

## Printed-circuit board connector - MVSTBR 2,5/ 3-ST - 1792029

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's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 3, Pitch: 5 mm, Connection method: Screw connection with tension sleeve, Color: green, Contact surface: Tin


The figure shows a 10-position version of the product

### Why buy this product

- Well-known connection principle allows worldwide use
- Low temperature rise, thanks to maximum contact force
- Allows connection of two conductors
- 90° difference in plug-in direction for the conductor connection, reduces the risk of the connector being pulled out with the conductor and narrower conductor routing to the application



### Key Commercial Data

Packing unit	100 STK
GTIN	 4 017918 044503
GTIN	4017918044503
Weight per Piece (excluding packing)	6.140 g
Custom tariff number	85366990
Country of origin	Germany

### Technical data

#### Dimensions

Length	12.5 mm
Height	26 mm
Width	15 mm
Pitch	5 mm
Dimension a	10 mm

#### General

Range of articles	MVSTBR 2,5/..-ST
-------------------	------------------

# Printed-circuit board connector - MVSTBR 2,5/ 3-ST - 1792029

## Technical data

### General

Type of contact	Female connector
Number of positions	3
Connection method	Screw connection with tension sleeve
Insulating material group	I
Rated surge voltage (III/3)	4 kV
Rated surge voltage (III/2)	4 kV
Rated surge voltage (II/2)	4 kV
Rated voltage (III/3)	250 V
Rated voltage (III/2)	320 V
Rated voltage (II/2)	630 V
Connection in acc. with standard	EN-VDE
Nominal current $I_N$	12 A
Nominal cross section	2.5 mm <sup>2</sup>
Maximum load current	12 A (with a 2.5 mm <sup>2</sup> conductor cross section)
Insulating material	PA
Flammability rating according to UL 94	V0
Internal cylindrical gage	A3
Stripping length	7 mm
Screw thread	M3
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm

### Connection data

Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.25 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve max.	2.5 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.25 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve max.	2.5 mm <sup>2</sup>
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
2 conductors with same cross section, solid min.	0.2 mm <sup>2</sup>
2 conductors with same cross section, solid max.	1 mm <sup>2</sup>
2 conductors with same cross section, stranded min.	0.2 mm <sup>2</sup>
2 conductors with same cross section, stranded max.	1.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.25 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	1 mm <sup>2</sup>

# Printed-circuit board connector - MVSTBR 2,5/ 3-ST - 1792029

## Technical data

### Connection data

2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	1.5 mm <sup>2</sup>
Minimum AWG according to UL/CUL	30
Maximum AWG according to UL/CUL	12

### Standards and Regulations

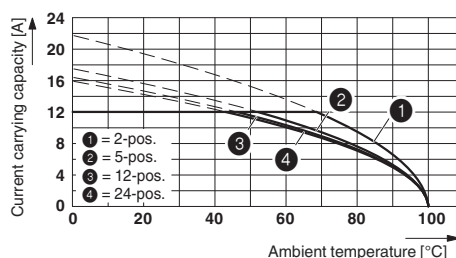
Connection in acc. with standard	EN-VDE
	CSA
Flammability rating according to UL 94	V0

### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

Diagram



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

## Classifications

### eCl@ss

eCl@ss 4.0	272607xx
eCl@ss 4.1	27260701
eCl@ss 5.0	27260701
eCl@ss 5.1	27260701
eCl@ss 6.0	27260704
eCl@ss 7.0	27440402
eCl@ss 8.0	27440309
eCl@ss 9.0	27440309

### ETIM

ETIM 3.0	EC001121
----------	----------

# Printed-circuit board connector - MVSTBR 2,5/ 3-ST - 1792029

## Classifications

### ETIM

ETIM 4.0	EC002638
ETIM 5.0	EC002638
ETIM 6.0	EC002638

### UNSPSC

UNSPSC 6.01	30211810
UNSPSC 7.0901	39121409
UNSPSC 11	39121409
UNSPSC 12.01	39121409
UNSPSC 13.2	39121409

## Approvals


### Approvals


#### Approvals

CSA / VDE Gutachten mit Fertigungsüberwachung / IECEE CB Scheme / cULus Recognized / EAC

#### Ex Approvals

### Approval details

CSA		<a href="http://www.csagroup.org/services/testing-and-certification/certified-product-listing/">http://www.csagroup.org/services/testing-and-certification/certified-product-listing/</a>	13631
		B	D
mm <sup>2</sup> /AWG/kcmil		28-12	28-12
Nominal current IN		10 A	10 A
Nominal voltage UN		300 V	300 V

VDE Gutachten mit Fertigungsüberwachung		<a href="http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx">http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx</a>	40004701
mm <sup>2</sup> /AWG/kcmil		0.2-2.5	
Nominal current IN		12 A	
Nominal voltage UN		250 V	

# Printed-circuit board connector - MVSTBR 2,5/ 3-ST - 1792029

## Approvals

IECEE CB Scheme	<b>CB</b> scheme	<a href="http://www.iecee.org/">http://www.iecee.org/</a>	DE1-56062-B1B2
mm <sup>2</sup> /AWG/kcmil	0.2-2.5		
Nominal current I <sub>N</sub>	12 A		
Nominal voltage U <sub>N</sub>	250 V		

cULus Recognized	<b>cULus</b>	<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	E60425-19931011
	B	D	
mm <sup>2</sup> /AWG/kcmil	30-12	30-12	
Nominal current I <sub>N</sub>	15 A	10 A	
Nominal voltage U <sub>N</sub>	300 V	300 V	

EAC	<b>EAC</b>	B.01742
-----	------------	---------

## Accessories

### Accessories

#### Marker pen

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

### Screwdriver tools

Screwdriver - SZS 0,6X3,5 - 1205053



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

### Terminal marking

## Printed-circuit board connector - MVSTBR 2,5/ 3-ST - 1792029

### Accessories

Marker card - SK 5/3,8:UNBEDRUCKT - 0805409



Marker card, Card, white, unlabeled, can be labeled with: Marker pen, Mounting type: Adhesive, for terminal block width: 5 mm, Lettering field: 5 x 3.8 mm

---

### Additional products

Base strip - MSTBW 2,5/ 3-G - 1736108



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 3, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

Base strip - MDSTB 2,5/ 3-G1 - 1736687



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 3, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering, In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!

Base strip - MDSTBV 2,5/ 3-G1 - 1736726



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 3, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering, In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!

Base strip - MSTBV 2,5/ 3-G - 1753453



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 3, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

## Printed-circuit board connector - MVSTBR 2,5/ 3-ST - 1792029

### Accessories

#### Base strip - MSTB 2,5/ 3-G - 1754452

Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 3, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering



#### Base strip - MSTBVA 2,5/ 3-G - 1755529

Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 3, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering



#### Base strip - MSTBA 2,5/ 3-G - 1757488

Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 3, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering



#### Base strip - MDSTB 2,5/ 3-G - 1762059

Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 3, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering, Can be aligned! Mounting flange: Order no. 1736771, 1736768. In combination with MVSTB or FKCV plugs, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plugs is not possible!



#### Base strip - MDSTBV 2,5/ 3-G - 1763045

Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 3, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering, Can be aligned! Mounting flange: Order No. 1836477, 1836480. In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!



## Printed-circuit board connector - MVSTBR 2,5/ 3-ST - 1792029

### Accessories

#### Base strip - MSTB 2,5/ 3-G-LA - 1768192



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 3, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

---

#### Base strip - SMSTB 2,5/ 3-G - 1769243



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 3, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

---

#### Base strip - SMSTBA 2,5/ 3-G - 1769816



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 3, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

---

#### Base strip - MSTBA 2,5/ 3-G-LA - 1770494



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 3, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering

---

#### Base strip - MDSTBW 2,5/ 3-G - 1802427



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 3, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering, The article can be aligned to create different nos. of positions! In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!

---



## Printed-circuit board connector - MVSTBR 2,5/ 3-ST - 1792029

### Accessories

#### Base strip - MDSTBVA 2,5/ 3-G - 1845798



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 3, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering, The article can be aligned to create different nos. of positions! In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!

---

#### Base strip - MDSTBA 2,5/ 3-G - 1846522



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 3, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering, The article can be aligned to create different nos. of positions! In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!

---

#### Base strip - MSTBO 2,5/ 3-G1L - 1861028



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 3, Pitch: 5 mm, Mounting: Soldering, Article with lateral pin exit

---

#### Base strip - MSTBO 2,5/ 3-G1R - 1861031



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 3, Pitch: 5 mm, Mounting: Soldering, Article with lateral pin exit

---

#### Base strip - MDSTBA 2,5/ 3-GL - 1874691



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 3, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering, The article can be aligned to create different nos. of positions! In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!

## Printed-circuit board connector - MVSTBR 2,5/ 3-ST - 1792029

### Accessories

#### Base strip - MDSTBA 2,5/ 3-GR - 1874701



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 3, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Wave soldering, The article can be aligned to create different nos. of positions! In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!

---

#### Base strip - MDSTBVA 2,5/ 3-GL - 1874730



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 3, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Soldering, The article can be aligned to create different nos. of positions! In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!

---

#### Base strip - MDSTBVA 2,5/ 3-GR - 1874743



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 3, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Soldering, The article can be aligned to create different nos. of positions! In combination with MVSTB or FKCV plug components, both an MVSTBW (or FKCVW) and an MVSTBR plug (or FKCVR) must be used. Combination with TMSTBP plug components is not possible!

---

#### Base strip - EMSTBA 2,5/ 3-G - 1899854



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 3, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Press-in technology

---

#### Base strip - EMSTBVA 2,5/ 3-G - 1914865



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 3, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Press-in technology

## Printed-circuit board connector - MVSTBR 2,5/ 3-ST - 1792029

### Accessories

#### Base strip - MSTBA 2,5/ 3-G THT - 1927506



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 3, Pitch: 5 mm, Color: black, Contact surface: Tin, Mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

---

#### Base strip - MSTBVA 2,5/ 3-G THT - 1941016



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 3, Pitch: 5 mm, Color: black, Contact surface: Tin, Mounting: THR soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

---

#### Base strip - MSTBV 2,5/ 3-G THT - 1963955



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 3, Pitch: 5 mm, Color: black, Contact surface: Tin, Mounting: Soldering, User information and design recommendations for through hole reflow technology can be found under "Downloads"

---

#### Base strip - MSTBO 2,5/ 3-G1L KMGY - 2853750



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 3, Pitch: 5 mm, Mounting: Soldering

---

#### Base strip - MSTBO 2,5/ 3-G1R KMGY - 2853763



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 3, Pitch: 5 mm, Mounting: Soldering

---

## Printed-circuit board connector - MVSTBR 2,5/ 3-ST - 1792029

### Accessories

Base strip - MSTBO 2,5/ 3 G1L THRR44 BK - 2915216



Header, Nominal current: 16 A, Rated voltage (III/2): 320 V, Number of positions: 3, Pitch: 5 mm, Mounting: Taped SMD/THT/THR components

---

Base strip - MSTBO 2,5/ 3 G1R THRR44 BK - 2915229



Header, Nominal current: 16 A, Rated voltage (III/2): 320 V, Number of positions: 3, Pitch: 5 mm, Mounting: Taped SMD/THT/THR components

---

---