

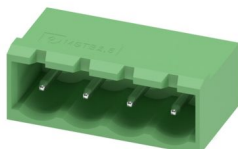
MSTBA 2,5/ 4-G-5,08 - PCB header



1757268

<https://www.phoenixcontact.com/au/products/1757268>

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: 2.5 mm², color: green, nominal current: 12 A, rated voltage (III/2): 320 V, contact surface: Sn, contact connection type: Pin, number of potentials: 4, number of rows: 1, number of positions: 4, number of connections: 4, product range: MSTBA 2,5/..-G, pitch: 5.08 mm, mounting: Wave soldering, pin layout: Linear pinning, solder pin [P]: 3.23 mm, number of solder pins per potential: 1, plug-in system: COMBICON MSTB 2,5, Pin connector pattern alignment: Standard, locking: without, mounting method: without, type of packaging: packed in cardboard

Your advantages

- Maximum flexibility when it comes to device design – one header for connectors with different connection technologies
- Well-known mounting principle allows worldwide use
- Plug-in direction parallel to the PCB
- Closed contour for optimum stability of the plug-in connection
- Easy PCB replacement thanks to plug-in modules

Commercial data

Item number	1757268
Packing unit	250 pc
Minimum order quantity	250 pc
Sales key	AACSHG
Product key	AACSHG
Catalog page	Page 313 (C-1-2013)
GTIN	4017918029791
Weight per piece (including packing)	1.635 g
Weight per piece (excluding packing)	1.5 g
Customs tariff number	85366930
Country of origin	CN

MSTBA 2,5/ 4-G-5,08 - PCB header

1757268

<https://www.phoenixcontact.com/au/products/1757268>



Technical data

Product properties

Product type	PCB headers
Product family	MSTBA 2,5/..-G
Product line	COMBICON Connectors M
Type	Standard
Number of positions	4
Pitch	5.08 mm
Number of connections	4
Number of rows	1
Number of potentials	4
Mounting flange	without
Pin layout	Linear pinning
Solder pins per potential	1

Electrical properties

Properties

Nominal current I_N	12 A
Nominal voltage U_N	320 V
Contact resistance	1.4 mΩ
Rated voltage (III/3)	320 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
Rated voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV

Mounting

Mounting type	Wave 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	Tin-plated
Metal surface contact area (top layer)	Tin (3 - 5 μm Sn)
Metal surface contact area (middle layer)	Nickel (1.3 - 3 μm Ni)
Metal surface soldering area (top layer)	Tin (3 - 5 μm Sn)
Metal surface soldering area (middle layer)	Nickel (1.3 - 3 μm Ni)

MSTBA 2,5/ 4-G-5,08 - PCB header

1757268

<https://www.phoenixcontact.com/au/products/1757268>



Material data - housing

Color (Housing)	green (6021)
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	
Pitch	5.08 mm
Width [w]	22.32 mm
Height [h]	11.8 mm
Length [l]	12 mm
Installed height	8.57 mm
Solder pin length [P]	3.23 mm
Pin dimensions	1 x 1 mm

PCB design

Hole diameter	1.4 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

Polarization and coding

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

MSTBA 2,5/ 4-G-5,08 - PCB header

1757268

<https://www.phoenixcontact.com/au/products/1757268>



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.	8 N
Withdraw strength per pos. approx.	6 N

Electrical tests

Thermal test | Test group C

Specification	IEC 60512-5-1:2002-02
Tested number of positions	24

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	I
Comparative tracking index (IEC 60112)	CTI 600
Rated insulation voltage (III/3)	320 V
Rated surge voltage (III/3)	4 kV
minimum clearance value - non-homogenous field (III/3)	3 mm
minimum creepage distance (III/3)	4 mm
Rated insulation voltage (III/2)	320 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
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 creepage distance (II/2)	3.2 mm

Environmental and real-life conditions

Vibration test

Specification	IEC 60068-2-6:2007-12
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)

MSTBA 2,5/ 4-G-5,08 - PCB header



1757268

<https://www.phoenixcontact.com/au/products/1757268>

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	4.8 kV
Contact resistance R ₁	1.4 mΩ
Contact resistance R ₂	1.4 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	2.21 kV

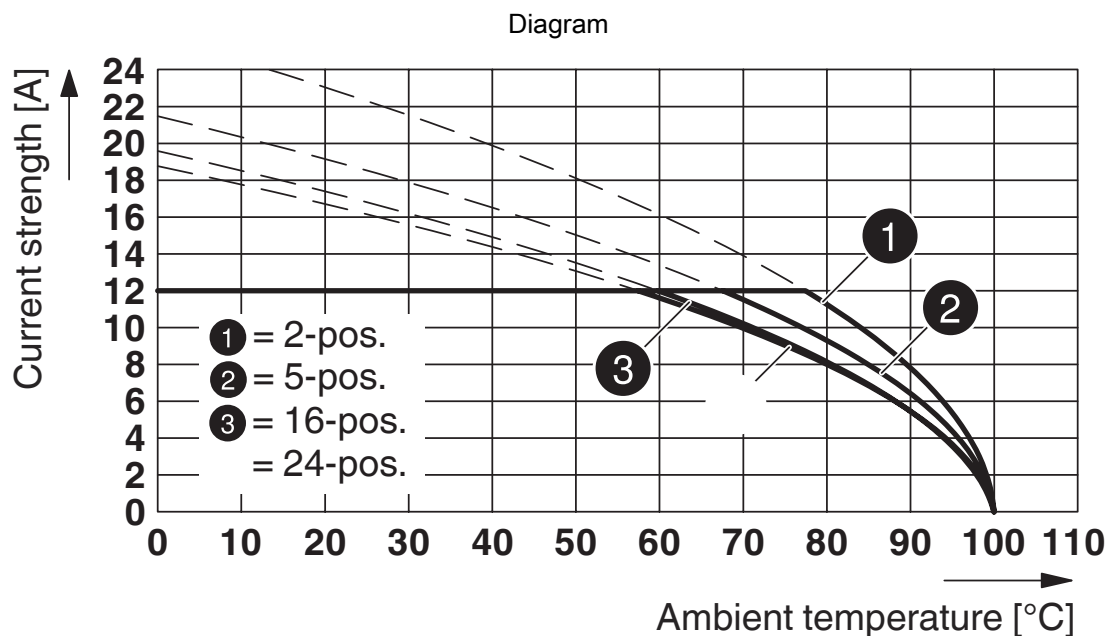
Ambient conditions

Ambient temperature (operation)	-40 °C ... 100 °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

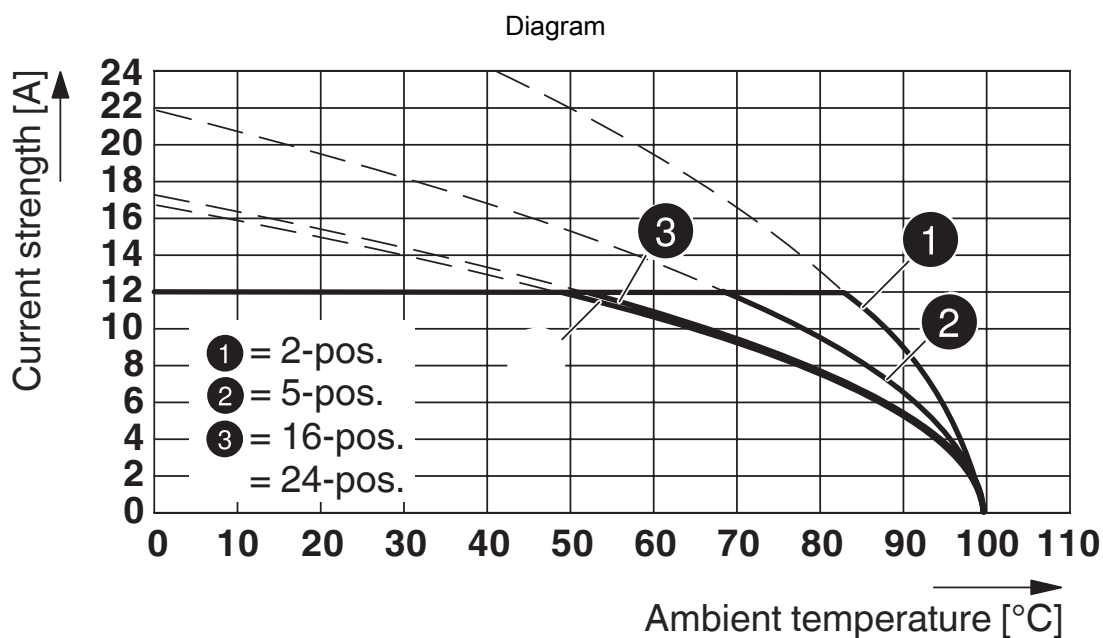
Packaging specifications

Type of packaging	packed in cardboard
-------------------	---------------------

Drawings



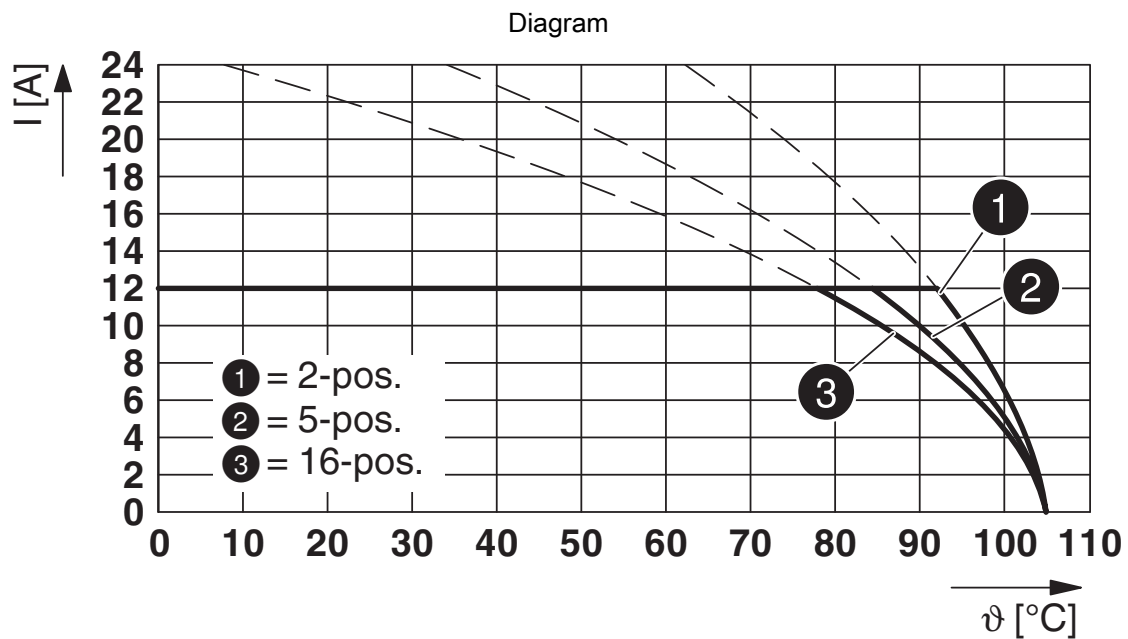
Type: FRONT-MSTB 2,5/...-ST-5,08 with MSTBA 2,5/...-G-5,08



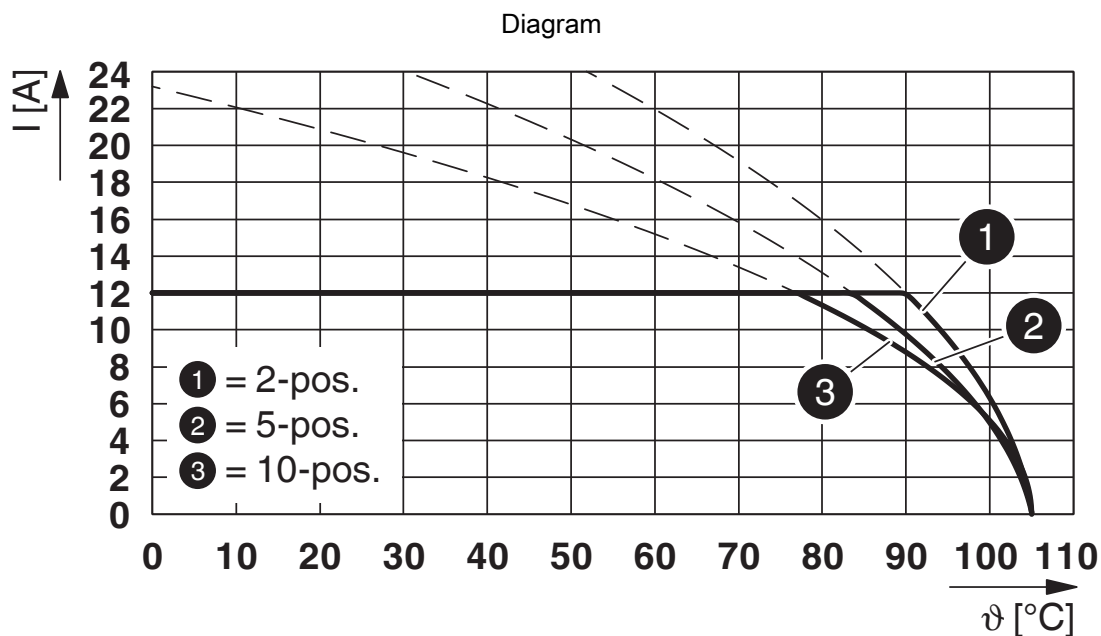
Type: IC 2,5/...-G-5,08 with MSTBA 2,5/...-G-5,08



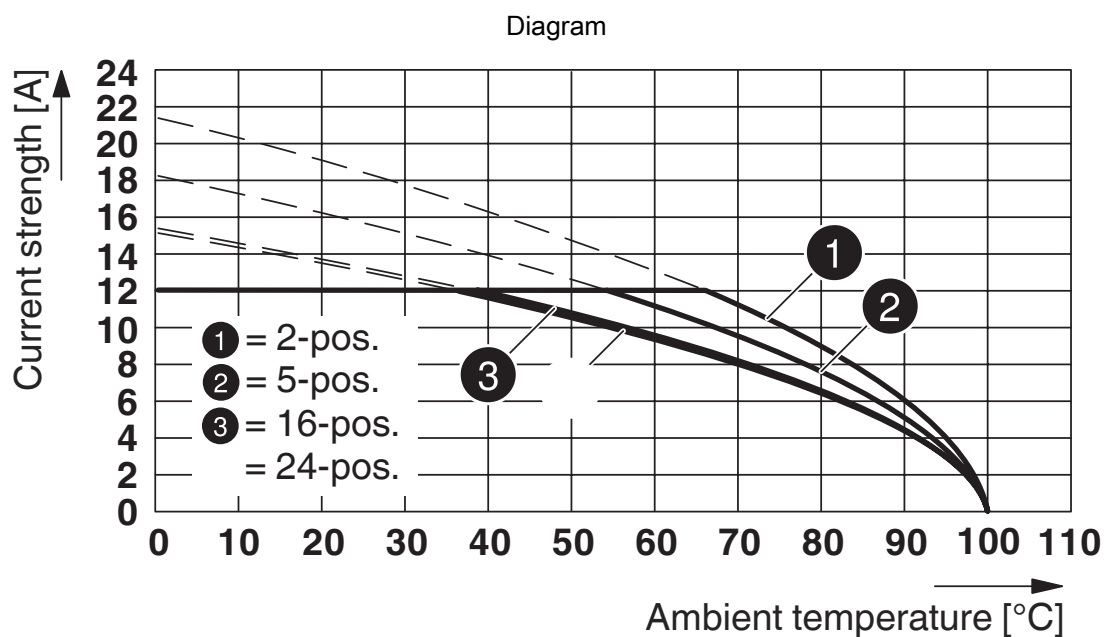
Type: FKCVR 2,5/...-ST-5,08 with MSTBA 2,5/...-G-5,08



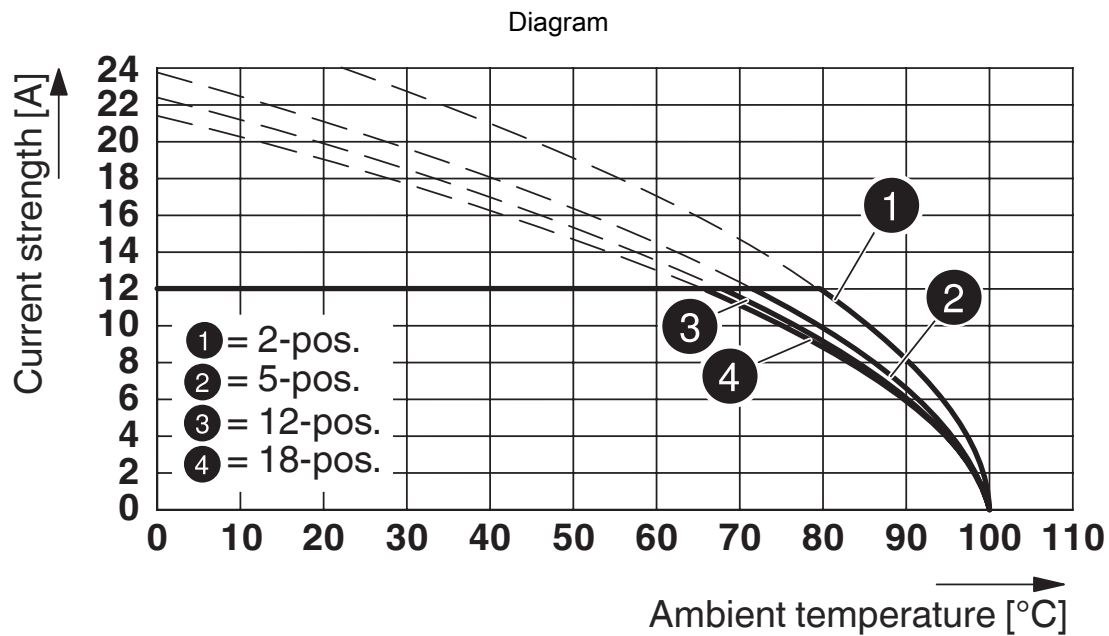
Type: FKCVW 2,5/...-ST-5,08 with MSTBA 2,5/...-G-5,08



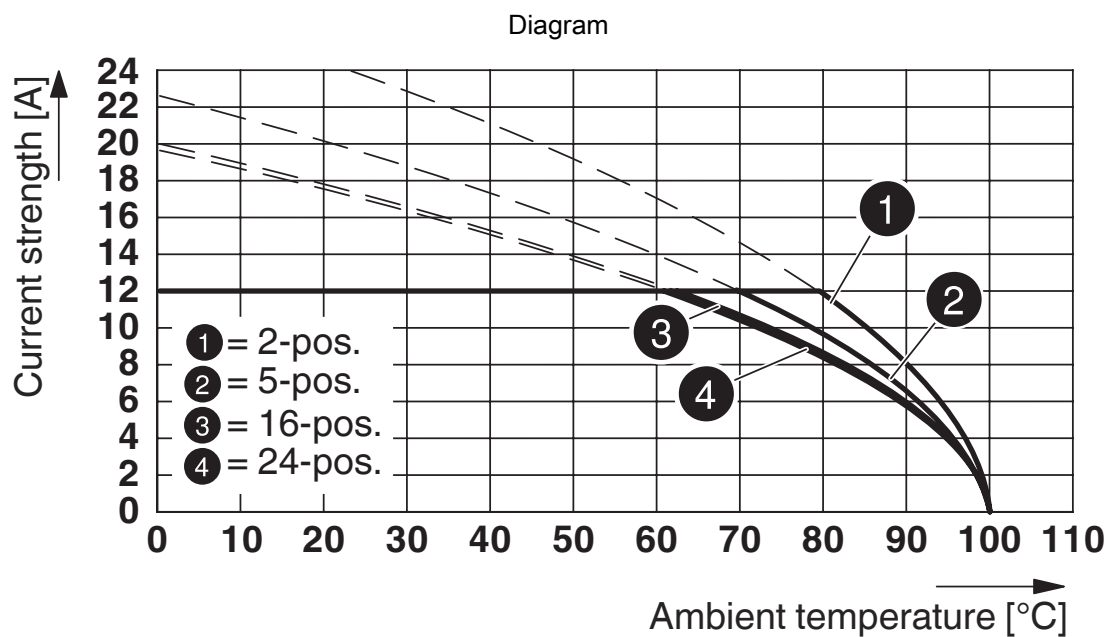
Type: TFKC 2,5/...-ST-5,08 with MSTBA 2,5/...-G-5,08



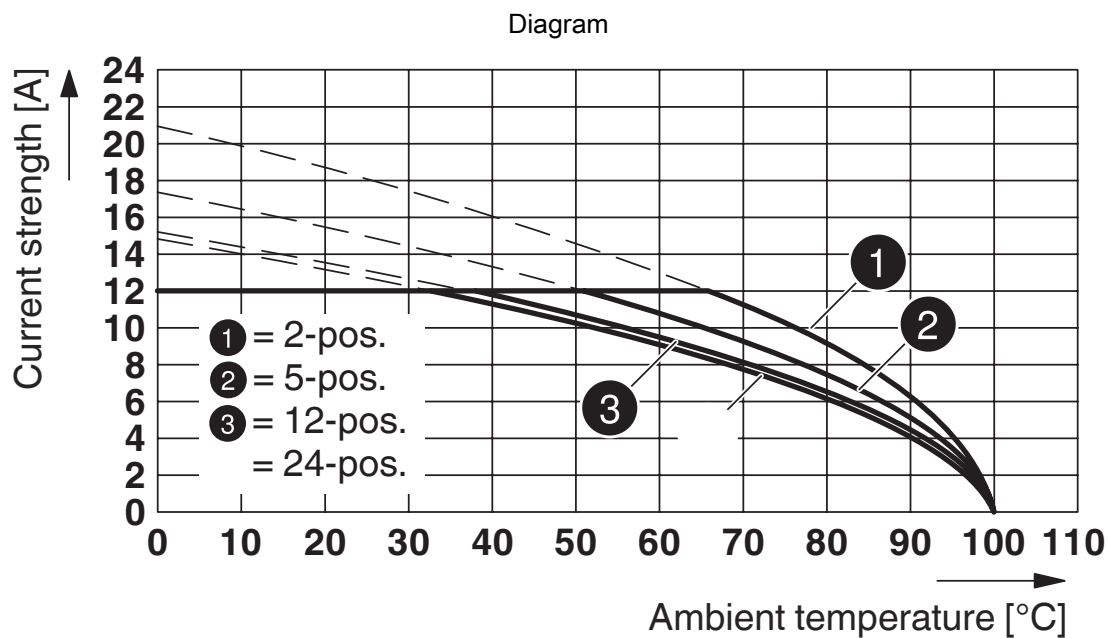
Type: MSTBP 2,5/...-ST-5,08 with MSTBW 2,5/...-G-5,08



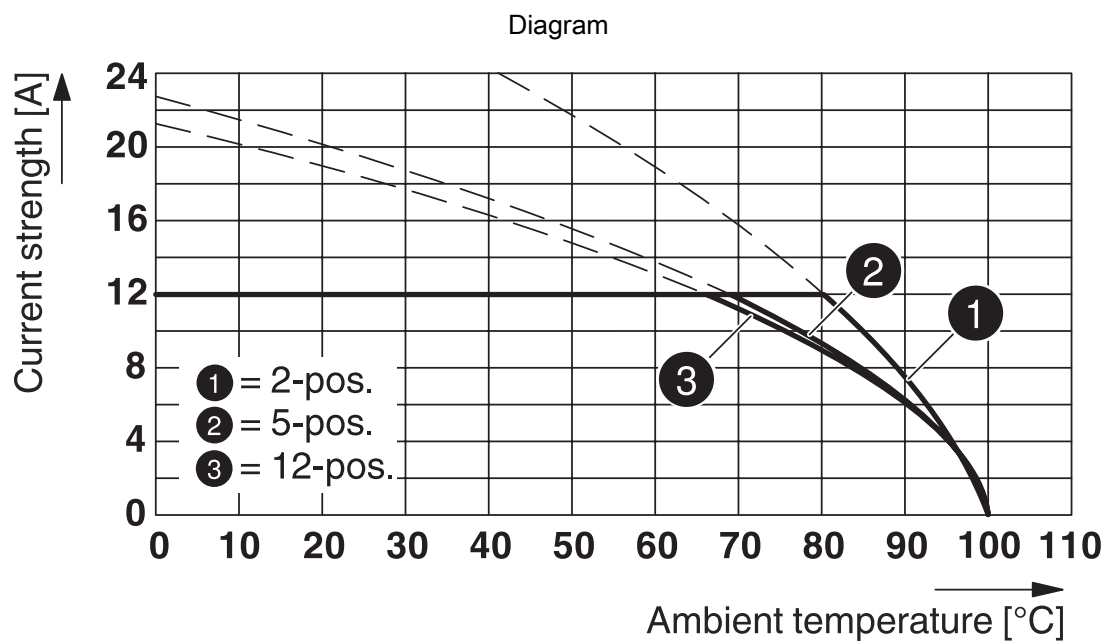
Type: MSTBT 2,5/...-ST-5,08 with MSTBA 2,5/...-G-5,08-5,08



Type: MSTBP 2,5/...-ST-5,08 with MSTBA 2,5/...-G-5,08-5,08



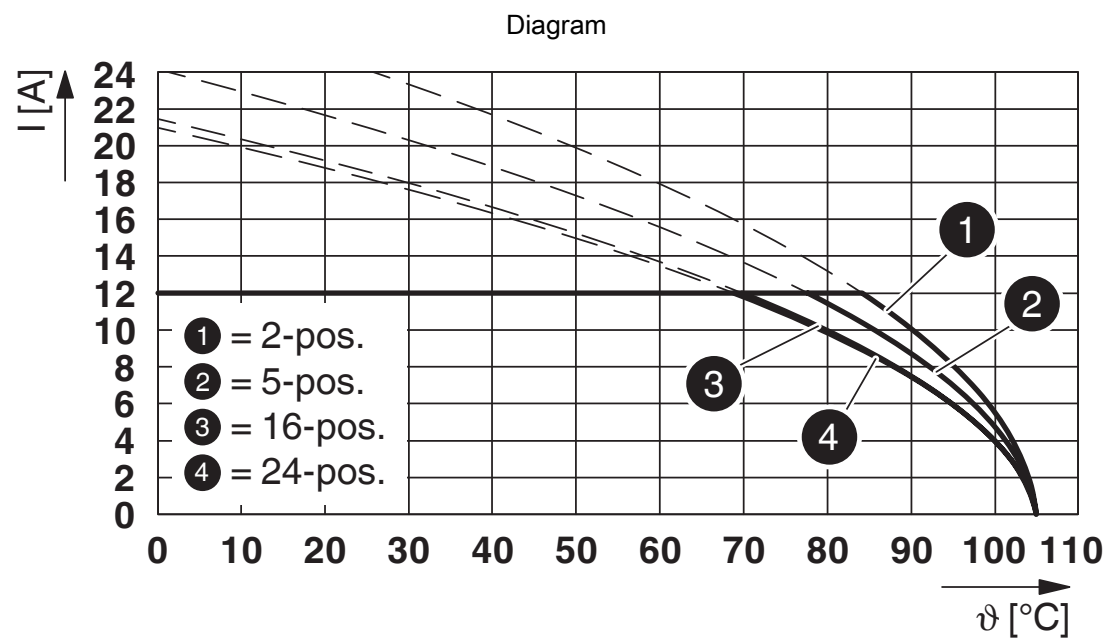
Type: MVSTBR 2,5/...-ST-5,08 with MSTBA 2,5/...-G-5,08



Type: FKCN 2,5/...-ST-5,08 with MSTBA 2,5/...-G-5,08



Type: ICV 2,5/...-G-5,08 with MSTBA 2,5/...-G-5,08



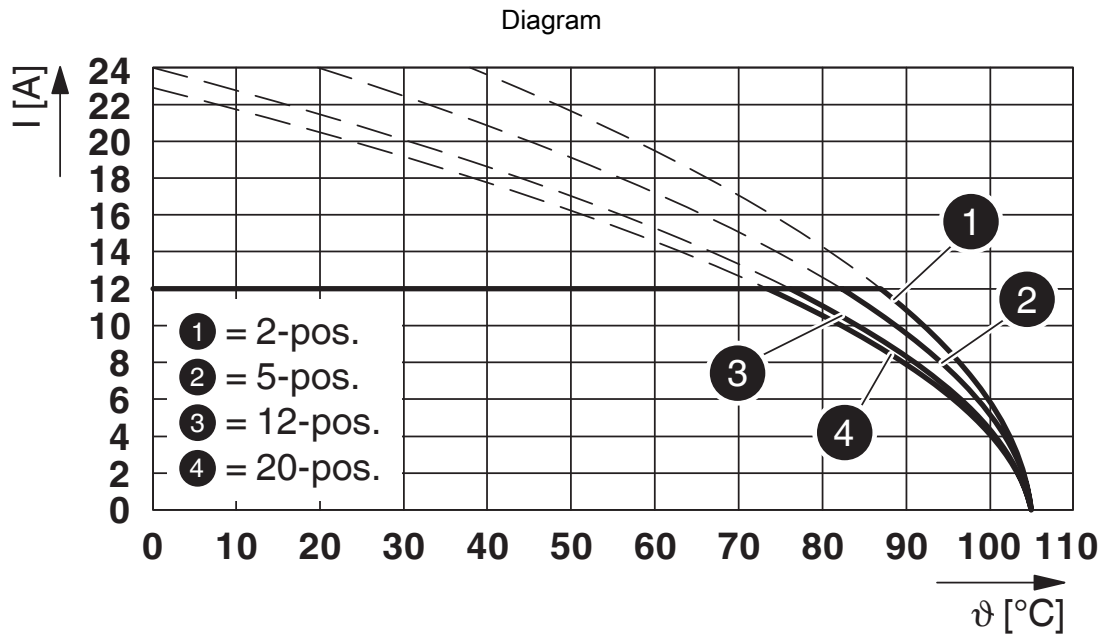
Type: MSTB 2,5/...-ST-5,08 with MSTBA 2,5/...-G-5,08

MSTBA 2,5/ 4-G-5,08 - PCB header

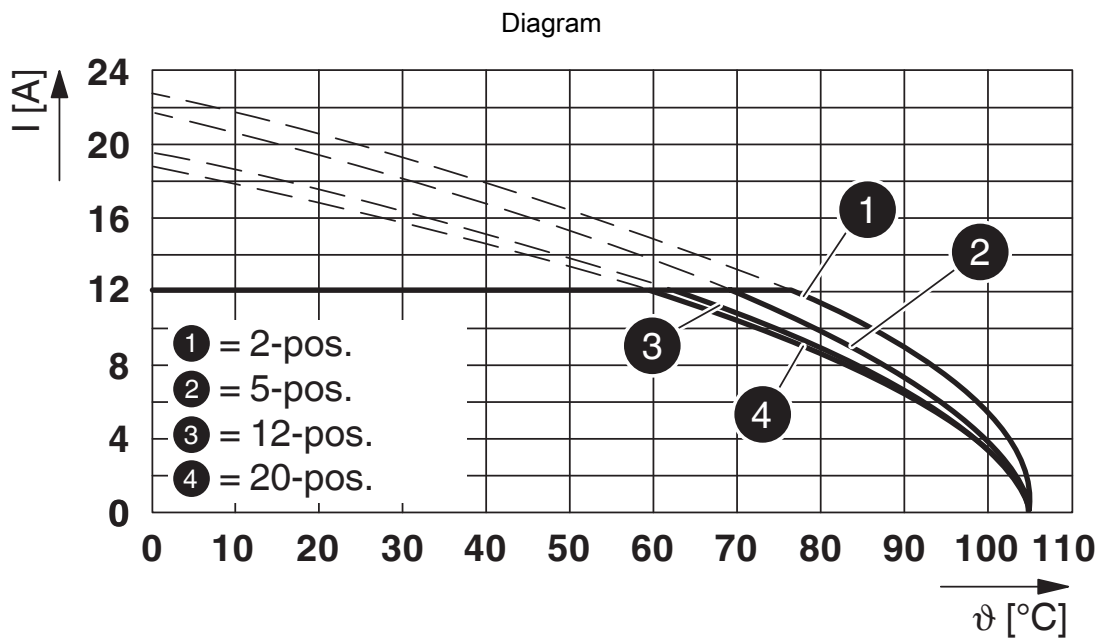


1757268

<https://www.phoenixcontact.com/au/products/1757268>



Type: FKCS 2,5/...-ST-5,08 with MSTBA 2,5/...-G-5,08



Type: FKCT 2,5/...-ST-5,08 with MSTBA 2,5/...-G-5,08

MSTBA 2,5/ 4-G-5,08 - PCB header



1757268

<https://www.phoenixcontact.com/au/products/1757268>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/au/products/1757268>

 CSA Approval ID: 13631				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B				
	300 V	10 A	-	-
Use group D				
	300 V	10 A	-	-

 cULus Recognized Approval ID: E60425-19931011				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Use group B				
	300 V	15 A	-	-
Use group D				
	300 V	10 A	-	-

 VDE approval of drawings Approval ID: 40050648				
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	250 V	12 A	-	-

MSTBA 2,5/ 4-G-5,08 - PCB header



1757268

<https://www.phoenixcontact.com/au/products/1757268>

Classifications

ECLASS

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

ETIM

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

UNSPSC

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

MSTBA 2,5/ 4-G-5,08 - PCB header

1757268

<https://www.phoenixcontact.com/au/products/1757268>



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 PTY Ltd
Unit 7, 2-8 South Street
Rydalmere NSW 2116
1300 786 411
customerservice@phoenixcontact.com.au