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PHOENIX CONTACT STTB 2 Component Terminal Block



STTB 2,5-2DIO/O-UL/UR-UL – Component terminal

https://www.phoenixcontact.com/gb/products/3031584

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Component terminal block, The max. current is determined by the diode. Installed: Diode 1N 4007, reverse voltage: 1300 V, maximum continuous current: 0.5 A., with integrated diode, nominal current: 0.5 A, 1st and 2nd level, connection method: Spring-cage connection, Rated cross section: 2.5 mm2, cross section: 0.08 mm2 – 4 mm2, mounting: NS 35/7,5, NS 35/15, color: gray

Your advantages

- For more versions and versions for soldering in components yourself, visit phoenixcontact.com/products
- Double-level diode and LED terminal blocks perform a wide range of switching tasks

Commercial data

Item number	3031584
Packing unit	50 pc

Minimum order quantity	50 pc
Sales key	BE2172
Product key	BE2172
GTIN	4017918183066
Weight per piece (including packing)	10.8 g
Weight per piece (excluding packing)	10.8 g
Customs tariff number	85369010
Country of origin	PL

Technical data

Notes

 General The max. current is determined by the diode. Installed: Diode 1N 4007, reverse voltage: 1300 V, maximum continuous current: 0.5 A.

Product properties

- Product type Component terminal block
- Number of connections 4
- Number of rows 2
- Potentials 2
- Insulation characteristics
- Overvoltage category III
- Degree of pollution 3

Electrical properties

- Rated insulation voltage 500 V
- Rated surge voltage 4 kV

Maximum power dissipation for nominal condition 0.77 W

Connection data

- Number of connections per level 2
- Nominal cross section 2.5 mm² 1st and 2nd level
- Stripping length 8 mm ... 10 mm
- Internal cylindrical gage A3
- Conductor cross section rigid 0.08 mm² ... 4 mm²
- Cross section AWG 28 ... 12 (converted acc. to IEC)
- Conductor cross section flexible 0.08 mm² ... 2.5 mm²
- Conductor cross section, flexible [AWG] 28 ... 14 (converted acc. to IEC)
- Conductor cross-section flexible (ferrule without plastic sleeve) 0.14 mm² ... 2.5 mm²
- Flexible conductor cross section (ferrule with plastic sleeve) 0.14 mm² ... 2.5 mm² 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve 0.5 mm²
- Nominal current 0.5 A
- Maximum load current 0.5 A
- Nominal cross section 2.5 mm²
- Component type Diode 1N4007
- Reverse voltage 1300 V

Dimensions

- Width 5.2 mm
- End cover width 2.2 mm
- Height 67.5 mm
- Depth on NS 35/7,5 47.5 mm
- Depth on NS 35/15 55 mm

Material specifications

- Color gray (RAL 7042)
- 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

Electrical tests

- Surge voltage test
- Test voltage setpoint 4.8 kV
- Result Test passed
- Short-time withstand current 2.5 mm² 0.3 kA
- Short-time withstand current 4 mm² 0.48 kA
- Result Test passed
- Power-frequency withstand voltage
- Test voltage setpoint 1.5 kV
- Result Test passed

Mechanical properties

- Mechanical data
- Open side panel Yes

Mechanical tests

- Mechanical strength
- Result Test passed

Attachment on the carrier

- DIN rail/fixing support NS 35
- Test force setpoint 1 N
- Result Test passed

Test for conductor damage and slackening

- Rotation speed 10 rpm
- Revolutions 135 0.08 mm² / 0.1 kg 2.5 mm² / 0.7 kg
- Conductor cross section/weight 4 mm² / 0.9 kg
- · Result Test passed

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 2, bogie-mounted
- Frequency f1 = 5 Hz to f2 = 250 Hz
- ASD level 6.12 (m/s²)²/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

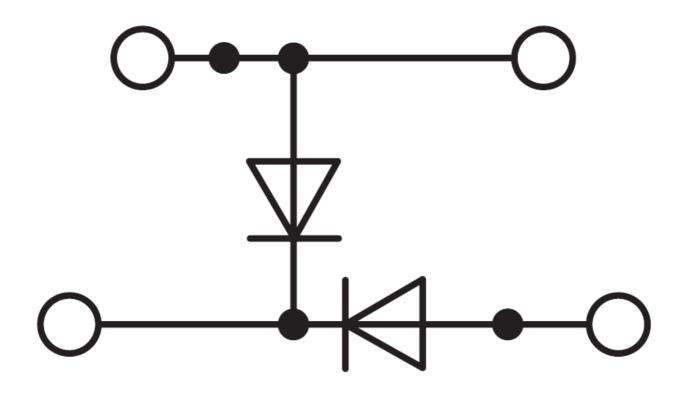
Ambient conditions

- Ambient temperature (operation) -60 °C ... 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 %

Mounting

• Mounting type NS 35/7,5 NS 35/15

Drawings



Approvals

To download certificates, visit the product detail page:

https://www.phoenixcontact.com/gb/products/3031584

CSA Approval ID: 13631				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	300 V	0.5 A	28 - 12	-
Use group C				
	300 V	0.5 A	28 - 12	-

EAC	EAC Approval ID: RU C-DE.BL08.B.00644		
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cULus Recognized Approval ID: E60425				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	300 V	0.5 A	28 - 12	-
Use group C				
	300 V	0.5 A	28 - 12	-

Classifications

ECLASS

- ECLASS-13.0 27250114
- ECLASS-15.0 27250114

ETIM

ETIM 9.0 EC000903

UNSPSC

UNSPSC 21.0 39121400

Environmental product compliance

EU RoHS

- Fulfills EU RoHS substance requirements Yes
- Exemption 7(a), 7(c)-I
- China RoHS
- Environment friendly use period (EFUP) EFUP-50
- An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
- EU REACH SVHC
- REACH candidate substance (CAS No.) Lead(CAS: 7439-92-1)
- SCIP 66270f08-8b34-4cf2-b1a1-b1374a051142

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Documents / Resources



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STTB 2, 5-2DIO-O-UL-UR-UL, STTB 2 Component Terminal Block, STTB 2, Component Terminal Block, Terminal Block

References

- User Manual
- PHOENIX

CONTACT

◆ 5-2DIO-O-UL-UR-UL, Component Terminal Block, PHOENIX CONTACT, STTB 2, STTB 2 Component Terminal Block, terminal block

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