

3028005
<https://www.phoenixcontact.com/us/products/3028005>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Component terminal block, with integrated diode, nom. voltage: 500 V, 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: black

Commercial data

Item number	3028005
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE02
Product key	BE2172
GTIN	4017918949952
Weight per piece (including packing)	12.475 g
Weight per piece (excluding packing)	12.475 g
Customs tariff number	85369010
Country of origin	PL

STTBS 2,5-DIO/O-U BK - Component terminal block



3028005

<https://www.phoenixcontact.com/us/products/3028005>

Technical data

Product properties

Product type	Component terminal block
Number of connections	4
Number of rows	2
Potentials	2

Data management status

Article revision	03
------------------	----

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Electrical properties

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	0.77 W

Connection data

Number of connections per level	2
Nominal cross section	2.5 mm ²

1st and 2nd level

Stripping length	10 mm
Internal cylindrical gage	A3
Conductor cross section rigid	0.08 mm ² ... 4 mm ²
Cross section AWG	28 ... 12 (converted acc. to IEC)
Conductor cross section flexible	0.08 mm ² ... 2.5 mm ²
Conductor cross section, flexible [AWG]	28 ... 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm ² ... 2.5 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm ² ... 2.5 mm ²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ²
Nominal current	0.5 A
Maximum load current	0.5 A
Nominal voltage	500 V
Nominal cross section	2.5 mm ²

Dimensions

Width	5.2 mm
End cover width	2.2 mm
Height	78 mm
Depth on NS 35/7,5	55 mm
Depth on NS 35/15	62.5 mm

STTBS 2,5-DIO/O-U BK - Component terminal block



3028005

<https://www.phoenixcontact.com/us/products/3028005>

Material specifications

Color	black (RAL 9005)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °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
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
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	Yes
-----------------	-----

Environmental and real-life conditions

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

STTBS 2,5-DIO/O-U BK - Component terminal block



3028005

<https://www.phoenixcontact.com/us/products/3028005>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3028005>



EAC

Approval ID: RU C-DE.BL08.B.00644



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	-



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	-

STTBS 2,5-DIO/O-U BK - Component terminal block



3028005

<https://www.phoenixcontact.com/us/products/3028005>

Classifications

ECLASS

ECLASS-11.0	27141127
ECLASS-12.0	27141127
ECLASS-13.0	27250114

ETIM

ETIM 9.0	EC000903
----------	----------

UNSPSC

UNSPSC 21.0	39121400
-------------	----------

STTBS 2,5-DIO/O-U BK - Component terminal block



3028005

<https://www.phoenixcontact.com/us/products/3028005>

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a)

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	44b4b544-a62d-4700-b6b7-638097f0dbc2

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com