

3057681

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Feed-through terminal block, nom. voltage: 800 V, nominal current: 41 A, number of connections: 2, connection method: Screw connection, Rated cross section: 6 mm 2 , cross section: 1.5 mm 2 - 6 mm 2 , mounting type: NS 35/7,5, NS 35/15, NS 32, color: blue

Commercial data

Item number	3057681
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	****
Product key	BEK211
GTIN	4046356648240
Weight per piece (including packing)	11.62 g
Weight per piece (excluding packing)	12.049 g
Customs tariff number	85369010
Country of origin	CN



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Technical data

Product properties

Product type	Feed-through terminal block
Number of connections	2
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	2
Nominal cross section	6 mm²
Rated cross section AWG	8
Screw thread	M4
Tightening torque	1.4 1.5 Nm
Stripping length	10 mm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	1.5 mm² 6 mm²
Cross section AWG	14 10 (converted acc. to IEC)
Conductor cross section flexible	1.5 mm² 6 mm²
Conductor cross section, flexible [AWG]	14 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
Cross-section with insertion bridge, rigid	1 mm² 4 mm²
Cross-section with insertion bridge, flexible	1 mm² 4 mm²
2 conductors with same cross section, solid	1 mm² 4 mm²
2 conductors with the same cross-section AWG rigid	16 10 (converted acc. to IEC)
2 conductors with same cross section, flexible	1 mm² 4 mm²
2 conductors with the same cross-section AWG flexible	16 10 (converted acc. to IEC)
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	1 mm² 2.5 mm²
Nominal current	41 A
Maximum load current	41 A (with 6 mm² conductor connection)
Nominal voltage	800 V
Nominal cross section	6 mm²

Dimensions



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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	blue (RAL 5015)
Flammability rating according to UL 94	V0
Insulating material group	I

Electrical tests

Surge voltage test

Insulating material

Test voltage setpoint	9.8 kV	
Result	Test passed	
Temperature-rise test		
Requirement temperature-rise test	Increase in temperature ≤ 45 K	
Result	Test passed	
Short-time withstand current 6 mm²	0.72 kA	
Result	Test passed	

РΑ

Power-frequency withstand voltage

Test voltage setpoint	2 kV
Result	Test passed

Mechanical properties

Open side panel	Yes

Mechanical tests

Mechanical strength

Revolutions

Conductor cross section/weight

Result	Test passed
Attachment on the carrier	
· masimising six and same.	
DIN rail/fixing support	NS 32/NS 35
Test force setpoint	5 N
Result	Test passed
Test for conductor damage and slackening	
Rotation speed	10 rpm

135

1.5 mm² / 0.4 kg



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Result	6 mm² / 1.4 kg Test passed
Leguit	Test passeu
ironmental and real-life conditions	
eedle-flame test	
Time of exposure	30 s
Result	Test passed
scillation/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
hocks	
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
mbient conditions	
Ambient temperature (operation)	-60 °C 110 °C (Operating temperature range incl. self-heating
, and one composition (operation)	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 %
ndards and regulations	
·	IEO 00047 7 4
Connection in acc. with standard	IEC 60947-7-1
unting	
Mounting type	NS 35/7,5
	NS 35/15
	NS 32

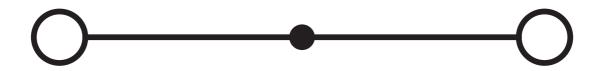


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Drawings

Circuit diagram





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/sg/products/3057681

cULus Recogni Approval ID: E60425	zed			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	600 V	50 A	16 - 8	-
Use group C				
	600 V	50 A	16 - 8	-



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Classifications

ECLASS

	ECLASS-11.0	27141120	
	ECLASS-13.0	27250101	
ETIM			
	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%		

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