

https://www.phoenixcontact.com/us/products/3047125



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Pick-off terminal, nom. voltage: 1000 V, nominal current: 32 A, number of connections: 1, connection method: Screw connection, cross section: $0.14~\text{mm}^2$ - $6~\text{mm}^2$, mounting type: on base element, color: gray

Your advantages

- The fully insulated, optional use pick-off terminal block enables voltage pick-off
- · Large-surface marking
- Pick-off terminal block, for snapping into the lateral guide

Commercial Data

Item number	3047125
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	BE19
Product Key	BE1ZWX
Catalog Page	Page 184 (C-1-2019)
GTIN	4046356055895
Weight per Piece (including packing)	6.013 g
Weight per Piece (excluding packing)	6.013 g
Customs tariff number	85369010
Country of origin	PL



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Technical Data

Notes

General

Note	The max. load current must not be exceeded by the total current
	of all connected conductors.

Product properties

Number of connections1Number of rows1Potentials1	Product type	Pick-off terminal
	Number of connections	1
Potentials 1	Number of rows	1
	Potentials	1

Insulation characteristics

Overvoltage category	Ш

Electrical properties

Rated surge voltage	8 kV
Maximum power dissipation for nominal condition	1.02 W

Connection data

Number of connections per level	1
Nominal cross section	4 mm²
Rated cross section AWG	10
Screw thread	M3
Tightening torque	0.6 0.8 Nm
Stripping length	9 mm
Internal cylindrical gage	A4
Connection in acc. with standard	IEC 60947-7-1
Conductor cross section rigid	0.14 mm² 6 mm²
Cross section AWG	26 10 (converted acc. to IEC)
Conductor cross section flexible	0.14 mm² 4 mm²
Conductor cross section, flexible [AWG]	26 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm² 4 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 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	0.25 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 (with 4 mm² conductor cross section)
Maximum load current	41 A (with 6 mm² conductor cross section)
Nominal voltage	1000 V



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Ex data

Rated data (ATEX/IECEx)

Identification	
Operating temperature range	-60 °C 110 °C
Ex-certified accessories	1204517 SZF 1-0,6X3,5
Ex temperature increase	40 K (36 A / 4 mm²)
Rated voltage	690 V
Rated insulation voltage	630 V
output	(Permanent)

Ex level General

Rated current	32 A
Maximum load current	41 A
Contact resistance	0.43 mΩ

Ex connection data General

Torque range	0.6 Nm 0.8 Nm
Nominal cross section	4 mm²
Rated cross section AWG	12
Connection capacity rigid	0.14 mm² 6 mm²
Connection capacity AWG	26 10
Connection capacity flexible	0.14 mm² 4 mm²
Connection capacity AWG	26 12
2 conductors with same cross section, solid	0.14 mm² 1.5 mm²
2 conductors with the same cross-section AWG rigid	26 16
2 conductors with same cross section, stranded	0.14 mm² 1.5 mm²
2 conductors with the same cross-section AWG flexible	26 16

Dimensions

Width	8.1 mm
Height	39.4 mm
Height NS 35/15	63.2 mm
Height NS 35/7,5	55.7 mm
Depth	24.7 mm
Length	39.4 mm

Material specifications

Color	gray
Flammability rating according to UL 94	V0
Insulating material group	I
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



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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 volta	ae	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	2.2 kV
Result	Test passed

Mechanical properties

Mechanical data

Open side panel	No
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Mechanical tests

Result

Mechanical strength

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

Test passed

Test for conductor damage and slackening

Rotation speed	10 rpm	
Revolutions	135	
Conductor cross section/weight	0.14 mm² / 0.2 kg	
	4 mm² / 0.9 kg	
	6 mm² / 1.4 kg	
Result	Test passed	

Environmental and real-life conditions



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Needle-flame tes	t
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Mounting type

°C 105 °C (max. short-term operating temperature RTI
°C 105 °C (max. short-term operating temperature RTI
3.)
.)
.)
$^{\circ}C$ 60 $^{\circ}C$ (for a short time, not exceeding 24 h, -60 $^{\circ}C$ to $^{\circ}C)$
C 70 °C
C 70 °C
6 70 %
60947-7-1

on base element

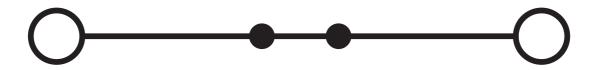


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Drawings

Circuit diagram





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/3047125

cULus Recognized Approval ID: E60425					
	Nominal Voltage $\mathbf{U}_{\mathbf{N}}$	Nominal Current I _N	Cross Section AWG	Cross Section mm ²	
Use group B					
	600 V	30 A	26 - 10	-	
Use group C					
	600 V	30 A	26 - 10	-	

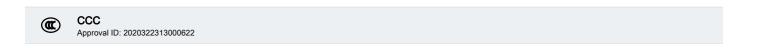
€ x	ATEX
€ -×	Approval ID: KEMA04ATEX2048U

.51	cUL Recognized Approval ID: E192998				
		Nominal Voltage U_N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
Use gr	oup B				
		600 V	30 A	26 - 10	26 - 10
Use gr	oup C				
		600 V	30 A	26 - 10	26 - 10

EH[Ex	EAC Ex
LIILL	Approval ID: RU C-DE.Ax07.B.03227

(IEĈEx	IECEx
Maria (Maria)	Approval ID: IECEx KEM 06.0027U

UL Recognized Approval ID: E192998				
	Nominal Voltage U_N	Nominal Current I _N	Cross Section AWG	Cross Section mm ²
Use group B				
	600 V	30 A	26 - 10	-
Use group C				
	600 V	30 A	26 - 10	-





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Classifications

ECLASS

	ECLASS-11.0	27141151		
	ECLASS-12.0	27141151		
	ECLASS-13.0	27250308		
ETIM				
	ETIM 8.0	EC002021		
UNSPSC				
	UNSPSC 21.0	39121400		



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Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"



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Accessories

SZS 0,6X3,5 VDE - Screwdriver

1212602

https://www.phoenixcontact.com/us/products/1212602



Screwdriver, slot-headed, VDE insulated, size: $0.6 \times 3.5 \times 100$ mm, 2-component grip, with non-slip grip

SZF 1-0,6X3,5 - Screwdriver

1204517

https://www.phoenixcontact.com/us/products/1204517



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: $0.6 \times 3.5 \times 100$ mm, 2-component grip, with non-slip grip



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SF-SL 0,6X3,5-100 - Screwdriver

1212549

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Screwdriver, bladed (lasered), size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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