

3003305

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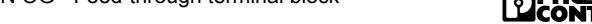
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Feed-through terminal block, nom. voltage: 800 V, nominal current: 41 A, number of connections: 2, number of positions: 1, connection method: Screw connection, Rated cross section: $6~\text{mm}^2$, cross section: $0.2~\text{mm}^2$ - $10~\text{mm}^2$, 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

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Pr

Product properties	
Product type	Feed-through terminal block
Number of positions	1
Number of connections	2
Number of rows	1
Data management status	
Article revision	12
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	
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)



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Nominal voltage	800 V
Nominal cross section	6 mm²

Ex data

Rated data (ATEX/IECEx)

Identification	
Operating temperature range	-60 °C 110 °C
Ex-certified accessories	3003020 D-UK 4/10
	3006027 D-UK 16
	3003224 ATP-UK
	1205066 SZS 1,0X4,0 VDE
	1201442 E/UK
List of bridges	Fixed bridge / FB 2- 8-EX / 3029224
	Fixed bridge / FB 10- 8-EX / 3003185
Bridge data	37.5 A / 6 mm²
List of bridges	Fixed bridge / FBI 10- 8-EX / 0711700
Bridge data	39.5 A / 6 mm²
Ex temperature increase	40 K (47 A / 6 mm²)
Rated voltage	690 V
for bridging with bridge	690 V
Rated insulation voltage	630 V
output	(Permanent)

Ex level General

Rated current	41 A
Maximum load current	51 A
Contact resistance	0.16 mΩ

Ex connection data General

Torque range	1.5 Nm 1.8 Nm
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
2 conductors with same cross section, solid	0.2 mm² 1.5 mm²
2 conductors with the same cross-section AWG rigid	24 16
2 conductors with same cross section, stranded	0.2 mm² 1.5 mm²
2 conductors with the same cross-section AWG flexible	24 16

Dimensions

Width	8.2 mm
End cover width	1.8 mm



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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

Mechanical tests

Mechanical strength

Result	Test 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

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 +70 °C)
Ambient temperature (assembly)	-5 °C 70 °C
Ambient temperature (actuation)	-5 °C 70 °C
Permissible humidity (storage/transport)	30 % 70 %

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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Classifications

	ECLASS-11.0	27141120			
E	ETIM				
	ETIM 8.0	EC000897			
UNSPSC					
	UNSPSC 21.0	39121400			



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Environmental product compliance

EU RoHS

Yes, No exemptions				
China RoHS				
EFUP-E				
No hazardous substances above the limits				
EU REACH SVHC				
No substance above 0.1 wt%				

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