

# Installation terminal block - PTI 6 - 3213972

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Installation terminal block, Push-in connection, Cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 20 - 8, Width: 8.2 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

## Product Features

- Compatible with all Phoenix Contact installation terminal blocks
- Each terminal point can be clearly labeled and easily recognized in every terminal block mounting position
- As well as the testing facility in the function shaft, each terminal point has a test contact
- Compact design tailored to installation distributors
- The new Push-in connection technology enables easy, direct insertion of solid and stranded conductors with ferrules with a cross section of 0.34 mm<sup>2</sup> or higher

## Key commercial data

<b>package_quantity</b>	50
<b>GTIN</b>	4046356609340

## Technical data

### General

<b>Number of levels</b>	1
<b>Number of connections</b>	2
<b>Color</b>	gray
<b>Insulating material</b>	PA
<b>Inflammability class according to UL 94</b>	V0

### General

<b>Maximum load current</b>	41 A (with 6 mm <sup>2</sup> conductor cross section)
<b>Maximum load current</b>	51 A (with 10 mm <sup>2</sup> conductor cross section)
<b>Rated surge voltage</b>	6 kV
<b>Pollution degree</b>	3
<b>Surge voltage category</b>	III
<b>Insulating material group</b>	I
<b>Connection in acc. with standard</b>	IEC 60947-7-1
<b>Nominal current I<sub>N</sub></b>	41 A
<b>Nominal voltage U<sub>N</sub></b>	800 V
<b>Open side panel</b>	ja
<b>Shock protection test specification</b>	DIN EN 50274 (VDE 0660-514):2002-11

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## Technical data

### General

Back of the hand protection	guaranteed
Finger protection	guaranteed
Surge voltage test setpoint	9.8 kV
Result of surge voltage test	Test passed
Power frequency withstand voltage setpoint	2 kV
Result of power-frequency withstand voltage test	Test passed
Checking the mechanical stability of terminal points (5 x conductor connection)	Test passed
Bending test rotation speed	10 rpm
Bending test turns	135
Bending test conductor cross section/weight	0.5 mm <sup>2</sup> / 0.3 kg
Bending test conductor cross section/weight	6 mm <sup>2</sup> / 1.4 kg
Bending test conductor cross section/weight	10 mm <sup>2</sup> / 2 kg
Result of bending test	Test passed
Conductor cross section tensile test	0.5 mm <sup>2</sup>
Tractive force setpoint	20 N
Conductor cross section tensile test	4 mm <sup>2</sup>
Tractive force setpoint	80 N
Conductor cross section tensile test	10 mm <sup>2</sup>
Tractive force setpoint	90 N
Tensile test result	Test passed
Tight fit on carrier	NS 35
Setpoint	5 N
Result of tight fit test	Test passed
Requirements, voltage drop	≤ 3.2 mV
Result of voltage drop test	Test passed
Temperature-rise test	Test passed
Conductor cross section short circuit testing	6 mm <sup>2</sup>
Short-time current	0.72 kA
Conductor cross section short circuit testing	10 mm <sup>2</sup>
Short-time current	1.2 kA
Short circuit stability result	Test passed
Ageing test for screwless modular terminal block temperature cycles	192
Result of aging test	Test passed
Proof of thermal characteristics (needle flame) effective duration	30 s
Result of thermal test	Test passed
Test specification, oscillation, broadband noise	DIN EN 50155 (VDE 0115-200):2008-03
Test spectrum	Service life test category 2, bogie mounted
Test frequency	f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 250 Hz
ASD level	6.12 (m/s <sup>2</sup> ) <sup>2</sup> /Hz

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## Technical data

### General

Acceleration	3.12 g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Oscillation, broadband noise test result	Test passed
Test specification, shock test	DIN EN 50155 (VDE 0115-200):2008-03
Shock form	Half-sine
Acceleration	30 g
Shock duration	18 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Shock test result	Test passed
Temperature index, insulating material (DIN EN 60216-1 (VDE 0304-21))	130 °C
Static insulating material application in cold	-60 °C

### Dimensions

Width	8.2 mm
Length	66 mm
Height	48.50 mm
Height NS 35/7,5	50 mm
Height NS 35/15	57.5 mm

### Connection data

Conductor cross section solid min.	0.5 mm <sup>2</sup>
Conductor cross section solid max.	10 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	20
Conductor cross section AWG/kcmil max	8
Conductor cross section stranded min.	0.5 mm <sup>2</sup>
Conductor cross section stranded max.	6 mm <sup>2</sup>
Min. AWG conductor cross section, stranded	20
Max. AWG conductor cross section, stranded	10
Conductor cross section stranded, with ferrule without plastic sleeve min.	0.5 mm <sup>2</sup>
Conductor cross section stranded, with ferrule without plastic sleeve max.	6 mm <sup>2</sup>
Conductor cross section stranded, with ferrule with plastic sleeve min.	0.5 mm <sup>2</sup>
Conductor cross section stranded, with ferrule with plastic sleeve max.	6 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	1.5 mm <sup>2</sup>
Connection method	Push-in connection
Stripping length	12 mm

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## Technical data

### Connection data

Internal cylindrical gage	A5
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## classifications

### eCl@ss

eCl@ss 4.0	27141116
eCl@ss 4.1	27141121
eCl@ss 5.0	27141120
eCl@ss 5.1	27141120
eCl@ss 6.0	27141120
eCl@ss 7.0	27141120
eCl@ss 8.0	27141120

### ETIM

ETIM 4.0	EC000897
ETIM 5.0	EC000897

### UNSPSC

UNSPSC 6.01	30211811
UNSPSC 7.0901	39121410
UNSPSC 11	39121410
UNSPSC 12.01	39121410
UNSPSC 13.2	39121410

## approvals

GOST / GL /

### Approval details

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GL
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## accessories

### End cover

## Installation terminal block - PTI 6 - 3213972

### accessories

D-DTI 6 - 3034947



DP PS-8 - 3036741



### Partition plate

ATP-ST 6 - 3024481



ATP-PTI/3 - 3213990



### Screwdriver tools

SZF 2-0,8X4,0 - 1204520



### Support

# Installation terminal block - PTI 6 - 3213972

## accessories

AB-PTI 6 - 3214008



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## Documentation

PT-IL - 3208090



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## Bridge

FBS 2-8 - 3030284



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FBS 3-8 - 3030297



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FBS 4-8 - 3030307



## Installation terminal block - PTI 6 - 3213972

### accessories

FBS 5-8 - 3030310



FBS 10-8 - 3030323



FBS 6-8 - 3032470



FBSRH 2-8 - 3033802



FBSRH 3-8 - 3033803



FBSRH 4-8 - 3033804



## Installation terminal block - PTI 6 - 3213972

accessories

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### Mounting rail

NS 35/ 7,5 PERF 2000MM - 0801733



NS 35/ 7,5 UNPERF 2000MM - 0801681



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



NS 35/ 7,5 WH UNPERF 2000MM - 1204122



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





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### accessories

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



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



NS 35/ 7,5 CU UNPERF 2000MM - 0801762



NS 35/ 7,5 CAP - 1206560



NS 35/15 PERF 2000MM - 1201730



NS 35/15 UNPERF 2000MM - 1201714



## Installation terminal block - PTI 6 - 3213972

### accessories

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NS 35/15 WH PERF 2000MM - 0806602



NS 35/15 WH UNPERF 2000MM - 1204135



NS 35/15 AL UNPERF 2000MM - 1201756



NS 35/15 ZN PERF 2000MM - 1206599



NS 35/15 ZN UNPERF 2000MM - 1206586



## Installation terminal block - PTI 6 - 3213972

### accessories

NS 35/15 CU UNPERF 2000MM - 1201895



NS 35/15 CAP - 1206573



NS 35/15-2,3 UNPERF 2000MM - 1201798



### Terminal marking

ZBF 5:UNBEDRUCKT - 0808642



UC-TMF 5 - 0818153



## Installation terminal block - PTI 6 - 3213972

### accessories

UCT-TMF 5 - 0828744



ZB 8:UNBEDRUCKT - 1052002



UC-TM 8 - 0818072



UCT-TM 8 - 0828740



ZBF 8:UNBEDRUCKT - 0808781



UC-TMF 8 - 0818137



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### accessories

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UCT-TMF 8 - 0828748



TMT (EX9,5)R - 0828295



### Labeled terminal marker

ZBF 5 CUS - 0825025



UC-TMF 5 CUS - 0824638



UCT-TMF 5 CUS - 0829658



## Installation terminal block - PTI 6 - 3213972

### accessories

ZB 8 CUS - 0825011



UC-TM 8 CUS - 0824597



UCT-TM 8 CUS - 0829616



ZBF 8 CUS - 0825030



UC-TMF 8 CUS - 0824654



UCT-TMF 8 CUS - 0829672



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accessories

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## Test plug terminal block

MPS-MT - 0201744



PAI-4-FIX BU - 3032729



PAI-4-FIX OG - 3034455



PAI-4-FIX YE - 3032745



PAI-4-FIX RD - 3032732



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### accessories

PAI-4-FIX GN - 3032758



PAI-4-FIX BK - 3032774



PAI-4-FIX GY - 3032790



PAI-4-FIX VT - 3032761



PAI-4-FIX BN - 3032787



PS-8 - 3031005





## Installation terminal block - PTI 6 - 3213972

### accessories

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PS-8/2,3MM RD - 3048564



### Insulating sleeve

MPS-IH WH - 0201663



MPS-IH RD - 0201676



MPS-IH BU - 0201689



MPS-IH YE - 0201692



## Installation terminal block - PTI 6 - 3213972

### accessories

MPS-IH GN - 0201702



MPS-IH GY - 0201728



MPS-IH BK - 0201731



### Planning and marking software

CLIP-PROJECT ADVANCED - 5146040



CLIP-PROJECT PROFESSIONAL - 5146053



### End block

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### accessories

E/UK - 1201442



E/UK 1 - 1201413



CLIPFIX 35 - 3022218



CLIPFIX 35-5 - 3022276



E/NS 35 N - 0800886



### Drawings

## Installation terminal block - PTI 6 - 3213972

Circuit diagram



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