

PC 6/ 3-G-7,62 P26THRR56 - PCB header



1199930
<https://www.phoenixcontact.com/gb/products/1199930>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



PCB headers, nominal cross section: 6 mm², color: black, nominal current: 41 A, rated voltage (III/2): 630 V, contact surface: Sn, contact connection type: Pin, number of rows: 1, number of positions: 3, product range: PC 6/..-G-THR, pitch: 7.62 mm, mounting: THR soldering / wave soldering, pin layout: Linear pinning, solder pin [P]: 2.6 mm, number of solder pins per potential: 3, plug-in system: COMBICON PC 6, Pin connector pattern alignment: Standard, locking: without, mounting method: without, type of packaging: 44 mm wide tape

Your advantages

- Designed for integration into the SMT soldering process
- Increased touch protection in the pin connector pattern for maximum safety even when not plugged in
- Easy PCB replacement thanks to plug-in modules

Commercial data

Item number	1199930
Packing unit	60 pc
Minimum order quantity	60 pc
Note	Made to order (non-returnable)
Sales key	AADTDA
Product key	AADTDA
GTIN	4063151263423
Weight per piece (including packing)	15.35 g
Weight per piece (excluding packing)	15.35 g
Customs tariff number	85366930
Country of origin	CN

PC 6/ 3-G-7,62 P26THRR56 - PCB header



1199930

<https://www.phoenixcontact.com/gb/products/1199930>

Technical data

Product properties

Product type	PCB headers
Product family	PC 6/...-G-THR
Product line	COMBICON Connectors L
Number of positions	3
Pitch	7.62 mm
Number of rows	1
Mounting flange	without
Pin layout	Linear pinning
Solder pins per potential	3

Electrical properties

Properties

Nominal current I_N	41 A
Nominal voltage U_N	630 V
Contact resistance	0.7 mΩ
Rated voltage (III/3)	630 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

Mounting

Mounting type	THR soldering / wave soldering
Pin layout	Linear pinning

Processing notes

Process	Reflow/wave soldering
Moisture Sensitive Level	MSL 1
Classification temperature T_c	260 °C
Solder cycles in the reflow	3

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 contact area (top layer)	Tin (3 - 6 μm Sn)
Metal surface contact area (middle layer)	Nickel (1.3 - 3 μm Ni)

PC 6/ 3-G-7,62 P26THRR56 - PCB header



1199930

<https://www.phoenixcontact.com/gb/products/1199930>

Metal surface soldering area (top layer)	Tin (3 - 6 µm Sn)
Metal surface soldering area (middle layer)	Nickel (1.3 - 3 µm Ni)

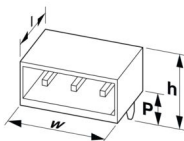
Material data - housing

Color (Housing)	black (9005)
Insulating material	LCP
Insulating material group	IIIa
CTI according to IEC 60112	175
Flammability rating according to UL 94	V0

Notes

Notes on operation	In accordance with IEC 61984, COMBICON connectors have no switching power (COC). During designated use, they must not be plugged in or disconnected when carrying voltage or under load.
--------------------	--

Dimensions

Dimensional drawing	
Pitch	7.62 mm
Width [w]	23.26 mm
Height [h]	15.6 mm
Length [l]	28.2 mm
Installed height	13 mm
Solder pin length [P]	2.6 mm
Pin dimensions	1 x 1.2 mm

PCB design

Hole diameter	1.7 mm
	1.7 mm

Mechanical tests

Visual inspection

Specification	IEC 60512-1-1:2002-02
Result	Test passed

Dimension check

Specification	IEC 60512-1-2:2002-02
Result	Test passed

Resistance of inscriptions

Specification	IEC 60068-2-70:1995-12
Result	Test passed

PC 6/ 3-G-7,62 P26THRR56 - PCB header



1199930

<https://www.phoenixcontact.com/gb/products/1199930>

Polarization and coding

Specification	IEC 60512-13-5:2006-02
Result	Test passed

Contact holder in insert

Specification	IEC 60512-15-1:2008-05
Contact holder in insert Requirements >20 N	Test passed

Insertion and withdrawal forces

Result	Test passed
No. of cycles	25
Insertion strength per pos. approx.	4 N
Withdraw strength per pos. approx.	5 N

Electrical tests

Thermal test | Test group C

Specification	IEC 60512-5-1:2002-02
Tested number of positions	6

Insulation resistance

Specification	IEC 60512-3-1:2002-02
Insulation resistance, neighboring positions	> 5 MΩ

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)	630 V
Rated surge voltage (III/3)	6 kV
minimum clearance value - non-homogenous field (III/3)	5.5 mm
minimum creepage distance (III/3)	10 mm
Rated insulation voltage (III/2)	630 V
Rated surge voltage (III/2)	6 kV
minimum clearance value - non-homogenous field (III/2)	5.5 mm
minimum creepage distance (III/2)	6.3 mm
Rated insulation voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV
minimum clearance value - non-homogenous field (II/2)	5.5 mm
minimum creepage distance (II/2)	10 mm

Environmental and real-life conditions

Vibration test

Specification	IEC 60068-2-6:2007-12
Frequency	10 - 150 - 10 Hz

PC 6/ 3-G-7,62 P26THRR56 - PCB header



1199930

<https://www.phoenixcontact.com/gb/products/1199930>

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

Durability test

Specification	IEC 60512-9-1:2010-03
Impulse withstand voltage at sea level	7.3 kV
Contact resistance R_1	0.7 mΩ
Contact resistance R_2	0.7 mΩ
Insertion/withdrawal cycles	25
Insulation resistance, neighboring positions	> 5 MΩ

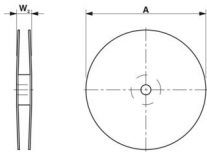
Climatic test

Specification	ISO 6988:1985-02
Corrosive stress	0.2 dm ³ SO ₂ on 300 dm ³ /40 °C/1 cycle
Thermal stress	100 °C/168 h
Power-frequency withstand voltage	3.31 kV

Ambient conditions

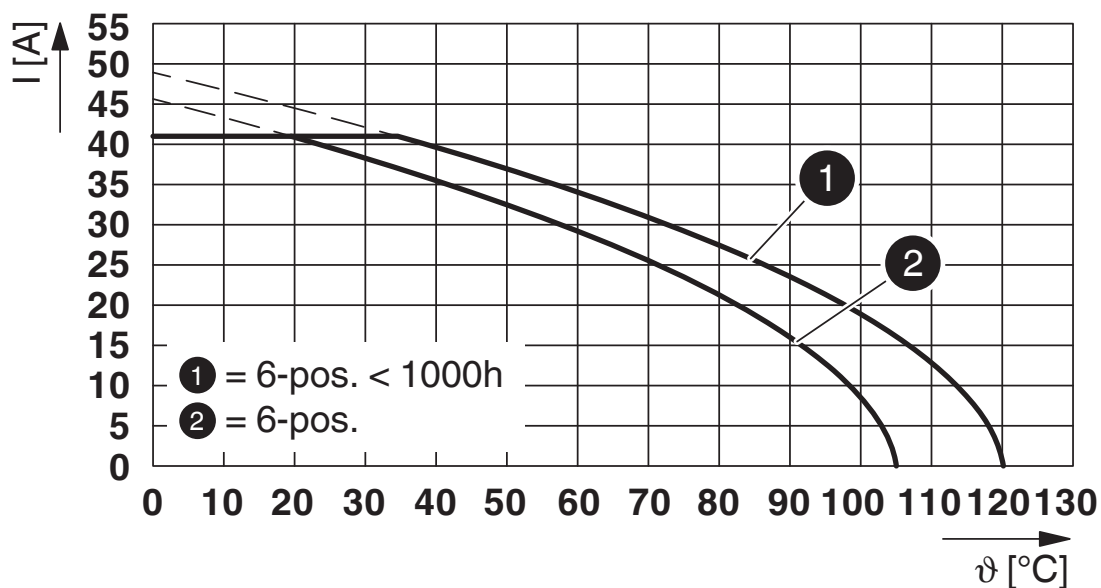
Ambient temperature (operation)	-40 °C ... 105 °C (dependent on the derating curve)
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Relative humidity (storage/transport)	30 % ... 70 %
Ambient temperature (assembly)	-5 °C ... 100 °C

Packaging specifications

Dimensional drawing	
Type of packaging	44 mm wide tape
[W] tape width	44 mm
[W2] coil overall dimension	≤ 50.4 mm
[A] coil diameter	≤ 330 mm
Outer packaging type	Transparent-Bag
ESD level	(D) electrostatically conductive
Specification	DIN EN 61340-5-1 (VDE 0300-5-1): 2008-07

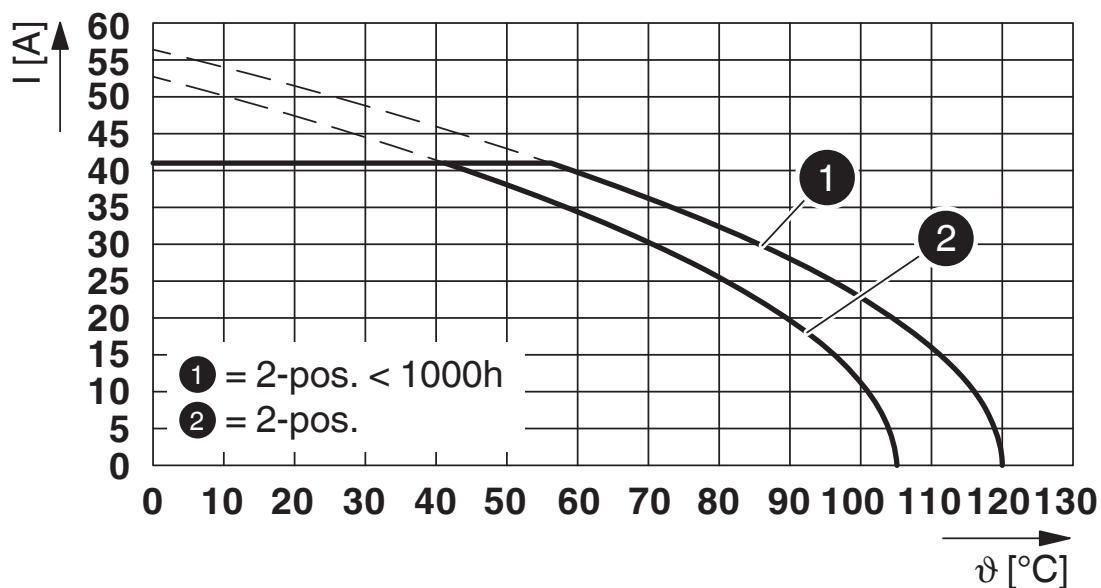
Drawings

Diagram



Type: LPC 6/...-ST-7,62 with PC 6/...-G-7,62 P...THR

Diagram



Type: LPC 6/...-ST-7,62 with PC 6/...-G-7,62 P...THR

PC 6/ 3-G-7,62 P26THRR56 - PCB header



1199930

<https://www.phoenixcontact.com/gb/products/1199930>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/1199930>

 cULus Recognized Approval ID: E60425-20010727				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B				
Standard	300 V	35 A	-	-
Use group C				
Standard	300 V	35 A	-	-
Use group F				
USR application only	600 V	35 A	-	-
Use group D				
Alternative 1	600 V	5 A	-	-

 VDE approval of drawings Approval ID: 40050635				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	630 V	41 A	-	-

PC 6/ 3-G-7,62 P26THRR56 - PCB header



1199930

<https://www.phoenixcontact.com/gb/products/1199930>

Classifications

ECLASS

ECLASS-13.0	27460201
-------------	----------

ETIM

ETIM 9.0	EC002637
----------	----------

UNSPSC

UNSPSC 21.0	39121400
-------------	----------

PC 6/ 3-G-7,62 P26THRR56 - PCB header



1199930

<https://www.phoenixcontact.com/gb/products/1199930>

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%
-------------------------------------	----------------------------

Phoenix Contact 2025 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT Ltd
Halesfield 13, Telford
Shropshire, TF7 4PG
01952 681700
info@phoenixcontact.co.uk