

3211786

https://www.phoenixcontact.com/au/products/3211786

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Double-level terminal block, nom. voltage: 500 V, nominal current: 28 A, connection method: Push-in connection, 1st and 2nd level, Rated cross section:  $4 \text{ mm}^2$ , cross section:  $0.2 \text{ mm}^2$  -  $6 \text{ mm}^2$ , mounting type: NS 35/7.5, NS 35/15, color: gray

### Your advantages

- · In addition to the testing option in the double function shaft, all terminal blocks provide an additional test pick-off
- The compact design and front connection enable wiring in a confined space<br/>
  space<br/>
  in a confined space<br/>
  in a
- 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
- · Tested for railway applications

#### Commercial data

Item number	3211786
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE2214
Product key	BE2214
Catalog page	Page 99 (C-1-2019)
GTIN	4046356482707
Weight per piece (including packing)	16.4 g
Weight per piece (excluding packing)	15.2 g
Customs tariff number	85369010
Country of origin	CN



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### Technical data

#### Product properties

Product type	Multi-level terminal block
Product family	PT
Area of application	Railway industry
	Machine building
	Plant engineering
	Process industry
Number of positions	2
Number of connections	4
Number of rows	2
Potentials	2
Insulation characteristics	
Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	1.02 W

#### Connection data

Number of connections per level	2
Nominal cross section	4 mm²

#### 1st and 2nd level

10 mm 12 mm
A4
IEC 60947-7-1
0.2 mm² 6 mm²
24 10 (converted acc. to IEC)
0.2 mm² 6 mm²
24 10 (converted acc. to IEC)
0.25 mm² 4 mm²
0.25 mm² 4 mm²
0.5 mm² 1 mm²
28 A (with 4 mm² conductor cross section)
32 A (with 6 mm² conductor cross section, rigid)
500 V
4 mm²

#### 1st and 2nd level Connection cross sections directly pluggable

Conductor cross section rigid	0.5 mm² 6 mm²
3 ·	



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Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm² 4 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm² 4 mm²

#### Ex data

Rated data (A	TEX/IECEx)
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Identification	ⓑ II 2 G Ex eb IIC Gb
Operating temperature range (1)	-60 °C 85 °C
Operating temperature range (2)	-40 °C 110 °C
Ex-certified accessories	3030462 D-STTB 4
	3030747 ATP-STTB 4
	1204517 SZF 1-0,6X3,5
	3022276 CLIPFIX 35-5
	3022218 CLIPFIX 35
List of bridges	Plug-in bridge / FBS 2-6 / 3030336
	Plug-in bridge / FBS 3-6 / 3030242
	Plug-in bridge / FBS 4-6 / 3030255
	Plug-in bridge / FBS 5-6 / 3030349
	Plug-in bridge / FBS 10-6 / 3030271
	Plug-in bridge / FBS 20-6 / 3030365
Bridge data	23 A / 4 mm²
Ex temperature increase	40 K (23 A / 4 mm²)
for bridging with bridge	440 V
- At bridging between non-adjacent terminal blocks	352 V
- At bridging between non-adjacent terminal blocks via PE terminal block	352 V
- At cut-to-length bridging	220 V
- At cut-to-length bridging with cover	352 V
- At cut-to-length bridging with partition plate	440 V
Rated insulation voltage	400 V
output	(Permanent)

#### Ex level General

Rated voltage	440 V
Rated current	23 A (4 mm²)
Maximum load current	27 A (6 mm²)

#### Ex connection data General

Nominal cross section	4 mm²
Rated cross section AWG	12
Connection capacity rigid	0.2 mm² 6 mm²
Connection capacity AWG	24 10
Connection capacity flexible	0.2 mm² 4 mm²
Connection capacity AWG	24 12
output	(Permanent)



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#### Ex level Level 1

Contact resistance	0.67 mΩ
output	(Permanent)
Ex level Level 2	
Contact resistance	0.49 mΩ

#### Dimensions

Width	6.2 mm
End cover width	2.2 mm
Height	83.5 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
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

#### Electrical tests

#### Surge voltage test

Result	Test passed
Short-time withstand current 4 mm²	0.48 kA
Result	Test passed
Power-frequency withstand voltage	

Towar negatives manager		
Test voltage setpoint	1.89 kV	
Result	Test passed	

#### Mechanical properties

#### Mechanical data



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	Yes
chanical tests	
Mechanical strength	
Result	Test passed
Attachment on the carrier	
DIN rail/fixing support	NS 35
Result	Test passed
est for conductor damage and slackening	
Rotation speed	10 rpm
Revolutions	135
Conductor cross section/weight	0.2 mm² / 0.2 kg
	4 mm² / 0.9 kg
	6 mm² / 1.4 kg
Result	Test passed
Aging Temperature cycles	192
	192
	Ttd
Result	Test passed
Result  Needle-flame test	i est passed
	Test passed 30 s
leedle-flame test	
leedle-flame test Time of exposure	30 s
leedle-flame test Time of exposure Result	30 s
Needle-flame test  Time of exposure  Result  Descillation/broadband noise	30 s Test passed
Needle-flame test  Time of exposure  Result  Descillation/broadband noise  Specification	30 s Test passed  DIN EN 50155 (VDE 0115-200):2008-03
Needle-flame test Time of exposure Result Dscillation/broadband noise Specification Spectrum	30 s Test passed  DIN EN 50155 (VDE 0115-200):2008-03 Long life test category 2, bogie-mounted
Reedle-flame test Time of exposure Result Descillation/broadband noise Specification Spectrum Frequency	30 s Test passed  DIN EN 50155 (VDE 0115-200):2008-03 Long life test category 2, bogie-mounted $f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$
Time of exposure Result  Discillation/broadband noise Specification Spectrum Frequency ASD level	30 s Test passed  DIN EN 50155 (VDE 0115-200):2008-03 Long life test category 2, bogie-mounted $f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ $6.12 \text{ (m/s}^2)^2/\text{Hz}$
Reedle-flame test Time of exposure Result Descillation/broadband noise Specification Spectrum Frequency ASD level Acceleration	30 s Test passed  DIN EN 50155 (VDE 0115-200):2008-03 Long life test category 2, bogie-mounted $f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ $6.12 \text{ (m/s}^2)^2/\text{Hz}$ $3.12g$
Time of exposure Result  Discillation/broadband noise Specification Spectrum Frequency ASD level Acceleration Test duration per axis	$30 \text{ s}$ $Test \text{ passed}$ $DIN \text{ EN } 50155 \text{ (VDE } 0115\text{-}200)\text{:}2008\text{-}03$ $Long \text{ life test category 2, bogie-mounted}$ $f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ $6.12 \text{ (m/s}^2)^2/\text{Hz}$ $3.12g$ $5 \text{ h}$
Time of exposure Result  Descillation/broadband noise Specification Spectrum Frequency ASD level Acceleration Test duration per axis Test directions	30 s Test passed  DIN EN 50155 (VDE 0115-200):2008-03 Long life test category 2, bogie-mounted $f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ $6.12 \text{ (m/s}^2)^2/\text{Hz}$ $3.12g$ $5 \text{ h}$ X-, Y- and Z-axis
Time of exposure Result  Descillation/broadband noise Specification Spectrum Frequency ASD level Acceleration Test duration per axis Test directions Result	30 s Test passed  DIN EN 50155 (VDE 0115-200):2008-03 Long life test category 2, bogie-mounted $f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ $6.12 \text{ (m/s}^2)^2/\text{Hz}$ $3.12g$ $5 \text{ h}$ X-, Y- and Z-axis
Time of exposure Result  Discillation/broadband noise Specification Spectrum Frequency ASD level Acceleration Test duration per axis Test directions Result	$30 \text{ s}$ $Test \text{ passed}$ $DIN \text{ EN } 50155 \text{ (VDE } 0115\text{-}200)\text{:}2008\text{-}03$ $Long \text{ life test } category 2, \text{ bogie-mounted}$ $f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ $6.12 \text{ (m/s}^2)^2/\text{Hz}$ $3.12g$ $5 \text{ h}$ $X\text{-, Y- and Z-axis}$ $Test \text{ passed}$
Time of exposure Result  Descillation/broadband noise Specification Spectrum Frequency ASD level Acceleration Test duration per axis Test directions Result  Shocks Pulse shape	$30 \text{ s}$ $Test \text{ passed}$ $DIN \text{ EN } 50155 \text{ (VDE } 0115\text{-}200)\text{:}2008\text{-}03$ $Long \text{ life test category 2, bogie-mounted}$ $f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$ $6.12 \text{ (m/s}^2)^2\text{/Hz}$ $3.12g$ $5 \text{ h}$ $X-, Y- \text{ and } Z\text{-axis}$ $Test \text{ passed}$ $Semi-sinusoidal$
Time of exposure Result  Descillation/broadband noise Specification Spectrum Frequency ASD level Acceleration Test duration per axis Test directions Result  Shocks Pulse shape Acceleration	30 s Test passed  DIN EN 50155 (VDE 0115-200):2008-03 Long life test category 2, bogie-mounted f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 250 Hz 6.12 (m/s²)²/Hz 3.12g 5 h X-, Y- and Z-axis Test passed  Semi-sinusoidal 30g
Time of exposure Result  Descillation/broadband noise Specification Spectrum Frequency ASD level Acceleration Test duration per axis Test directions Result  Shocks Pulse shape Acceleration Shock duration	30 s Test passed  DIN EN 50155 (VDE 0115-200):2008-03  Long life test category 2, bogie-mounted  f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 250 Hz  6.12 (m/s²)²/Hz  3.12g  5 h  X-, Y- and Z-axis  Test passed  Semi-sinusoidal  30g  18 ms



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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 %
Standards and regulations	
Connection in acc. with standard	IEC 60947-7-1
Mounting	
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/au/products/3211786

CSA Approval ID: 2030668				
	Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Use group B				
	300 V	30 A	24 - 10	-
Use group C				
	300 V	30 A	24 - 10	-
Use group D				
	600 V	5 A	24 - 10	-

CB scheme	IECEE CB Scheme Approval ID: DE1-65853				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		500 V	28 A	-	0.2 - 4

. <b>91</b> 2 us	cULus Recognized
C 7742 US	Approval ID: E60425



ClassNK	NK
C1072141/	Approval ID: 22ME0007



<b>▲</b> B	BV
	Approval ID: 39980/B0 BV

VDE report with production monitoring Approval ID: 40036696					
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		500 V	28 A	-	0.2 - 4



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**PRS** 

Approval ID: TE/2107/880590/21

**ABS** 

Approval ID: 21-2192245-PDA

DNV

Approval ID: TAE000010T



cULus Recognized

Approval ID: E60425



**EAC Ex** 

Approval ID: KZ 7500525010101950

HEC	IEĈEx

**IECEx** 

Approval ID: IECEx	Approval ID: IECExPTB10.0046U			
	Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Only flexible conductors	440 V	23 A	-	0.2 - 4
Only rigid conductors	440 V	27 A	-	0.2 - 6

ATEX Approval ID: PTB09ATE	ATEX Approval ID: PTB09ATEX1112U				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>	
Only flexible conductors	440 V	23 A	-	0.2 - 4	
Only rigid conductors	440 V	27 A	-	0.2 - 6	



CCC

Approval ID: 2020322313000631



**UKCA-EX** 

Approval ID: CSAE 22UKEX1100U



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## Classifications

UNSPSC 21.0

	ECLASS-13.0	27250102
ETIM		
	ETIM 9.0	EC000897
UNSPSC		

39121400



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### Environmental product compliance

#### EU RoHS

Le rene		
Fulfills EU RoHS substance requirements	Yes, No exemptions	
China RoHS		
Environment friendly use period (EFUP)	EFUP-E	
	No hazardous substances above the limits	
EU REACH SVHC		
REACH candidate substance (CAS No.)	No substance above 0.1 wt%	

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