

ZFKDS 4- 7,5 - PCB terminal block



1907526

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PCB terminal block, nominal current: 32 A, rated voltage (III/2): 630 V, nominal cross section: 4 mm², number of potentials: 1, number of rows: 1, number of positions per row: 1, product range: ZFKDS(A) 4, pitch: 7.5 mm, connection method: Spring-cage connection, mounting: Wave soldering, conductor/PCB connection direction: 45 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 4.6 mm, number of solder pins per potential: 2, type of packaging: packed in cardboard. The article can be aligned to create different nos. of positions!

Your advantages

- Defined contact force ensures that contact remains stable over the long term
- Clamping space opened by means of fixed screwdriver enables convenient conductor connection
- Separate bridge shaft for easily connecting multiple positions to jumpers
- Quick and convenient testing using integrated test option

Commercial data

Item number	1907526
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA14
Product key	AANMAA
Catalog page	Page 477 (C-1-2013)
GTIN	4017918193898
Weight per piece (including packing)	4.695 g
Weight per piece (excluding packing)	4.2 g
Customs tariff number	85369010
Country of origin	PL

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Technical data

Product properties

Product type	Printed circuit board terminal
Product family	ZFKDS(A) 4
Product line	COMBICON Terminals L
Type	PC terminal block can be aligned
Number of positions	1
Pitch	7.5 mm
Number of connections	1
Number of rows	1
Number of potentials	1
Pin layout	Linear pinning
Solder pins per potential	2

Electrical properties

Nominal current I_N	32 A
Nominal voltage U_N	630 V
Degree of pollution	3
Rated voltage (III/3)	500 V
Rated surge voltage (III/3)	6 kV
Rated voltage (III/2)	630 V
Rated surge voltage (III/2)	6 kV
Rated voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV

Connection data

Connection technology

Type	PC terminal block can be aligned
Nominal cross section	4 mm ²

Conductor connection

Connection method	Spring-cage connection
Conductor cross section rigid	0.2 mm ² ... 6 mm ²
Conductor cross section flexible	0.2 mm ² ... 4 mm ²
Conductor cross section AWG	24 ... 10
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm ² ... 4 mm ²
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² ... 4 mm ²
Stripping length	10 mm

Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning

ZFKDS 4- 7,5 - PCB terminal block



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Material specifications

Material data - contact

Note	WEEE/RoHS-compliant, free of whiskers according to IEC 60068-2-82/JEDEC JESD 201
Contact material	Cu alloy
Surface characteristics	Tin-plated
Metal surface terminal point (top layer)	Tin (10 - 16 µm Sn)
Metal surface soldering area (top layer)	Tin (10 - 16 µm Sn)

Material data - housing

Color (Housing)	green (6021)
Insulating material	PA
Insulating material group	I
CTI according to IEC 60112	600
Flammability rating according to UL 94	V0
Glow wire flammability index GWFI according to EN 60695-2-12	850
Glow wire ignition temperature GWIT according to EN 60695-2-13	775
Temperature for the ball pressure test according to EN 60695-10-2	125 °C

Material data – actuating element

Color (Actuating element)	green (6021)
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Dimensions

Dimensional drawing	
Pitch	7.5 mm
Width [w]	31.5 mm
Height [h]	27.6 mm
Length [l]	29 mm
Installed height	23 mm
Solder pin length [P]	4.6 mm
Pin dimensions	1 x 1.4 mm

PCB design

Hole diameter	1.8 mm
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Mechanical tests

Connection test

Specification	IEC 60998-2-2:1991-10
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Result	Test passed
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Test for conductor damage and slackening

Specification	IEC 60998-2-2:1991-10
Result	Test passed

Pull-out test

Specification	IEC 60998-2-2:1991-10
Conductor cross section/conductor type/tractive force setpoint/actual value	0.2 mm ² / solid / > 10 N
	0.2 mm ² / flexible / > 10 N
	6 mm ² / solid / > 80 N
	4 mm ² / flexible / > 60 N

Electrical tests

Temperature-rise test

Specification	IEC 60998-2-1:1990-04
Requirement temperature-rise test	Increase in temperature ≤ 45 K

Insulation resistance

Specification	IEC 60998-2-2:1991-10
Insulation resistance, neighboring positions	10 ⁹ Ω

Air clearances and creepage distances |

Insulating material group	I
Rated insulation voltage (III/3)	500 V
Rated surge voltage (III/3)	6 kV
Rated insulation voltage (III/2)	630 V
Rated surge voltage (III/2)	6 kV
Rated insulation voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV

Environmental and real-life conditions

Vibration test

Specification	IEC 60068-2-6:1995-03
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz ... 60.1 Hz)
Acceleration	5g (60.1 Hz ... 150 Hz)
Test duration per axis	2.5 h

Glow-wire test

Specification	IEC 60998-2-2:1991-10
Temperature	850 °C
Time of exposure	5 s

Ambient conditions

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Ambient temperature (operation)	-40 °C ... 100 °C (Depending on the current carrying capacity/derating curve)
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Relative humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 100 °C

Packaging specifications

Type of packaging	packed in cardboard
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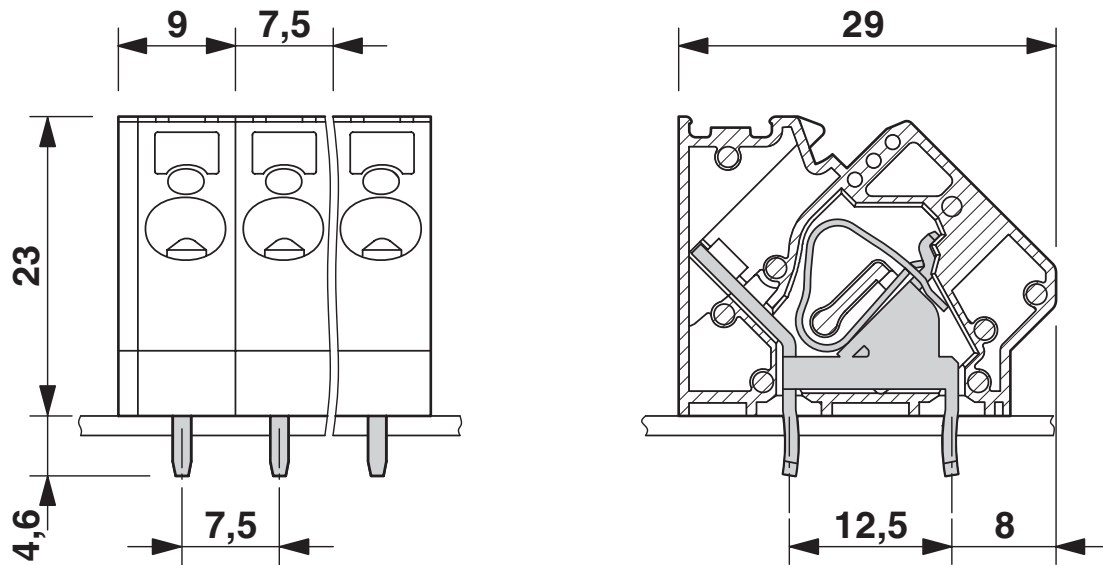
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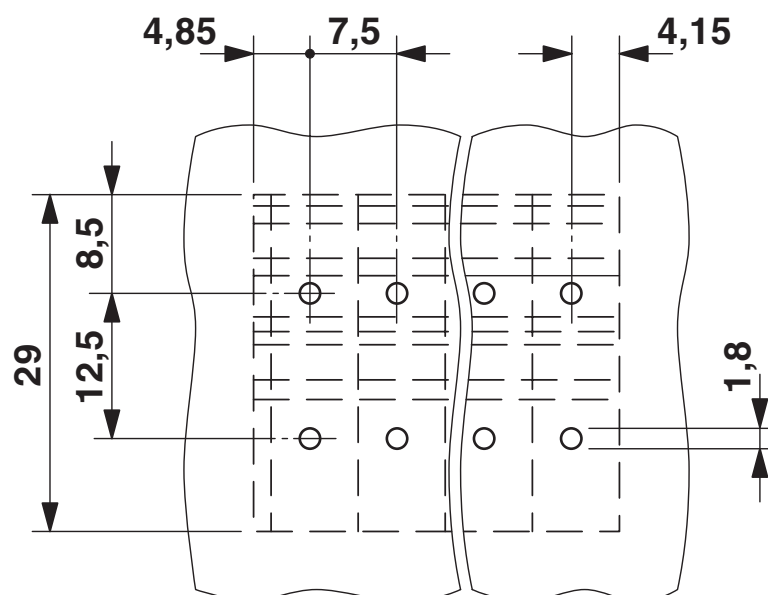


Drawings

Dimensional drawing



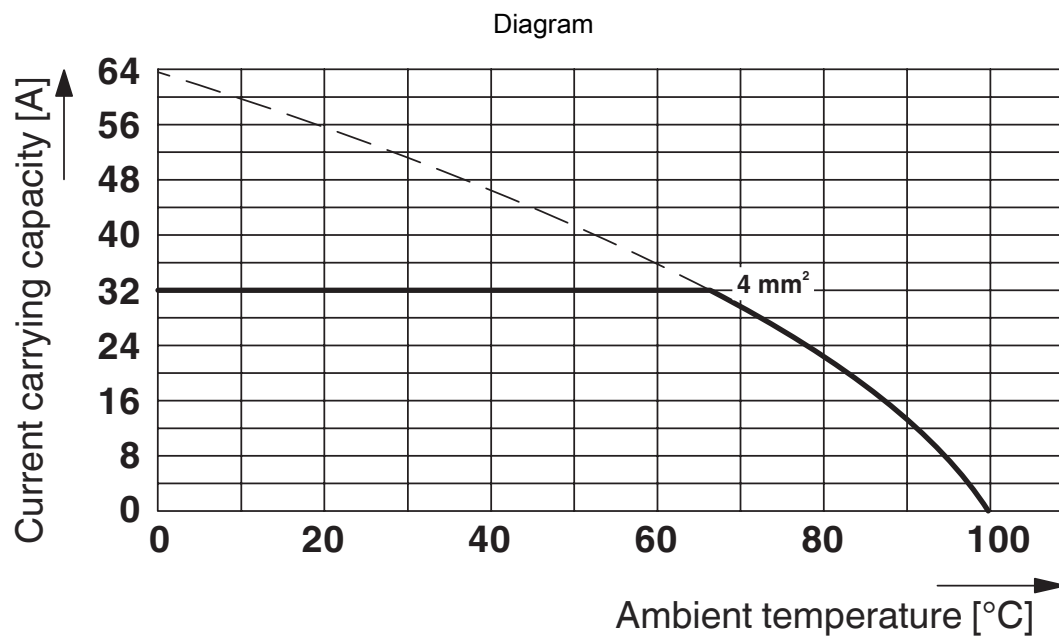
Drilling plan/solder pad geometry



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Type: ZFKDS 4-7,5 and ZFKDSA 4-9

Test following DIN EN 60512-5-2:2003-01

Reduction factor = 1

No. of positions: 5

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1907526>

 cULus Recognized Approval ID: E60425-19941110				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B	300 V	30 A	24 - 10	-
Use group C	150 V	30 A	24 - 10	-
Use group D	300 V	10 A	24 - 10	-

 VDE Gutachten mit Fertigungsüberwachung Approval ID: 40036082				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	500 V	32 A	-	0.2 - 4

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Classifications

ECLASS

ECLASS-11.0	27460101
ECLASS-12.0	27460101
ECLASS-13.0	27460101

ETIM

ETIM 9.0	EC002643
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS	
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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Mandatory accessories

ZFKDSA 4- 9 - PCB terminal block

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End terminal block, 9 mm wide, necessary at the end of a row of terminal blocks

Accessories

FBSK 5-7,5 - Plug-in bridge

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Bridge, fully insulated, pitch 7.5 mm, 5-pos.

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FBSK 4-7,5 - Plug-in bridge

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Bridge, fully insulated, pitch 7.5 mm, 4-pos.

FBSK 10-7,5 - Plug-in bridge

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Bridge, fully insulated, pitch 7.5 mm, 10-pos.

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FBSK 2-7,5 - Plug-in bridge

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Bridge, fully insulated, pitch 7.5 mm, 2-pos.

FBSK 3-7,5 - Plug-in bridge

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Bridge, fully insulated, pitch 7.5 mm, 3-pos.

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ZFKDSA 4- 9 - PCB terminal block

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End terminal block, 9 mm wide, necessary at the end of a row of terminal blocks

RZ-ZFKDS 4 - Pitch spacer

1928521

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Pitch spacer, 2.5 mm wide

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FL-ZFKDS 4 - PCB terminal block

1928495

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Pair of flanges, can be snapped onto a row of single terminal blocks

MPS-MT - Test plug

0201744

<https://www.phoenixcontact.com/us/products/0201744>



Test plug, with solder connection up to 1 mm² conductor cross section, number of positions: 1, color: gray

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SZF 1-0,6X3,5 - Screwdriver

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

SK 7,5/5:FORTL.ZAHLEN - Marker card

0804468

<https://www.phoenixcontact.com/us/products/0804468>



Marker card, white, labeled, horizontal: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: adhesive, for terminal block width: 7.5 mm, lettering field size: 7.5 x 5 mm

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SK U/5,0 WH:UNBEDRUCKT - Marker card

0803922

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Marker card, Din A4, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, Office printing systems, mounting type: adhesive, for terminal block width: 210 mm, lettering field size: 186 x 5 mm, Number of individual labels: 630

B-STIFT - Marker pen

1051993

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Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

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FBSK 2-7,5 - Plug-in bridge

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Bridge, fully insulated, pitch 7.5 mm, 2-pos.

FBSK 3-7,5 - Plug-in bridge

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Bridge, fully insulated, pitch 7.5 mm, 3-pos.

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FBSK 4-7,5 - Plug-in bridge

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Bridge, fully insulated, pitch 7.5 mm, 4-pos.

FBSK 5-7,5 - Plug-in bridge

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Bridge, fully insulated, pitch 7.5 mm, 5-pos.

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FBSK 10-7,5 - Plug-in bridge

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Bridge, fully insulated, pitch 7.5 mm, 10-pos.

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