

1800115

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PCB terminal block, nominal current: 13.5 A, rated voltage (III/2): 400 V, nominal cross section: 1.5 mm², number of potentials: 3, number of rows: 1, number of positions per row: 3, product range: MKKDSNH 1,5, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, screw head form: L Slotted, mounting: Wave soldering, conductor/PCB connection direction: 0°, color: black, Pin layout: Linear pinning, Solder pin [P]: 3.5 mm, number of solder pins per potential: 1, type of packaging: packed in cardboard. The article can be aligned to create different nos. of positions!

### Your advantages

- · Well-known connection principle allows worldwide use
- · Low temperature rise, thanks to maximum contact force
- · Allows connection of two conductors
- · Extremely small design for the respective conductor cross section
- · Tall type enables conductor connection for sealed PCBs
- The latching on the side enables various numbers of positions to be combined

#### Commercial data

Item number	1800115
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	AA12
Product key	AALFJN
GTIN	4055626141121
Weight per piece (including packing)	3.902 g
Weight per piece (excluding packing)	3.575 g
Customs tariff number	85369010
Country of origin	CN



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### Technical data

### Product properties

Product type	Printed circuit board terminal
Product family	MKKDSNH 1,5
Product line	COMBICON Terminals S
Number of positions	3
Pitch	5.08 mm
Number of connections	3
Number of rows	1
Number of potentials	3
Pin layout	Linear pinning
Solder pins per potential	1

#### Electrical properties

Nominal current I <sub>N</sub>	13.5 A
Nominal voltage U <sub>N</sub>	400 V
Degree of pollution	3
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	Screw connection with tension sleeve
Conductor cross section rigid	0.14 mm² 1.5 mm²
Conductor cross section flexible	0.14 mm² 1.5 mm²
0	00 10

Conductor cross section rigid	0.14 mm² 1.5 mm²
Conductor cross section flexible	0.14 mm² 1.5 mm²
Conductor cross section AWG	26 16
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm <sup>2</sup> 1 mm <sup>2</sup>
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 1.5 mm²
2 conductors with same cross section, solid	0.14 mm² 0.75 mm²
2 conductors with same cross section, flexible	0.14 mm² 0.75 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 mm <sup>2</sup> 0.5 mm <sup>2</sup>
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	$0.5~\text{mm}^2\ldots 1~\text{mm}^2$ (1st level: $0.5~\text{mm}^2\ldots 1~\text{mm}^2$ / 2nd level: $0.5~\text{mm}^2)$



1800115

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Stripping length	6 mm
Tightening torque	0.5 Nm 0.6 Nm

#### Mounting

Mounting type	Wave soldering
Pin layout	Linear pinning
Drive form screw head	Slotted (L)

### 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 (5 - 7 μm Sn)
Metal surface terminal point (middle layer)	Nickel (2 - 3 µm Ni)
Metal surface soldering area (top layer)	Tin (5 - 7 μm Sn)
Metal surface soldering area (middle layer)	Nickel (2 - 3 µm Ni)

#### 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

#### **Dimensions**

Dimensional drawing	h h
Pitch	5.08 mm
Width [w]	15.24 mm
Height [h]	22.6 mm
Length [I]	8.6 mm
Installed height	19.1 mm
Solder pin length [P]	3.5 mm
Pin dimensions	0.5 x 1 mm



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Hole cliameter	PCB design	
Test for conductor damage and slackening   IEC 60998-2-12002-12   Result   Test passed	Hole diameter	1.3 mm
Result   Test passed	Mechanical tests	
Pull-out test	Test for conductor damage and slackening	
Pull-out test	Specification	IEC 60998-2-1:2002-12
Specification   IEC 60998-2-1:2002-12	Result	Test passed
Conductor cross section/conductor type/tractive force setpoint/actual value         0.14 mm² / solid / > 10 N           1.5 mm² / solid / > 40 N         1.5 mm² / flexible / > 40 N           Torque test         IEC 60998-2-1:2002-12           Electrical tests           Temperature-rise test           Specification           IEC 60998-1:2002-12           Requirement temperature-rise test           Insulation resistance           Specification           Insulation resistance, neighboring positions         IEC 60998-1:2002-12           Air clearances and creepage distances           IEC 60998-1:2002-12           Specification         IEC 60998-1:2002-12           Insulation resistance, neighboring positions         10° Ω           Air clearances and creepage distances           IEC 60664-1:2007-04           Insulating material group         I           Comparative tracking index (IEC 60112)         CTI 600           Rated insulation voltage (III/3)         3 mm           minimum clearance value - non-homogenous field (III/2)         4 kV           minimum clearance value - non-homogenous field (III/2)         3 mm           Rated insulation voltage (III/2)         4 kV           minimum clearance value - non-homogenous field (III/2) <t< td=""><td>Pull-out test</td><td></td></t<>	Pull-out test	
0.14 mm² / flexible / > 10 N	Specification	IEC 60998-2-1:2002-12
1.5 mm² / solid /> 40 N     1.5 mm² / flexible /   1.5 mm² / flexible // 40 N     1.5 m² / flex		0.14 mm² / solid / > 10 N
Torque test Specification IEC 60998-2-1:2002-12  Electrical tests  Temperature-rise test Specification IEC 60998-1:2002-12  Requirement temperature-rise test Increase in temperature ≤ 45 K  Insulation resistance Specification IEC 60998-1:2002-12 Insulation resistance, neighboring positions 10° Ω  Air clearances and creepage distances   Specification IEC 60988-1:2002-12 Insulation resistance, neighboring positions 10° Ω  Air clearances and creepage distances   Specification IEC 60684-1:2007-04 Insulating material group I Comparative tracking index (IEC 60112) CTI 600 Rated insulation voltage (III/3) 250 V Rated surge voltage (III/3) 3 mm minimum clearance value - non-homogenous field (III/2) 3 mm  Note on connection cross section With connected conductor 1.5 mm² (solid). Rated surge voltage (III/2) 400 V Rated surge voltage (III/2) 3 mm minimum creepage distance (III/2) 4 kV minimum creepage distance (III/2) 3 mm minimum creepage distance (III/2) 4 kV minimum creepage distance (III/2) 3 mm	setpoint/actual value	0.14 mm² / flexible / > 10 N
Torque test Specification IEC 60998-2-1:2002-12  Electrical tests  Temperature-rise test Specification IEC 60998-1:2002-12 Requirement temperature-rise test Increase in temperature ≤ 45 K  Insulation resistance Specification IEC 60998-1:2002-12 Insulation resistance, neighboring positions 10° Ω  Air clearances and creepage distances   Specification IEC 6098-1:2002-12 Insulation resistance, neighboring positions 10° Ω  Air clearances and creepage distances   Specification IEC 60684-1:2007-04 Insulating material group I Comparative tracking index (IEC 60112) CTI 600 Rated insulation voltage (III/3) 250 V Rated surge voltage (III/3) 3 250 V Rated surge voltage (III/3) 3 3 mm minimum clearance value - non-homogenous field (III/3) 3.2 mm Note on connection cross section With connected conductor 1.5 mm³ (solid). Rated insulation voltage (III/2) 400 V Rated surge voltage (III/2) 3 mm minimum clearance value - non-homogenous field (III/2) 3 mm Rated insulation voltage (III/2) 3 mm Rated insulation voltage (III/2) 4 kV minimum creepage distance (III/2) 3 mm Rated insulation voltage (III/2) 4 kV minimum creepage distance (III/2) 3 mm Rated insulation voltage (III/2) 4 kV minimum creepage distance (III/2) 3 mm		1.5 mm² / solid / > 40 N
Electrical tests		1.5 mm² / flexible / > 40 N
Electrical tests	Torque test	
Electrical tests  Temperature-rise test  Specification IEC 60998-1:2002-12  Requirement temperature-rise test Increase in temperature ≤ 45 K  Insulation resistance  Specification IEC 60998-1:2002-12  Insulation resistance, neighboring positions 10° Ω  Air clearances and creepage distances    Specification IEC 60698-1:2002-12  Insulating material group I  Comparative tracking index (IEC 60112) CTI 600  Rated insulation voltage (III/3) 250 V  Rated surge voltage (III/3) 4 kV  minimum clearance value - non-homogenous field (III/3) 3.2 mm  Note on connection cross section With connected conductor 1.5 mm² (solid).  Rated insulation voltage (III/2) 400 V  Rated surge voltage (III/2) 3 mm  minimum creepage distance (III/2) 4 kV  minimum clearance value - non-homogenous field (III/2) 3 mm  minimum creepage distance (III/2) 4 kV  minimum clearance value (III/2) 4 kV  minimum clearance value - non-homogenous field (III/2) 3 mm  Rated insulation voltage (III/2) 4 kV  minimum clearance value - non-homogenous field (III/2) 3 mm		IEC 60998-2-1:2002-12
Temperature-rise test  Specification IEC 60998-1:2002-12  Requirement temperature-rise test Increase in temperature ≤ 45 K  Insulation resistance  Specification IEC 60998-1:2002-12  Insulation resistance, neighboring positions 10° Ω  Air clearances and creepage distances    Specification IEC 6064-1:2007-04  Insulating material group I  Comparative tracking index (IEC 60112) CTI 600  Rated insulation voltage (III/3) 250 V  Rated surge voltage (III/3) 3 mm  minimum clearance value - non-homogenous field (III/3) 3 mm  minimum creepage distance (III/3) 3.2 mm  Note on connection cross section With connected conductor 1.5 mm² (solid).  Rated insulation voltage (III/2) 4 kV  minimum clearance value - non-homogenous field (III/2) 3 mm  minimum creepage distance (III/2) 3 mm  minimum clearance value - non-homogenous field (III/2) 3 mm  minimum clearance value - non-homogenous field (III/2) 3 mm  Rated insulation voltage (III/2) 4 kV  minimum clearance value - non-homogenous field (III/2) 3 mm  Rated insulation voltage (III/2) 4 kV  minimum clearance value - non-homogenous field (III/2) 3 mm	·	
Specification       IEC 60998-1:2002-12         Requirement temperature-rise test       Increase in temperature ≤ 45 K         Insulation resistance       IEC 60998-1:2002-12         Insulation resistance, neighboring positions       10° Ω         Air clearances and creepage distances         IEC 60664-1:2007-04         Insulating material group       I         Comparative tracking index (IEC 60112)       CTI 600         Rated insulation voltage (III/3)       250 V         Rated surge voltage (III/3)       3 mm         minimum clearance value - non-homogenous field (III/3)       3 mm         Note on connection cross section       With connected conductor 1.5 mm² (solid).         Rated insulation voltage (III/2)       4 kV         minimum clearance value - non-homogenous field (III/2)       3 mm         minimum creepage distance (III/2)       3 mm         Rated insulation voltage (III/2)       3 mm         Rated insulation voltage (III/2)       630 V         Rated surge voltage (III/2)       4 kV         minimum clearance value - non-homogenous field (III/2)       3 mm         rinimimum clearance value - non-homogenous field (III/2)       3 mm	Electrical tests	
Insulation resistance  Specification  IEC 60998-1:2002-12  Insulation resistance, neighboring positions  Air clearances and creepage distances    Specification  IEC 60664-1:2007-04  Insulating material group  Insulating material group  Comparative tracking index (IEC 60112)  Rated insulation voltage (III/3)  Rated surge voltage (III/3)  Note on connection cross section  Rated insulation voltage (III/2)  Rated surge voltage (III/2)  Rated surge voltage (III/2)  Rated insulation voltage (III/2)  Rated insulation voltage (III/2)  Rated insulation voltage (III/2)  Rated insulation voltage (III/2)  Rated surge voltage (III/2)  Rated surge voltage (III/2)  Rated insulation voltage (III/2)  Rated surge volt	Temperature-rise test	
Insulation resistance  Specification  Insulation resistance, neighboring positions  IEC 60998-1:2002-12  Insulation resistance, neighboring positions  Air clearances and creepage distances    Specification  IEC 60664-1:2007-04  Insulating material group  I  Comparative tracking index (IEC 60112)  Rated insulation voltage (III/3)  Rated surge voltage (III/3)  A kV  minimum clearance value - non-homogenous field (III/2)  Rated surge voltage (III/2)  Rated surge voltage (III/2)  Rated surge voltage (III/2)  Rated surge voltage (III/2)  minimum creepage distance (III/2)  Rated insulation voltage (III/2)  minimum creepage distance (III/2)  minimum creepage distance (III/2)  Rated insulation voltage (III/2)  minimum creepage distance (III/2)  Rated insulation voltage (III/2)  Rated insulation voltage (III/2)  Rated insulation voltage (III/2)  Rated surge voltage voltage (III/2)  Rated surge voltage (III/2)  Rated surge voltage voltage voltage (III/2)  Rated surge voltage voltage (III/2)  Rated surge voltage voltage voltage voltage (III/2)  Rated surge voltage voltag	Specification	IEC 60998-1:2002-12
Specification       IEC 60998-1:2002-12         Insulation resistance, neighboring positions       10 <sup>9</sup> Ω         Air clearances and creepage distances         IEC 60664-1:2007-04         Specification       IEC 60664-1:2007-04         Insulating material group       I         Comparative tracking index (IEC 60112)       CTI 600         Rated insulation voltage (III/3)       250 V         Rated surge voltage (III/3)       3 mm         minimum clearance value - non-homogenous field (III/3)       3 mm         Note on connection cross section       With connected conductor 1.5 mm² (solid).         Rated insulation voltage (III/2)       4 kV         minimum clearance value - non-homogenous field (III/2)       3 mm         minimum creepage distance (III/2)       3 mm         Rated insulation voltage (III/2)       630 V         Rated surge voltage (III/2)       4 kV         minimum clearance value - non-homogenous field (III/2)       3 mm         Rated surge voltage (III/2)       630 V         Rated surge voltage (III/2)       3 mm	Requirement temperature-rise test	Increase in temperature ≤ 45 K
Insulation resistance, neighboring positions  Air clearances and creepage distances    Specification   IEC 60664-1:2007-04    Insulating material group   I    Comparative tracking index (IEC 60112)   CTI 600    Rated insulation voltage (III/3)   250 V    Rated surge voltage (III/3)   4 kV    minimum clearance value - non-homogenous field (III/3)   3 mm    Mote on connection cross section   With connected conductor 1.5 mm² (solid).  Rated surge voltage (III/2)   400 V    Rated surge voltage (III/2)   4 kV    minimum clearance value - non-homogenous field (III/2)   3 mm    minimum creepage distance (III/2)   3 mm    minimum creepage distance (III/2)   3 mm    Rated insulation voltage (III/2)   3 mm    Rated insulation voltage (III/2)   630 V    Rated surge voltage (III/2)   4 kV    minimum clearance value - non-homogenous field (III/2)   3 mm	Insulation resistance	
Air clearances and creepage distances    Specification   IEC 60664-1:2007-04    Insulating material group   I    Comparative tracking index (IEC 60112)   CTI 600    Rated insulation voltage (III/3)   250 V    Rated surge voltage (III/3)   3 mm    minimum clearance value - non-homogenous field (III/3)   3.2 mm    Note on connection cross section   With connected conductor 1.5 mm² (solid).  Rated insulation voltage (III/2)   400 V    Rated surge voltage (III/2)   4 kV    minimum creepage distance (III/2)   3 mm    minimum creepage distance (III/2)   3 mm    minimum creepage distance (III/2)   4 kV    minimum creepage distance (III/2)   3 mm    Rated insulation voltage (III/2)   630 V    Rated surge voltage (III/2)   4 kV    minimum clearance value - non-homogenous field (III/2)   3 mm	Specification	IEC 60998-1:2002-12
IEC 60664-1:2007-04  Insulating material group  Comparative tracking index (IEC 60112)  Rated insulation voltage (III/3)  Rated surge voltage (III/3)  Minimum clearance value - non-homogenous field (III/3)  Note on connection cross section  With connected conductor 1.5 mm² (solid).  Rated surge voltage (III/2)  Rated surge voltage (III/2)  Rated surge voltage (III/2)  Rated surge voltage (III/2)  Minimum clearance value - non-homogenous field (III/2)  Rated insulation voltage (III/2)  Rated surge voltage (III/2)  Rated insulation voltage (III/2)  Rated insulation voltage (III/2)  Rated insulation voltage (III/2)  Rated insulation voltage (III/2)  Rated surge voltage (III/2)	Insulation resistance, neighboring positions	10 <sup>9</sup> Ω
Insulating material group  Comparative tracking index (IEC 60112)  Rated insulation voltage (III/3)  Rated surge voltage (III/3)  Minimum clearance value - non-homogenous field (III/3)  Note on connection cross section  Note on connection voltage (III/2)  Rated insulation voltage (III/2)  Rated surge voltage (III/2)  Rated surge voltage (III/2)  Minimum clearance value - non-homogenous field (III/2)  Minimum clearance value - non-homogenous field (III/2)  Rated insulation voltage (III/2)  Minimum creepage distance (III/2)  Rated insulation voltage (III/2)  Rated surge voltage voltage (III/2)  Rated surge voltage voltage (III/2)  Rated surge voltage voltage voltage (III/2)  Rated surge voltage vol	Air clearances and creepage distances	
Comparative tracking index (IEC 60112)  Rated insulation voltage (III/3)  Rated surge voltage (III/3)  Rated surge voltage (III/3)  Minimum clearance value - non-homogenous field (III/3)  Note on connection cross section  Rated insulation voltage (III/2)  Rated surge voltage (III/2)  Rated surge voltage (III/2)  Minimum clearance value - non-homogenous field (III/2)  Rated insulation voltage (III/2)  Rated surge voltage (III/2)  Rated insulation voltage (III/2)  Rated surge voltage (III/2)  Rated surge voltage (III/2)  Rated insulation voltage (III/2)  Rated surge voltage (III/2)	Specification	IEC 60664-1:2007-04
Rated insulation voltage (III/3)  Rated surge voltage (III/3)  Minimum clearance value - non-homogenous field (III/3)  Minimum creepage distance (III/3)  Note on connection cross section  With connected conductor 1.5 mm² (solid).  Rated insulation voltage (III/2)  Rated surge voltage (III/2)  Minimum clearance value - non-homogenous field (III/2)  Minimum creepage distance (III/2)  Rated insulation voltage (III/2)  Minimum creepage distance (III/2)  Rated insulation voltage (II/2)  Rated surge voltage (II/2)	Insulating material group	I
Rated surge voltage (III/3)  minimum clearance value - non-homogenous field (III/3)  minimum creepage distance (III/3)  Note on connection cross section  With connected conductor 1.5 mm² (solid).  Rated insulation voltage (III/2)  Rated surge voltage (III/2)  4 kV  minimum clearance value - non-homogenous field (III/2)  Rated insulation voltage (III/2)  Rated insulation voltage (III/2)  Rated surge voltage voltage (III/2)  Rated surge voltage voltage (III/2)  Rated surge voltage (III/2)	Comparative tracking index (IEC 60112)	CTI 600
minimum clearance value - non-homogenous field (III/3)  minimum creepage distance (III/3)  Note on connection cross section  With connected conductor 1.5 mm² (solid).  Rated insulation voltage (III/2)  Rated surge voltage (III/2)  4 kV  minimum clearance value - non-homogenous field (III/2)  Rated insulation voltage (III/2)  3 mm  Rated insulation voltage (III/2)  630 V  Rated surge voltage (III/2)  4 kV  minimum clearance value - non-homogenous field (III/2)  3 mm	Rated insulation voltage (III/3)	250 V
minimum creepage distance (III/3)  Note on connection cross section  Rated insulation voltage (III/2)  Rated surge voltage (III/2)  minimum clearance value - non-homogenous field (III/2)  Rated insulation voltage (III/2)  Rated insulation voltage (III/2)  Rated surge voltage (III/2)	Rated surge voltage (III/3)	4 kV
Note on connection cross section  Rated insulation voltage (III/2)  Rated surge voltage (III/2)  minimum clearance value - non-homogenous field (III/2)  Rated insulation voltage (III/2)  Rated insulation voltage (III/2)  Rated surge voltage (III/2)  Rated surge voltage (II/2)  Rated surge voltage (II/2)  Rated surge voltage (II/2)  Rated surge voltage (II/2)  A kV  minimum clearance value - non-homogenous field (II/2)  3 mm	minimum clearance value - non-homogenous field (III/3)	3 mm
Rated insulation voltage (III/2)  Rated surge voltage (III/2)  minimum clearance value - non-homogenous field (III/2)  minimum creepage distance (III/2)  Rated insulation voltage (II/2)  Rated surge voltage (II/2)  minimum clearance value - non-homogenous field (II/2)  3 mm  Rated surge voltage (II/2)  4 kV  minimum clearance value - non-homogenous field (II/2)  3 mm	minimum creepage distance (III/3)	3.2 mm
Rated surge voltage (III/2)  minimum clearance value - non-homogenous field (III/2)  minimum creepage distance (III/2)  Rated insulation voltage (II/2)  Rated surge voltage (II/2)  minimum clearance value - non-homogenous field (II/2)  3 mm  4 kV  4 kV  minimum clearance value - non-homogenous field (II/2)  3 mm	Note on connection cross section	With connected conductor 1.5 mm² (solid).
minimum clearance value - non-homogenous field (III/2) 3 mm minimum creepage distance (III/2) 3 mm  Rated insulation voltage (II/2) 630 V  Rated surge voltage (II/2) 4 kV minimum clearance value - non-homogenous field (II/2) 3 mm	Rated insulation voltage (III/2)	400 V
minimum creepage distance (III/2) 3 mm  Rated insulation voltage (II/2) 630 V  Rated surge voltage (II/2) 4 kV  minimum clearance value - non-homogenous field (II/2) 3 mm	Rated surge voltage (III/2)	4 kV
Rated insulation voltage (II/2) 630 V Rated surge voltage (II/2) 4 kV minimum clearance value - non-homogenous field (II/2) 3 mm	minimum clearance value - non-homogenous field (III/2)	3 mm
Rated surge voltage (II/2) 4 kV minimum clearance value - non-homogenous field (II/2) 3 mm	minimum creepage distance (III/2)	3 mm
minimum clearance value - non-homogenous field (II/2) 3 mm	Rated insulation voltage (II/2)	630 V
	Rated surge voltage (II/2)	4 kV
minimum creepage distance (II/2) 3.2 mm	minimum clearance value - non-homogenous field (II/2)	3 mm
	minimum creepage distance (II/2)	3.2 mm



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#### Environmental and real-life conditions

Type of packaging

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
ow-wire test	
Specification	IEC 60998-1:2002-12
Temperature	850 °C
Time of exposure	5 s
nbient 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

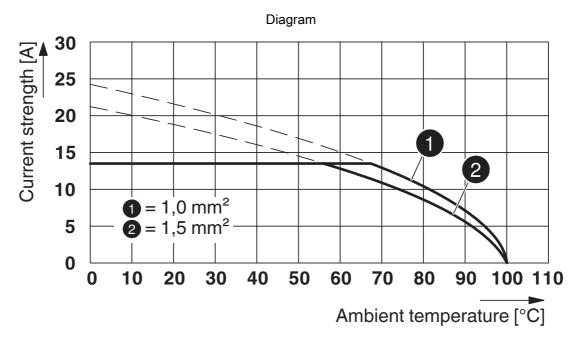
packed in cardboard



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### **Drawings**



Type: MKKDSNH 1,5/...-5,08

Tested according to DIN EN 60512-5-2:2003-01

Reduction factor = 1 Number of positions: 5



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## Classifications

#### **ECLASS**

	ECLASS-11.0	27460101	
	ECLASS-12.0	27460101	
	ECLASS-13.0	27460101	
ETIM			
	ETIM 8.0	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%		

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