

https://www.phoenixcontact.com/us/products/1711734



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Printed circuit board terminal, nominal current: 76 A, rated voltage (III/2): 400 V, nominal cross section: 10 mm², number of potentials: 1, number of rows: 1, number of positions per row: 1, product range: ZFKDS(A) 10, pitch: 10 mm, connection method: Spring-cage connection, mounting: Wave soldering, conductor/PCB connection direction: 45 °, color: black, Pin layout: Linear pinning, Solder pin [P]: 6.5 mm, number of solder pins per potential: 4, type of packaging: packed in cardboard

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	1711734
Packing unit	50 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Product key	AANMBA
GTIN	4046356081016
Weight per piece (including packing)	10.7 g
Weight per piece (excluding packing)	10.363 g
Country of origin	PL



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Technical data

Product properties

Product type	Printed circuit board terminal
Product family	ZFKDS(A) 10
Product line	COMBICON Terminals L
Туре	PC terminal block can be aligned
Number of positions	1
Pitch	10 mm
Number of connections	1
Number of rows	1
Number of potentials	1
Pin layout	Linear pinning
Solder pins per potential	4

Electrical properties

Properties

Nominal current I _N	76 A
Nominal voltage U _N	400 V
Rated voltage (III/3)	320 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	400 V
Rated surge voltage (III/2)	4 kV
Rated voltage (II/2)	800 V
Rated surge voltage (II/2)	4 kV

Connection data

Connection technology

Туре	PC terminal block can be aligned
Nominal cross section	10 mm²
Conductor connection	
Connection method	Spring-cage connection

Connection method	Spring-cage connection
Conductor cross-section rigid	0.2 mm² 16 mm²
Conductor cross-section flexible	0.2 mm² 16 mm²
Conductor cross-section AWG	24 6
Conductor cross-section flexible, with ferrule without plastic sleeve	0.25 mm² 10 mm²
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.25 mm² 10 mm²
Stripping length	12 mm

Mounting



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Pin layout	Linear pinning
terial 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	hot-dip 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)	black (9005)
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)	black (9005)
nensions	
Dimensional drawing	
Differsional drawing	h
Pitch	10 mm

PCB design

Width [w]

Height [h]

Length [I]

Installed height

Pin dimensions

Solder pin length [P]

CD design	
Pin spacing	10 mm
Hole diameter	2.2 mm

15 mm

33.5 mm

33.4 mm

27 mm

6.5 mm

1.2 x 1.4 mm

Mechanical tests



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(0)	nne	ectio	n t	est

Specification	IEC 60998-2-2:1991-10
Result	Test passed
est 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 mm² / flexible / > 10 N
	16 mm² / solid / > 100 N
	10 mm² / flexible / > 90 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 |

IEC 60664-1:2007-04
120 00004-1.2007-04
I
CTI 600
320 V
4 kV
3 mm
4 mm
400 V
4 kV
3 mm
3 mm
800 V
4 kV
3 mm
4 mm
3 2 2 3 3 3 3 3

Environmental and real-life conditions

Vibration test

Specification	IEC 60068-2-6:1995-03
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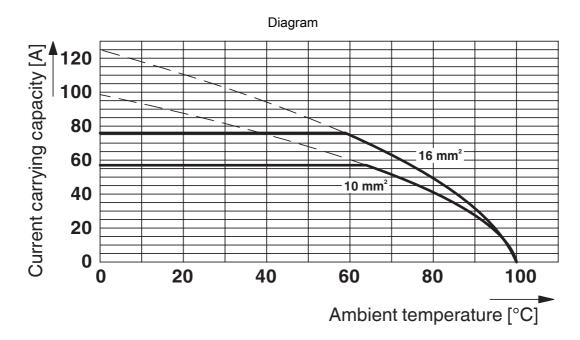
Frequency	10 - 150 - 10 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm (10 Hz 60.1 Hz)
Acceleration	5g (60.1 Hz 150 Hz)
Test duration per axis	2.5 h
Test directions	X-, Y- and Z-axis
Glow-wire test	
Glow-wire test	
Specification	IEC 60998-2-2:1991-10
Temperature	850 °C
Time of exposure	5 s
Ambient conditions	
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 55 °C
ackaging specifications	
Type of packaging	packed in cardboard



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Drawings



Type: ZFKDS 10-10,00



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Approvals

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CULus Recognized Approval ID: E60425-19941111				
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
В				
	300 V	65 A	24 - 6	-
D				
	300 V	10 A	24 - 6	-

△ PDE	VDE report with production monitoring Approval ID: 40036082				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
keine					
		320 V	76 A	-	0.2 - 16



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Classifications

ECLASS

	ECLASS-13.0	27460101		
	ECLASS-15.0	27460101		
	FTIM			
ETIM				
	ETIM 9.0	EC002643		
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%
EF3.0 Climate Change	
CO2e kg	0.192 kg CO2e

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