

3036466

https://www.phoenixcontact.com/us/products/3036466

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Feed-through terminal block, nom. voltage: 1000 V, nominal current: 41 A, number of connections: 3, connection method: Spring-cage connection, Rated cross section: 6 mm 2 , cross section: 0.2 mm 2 - 10 mm 2 , mounting type: NS 35/7,5, NS 35/15, color: gray

Your advantages

- · The consistent double function shaft offers every opportunity for time-saving potential distribution and accommodating test accessories
- · User-friendly implementation of all potential branching tasks
- · Tested for railway applications
- · Space-saving and practical multi-conductor connection without additional bridges

Commercial data

Item number	3036466
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE02
Product key	BE2112
GTIN	4017918884659
Weight per piece (including packing)	22.6 g
Weight per piece (excluding packing)	22.4 g
Customs tariff number	85369010
Country of origin	PL



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Technical data

Product properties

Product type	Multi-conductor terminal block	
Product family	ST	
Area of application	Railway industry	
	Machine building	
	Plant engineering	
	Process industry	
Number of connections	3	
Number of rows	1	
Potentials	1	
Insulation characteristics		
Overvoltage category	III	
Degree of pollution	3	

Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	1.31 W

Connection data

Number of connections per level	3
Nominal cross section	6 mm²
Connection method	Spring-cage connection
Stripping length	12 mm
Internal cylindrical gage	A5
Connection in acc. with standard	IEC 60947-7-1
Conductor cross-section rigid	0.2 mm ² 10 mm ²
Cross section AWG	24 8 (converted acc. to IEC)
Conductor cross-section flexible	0.2 mm ² 6 mm ²
Conductor cross-section, flexible [AWG]	24 10 (converted acc. to IEC)
Conductor cross-section flexible ultrasound-compressed	0.34 mm² 10 mm²
Conductor cross-section, flexible [AWG] ultrasound-compressed	22 8 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm² 6 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.25 mm² 6 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² 1.5 mm ²
Nominal current	41 A
Maximum load current	52 A (in case of a 10 mm² conductor cross-section, the maximum load current must not be exceeded by the total current of all connected conductors.)
Nominal voltage	1000 V
Nominal cross section	6 mm²



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Ex data

Rated	data	/ΔΤ	EX/	IFCFx

Identification	
Operating temperature range	-60 °C 85 °C
Ex-certified accessories	3036767 D-ST 6-TWIN
	3030789 ATP-ST-TWIN
	1204520 SZF 2-0,8X4,0
	3022276 CLIPFIX 35-5
	3022218 CLIPFIX 35
List of bridges	Plug-in bridge / FBS 2-8 / 3030284
	Plug-in bridge / FBS 3-8 / 3030297
	Plug-in bridge / FBS 4-8 / 3030307
	Plug-in bridge / FBS 5-8 / 3030310
	Plug-in bridge / FBS 10-8 / 3030323
Bridge data	35 A (6 mm²)
Ex temperature increase	40 K (39.9 A/6 mm²)
for bridging with bridge	550 V
- At bridging between non-adjacent terminal blocks	440 V
- At cut-to-length bridging with cover	220 V
- At cut-to-length bridging with partition plate	275 V
Rated insulation voltage	500 V
output	(Permanent)

Ex level General

Rated voltage	550 V
Rated current	36 A
Maximum load current	46 A
Contact resistance	0.68 mΩ

Ex connection data General

Nominal cross section	6 mm²
Rated cross section AWG	10
Connection capacity rigid	0.2 mm² 10 mm²
Connection capacity AWG	24 8
Connection capacity flexible	0.2 mm² 6 mm²
Connection capacity AWG	24 10

Dimensions

Width	8.2 mm
End cover width	2.2 mm
Height	90.5 mm
Depth on NS 35/7,5	43.5 mm
Depth on NS 35/15	51 mm



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Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0
Insulating material group	1
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	9.8 kV
Result	Test passed

Temperature-rise test

Result Test passed Short-time withstand current 6 mm² 0.72 kA Short-time withstand current 10 mm² 1.2 kA	Requirement temperature-rise test	Increase in temperature ≤ 45 K
	Result	Test passed
Short-time withstand current 10 mm² 1.2 kA	Short-time withstand current 6 mm²	0.72 kA
	Short-time withstand current 10 mm²	1.2 kA
Result Test passed	Result	Test passed

Power-frequency withstand voltage

Test voltage setpoint	2.2 kV
Result	Test passed

Mechanical properties

Mac	han	ical	data
IVIEC	IIaII	ICai	uala

Open side panel	Yes
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Mechanical tests

Mechanical strength

Result	Test passed
Attachment on the carrier	
DIN rail/fixing support	NS 35
Test force setpoint	5 N
Result	Test passed



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Rotation speed	10 rpm
Revolutions	135
Conductor cross-section/weight	0.2 mm² / 0.2 kg
	6 mm² / 1.4 kg
	10 mm² / 2 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	11.83 (m/s²)²/Hz
Acceleration	4.25g
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 %



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Standards and regulations

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Connection in acc. with standard	IEC 60947-7-1
Mounting	
Mounting type	NS 35/7,5
	NS 35/15



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Drawings

Circuit diagram





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/3036466

	SA oproval ID: 13631				
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
В					
		600 V	50 A	24 - 8	-
С					
		600 V	50 A	24 - 8	-

	IECEE CB Scheme
scheme	Approval ID: DE1-62810

	VDE Zeichengenel Approval ID: 40009035	hmigung			
		Nominal voltage \mathbf{U}_{N}	Nominal current I _N	Cross section AWG	Cross section mm ²
keine					
		1000 V	41 A	-	0.5 - 6

c 91 0s	cULus Recogniz Approval ID: E60425	ed			
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
В					
		600 V	50 A	24 - 8	-
С					
		600 V	50 A	24 - 8	-
F					
		1000 V	50 A	24 - 8	-

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₹	ATEX
€	Approval ID: KEMA00ATEX2129U

[(IEĈEx	IECEx
Table 1	Approval ID: IECEx KEM 06.0050U





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EAC Ex

Approval ID: KZ 7500525010101950



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Classifications

ECLASS

	ECLASS-13.0	27250101	
	ECLASS-15.0	27250101	
ΕΊ	ТІМ		
	ETIM 9.0	EC000897	
UNSPSC			
	UNSPSC 21.0	39121400	



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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%
EF3.0 Climate Change	
CO2e kg	0.142 kg CO2e

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