

3211793

https://www.phoenixcontact.com/au/products/3211793

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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: blue

### 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/>
- 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	3211793
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE2214
Product key	BE2214
Catalog page	Page 99 (C-1-2019)
GTIN	4046356482714
Weight per piece (including packing)	16.37 g
Weight per piece (excluding packing)	15.2 g
Customs tariff number	85369010
Country of origin	CN

Conductor cross-section flexible (ferrule without plastic sleeve)



https://www.phoenixcontact.com/au/products/3211793

## Technical data

Product properties

Product properties	Multi-level terminal block
Product type Product family	PT
Area of application	Railway industry
	Machine building
	Plant engineering
N	Process industry
Number of connections	4
Number of rows	2
Potentials	2
nsulation characteristics	
Overvoltage category	III
Degree of pollution	3
ctrical properties	
Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	1.02 W
nnection data	
Number of connections per level	2
Nominal cross section	4 mm²
st and 2nd level	
Stripping length	10 mm 12 mm
Internal cylindrical gage	A4
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.2 mm² 6 mm²
Cross section AWG	24 10 (converted acc. to IEC)
Conductor cross section flexible	0.2 mm <sup>2</sup> 6 mm <sup>2</sup>
Conductor cross section flexible Conductor cross section, flexible [AWG]	0.2 mm <sup>2</sup> 6 mm <sup>2</sup> 24 10 (converted acc. to IEC)
Conductor cross section, flexible [AWG]	24 10 (converted acc. to IEC)
Conductor cross section, flexible [AWG] Conductor cross-section flexible (ferrule without plastic sleeve)	24 10 (converted acc. to IEC) 0.25 mm <sup>2</sup> 4 mm <sup>2</sup>
Conductor cross section, flexible [AWG] Conductor cross-section flexible (ferrule without plastic sleeve) Flexible conductor cross section (ferrule with plastic sleeve) 2 conductors with the same cross section, flexible, with TWIN	24 10 (converted acc. to IEC) 0.25 mm <sup>2</sup> 4 mm <sup>2</sup> 0.25 mm <sup>2</sup> 4 mm <sup>2</sup>
Conductor cross section, flexible [AWG] Conductor cross-section flexible (ferrule without plastic sleeve) Flexible conductor cross section (ferrule with plastic sleeve) 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	24 10 (converted acc. to IEC) 0.25 mm <sup>2</sup> 4 mm <sup>2</sup> 0.25 mm <sup>2</sup> 4 mm <sup>2</sup> 0.5 mm <sup>2</sup> 1 mm <sup>2</sup>
Conductor cross section, flexible [AWG]         Conductor cross-section flexible (ferrule without plastic sleeve)         Flexible conductor cross section (ferrule with plastic sleeve)         2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve         Nominal current	24 10 (converted acc. to IEC) 0.25 mm <sup>2</sup> 4 mm <sup>2</sup> 0.25 mm <sup>2</sup> 4 mm <sup>2</sup> 0.5 mm <sup>2</sup> 1 mm <sup>2</sup> 28 A (with 4 mm <sup>2</sup> conductor cross section)

0.5 mm<sup>2</sup> ... 4 mm<sup>2</sup>

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#### 3211793

https://www.phoenixcontact.com/au/products/3211793

Flexible conductor cross section (ferrule with plastic sleeve)

0.5 mm<sup>2</sup> ... 4 mm<sup>2</sup>

### Ex data

Rated data (ATEX/IECEx)

Rated data (ATEX/IECEx)	
Identification	ll 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
<ul> <li>At bridging between non-adjacent terminal blocks via PE terminal block</li> </ul>	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 mm <sup>2</sup>
Rated cross section AWG	12
Connection capacity rigid	0.2 mm <sup>2</sup> 6 mm <sup>2</sup>
Connection capacity AWG	24 10
Connection capacity flexible	0.2 mm <sup>2</sup> 4 mm <sup>2</sup>
Connection capacity AWG	24 12
output	(Permanent)

Ex level Level 1



#### 3211793

https://www.phoenixcontact.com/au/products/3211793

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	blue (RAL 5015)
Flammability rating according to UL 94	V0
Insulating material group	1
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 mm <sup>2</sup>	0.48 kA	
Short-time withstand current 6 mm <sup>2</sup>	0.72 kA	
Result	Test passed	
Power-frequency withstand voltage		
Test voltage setpoint	1.89 kV	

### Mechanical properties

### Mechanical data

Open side panel	Yes
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### 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
Conductor cross section/weight	0.2 mm² / 0.2 kg
	4 mm² / 0.9 kg
	6 mm² / 1.4 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	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$
ASD level	6.12 (m/s²)²/Hz
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed
Shocks	
Specification	DIN EN 50155 (VDE 0115-200):2008-03
Pulse shape	Semi-sinusoidal
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



#### 3211793

https://www.phoenixcontact.com/au/products/3211793

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 %
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Mounting type	NS 35/7,5
	NS 35/15



3211793

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Drawings

Circuit diagram







3211793

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### Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/au/products/3211793

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	-



#### 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



**cULus Recognized** Approval ID: E60425



ClassNK

NK Approval ID: 22ME0007



CULus Recognized Approval ID: E60425



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



#### 3211793

https://www.phoenixcontact.com/au/products/3211793

Approval ID: TE/2107/880	)590/21			
ABS Approval ID: 21-2192245-PDA	A			
DNV Approval ID: TAE000010T				
Approval ID: E60425	zed			
ازر الدروم IECEx Approval ID: IECEx	PTB10.0046U			
	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
ATEX Approval ID: PTB09ATE	X1112U			
	Nominal voltage U <sub>N</sub>	Nominal current $I_N$	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: 202032231	3000631			

3211793

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## Classifications

### ECLASS

	ECLASS-13.0	27250102
E	ГIМ	
	ETIM 9.0	EC000897
U	NSPSC	
	UNSPSC 21.0	39121400

3211793

https://www.phoenixcontact.com/au/products/3211793

### Environmental product compliance

#### EU RoHS

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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