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The figure shows a 10-position

Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 15, Pitch: 5 mm, Connection method: Screw connection, Color: green, Contact surface: Tin

Why buy this product

version of the product

- For larger numbers of positions up to 24-pos., visit: phoenixcontact.net/products
- MSTB plugs for vertical plug-in direction



Key commercial data

| Packing unit | 50 pc |
|--------------------------------------|-----------------|
| GTIN | 4 017918 045081 |
| Weight per Piece (excluding packing) | 30.38 g |
| Custom tariff number | 85366990 |
| Country of origin | Germany |

Technical data

Dimensions

| Pitch | 5 mm |
|-------------|-------|
| Dimension a | 70 mm |

General

| Range of articles | MVSTBW 2,5/ST |
|-----------------------------|---------------|
| 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 |



Technical data

General

| Connection in acc. with standard | EN-VDE |
|---|---------|
| Nominal current I _N | 12 A |
| Nominal cross section | 2.5 mm² |
| Maximum load current | 12 A |
| Insulating material | PA |
| Inflammability class according to UL 94 | V0 |
| Internal cylindrical gage | A3 |
| Stripping length | 7 mm |
| Number of positions | 15 |
| Screw thread | M3 |
| Tightening torque, min | 0.5 Nm |
| Tightening torque max | 0.6 Nm |

Connection data

| Conductor cross section solid min. 0.2 mm² Conductor cross section stranded min. 0.2 mm² Conductor cross section stranded max. 2.5 mm² Conductor cross section stranded, with ferrule without plastic sleeve min. 0.25 mm² Conductor cross section stranded, with ferrule without plastic sleeve max. 2.5 mm² Conductor cross section stranded, with ferrule with plastic sleeve min. 0.25 mm² Conductor cross section stranded, with ferrule with plastic sleeve min. 2.5 mm² Conductor cross section stranded, with ferrule with plastic sleeve max. 2.5 mm² Conductor cross section stranded, with ferrule with plastic sleeve max. 2.5 mm² Conductor cross section stranded, with ferrule with plastic sleeve max. 2.5 mm² Conductor cross section stranded, with ferrule with plastic sleeve max. 1.2 2 conductors with same cross section, solid min. 1.2 2 conductors with same cross section, stranded min. 0.2 mm² 2 conductors with same cross section, stranded max. 1.5 mm² 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 0.5 mm² 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. 1.5 mm² 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. 1.5 mm² 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | Connection data | |
|---|---|----------------------|
| Conductor cross section stranded min. Conductor cross section stranded max. Conductor cross section stranded, with ferrule without plastic sleeve min. Conductor cross section stranded, with ferrule without plastic sleeve max. Conductor cross section stranded, with ferrule without plastic sleeve max. Conductor cross section stranded, with ferrule with plastic sleeve min. Conductor cross section stranded, with ferrule with plastic sleeve min. Conductor cross section stranded, with ferrule with plastic sleeve max. Conductor cross section stranded, with ferrule with plastic sleeve max. 2.5 mm² Conductor cross section AWG/kcmil min. 24 Conductor cross section AWG/kcmil max 12 2 conductors with same cross section, solid min. 2 conductors with same cross section, solid max. 1 mm² 2 conductors with same cross section, stranded min. 2 conductors with same cross section, stranded max. 1.5 mm² 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section stranded, with ferrule without plastic sleeve min. Conductor cross section stranded, with ferrule without plastic sleeve max. Conductor cross section stranded, with ferrule without plastic sleeve max. Conductor cross section stranded, with ferrule with plastic sleeve min. Conductor cross section stranded, with ferrule with plastic sleeve min. Conductor cross section stranded, with ferrule with plastic sleeve max. Conductor cross section stranded, with ferrule with plastic sleeve max. Conductor cross section AWG/kcmil min. 24 Conductor cross section AWG/kcmil max 12 2 conductors with same cross section, solid min. 0.2 mm² 2 conductors with same cross section, slid max. 1 mm² 2 conductors with same cross section, stranded min. 0.2 mm² 2 conductors with same cross section, stranded max. 1.5 mm² 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 2 conductors with same cross section, stranded, ferrules with plastic sleeve, min. 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | Conductor cross section solid max. | 2.5 mm ² |
| Conductor cross section stranded, with ferrule without plastic sleeve min. Conductor cross section stranded, with ferrule without plastic sleeve max. Conductor cross section stranded, with ferrule with plastic sleeve min. Conductor cross section stranded, with ferrule with plastic sleeve min. Conductor cross section stranded, with ferrule with plastic sleeve max. Conductor cross section stranded, with ferrule with plastic sleeve max. Conductor cross section AWG/kcmil min. 24 Conductor cross section AWG/kcmil max 12 2 conductors with same cross section, solid min. 2 conductors with same cross section, solid max. 1 mm² 2 conductors with same cross section, stranded min. 2 conductors with same cross section, stranded max. 1.5 mm² 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. 1.5 mm² 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | Conductor cross section stranded min. | 0.2 mm² |
| min. Conductor cross section stranded, with ferrule without plastic sleeve max. Conductor cross section stranded, with ferrule with plastic sleeve min. Conductor cross section stranded, with ferrule with plastic sleeve max. Conductor cross section stranded, with ferrule with plastic sleeve max. Conductor cross section AWG/kcmil min. Conductor cross section AWG/kcmil max 12 2 conductors with same cross section, solid min. 2 conductors with same cross section, solid max. 1 mm² 2 conductors with same cross section, stranded min. 2 conductors with same cross section, stranded max. 1.5 mm² 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 1 mm² 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 1 mm² 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. 1.5 mm² | Conductor cross section stranded max. | 2.5 mm ² |
| max. Conductor cross section stranded, with ferrule with plastic sleeve min. Conductor cross section stranded, with ferrule with plastic sleeve max. Conductor cross section AWG/kcmil min. Conductor cross section AWG/kcmil max 12 2 conductors with same cross section, solid min. 2 conductors with same cross section, solid max. 1 mm² 2 conductors with same cross section, stranded min. 2 conductors with same cross section, stranded min. 2 conductors with same cross section, stranded max. 1.5 mm² 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. 1 mm² 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 1 mm² 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. 1 mm² 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. 1.5 mm² | | 0.25 mm ² |
| Conductor cross section Stranded, with ferrule with plastic sleeve max. Conductor cross section AWG/kcmil min. 24 Conductor cross section AWG/kcmil max 12 2 conductors with same cross section, solid min. 2 conductors with same cross section, solid max. 1 mm² 2 conductors with same cross section, stranded min. 2 conductors with same cross section, stranded min. 2 conductors with same cross section, stranded max. 1.5 mm² 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. 1 mm² 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. 1 mm² 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. 1 mm² 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. 1.5 mm² 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | · · | 2.5 mm² |
| Conductor cross section AWG/kcmil min. Conductor cross section AWG/kcmil max 12 2 conductors with same cross section, solid min. 2 conductors with same cross section, solid max. 1 mm² 2 conductors with same cross section, stranded min. 2 conductors with same cross section, stranded min. 2 conductors with same cross section, stranded max. 1.5 mm² 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. 1 mm² 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. 1 mm² 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. 1 mm² 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. 1 mm² 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. 1.5 mm² | Conductor cross section stranded, with ferrule with plastic sleeve min. | 0.25 mm² |
| Conductor cross section AWG/kcmil max 2 conductors with same cross section, solid min. 2 conductors with same cross section, solid max. 1 mm² 2 conductors with same cross section, stranded min. 2 conductors with same cross section, stranded max. 1.5 mm² 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. 1 mm² 1 mm² 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. 1.5 mm² 1.5 mm² | Conductor cross section stranded, with ferrule with plastic sleeve max. | 2.5 mm ² |
| 2 conductors with same cross section, solid min. 2 conductors with same cross section, solid max. 1 mm² 2 conductors with same cross section, stranded min. 2 conductors with same cross section, stranded max. 1.5 mm² 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. 1 mm² 1 mm² 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. 1.5 mm² 1.5 mm² | Conductor cross section AWG/kcmil min. | 24 |
| 2 conductors with same cross section, stranded min. 2 conductors with same cross section, stranded min. 2 conductors with same cross section, stranded max. 2 conductors with same cross section, stranded max. 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. 1 mm² 1 mm² 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. 1.5 mm² 1.5 mm² | Conductor cross section AWG/kcmil max | 12 |
| 2 conductors with same cross section, stranded min. 2 conductors with same cross section, stranded max. 1.5 mm² 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. 1 mm² 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. 1.5 mm² 1.5 mm² | 2 conductors with same cross section, solid min. | 0.2 mm ² |
| 2 conductors with same cross section, stranded max. 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. 1 mm² 1 mm² 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. 1.5 mm² 1.5 mm² | 2 conductors with same cross section, solid max. | 1 mm² |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. 1 mm² 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. 1.5 mm² | 2 conductors with same cross section, stranded min. | 0.2 mm ² |
| sleeve, min. 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. 1 mm² 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. 1.5 mm² | 2 conductors with same cross section, stranded max. | 1.5 mm ² |
| sleeve, max. 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. 0.5 mm² 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. 1.5 mm² | · | 0.25 mm ² |
| plastic sleeve, min. 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. 1.5 mm ² | | 1 mm² |
| plastic sleeve, max. | | 0.5 mm ² |
| Minimum AWG according to UL/CUL 30 | · · · · · · · · · · · · · · · · · · · | 1.5 mm² |
| | Minimum AWG according to UL/CUL | 30 |
| Maximum AWG according to UL/CUL 12 | Maximum AWG according to UL/CUL | 12 |



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 |

ETIM

| ETIM 3.0 | EC001121 |
|----------|----------|
| ETIM 4.0 | EC002638 |
| ETIM 5.0 | EC002638 |

UNSPSC

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

Approvals

Approvals

Approvals

 ${\tt UL\ Recognized\ /\ VDE\ Gutachten\ mit\ Fertigungs\"{u}berwachung\ /\ cUL\ Recognized\ /\ IECEE\ CB\ Scheme\ /\ CCA\ /\ CSA\ /\ EAC\ /\ cULus\ Recognized\ Necessaria (CCA)\ CSA\ /\ CSA\$

Ex Approvals

Approvals submitted

Approval details

| UL Recognized 51 | | | |
|-------------------------|-------|-------|--|
| | В | D | |
| mm²/AWG/kcmil | 30-12 | 30-12 | |
| Nominal current IN | 15 A | 10 A | |



Approvals

| | В | D |
|--------------------|-------|-------|
| Nominal voltage UN | 300 V | 300 V |

| VDE Gutachten mit Fertigungsüberwachung | |
|---|---------|
| | |
| mm²/AWG/kcmil | 0.2-2.5 |
| Nominal current IN | 12 A |
| Nominal voltage UN | 250 V |

| cUL Recognized 51 | | | |
|--------------------|-------|-------|--|
| | В | D | |
| mm²/AWG/kcmil | 30-12 | 30-12 | |
| Nominal current IN | 15 A | 10 A | |
| Nominal voltage UN | 300 V | 300 V | |

| IECEE CB Scheme CB | |
|--------------------|---------|
| | |
| mm²/AWG/kcmil | 0.2-2.5 |
| Nominal current IN | 12 A |
| Nominal voltage UN | 250 V |

| CCA | | |
|--------------------|---------|--|
| | | |
| mm²/AWG/kcmil | 0.2-2.5 | |
| Nominal current IN | 12 A | |
| Nominal voltage UN | 250 V | |

| CSA 4 | | |
|--------------------|-------|-------|
| | В | D |
| mm²/AWG/kcmil | 28-12 | 28-12 |
| Nominal current IN | 10 A | 10 A |
| Nominal voltage UN | 300 V | 300 V |

| | | $\neg \neg$ |
|-----|--|-------------|
| EAC | | |
| | | |



Approvals

cULus Recognized Sus

Accessories

Accessories

Coding element

Coding star - CR-MSTB - 1734401



Coding section, inserted into the recess in the header or the inverted plug, red insulating material

Coding profile - CP-MSTB - 1734634



Coding profile, is inserted into the slot on the plug or inverted header, red insulating material

Labeled terminal marker

Marker card - SK 5/3,8:FORTL.ZAHLEN - 0804183



Marker card, Card, white, labeled, Horizontal: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - (99)100, Mounting type: Adhesive, for terminal block width: 5 mm, Lettering field: 5 x 3.8 mm

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



Accessories

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

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 - DFK-MSTB 2,5/15-G - 0707222



Plug component, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 15, Pitch: 5 mm, Connection method: Solder/Slip-on connection, Color: green, Contact surface: Tin, Mounting: Direct mounting, Accessory order no. 5030172 can only be used in conjunction with MSTB 2,5/...ST and MSTBT 2,5/...ST.

Base strip - MSTBW 2,5/15-G - 1735989



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 15, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Soldering

Base strip - MSTBVA 2,5/15-G - 1755639



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 15, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Soldering



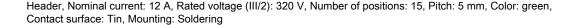
Accessories

Base strip - MSTBV 2,5/15-G - 1753699



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 15, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Soldering

Base strip - MSTB 2,5/15-G - 1754698



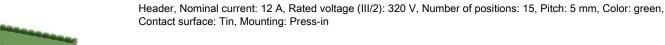


Base strip - EMSTBA 2,5/15-G - 1899977

Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 15, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Press-in



Base strip - EMSTBVA 2,5/15-G - 1914988





Base strip - MSTBA 2,5/15-G-LA - 1770614



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 15, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Soldering



Accessories

Base strip - MSTBA 2,5/15-G - 1757598

Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 15, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Soldering



Base strip - MSTB 2,5/15-G-LA - 1768312



Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 15, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Soldering

Base strip - MDSTBV 2,5/15-G1 - 1762978



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 15, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: 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 - MDSTB 2,5/15-G1 - 1762826



Header, Nominal current: 10 A, Rated voltage (III/2): 320 V, Number of positions: 15, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: 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 - SMSTBA 2,5/15-G - 1769939

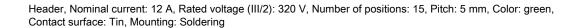


Header, Nominal current: 12 A, Rated voltage (III/2): 320 V, Number of positions: 15, Pitch: 5 mm, Color: green, Contact surface: Tin, Mounting: Soldering



Accessories

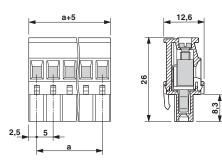
Base strip - SMSTB 2,5/15-G - 1769366





Drawings

Dimensioned drawing



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