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PCB headers, nominal cross section: 1.5 mm², color: black, nominal current: 8 A, rated voltage (III/2): 160 V, contact surface: Tin, contact connection type: Socket, number of potentials: 8, number of rows: 1, number of positions: 8, number of connections: 8, product range: IMCV 1,5/-G-RN-THR, pitch: 3.5 mm, mounting: THR soldering, pin layout: Linear pinning, solder pin [P]: 1.9 mm, number of solder pins per potential: 2, plug-in system: COMBICON MC 1,5, Pin connector pattern alignment: Standard, locking: Snap-in locking, mounting: Engagement nose, type of packaging: packed in cardboard

Your advantages

- Designed for integration into the SMT soldering process
- Intuitive locking mechanism prevents accidental disconnection
- Vertical connection enables multi-row arrangement on the PCB
- Inverted header with socket contacts for touch-proof device outputs or PCB/PCB connections

Commercial data

Item number	1830922
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AA02
Product key	AABTIC
Catalog page	Page 17 (NTK-2014)
GTIN	4046356888530
Weight per piece (including packing)	3.776 g
Weight per piece (excluding packing)	2.9 g
Customs tariff number	85366930
Country of origin	DE

IMCV 1,5/ 8-G-3,5 RN P20 THR - PCB header



1830922

<https://www.phoenixcontact.com/us/products/1830922>

Technical data

Product properties

Product type	PCB headers
Product family	IMCV 1,5/...-G-RN-THR
Product line	COMBICON Connectors S
Type	Inverted
Number of positions	8
Pitch	3.5 mm
Number of connections	8
Number of rows	1
Number of potentials	8
Mounting flange	Engagement nose
Pin layout	Linear pinning
Solder pins per potential	2

Electrical properties

Nominal current I_N	8 A
Nominal voltage U_N	160 V
Degree of pollution	3
Rated voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
Rated voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
Rated voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV

Mounting

Mounting type	THR soldering
Pin layout	Linear pinning

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	hot-dip tin-plated
Metal surface contact area (top layer)	Tin (2 - 4 μm Sn)
Metal surface soldering area (top layer)	Tin (2 - 4 μm Sn)

Material data - housing

Color (Housing)	black (9005)
Insulating material	LCP
Insulating material group	IIIa

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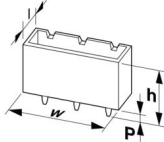


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CTI according to IEC 60112	175
Flammability rating according to UL 94	V0

Dimensions

Dimensional drawing	
Pitch	3.5 mm
Width [w]	28.8 mm
Height [h]	16.35 mm
Length [l]	6.3 mm
Installed height	14.45 mm
Solder pin length [P]	1.9 mm
Pin dimensions	0.62 x 1.12 mm

PCB design	
Pin spacing	3.81 mm
Hole diameter	1.2 mm

Electrical tests

Air clearances and creepage distances	
Specification	IEC 60664-1:2007-04
Insulating material group	IIIa
Comparative tracking index (IEC 60112)	CTI 175
Rated insulation voltage (III/3)	160 V
Rated surge voltage (III/3)	2.5 kV
minimum clearance value - non-homogenous field (III/3)	1.5 mm
minimum creepage distance (III/3)	2.5 mm
Rated insulation voltage (III/2)	160 V
Rated surge voltage (III/2)	2.5 kV
minimum clearance value - non-homogenous field (III/2)	1.5 mm
minimum creepage distance (III/2)	1.6 mm
Rated insulation voltage (II/2)	320 V
Rated surge voltage (II/2)	2.5 kV
minimum clearance value - non-homogenous field (II/2)	1.5 mm
minimum creepage distance (II/2)	3.2 mm

Environmental and real-life conditions

Ambient conditions	
Ambient temperature (operation)	-40 °C ... 100 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C ... 70 °C

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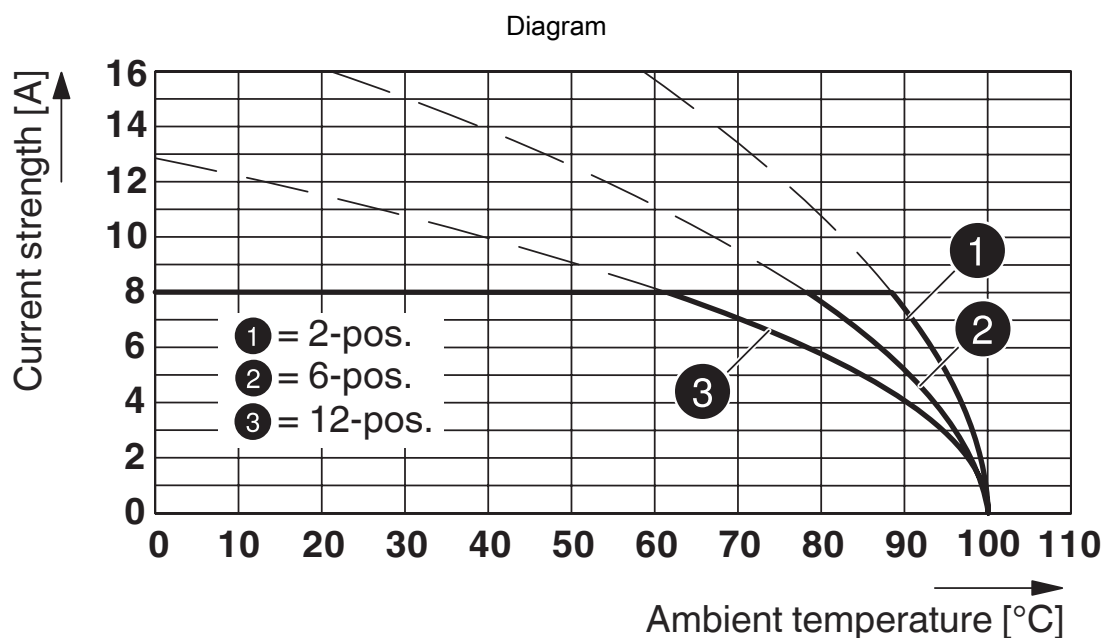
<https://www.phoenixcontact.com/us/products/1830922>

Relative humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 100 °C

Packaging specifications

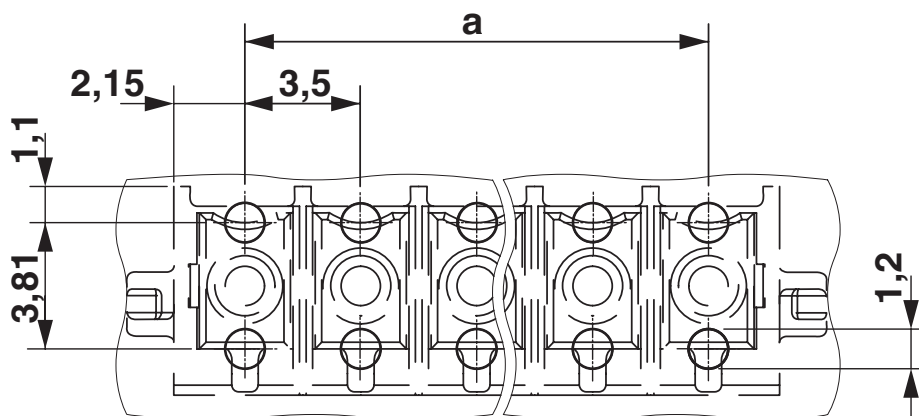
Type of packaging	packed in cardboard
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Drawings

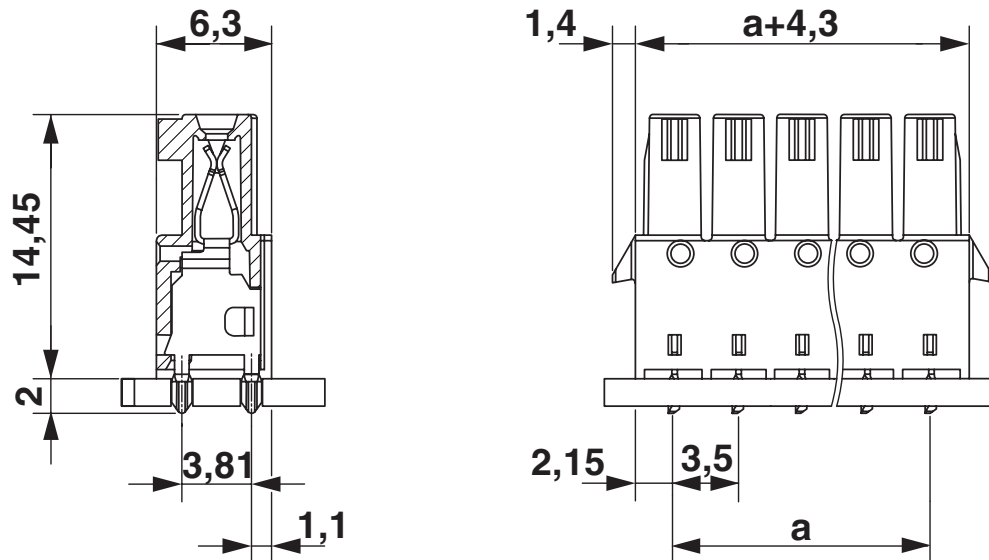


Type: IMC(V) 1,5/...-G-3,5 THR with MC(V) 1,5/...-G-3,5 THR

Drilling plan/solder pad geometry



Dimensional drawing



IMCV 1,5/ 8-G-3,5 RN P20 THR - PCB header



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1830922>

cULus Recognized Approval ID: E60425-20110128				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B	300 V	8 A	-	-
Use group D	300 V	8 A	-	-

VDE Zeichengenehmigung Approval ID: 40011723				
	Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
	160 V	8 A	-	-

IMCV 1,5/ 8-G-3,5 RN P20 THR - PCB header



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Classifications

ECLASS

ECLASS-11.0	27460201
ECLASS-12.0	27460201
ECLASS-13.0	27460201

ETIM

ETIM 9.0	EC002637
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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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