

# Double-level terminal block - PTTBS 2,5 - 3209604

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Double-level terminal block, Cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 26 - 12, Connection type: Push-in connection, Width: 5.2 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

## Product Features

- The push-in connection terminal blocks are characterized by the system features of the CLIPLINE complete system and by easy and tool-free wiring of conductors with ferrules or solid conductors
- The compact design and front connection enable wiring in a confined space
- In addition to the testing facility in the double function shaft, all terminal blocks provide an additional test connection

## Key commercial data

package_quantity	50
GTIN	4046356330084

## Technical data

### General

Number of levels	2
Number of connections	4
Color	gray
Insulating material	PA
Inflammability class according to UL 94	V0

### General

Rated surge voltage	6 kV
Surge voltage category	III
Insulating material group	I
Connection in acc. with standard	IEC 60947-7-1
Nominal current I <sub>N</sub>	22 A
Nominal voltage U <sub>N</sub>	500 V
Open side panel	ja
Shock protection test specification	DIN EN 50274 (VDE 0660-514):2002-11
Back of the hand protection	guaranteed
Finger protection	guaranteed
Surge voltage test setpoint	7.3 kV
Result of surge voltage test	Test passed
Power frequency withstand voltage setpoint	1.89 kV

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## Technical data

### General

<b>Result of power-frequency withstand voltage test</b>	Test passed
<b>Checking the mechanical stability of terminal points (5 x conductor connection)</b>	Test passed
<b>Bending test rotation speed</b>	10 rpm
<b>Bending test turns</b>	135
<b>Bending test conductor cross section/weight</b>	0.14 mm <sup>2</sup> / 0.2 kg
<b>Bending test conductor cross section/weight</b>	2.5 mm <sup>2</sup> / 0.7 kg
<b>Bending test conductor cross section/weight</b>	4 mm <sup>2</sup> / 0.9 kg
<b>Result of bending test</b>	Test passed
<b>Conductor cross section tensile test</b>	0.14 mm <sup>2</sup>
<b>Tractive force setpoint</b>	10 N
<b>Conductor cross section tensile test</b>	2.5 mm <sup>2</sup>
<b>Tractive force setpoint</b>	50 N
<b>Conductor cross section tensile test</b>	4 mm <sup>2</sup>
<b>Tractive force setpoint</b>	60 N
<b>Tensile test result</b>	Test passed
<b>Tight fit on carrier</b>	NS 35
<b>Setpoint</b>	1 N
<b>Result of tight fit test</b>	Test passed
<b>Requirements, voltage drop</b>	≤ 3.2 mV
<b>Result of voltage drop test</b>	Test passed
<b>Temperature-rise test</b>	Test passed
<b>Conductor cross section short circuit testing</b>	2.5 mm <sup>2</sup>
<b>Short-time current</b>	0.3 kA
<b>Conductor cross section short circuit testing</b>	4 mm <sup>2</sup>
<b>Short-time current</b>	0.48 kA
<b>Short circuit stability result</b>	Test passed
<b>Ageing test for screwless modular terminal block temperature cycles</b>	192
<b>Result of aging test</b>	Test passed
<b>Proof of thermal characteristics (needle flame) effective duration</b>	30 s
<b>Result of thermal test</b>	Test passed
<b>Test specification, oscillation, broadband noise</b>	DIN EN 50155 (VDE 0115-200):2008-03
<b>Test spectrum</b>	Service life test category 1, class B, body mounted
<b>Test frequency</b>	f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 150 Hz
<b>ASD level</b>	1.857 (m/s <sup>2</sup> ) <sup>2</sup> /Hz
<b>Acceleration</b>	0.8 g
<b>Test duration per axis</b>	5 h
<b>Test directions</b>	X-, Y- and Z-axis
<b>Oscillation, broadband noise test result</b>	Test passed
<b>Test specification, shock test</b>	DIN EN 50155 (VDE 0115-200):2008-03

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## Technical data

### General

Shock form	Half-sine
Acceleration	5 g
Shock duration	30 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))	125 °C
Static insulating material application in cold	-60 °C

### Dimensions

Width	5.2 mm
Length	78 mm
Height NS 35/7,5	55 mm
Height NS 35/15	62.5 mm

### Connection data

Conductor cross section solid min.	0.14 mm <sup>2</sup>
Conductor cross section solid max.	4 mm <sup>2</sup>
Conductor cross section stranded min.	0.14 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	26
Conductor cross section AWG/kcmil max	12
Conductor cross section stranded, with ferrule without plastic sleeve min.	0.14 mm <sup>2</sup>
Conductor cross section stranded, with ferrule without plastic sleeve max.	2.5 mm <sup>2</sup>
Conductor cross section stranded, with ferrule with plastic sleeve min.	0.14 mm <sup>2</sup>
Conductor cross section stranded, with ferrule with plastic sleeve max.	2.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	0.5 mm <sup>2</sup>
Connection method	Push-in connection
Stripping length	10 mm
Internal cylindrical gage	A3

### classifications

#### eCl@ss

eCl@ss 4.0	27141121
eCl@ss 4.1	27141121
eCl@ss 5.0	27141120
eCl@ss 5.1	27141120
eCl@ss 6.0	27141120

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## classifications

### eCl@ss

eCl@ss 7.0	27141120
eCl@ss 8.0	27141120

### ETIM

ETIM 2.0	EC000897
ETIM 3.0	EC000897
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

CSA / UL Recognized / VDE Zeichengenehmigung / cUL Recognized / GOST / LR / GL / RS / ABS / NK / IECCEB Scheme / BV / IECCEB Scheme / GOST / cULus Recognized /

### Approval details

Usegroups	B	C	D
Nominal voltage UN	300 V	300 V	600 V
Nominal current IN	20 A	20 A	5 A
mm <sup>2</sup> /AWG/kcmil	26-12	26-12	26-12

Usegroups	B	C	D
Nominal voltage UN	300 V	300 V	600 V
Nominal current IN	20 A	20 A	5 A
mm <sup>2</sup> /AWG/kcmil	26-12	26-12	26-12

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# Double-level terminal block - PTTBS 2,5 - 3209604

## approvals

Nominal voltage UN	500 V
Nominal current IN	22 A
mm <sup>2</sup> /AWG/kcmil	0.2-4

**cUL Recognized**

Usegroups	B	C	D
Nominal voltage UN	300 V	300 V	600 V
Nominal current IN	20 A	20 A	5 A
mm <sup>2</sup> /AWG/kcmil	26-12	26-12	26-12

**GOST**

**LR**

**GL**

**RS**

**ABS**

**NK**

**IECEE CB Scheme**

Nominal voltage UN	500 V
Nominal current IN	22 A
mm <sup>2</sup> /AWG/kcmil	0.2-4

**BV**

Nominal voltage UN	800 V
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# Double-level terminal block - PTTBS 2,5 - 3209604

## approvals

Nominal current IN	24 A
mm <sup>2</sup> /AWG/kcmil	0.2-4



## accessories

### Partition plate

ATP-STTB 4 - 3030747



### End cover

D-STTBS 2,5 - 3038503



DP PS-5 - 3036725



### Screwdriver tools

## Double-level terminal block - PTTBS 2,5 - 3209604

### accessories

SZF 1-0,6X3,5 - 1204517



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### Marker carriers

STP 5-2-ZB - 3037643



GBS-ZB/26X6 - 0809298



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### Terminal marking

GBS 5-25X12 - 0810588



ZB 5 :UNBEDRUCKT - 1050004



## Double-level terminal block - PTTBS 2,5 - 3209604

### accessories

UC-TM 5 - 0818108



UCT-TM 5 - 0828734



ZBF 5:UNBEDRUCKT - 0808642



UC-TMF 5 - 0818153



UCT-TMF 5 - 0828744



### Documentation



# Double-level terminal block - PTTBS 2,5 - 3209604

accessories

PT-IL - 3208090



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## Bridge

FBS 2-5 - 3030161



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FBS 3-5 - 3030174



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FBS 4-5 - 3030187



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FBS 5-5 - 3030190



## Double-level terminal block - PTTBS 2,5 - 3209604

### accessories

FBS 10-5 - 3030213



FBS 20-5 - 3030226



FBS 50-5 - 3038930



FBS-PV - 3032185



### Mounting rail

NS 35/ 7,5 PERF 2000MM - 0801733



## Double-level terminal block - PTTBS 2,5 - 3209604

### accessories

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



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



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



## Double-level terminal block - PTTBS 2,5 - 3209604

accessories

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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



NS 35/15 WH PERF 2000MM - 0806602



## Double-level terminal block - PTTBS 2,5 - 3209604

### accessories

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



NS 35/15 CU UNPERF 2000MM - 1201895



NS 35/15 CAP - 1206573



## Double-level terminal block - PTTBS 2,5 - 3209604

accessories

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



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### Labeled terminal marker

ZB 5 CUS - 0824962



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UC-TM 5 CUS - 0824581



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UCT-TM 5 CUS - 0829595



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ZBF 5 CUS - 0825025



## Double-level terminal block - PTTBS 2,5 - 3209604

### accessories

UC-TMF 5 CUS - 0824638



UCT-TMF 5 CUS - 0829658



### Test plug terminal block

MPS-MT - 0201744



PAI-4-FIX-5/6 BU - 3035975



PAI-4-FIX-5/6 OG - 3035974



## Double-level terminal block - PTTBS 2,5 - 3209604

### accessories

PAI-4-FIX-5/6 YE - 3035977



PAI-4-FIX-5/6 RD - 3035976



PAI-4-FIX-5/6 GN - 3035978



PAI-4-FIX-5/6 BK - 3035980



PAI-4-FIX-5/6 GY - 3035982



PAI-4-FIX-5/6 VT - 3035979





## Double-level terminal block - PTTBS 2,5 - 3209604

### accessories

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PAI-4-FIX-5/6 BN - 3035981



PS-5 - 3030983



PS-5/2,3MM RD - 3038723



### Insulating sleeve

MPS-IH WH - 0201663



MPS-IH RD - 0201676



## Double-level terminal block - PTTBS 2,5 - 3209604

### accessories

MPS-IH BU - 0201689



MPS-IH YE - 0201692



MPS-IH GN - 0201702



MPS-IH GY - 0201728



MPS-IH BK - 0201731



ISH 2,5/0,2 - 3002843



## Double-level terminal block - PTTBS 2,5 - 3209604

accessories

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ISH 2,5/0,5 - 3002856



ISH 2,5/1,0 - 3002869



### Planning and marking software

CLIP-PROJECT ADVANCED - 5146040



CLIP-PROJECT PROFESSIONAL - 5146053



### End block

CLIPFIX 35 - 3022218



# Double-level terminal block - PTTBS 2,5 - 3209604

accessories

CLIPFIX 35-5 - 3022276



E/NS 35 N - 0800886



## Drawings

Circuit diagram

