

https://www.phoenixcontact.com/sg/products/3059870



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Ground terminal, number of connections: 2, connection method: Screw connection, cross section:  $1.5~\text{mm}^2$  -  $6~\text{mm}^2$ , mounting method: PE foot with mounting screw, M4, mounting type: NS 35/7,5, NS 35/15, NS 32, color: green-yellow

## Commercial data

Item number	3059870
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	****
Product key	BEK221
GTIN	4046356643566
Weight per piece (including packing)	26.155 g
Weight per piece (excluding packing)	26.064 g
Customs tariff number	85369010
Country of origin	CN



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# Technical data

## Product properties

Product type	Ground terminal block		
Number of connections	2		
Number of rows	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	2
Nominal cross section	6 mm²
Screw thread	M4
Note	Please observe the current carrying capacity of the DIN rails.
Tightening torque	1.4 1.5 Nm
Stripping length	10 mm
Internal cylindrical gage	A4
Connection in acc. with standard	IEC 60947-7-2
Conductor cross section rigid	1.5 mm² 6 mm²
Cross section AWG	24 10 (converted acc. to IEC)
Conductor cross section flexible	1.5 mm² 6 mm²
Conductor cross section, flexible [AWG]	24 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	1.5 mm² 6 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	1.5 mm² 6 mm²

#### **Dimensions**

Width	8.2 mm
End cover width	1.8 mm
Height	42.5 mm
Depth on NS 32	52 mm
Depth on NS 35/7,5	47 mm
Depth on NS 35/15	54.5 mm

# Material specifications

Color	green-yellow
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA



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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

# Mechanical properties

## General

Terminal block mounting	1.5 Nm 1.8 Nm (PE foot with mounting screw, M4)	
, on mar around mounting		
Mechanical data		
Open side panel	No	

## Environmental and real-life conditions

#### Oscillation/broadband noise

Specification	EN 50155:2021
Spectrum	Service 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

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

	Connection in acc. with standard	IEC 60947-7-2	
Мс	Mounting		
	Mounting type	NS 35/7,5	
		NS 35/15	
		NS 32	
	Terminal block mounting	1.5 Nm 1.8 Nm (PE foot with mounting screw, M4)	

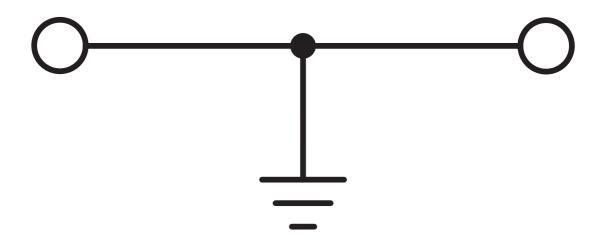


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# Drawings

## Circuit diagram





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# **Approvals**

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CULus Recognized Approval ID: E60425				
	Nominal voltage $\mathbf{U}_{\mathbf{N}}$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Use group B				
	-	-	16 - 8	-
Use group C				
	-	-	16 - 8	-
Use group D				
	-	-	16 - 8	-



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# Classifications

UNSPSC 21.0

#### **ECLASS**

	ECLASS-11.0	27141141		
	ECLASS-13.0	27250103		
ETIM				
	ETIM 9.0	EC000901		
UN	ISPSC			

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# Environmental product compliance

#### EU RoHS

20 1010			
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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