

3044652

https://www.phoenixcontact.com/us/products/3044652

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Double-level terminal block, with equipotential bonder, nom. voltage: 500 V, nominal current: 24 A, connection method: Screw connection, Rated cross section: 2.5 mm², cross section: 0.14 mm² - 4 mm², mounting type: NS 35/7,5, NS 35/15, color: gray

Your advantages

- · Globally recognized: Internationally proven screw connection
- · Maintenance-free and vibration-resistant thanks to the patented Reakdyn principle
- · Space savings and flexibility with the connection of two identical conductors
- · Long-term stable connections with the use of high-quality materials
- · Low self-heating due to high contact forces
- · Maximum efficiency in the smallest space thanks to integrated level bridging, the connections are connected across levels
- · High space savings thanks to the compact integration of two separate circuits in a single terminal block

Commercial data

Item number	3044652
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE01
Product key	BE1114
GTIN	4017918997021
Weight per piece (including packing)	16.69 g
Weight per piece (excluding packing)	16.036 g
Customs tariff number	85369010
Country of origin	DE



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Technical data

Product properties

Product type	Multi-level terminal block
Product family	UT
Area of application	Railway industry
	Machine building
	Plant engineering
	Process industry
Number of connections	4
Number of rows	2
Potentials	1
nsulation 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

Level 1+2

Connection method	Screw connection
Screw thread	M3
Tightening torque	0.5 0.6 Nm
Stripping length	9 mm
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 60947-7-1
Conductor cross-section rigid	0.14 mm² 4 mm²
Cross section AWG	26 12 (converted acc. to IEC)
Conductor cross-section flexible	0.14 mm² 4 mm²
Conductor cross-section, flexible [AWG]	26 12 (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 same cross section, solid	0.14 mm² 1.5 mm²
2 conductors with same cross section, flexible	0.14 mm² 1.5 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.14 mm² 1.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 1.5 mm²
Nominal current	24 A



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Maximum load current	28 A (in case of a 4 mm² conductor cross-section, the maximum load current must not be exceeded by the total current of all connected conductors.)
Nominal voltage	500 V
Nominal cross section	2.5 mm²

Ex data

Rated data (ATEX/IECEx)

Identification	
	-60 °C 110 °C
Operating temperature range Ex-certified accessories	
	3047293 D-UTTB 2,5/4
	3047303 DP-UTTB 2,5/4
	3047316 ATP-UTTB 2,5/4
	1205053 SZS 0,6X3,5
	3022276 CLIPFIX 35-5
	3022218 CLIPFIX 35
List of bridges	Plug-in bridge / FBS 2-5 / 3030161
	Plug-in bridge / FBS 3-5 / 3030174
	Plug-in bridge / FBS 4-5 / 3030187
	Plug-in bridge / FBS 5-5 / 3030190
	Plug-in bridge / FBS 10-5 / 3030213
	Plug-in bridge / FBS 20-5 / 3030226
Bridge data	20 A / 2.5 mm²
Ex temperature increase	40 K (23.3 A / 2.5 mm²)
for bridging with bridge	352 V
- At bridging between non-adjacent terminal blocks	352 V
- At bridging between non-adjacent terminal blocks via PE terminal block	275 V
- At cut-to-length bridging with cover	220 V
- At cut-to-length bridging with partition plate	176 V
Rated insulation voltage	320 V
output	(Permanent)
level General	
Rated voltage	352 V
Rated current	21 A
Maximum load current	26.5 A

Rated voltage	352 V
Rated current	21 A
Maximum load current	26.5 A
Contact resistance	0.66 mΩ

Ex connection data General

Torque range	0.5 Nm 0.6 Nm
Nominal cross section	2.5 mm²
Rated cross section AWG	14
Connection capacity rigid	0.14 mm² 4 mm²
Connection capacity AWG	26 12



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Connection capacity flexible	0.14 mm² 2.5 mm²
Connection capacity AWG	26 14
2 conductors with same cross section, solid	0.14 mm² 1.5 mm²
2 conductors with the same cross-section AWG rigid	26 16
2 conductors with same cross section, stranded	0.14 mm² 1.5 mm²
2 conductors with the same cross-section AWG flexible	26 16

Dimensions

Width	5.2 mm
End cover width	2.2 mm
Height	69.9 mm
Depth	64.4 mm
Depth on NS 35/7,5	65 mm
Depth on NS 35/15	72.5 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
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	152 °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)	27,5 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

Electrical tests

Surge voltage test

Result	Test passed
Temperature-rise test	
Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Result	Test passed
Power-frequency withstand voltage	
Test voltage setpoint	1.89 kV
Result	Test passed



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Mechanical properties

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Open side panel Yes

Mechanical tests

Mechanical strength

Result	Test passed
Attachment on the carrier	
DIN rail/fixing support	NS 32/NS 35
Test force setpoint	1 N
Result	Test passed
Test for conductor damage and slackening	
Rotation speed	10 rpm
Revolutions	135

0.14 mm² / 0.2 kg

2.5 mm² / 0.7 kg 4 mm² / 0.9 kg

Test passed

Environmental and real-life conditions

Conductor cross-section/weight

Needle-flame test

Result

Time of exposure	30 s
Result	Test passed
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/s²)²/Hz
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis

Shocks

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.)

Ambient conditions

Ambient temperature (operation)	-60 °C 110 °C (Operating temperature range incl. self-heating;
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	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 %
tandards and regulations Connection in acc. with standard	IEC 60947-7-1
ounting	
ounting	
Mounting type	NS 35/7,5
	NS 35/15

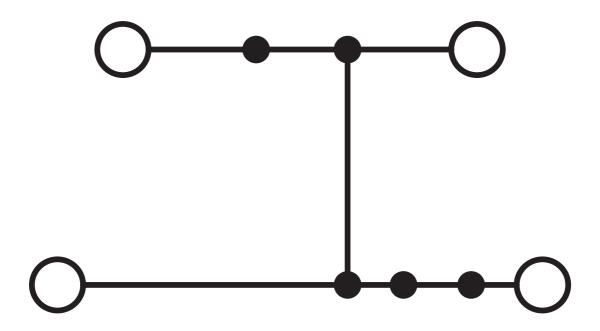


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Drawings







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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/3044652

DNV

Approval ID: TAE00001S9

•	CSA Approval ID: 13631				
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
В					
		300 V	20 A	26 - 12	-
С					
		300 V	20 A	26 - 12	-
D					
		600 V	5 A	26 - 12	-

CULus Recognized Approval ID: E60425					
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²	
В					
	300 V	20 A	26 - 12	-	
Multi-conductor connection	300 V	20 A	26 - 16	-	
С					
	300 V	20 A	26 - 12	-	
Multi-conductor connection	300 V	20 A	26 - 16	-	
D					
	600 V	5 A	26 - 12	-	
Multi-conductor connection	600 V	5 A	26 - 16	-	



ATEX

Approval ID: KEMA06ATEX0017U

. 71	cUL Recognized Approval ID: E192998				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
В					
		300 V	20 A	26 - 12	-
С					
		300 V	20 A	26 - 12	-



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EAC Ex

Approval ID: KZ 7500525010101950



IECEx

Approval ID: IECEx KEM 06.0013U

71	UL Recognized Approval ID: E192998				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
В					
		300 V	20 A	26 - 12	-
С					
		300 V	20 A	26 - 12	-

CCC

Approval ID: 2020322313000622



UKCA-EX

Approval ID: DEKRA 21UKEX0305U



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Classifications

ECLASS

	ECLASS-13.0	27250102			
	ECLASS-15.0	27250102			
ETIM					
	IIVI				
	ETIM 9.0	EC000897			
LINODOO					
Uľ	ISPSC				
	UNSPSC 21.0	39121400			



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)
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	211982d9-9eee-4238-ae3e-fe5fce1aebac
EF3.0 Climate Change	
CO2e kg	0.03 kg CO2e

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