixcontact.com/nl/products/1300613>

## PTFIX-NS15A - DIN rail adapter

3274058

<https://www.phoenixcontact.com/nl/products/3274058>

DIN rail adapter, for NS 15 for accommodating 2.5 mm<sup>2</sup> and 4 mm<sup>2</sup> FIX blocks in horizontal direction, color: gray



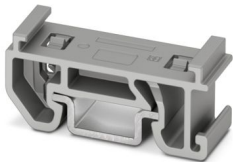
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## PTFIX-NS15A-FIX - DIN rail adapter

3274059

<https://www.phoenixcontact.com/nl/products/3274059>

DIN rail adapter, for NS 15 with end bracket function for accommodating 2.5 mm<sup>2</sup> and 4 mm<sup>2</sup> FIX blocks in horizontal direction, color: gray



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## PTFIX-F - Flange

3274060

<https://www.phoenixcontact.com/nl/products/3274060>



Flange, With screw fixing, for direct mounting of the 2.5 mm<sup>2</sup> and 4 mm<sup>2</sup> FIX blocks, depth: 21.7 mm, width: 8.6 mm, height: 28.6 mm, color: gray, mounting type: Screw mounting

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## TML (EX3,8)R - Marker strip

0801837

<https://www.phoenixcontact.com/nl/products/0801837>



Marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, Number of individual labels: 12, roll length: 30 m, text field height: 3.8 mm, text field width: 30000 mm

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<https://www.phoenixcontact.com/nl/products/1300613>

## TML (104X3,8)R - Marker strip

0801833

<https://www.phoenixcontact.com/nl/products/0801833>



Marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, Number of individual labels: 2500, text field height: 3.8 mm, text field width: 104 mm

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## TML (104X2,8)R - Marker strip

0801832

<https://www.phoenixcontact.com/nl/products/0801832>



Marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, Number of individual labels: 2500, text field height: 2.8 mm, text field width: 104 mm

# PTVFIX 2,5-3L/N/GNYE - Device terminal block



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<https://www.phoenixcontact.com/nl/products/1300613>

## TML (EX2,8)R - Marker strip

0801836

<https://www.phoenixcontact.com/nl/products/0801836>



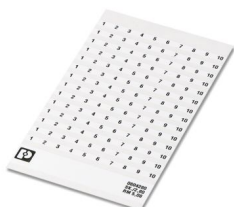
Marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, Number of individual labels: 14, roll length: 30 m, text field height: 2.8 mm, text field width: 30000 mm

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## SK 2,8 REEL P5,2 WH CUS - Marker card

8199986

<https://www.phoenixcontact.com/nl/products/8199986>



Marker card, can be ordered: by card, white, labeled according to customer specifications, mounting type: adhesive, for terminal block width: 5.2 mm

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## SK 3,8 REEL P5,2 WH CUS - Marker card

8199989

<https://www.phoenixcontact.com/nl/products/8199989>



Marker card, can be ordered: by card, white, labeled according to customer specifications, mounting type: adhesive, for terminal block width: 5.2 mm

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## US-TML (104X3,8) - Marker for terminal blocks

0830768

<https://www.phoenixcontact.com/nl/products/0830768>



Marker for terminal blocks, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, THERMOMARK PRIME 2.0, mounting type: adhesive, Number of individual labels: 22, text field height: 3.8 mm, text field width: 104 mm

# PTVFIX 2,5-3L/N/GNYE - Device terminal block



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<https://www.phoenixcontact.com/nl/products/1300613>

## US-TML (104X2,8) - Marker for terminal blocks

0830767

<https://www.phoenixcontact.com/nl/products/0830767>



Marker for terminal blocks, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, THERMOMARK PRIME 2.0, mounting type: adhesive, Number of individual labels: 26, text field height: 2.8 mm, text field width: 104 mm

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## SK U/3,8 WH:UNBEDRUCKT - Marker card

0803906

<https://www.phoenixcontact.com/nl/products/0803906>



Marker card, Din A4, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, Number of individual labels: 1440, text field height: 3.8 mm, text field width: 186 mm

# PTVFIX 2,5-3L/N/GNYE - Device terminal block



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## SK U/2,8 WH:UNBEDRUCKT - Marker card

0803883

<https://www.phoenixcontact.com/nl/products/0803883>

Marker card, Din A4, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, Number of individual labels: 3600, text field height: 2.8 mm, text field width: 186 mm



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## MM-TML (EX3,8)R C1 WH/BK - Label

1092026

<https://www.phoenixcontact.com/nl/products/1092026>

Label, Roll, white/black, unlabeled, can be labeled with: THERMOFOX, THERMOMARK GO, THERMOMARK GO.K, mounting type: adhesive, Number of individual labels: 1, roll length: 8 m, text field height: 3.8 mm, text field width: 8000 mm



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