

3003305

https://www.phoenixcontact.com/us/products/3003305

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Feed-through terminal block, nom. voltage: 800 V, nominal current: 41 A, number of connections: 2, number of positions: 1, connection method: Screw connection, Rated cross section: $6~\text{mm}^2$, cross section: $0.2~\text{mm}^2$ - $10~\text{mm}^2$, mounting type: NS 35/7,5, NS 35/15, color: orange

Commercial data

Item number	3003305
Packing unit	1 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	BE12
Product key	BE1211
GTIN	4017918240417
Weight per piece (including packing)	14.01 g
Weight per piece (excluding packing)	13.184 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 positions	1
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

Level 1 above 1 below 1

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Screw thread	M4
Tightening torque	1.5 1.8 Nm
Stripping length	10 mm
Internal cylindrical gage	A5
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.2 mm² 10 mm²
Cross section AWG	24 8 (converted acc. to IEC)
Conductor cross section flexible	0.2 mm² 6 mm²
Conductor cross section, flexible [AWG]	24 10 (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
Cross-section with insertion bridge, rigid	4 mm²
Cross-section with insertion bridge, flexible	4 mm²
2 conductors with same cross section, solid	0.2 mm² 2.5 mm²
2 conductors with same cross section, flexible	0.2 mm² 2.5 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm² 1.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 4 mm²
Nominal current	41 A
Maximum load current	57 A (with 10 mm² conductor cross section)
Nominal voltage	800 V
Nominal cross section	6 mm²



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Dimensions

Width	8.2 mm
End cover width	1.8 mm

Material specifications

Color	orange (RAL 2003)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA

Electrical tests

Surge voltage test

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

Mechanical properties

Mechanical data

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Open side panel	Yes

Mechanical tests

Mechanical strength

Result	rest passed
Attachment on the carrier	
DIN rail/fixing support	NS 32/NS 35
Test force setpoint	5 N
Result	Test passed

Environmental and real-life conditions

Ambient temperature (assembly)

Needle-flame test

Time of exposure	30 s
Result	Test passed
Ambient conditions	
Ambient temperature (storage/transport)	-25 °C 60 °C (for a short time, not exceeding 24 h, -60 °C to

-5 °C ... 70 °C



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Ambient temperature (actuation)	-5 °C 70 °C
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

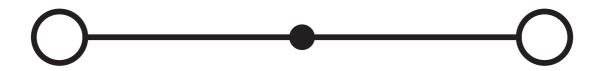


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Drawings

Circuit diagram





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Classifications

ETIM

	ETIM 8.0	EC000897	
UNSPSC			
	LINSPSC 21 0	39121400	



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Environmental product compliance

EU RoHS

20 1.01.0		
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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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com