

# Printed-circuit board connector - MVSTBW 2,5/ 4-ST-5,08 BK - 1836901

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PCB connector, nominal current: 12 A, number of positions: 4, pitch: 5.08 mm, connection method: Screw connection with tension sleeve, color: black, contact surface: Tin


The figure shows a 10-position version of the product

## Your advantages

- Well-known connection principle allows worldwide use
- Allows connection of two conductors
- Low temperature rise, thanks to maximum contact force



## Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 50 pc   |
| GTIN         | <br>4 017918 262723 |
| GTIN         | 4017918262723   |

## Technical data

### Dimensions

|              |          |
|--------------|----------|
| Length [ l ] | 12.5 mm  |
| Width [ w ]  | 20.32 mm |
| Height [ h ] | 26 mm    |
| Pitch        | 5.08 mm  |
| Dimension a  | 15.24 mm |

### General

|                             |                                      |
|-----------------------------|--------------------------------------|
| Range of articles           | MVSTBW 2,5/...-ST                    |
| Number of positions         | 4                                    |
| Connection method           | Screw connection with tension sleeve |
| Insulating material group   | I                                    |
| Rated surge voltage (III/3) | 4 kV                                 |

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## Technical data

### General

|  |                     |
|--|---------------------|
| 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                |
| 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>    |
| 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                   |

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## Technical data

### Standards and Regulations

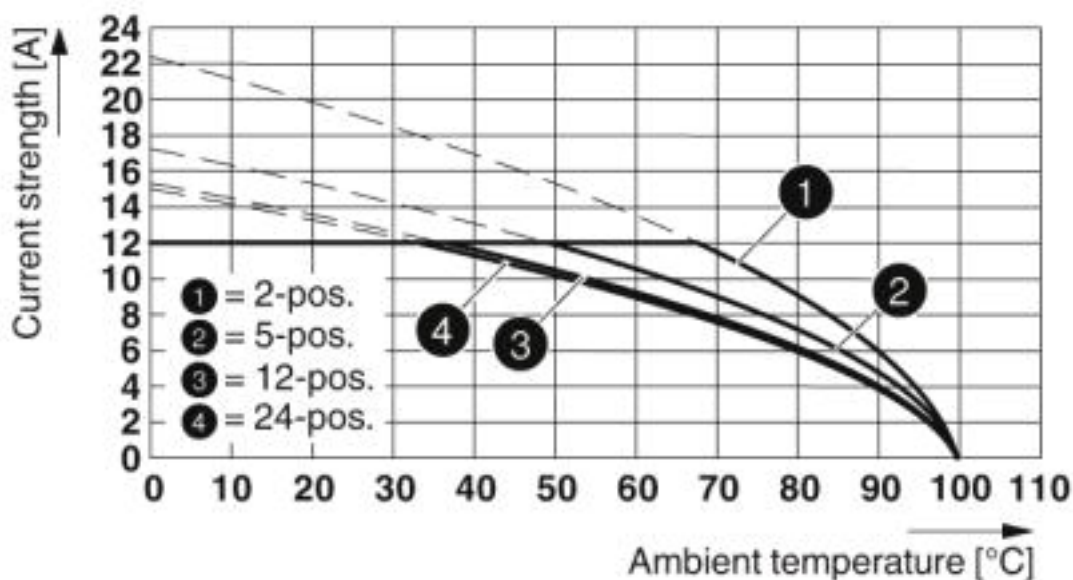
|  |        |
|--|--------|
| Connection in acc. with standard       | EN-VDE |
|  | CSA    |
| Flammability rating according to UL 94 | V0     |

### Environmental Product Compliance

|            |   |
|------------|---|
|            | Lead 7439-92-1  |
| China RoHS | Environmentally Friendly Use Period = 50  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Drawings

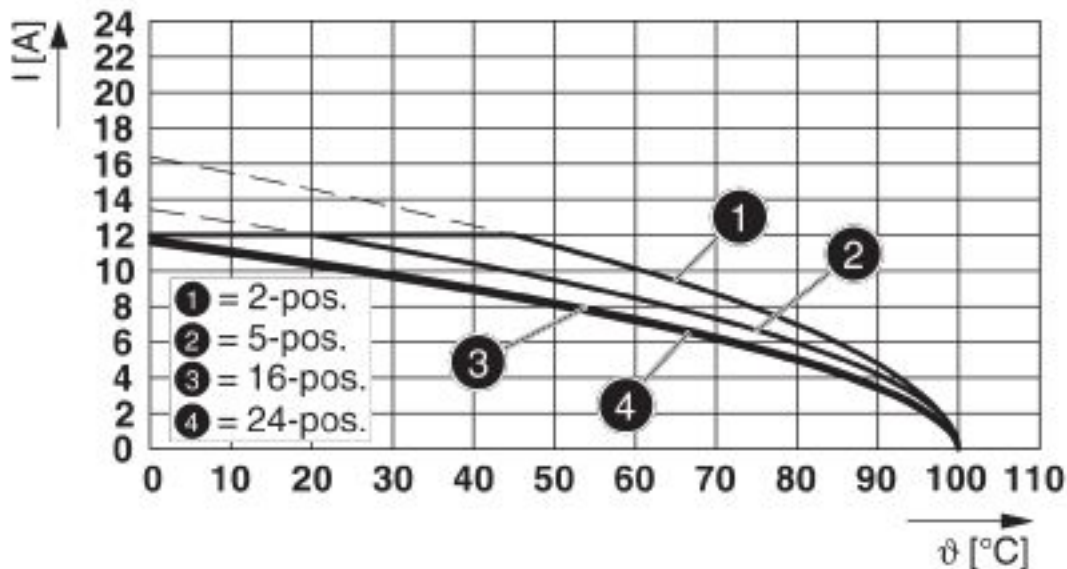
Diagram



Type: MVSTB(R/W) 2,5/...-ST with MDSTBVA 2,5/...-G-5,08

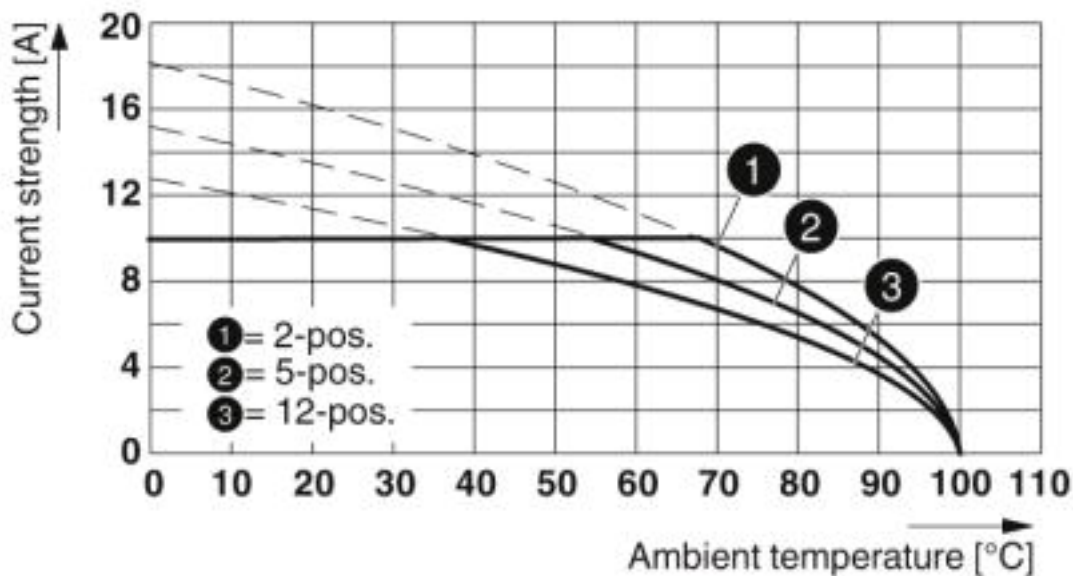
# Printed-circuit board connector - MVSTBW 2,5/ 4-ST-5,08 BK - 1836901

Diagram



Type: MVSTB(R/W) 2,5/...-ST-5,08 with MSTBVA 2,5/...-G-5,08

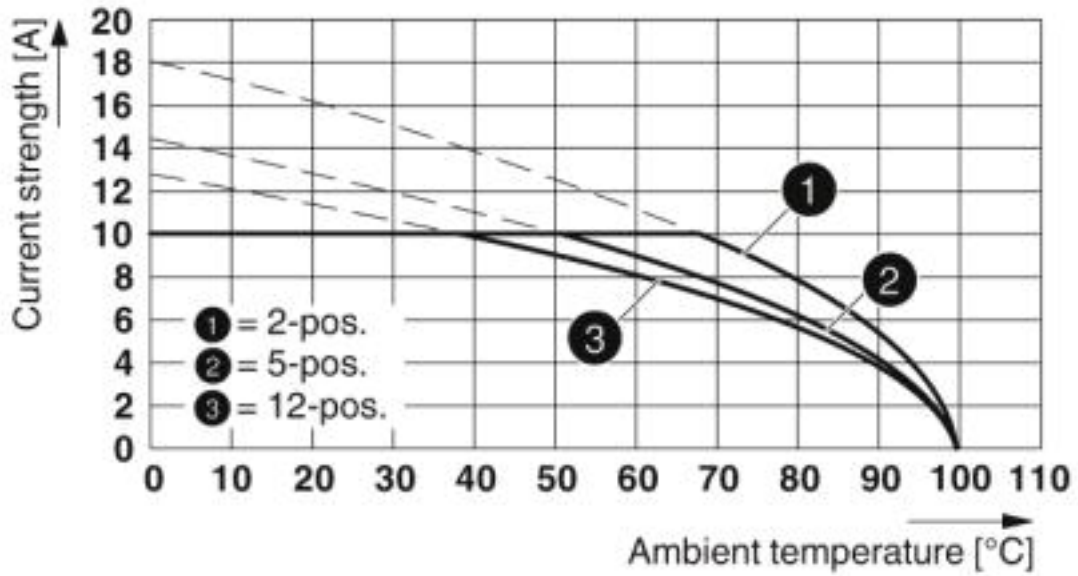
Diagram



Type: MVSTBW 2,5/...-ST-5,08 with MDSTB 2,5/...-G-5,08

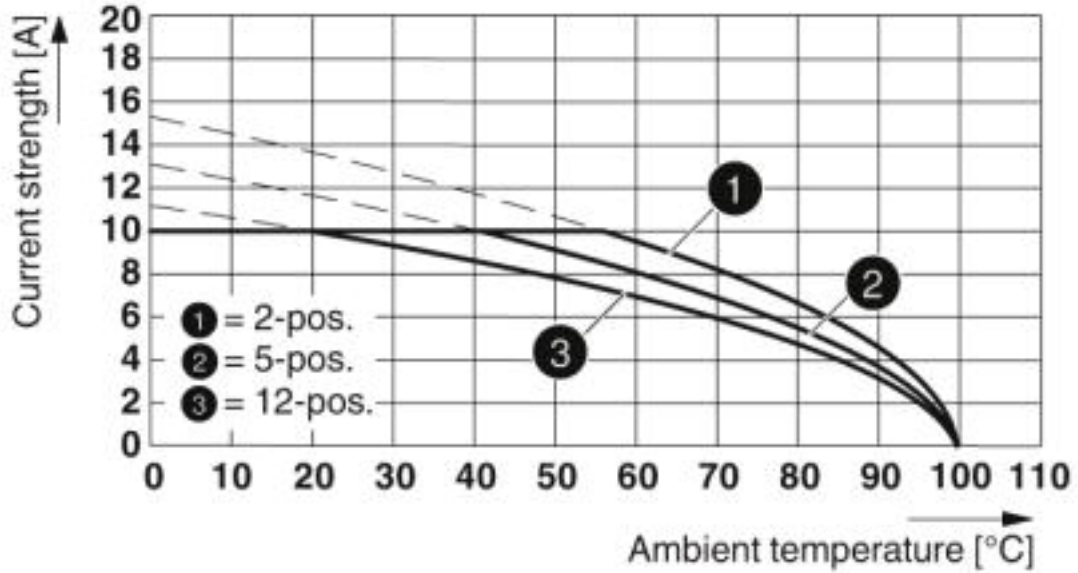
# Printed-circuit board connector - MVSTBW 2,5/ 4-ST-5,08 BK - 1836901

Diagram



Type: MVSTB(R/W) 2,5/...-ST-5,08 with MDSTBA 2,5/...-G-5,08

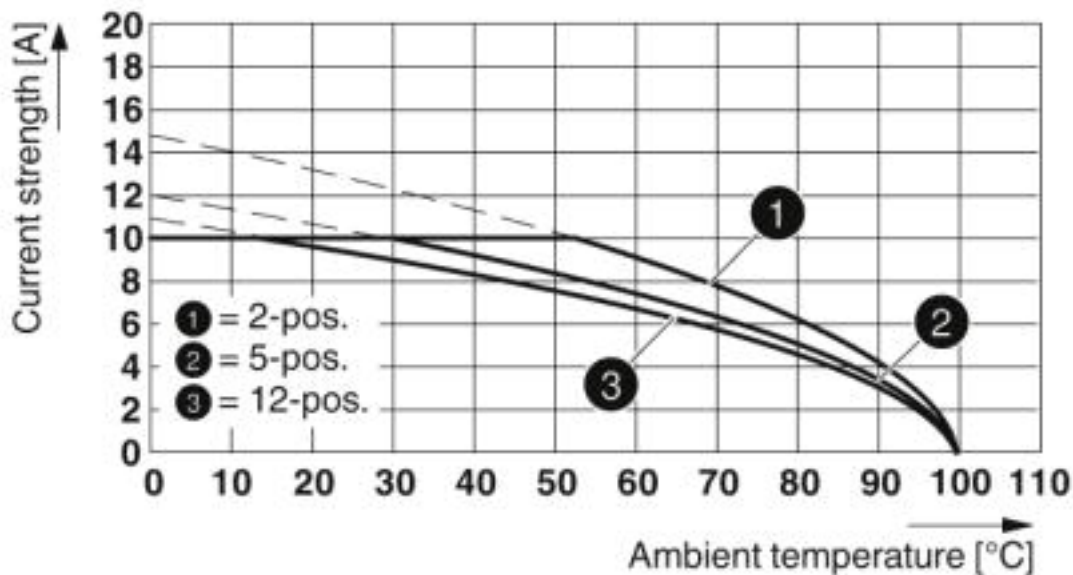
Diagram



Type: MVSTB(R/W) 2,5/...-ST with MDSTBV 2,5/...-G-5,08

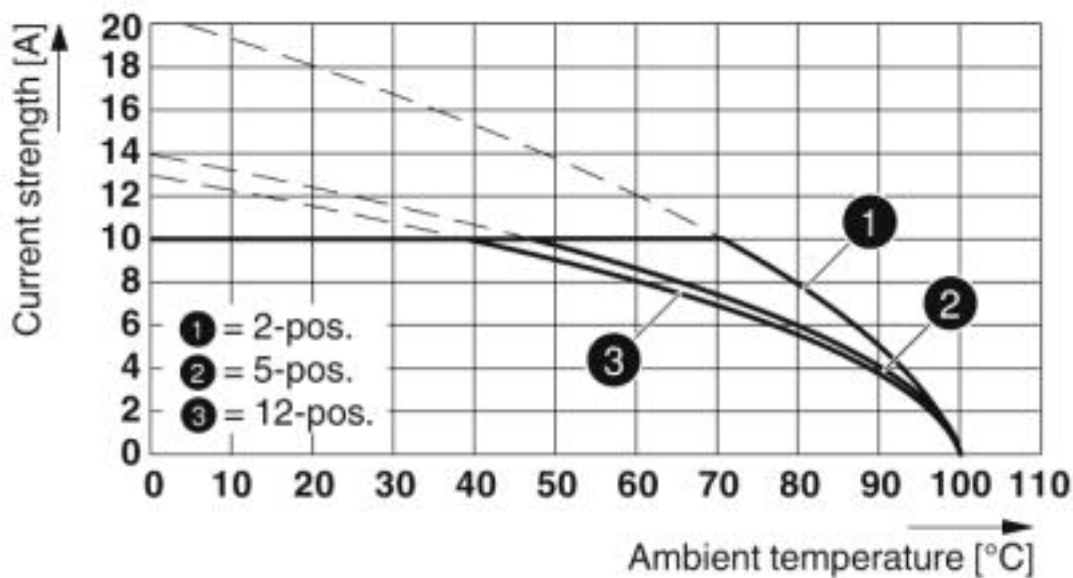
# Printed-circuit board connector - MVSTBW 2,5/ 4-ST-5,08 BK - 1836901

Diagram



Type: MVSTB(R/W) 2,5/...-ST with MDSTBVA 2,5/...-G-5,08

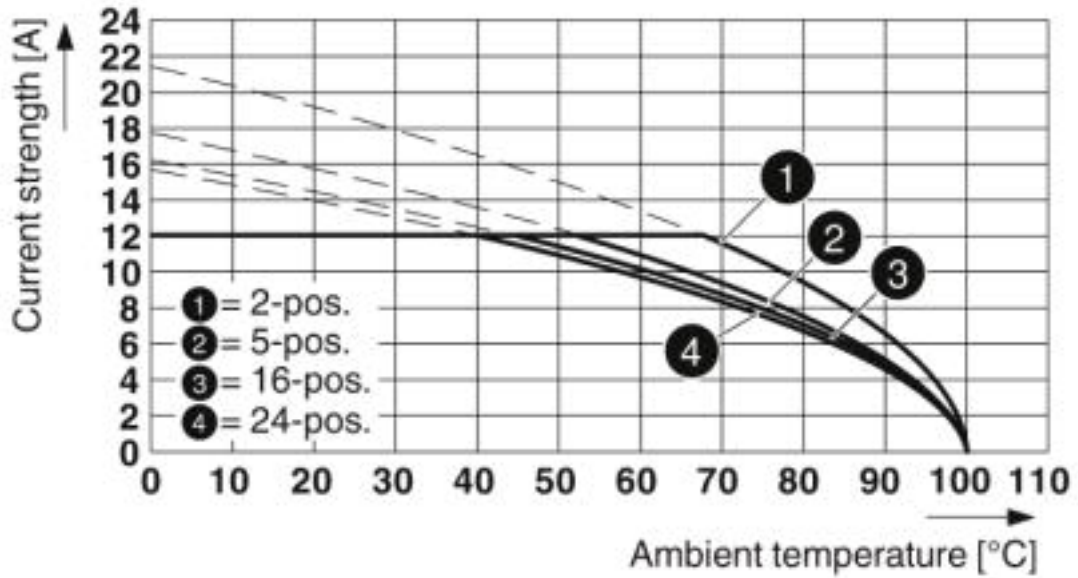
Diagram



Type: MVSTB(R/W) 2,5/...-ST-5,08 with MDSTBW 2,5/...-G-5,08

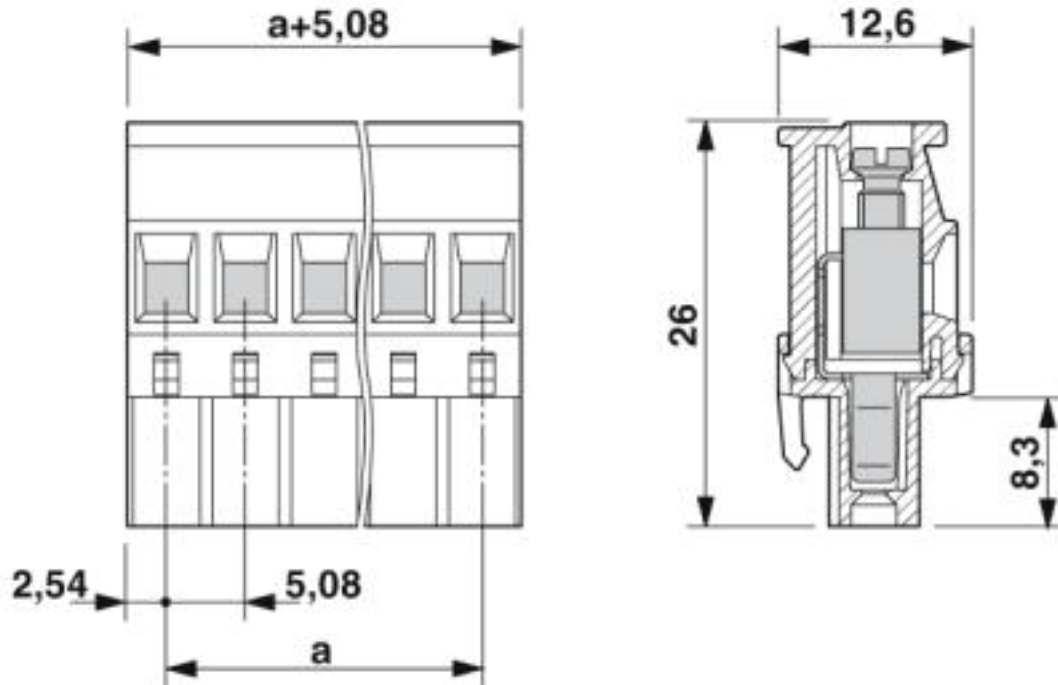
# Printed-circuit board connector - MVSTBW 2,5/ 4-ST-5,08 BK - 1836901

Diagram



Type: MVSTB(R/W) 2,5/...-ST-5,08 with MSTBW 2,5/...-G-5,08

Dimensional drawing



Approvals

Approvals

# Printed-circuit board connector - MVSTBW 2,5/ 4-ST-5,08 BK - 1836901

## Approvals

Approvals

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

Ex Approvals

### Approval details

|                            |  |   |                 |
|----------------------------|--|---|-----------------|
| CSA                        |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | LR13631-2585950 |
|                            |  | B   | D               |
| Nominal voltage UN         |  | 300 V   | 300 V           |
| Nominal current IN         |  | 10 A  | 10 A            |
| mm <sup>2</sup> /AWG/kcmil |  | 28-12   | 28-12           |

|                            |  |   |                |
|----------------------------|--|---|----------------|
| IECEE CB Scheme            |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-60988-B1B2 |
| Nominal voltage UN         |  | 250 V   |                |
| Nominal current IN         |  | 12 A  |                |
| mm <sup>2</sup> /AWG/kcmil |  | 0.2-2.5   |                |

|   |  |   |          |
|---|--|---|----------|
| VDE Gutachten mit Fertigungsüberwachung |  | <a href="http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx">http://www2.vde.com/de/Institut/Online-Service/VDE-gepruefteProdukte/Seiten/Online-Suche.aspx</a> | 40004701 |
| Nominal voltage UN                      |  | 250 V   |          |
| Nominal current IN                      |  | 12 A  |          |
| mm <sup>2</sup> /AWG/kcmil              |  | 0.2-2.5   |          |

|     |  |  |         |
|-----|--|--|---------|
| EAC |  |  | B.01742 |
|-----|--|--|---------|

|                    |  |   |                 |
|--------------------|--|---|-----------------|
| cULus Recognized   |  | <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               |
| Nominal voltage UN |  | 300 V   | 300 V           |



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### Approvals

|                            | B     | D     |
|----------------------------|-------|-------|
| Nominal current IN         | 15 A  | 10 A  |
| mm <sup>2</sup> /AWG/kcmil | 30-12 | 30-12 |

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