

3033058

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Feed-through terminal block, nom. voltage: 800 V, nominal current: 32 A, connection method: Spring-cage connection, Rated cross section: 4 mm², cross section: 0.08 mm² - 6 mm², connection method: Screw connection, Rated cross section: 4 mm², cross section: 0.14 mm² - 6 mm², mounting: NS 35/7,5, NS 35/15, color: gray

Your advantages

· Compact design

Commercial data

Item number	3033058		
Packing unit	50 pc		
Minimum order quantity	50 pc		
Sales key	BE02		
Product key	BE2119		
GTIN	4046356052597		
Weight per piece (including packing)	13.256 g		
Weight per piece (excluding packing)	12.5 g		
Customs tariff number	85369010		
Country of origin	PL		



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Technical data

Product properties

Product type	Hybrid terminal block
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	1.02 W

Connection data

Number of connections per level	3
Nominal cross section	4 mm²

Level 1 above 1+2

Connection method	Spring-cage connection
Stripping length	8 mm 10 mm
Connection in acc. with standard	IEC 60947-7-1
Conductor cross-section rigid	0.08 mm² 6 mm²
Cross section AWG	26 10 (converted acc. to IEC)
Conductor cross-section flexible	0.08 mm² 4 mm²
Conductor cross-section, flexible [AWG]	28 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm² 4 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.14 mm² 4 mm²
Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve)	0.14 mm² 1 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 1 mm²
Nominal current	32 A
Maximum load current	38 A (The maximum load current must not be exceeded by the total current of all connected conductors.)
Nominal voltage	800 V
Nominal cross section	4 mm²

Level 1 below 1

Connection method	Screw connection	
Screw thread	M3	
Tightening torque	0.6 0.8 Nm	
Connection in acc. with standard	IEC 60947-7-1	
Conductor cross-section rigid	0.14 mm² 6 mm²	



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Cross section AWG	26 10 (converted acc. to IEC)
Conductor cross-section flexible	0.14 mm² 6 mm²
Conductor cross-section, flexible [AWG]	26 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm² 4 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.14 mm² 4 mm²
Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve)	0.5 mm² 4 mm²
2 conductors with same cross section, solid	0.14 mm² 1.5 mm²
2 conductors with same cross section, flexible	0.14 mm² 1.5 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.14 mm² 1.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 1 mm²
Nominal current	32 A
Maximum load current	38 A (with 6 mm² conductor cross-section)
Nominal voltage	800 V
Nominal cross section	4 mm²

Dimensions

Width	6.2 mm
End cover width	2.2 mm
Height	74.4 mm
Depth on NS 35/7,5	42.8 mm
Depth on NS 35/15	50.3 mm

Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °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
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
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



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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 4 mm²	0.48 kA
Short-time withstand current 6 mm²	0.72 kA
Result	Test passed
Power-frequency withstand voltage	
Test voltage setpoint	2 kV
Result	Test passed
lechanical properties	
Mechanical data Open side panel	Yes
Open side parier	165
lechanical tests Mechanical strength	
Result	Test passed
rvesuit	rest passeu
Attachment on the carrier	
DIN rail/fixing support	NS 35
Test force setpoint	1 N
Result	Test passed
Test for conductor damage and slackening	
Rotation speed	10 rpm
Revolutions	135
Conductor cross-section/weight	0.08 mm² / 0.1 kg
	4 mm² / 0.9 kg
	6 mm² / 1.4 kg
Result	Test passed
nvironmental 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
opeomoation	DIN LIN 30 133 (VDL 0113-200).2000-03



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Spectrum	Long 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
nocks	
Specification	DIN EN 50155 (VDE 0115-200):2008-03
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 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	
Connection in acc. with standard	IEC 60947-7-1
	IEC 60947-7-1
unting	
Mounting type	NO 05/7 5
Mounting type	NS 35/7,5



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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/3033058

	CSA Approval ID: 13631				
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
В					
		600 V	30 A	28 - 10	-
С					
		600 V	30 A	28 - 10	-

EAC	EAC
LIIL	Approval ID: RU C-DE.BL08.B.00644

CULus Recognized Approval ID: E60425					
	Nominal voltage \mathbf{U}_{N}	Nominal current I _N	Cross section AWG	Cross section mm ²	
В					
Spring-cage connection	600 V	30 A	28 - 10	-	
Screw connection	600 V	30 A	26 - 10	-	
C					
Spring-cage connection	600 V	30 A	28 - 10	-	
Screw connection	600 V	30 A	26 - 10	-	

EACApproval ID: KZ7500651131219505



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Classifications

	ECLASS-13.0	27250201			
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
Exemption	6(c)
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	bb37a836-e5a8-4660-b3d9-fc25cad57db8

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