

3104013

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Knife-disconnect terminal block, With test socket screws for insertion of test plugs, nom. voltage: 400 V, nominal current: 16 A, connection method: Screw connection, Rated cross section: 2.5 $\rm mm^2$, cross section: 0.2 $\rm mm^2$ - 4 $\rm mm^2$, mounting: NS 35/7,5, NS 35/15, NS 32, color: gray

Your advantages

- · High current carrying capacity of up to 16 A
- · Space-saving design

Commercial data

Item number	3104013
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE1231
Product key	BE1231
GTIN	4017918092689
Weight per piece (including packing)	9.794 g
Weight per piece (excluding packing)	9.708 g
Customs tariff number	85369010
Country of origin	PL



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Technical data

Product properties

Product type	Disconnect 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	6 kV
Maximum power dissipation for nominal condition	0.77 W

Connection data

Number of connections per level	2
Nominal cross section	2.5 mm²
Screw thread	M3
Tightening torque	0.5 0.6 Nm
Stripping length	7 mm
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.2 mm² 4 mm²
Cross section AWG	24 12 (converted acc. to IEC)
Conductor cross section flexible	0.2 mm² 2.5 mm²
Conductor cross section, flexible [AWG]	24 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm² 2.5 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm² 1.5 mm²
Cross-section with insertion bridge, rigid	4 mm²
Cross-section with insertion bridge, flexible	2.5 mm²
2 conductors with same cross section, solid	0.2 mm² 1.5 mm²
2 conductors with same cross section, flexible	0.2 mm² 1.5 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 1.5 mm²
Nominal current	16 A (with 4 mm² conductor cross section)
Maximum load current	16 A (with 4 mm² conductor cross section)
Nominal voltage	400 V (up to 690 V for pollution degree II)
Nominal cross section	2.5 mm²

Dimensions

Width	5.2 mm



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End cover width	1 mm
Height	46 mm
Depth on NS 32	56.5 mm
Depth on NS 35/7,5	51.5 mm
Depth on NS 35/15	59 mm

Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0
Insulating material group	1
Insulating material	PA
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

Electrical tests

Surge voltage test

Test voltage setpoint	7.3 kV
Result	Test passed

Temperature-rise test

Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 1.5 mm²	0.18 kA
Result	Test passed

Power-frequency withstand voltage

Toward Toquetay Militaria Tollago	
Test voltage setpoint	1.89 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	Vac
Open side parier	162

Mechanical tests

Mechanical strength



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DIN rail/fixing support	NS 32/NS 35
Result	Test passed
est for conductor damage and slackening	
Rotation speed	10 (+/- 2) rpm
Revolutions	135
Conductor cross section/weight	0.2 mm² / 0.2 kg
	2.5 mm² / 0.7 kg
	4 mm² / 0.9 kg
Result	Test passed
eedle-flame test	
Time of exposure	30 s
Result	Test passed
scillation/broadband noise	
Specification	DIN EN 50155 (VDE 0115-200):2018-05
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	
Pulse shape	Semi-sinusoidal
Acceleration	5g
Shock duration	30 ms
	3
Number of shocks per direction	<u> </u>
	X-, Y- and Z-axis (pos. and neg.)
Number of shocks per direction	
Number of shocks per direction Test directions Result	X-, Y- and Z-axis (pos. and neg.)
Number of shocks per direction Test directions Result	X-, Y- and Z-axis (pos. and neg.) Test passed
Number of shocks per direction Test directions Result mbient conditions	X-, Y- and Z-axis (pos. and neg.) Test passed -60 °C 110 °C (Operating temperature range incl. self-heating

-5 °C ... 70 °C 20 % ... 90 %

30 % ... 70 %

Standards and regulations

Ambient temperature (actuation)

Permissible humidity (operation)

Permissible humidity (storage/transport)



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Conne	ction in acc. with standard	IEC 60947-7-1
Mounting		
Mounti	Mounting type	NS 35/7,5
		NS 35/15
		NS 32

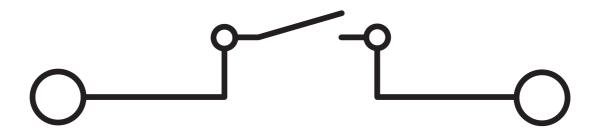


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Drawings

Circuit diagram





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/3104013

•	CSA Approval ID: 13631				
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
		300 V	15 A	28 - 12	-

EACApproval ID: KZ7500651131219505

cULus Recogni Approval ID: E60425	CULus Recognized Approval ID: E60425			
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	250 V	10 A	28 - 12	-
Use group D				
	300 V	10 A	28 - 12	-

DNVApproval ID: TAE00001CT



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Classifications

ECLASS

	ECLASS-13.0	27250108
	ECLASS-15.0	27250108
ΕΊ	TIM	
	ETIM 9.0	EC000902
	E11W 0.0	2000002
۱U	NSPSC	
	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	02756ddb-a69f-4465-b0f7-cbe2fd4f5388

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