

https://www.phoenixcontact.com/us/products/1706701



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Printed circuit board terminal, nominal current: 16 A, rated voltage (III/2): 400 V, nominal cross section: 1.5 mm², number of potentials: 1, number of rows: 1, number of positions per row: 1, product range: ZFKDS(A) 1,5, pitch: 5.08 mm, connection method: Spring-cage connection, mounting: Wave soldering, conductor/PCB connection direction: 45 °, color: green, Pin layout: Linear pinning, Solder pin [P]: 3.5 mm, number of solder pins per potential: 2, type of packaging: packed in cardboard. Single module for the custom grouping of different numbers of positions. An end terminal block is also needed to terminate the block (see accessories). Blocked items with different numbers of positions are also available.

#### 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
- · Angled connection enables multi-row arrangement on the PCB
- The latching on the side enables various numbers of positions to be combined
- · Two solder pins reduce the mechanical strain on the soldering spots

#### Commercial data

Item number	1706701
Packing unit	250 pc
Minimum order quantity	250 pc
Sales key	AA12
Product key	AALMBA
Catalog page	Page 44 (CC-2005)
GTIN	4017918144739
Weight per piece (including packing)	1.215 g
Weight per piece (excluding packing)	1.07 g
Customs tariff number	85369010
Country of origin	IN



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#### Technical data

#### Product properties

Product type	Printed circuit board terminal
Product family	ZFKDS(A) 1,5
Product line	COMBICON Terminals S
Туре	PC terminal block can be aligned
Number of positions	1
Pitch	5.08 mm
Number of connections	1
Number of rows	1
Number of potentials	1
Pin layout	Linear pinning
Solder pins per potential	2

### Data management status

Article revision	03

#### Electrical properties

Nominal current I <sub>N</sub>	16 A
Nominal voltage U <sub>N</sub>	400 V
Rated voltage (III/3)	250 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)	630 V
Rated surge voltage (II/2)	4 kV

#### Connection data

#### Connection technology

Туре	PC terminal block can be aligned
Nominal cross section	1.5 mm <sup>2</sup>

Conductor connection	
Connection method	Spring-cage connection
Conductor cross section rigid	0.2 mm² 2.5 mm²
Conductor cross section flexible	0.2 mm² 1.5 mm²
Conductor cross section AWG	24 14
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm <sup>2</sup> 1.5 mm <sup>2</sup>
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 1.5 mm²
Stripping length	7.5 mm

#### Mounting



1706701

https://www.phoenixcontact.com/us/products/1706701

	Wave soldering
Pin layout	Linear pinning
erial specifications	
aterial 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)
aterial data - housing	(200.4)
Color (Housing)	green (6021)
Color (Housing) Insulating material	green (6021) PA
Color (Housing) Insulating material Insulating material group	PA I
Color (Housing) Insulating material	PA
Color (Housing) Insulating material Insulating material group	PA I
Color (Housing) Insulating material Insulating material group CTI according to IEC 60112	PA I 600
Color (Housing) Insulating material Insulating material group CTI according to IEC 60112 Flammability rating according to UL 94	PA I 600 V0

#### Dimensions

Color (Actuating element)

Dimensional drawing	n n
Pitch	5.08 mm
Width [w]	5.08 mm
Height [h]	17.7 mm
Length [I]	16.9 mm
Installed height	14.2 mm
Solder pin length [P]	3.5 mm
Pin dimensions	0.7 x 1 mm
PCB design	
Hole diameter	1.3 mm

green (6021)

#### Electrical tests



1706701

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#### Air clearances and creepage distances |

Insulating material group	I
Rated insulation voltage (III/3)	250 V
Rated surge voltage (III/3)	4 kV
Rated insulation voltage (III/2)	400 V
Rated surge voltage (III/2)	4 kV
Rated insulation voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV

#### Environmental and real-life conditions

#### 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 100 °C

#### Packaging specifications

Type of packaging	packed in cardboard

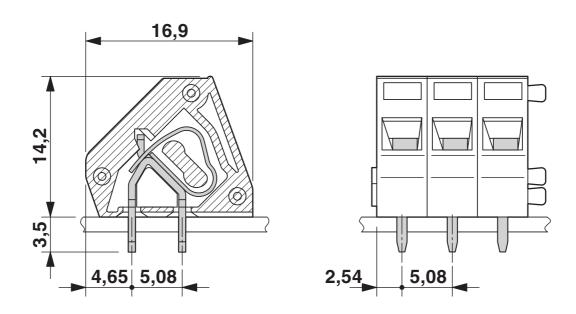


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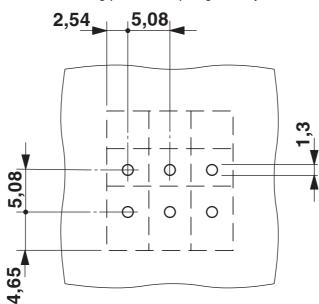


### Drawings

#### Dimensional drawing



#### Drilling plan/solder pad geometry





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### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1706701

CSA Approval ID: 13631				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Use group B				
	300 V	10 A	28 - 12	-
Use group D				
	300 V	10 A	28 - 12	-

CULus Recognized Approval ID: E60425-19941110					
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>	
Use group B					
	250 V	10 A	26 - 12	-	
Use group D					
	300 V	10 A	26 - 12	-	

KEMA-KEUR Approval ID: 2160724.01				
	Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Only flexible conductors	250 V	-	-	0.2 - 1.5
Only rigid conductors	250 V	-	-	0.2 - 2.5



1706701

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### Classifications

UNSPSC 21.0

#### **ECLASS**

	ECLASS-11.0	27460101	
	ECLASS-12.0	27460101	
	ECLASS-13.0	27460101	
ET	IIVI		
	ETIM 9.0	EC002643	
UN	ISPSC		

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1706701

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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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