

Printed-circuit board connector - PC 5/ 6-ST1-7,62 - 1777765

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Plug component, Nominal current: 41 A, Rated voltage (III/2): 1000 V, Number of positions: 6, Pitch: 7.62 mm, Connection method: Screw connection, Color: green, Contact surface: Tin

Product Features

- ✓ Unlimited 600 V UL approval
- ✓ CP-PC coding profile as protection against mismatching
- ✓ Maximum contact reliability due to integrated double steel spring
- ✓ High-capacity plugs with a current carrying capacity of 41 A and a connection capacity of 6 mm², stranded/10 mm², solid



Key commercial data

| | |
|----------------------|---|
| Packing unit | 1 PCE |
| GTIN |  4 046356 522908 |
| Custom tariff number | 85366990 |
| Country of origin | GERMANY |

Technical data

Dimensions / positions

| | |
|------------------------|---------|
| Length | 35.5 mm |
| Height | 19.7 mm |
| Pitch | 7.62 mm |
| Dimension a | 38.1 mm |
| Number of positions | 6 |
| Screw thread | M3 |
| Tightening torque, min | 0.5 Nm |
| Tightening torque max | 0.8 Nm |

Technical data

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Technical data

Technical data

| | |
|---|-------------------|
| Range of articles | PC 5/..-ST1 |
| Insulating material group | I |
| Rated surge voltage (III/3) | 8 kV |
| Rated surge voltage (III/2) | 8 kV |
| Rated surge voltage (II/2) | 6 kV |
| Rated voltage (III/2) | 1000 V |
| Rated voltage (II/2) | 1000 V |
| Nominal current I_N | 41 A |
| Nominal voltage U_N | 1000 V |
| Nominal cross section | 6 mm ² |
| Maximum load current | 41 A |
| Insulating material | PA |
| Inflammability class according to UL 94 | V0 |
| Internal cylindrical gage | A4 |
| Stripping length | 10 mm |
| Nominal voltage, UL/CUL Use Group B | 600 V |
| Nominal current, UL/CUL Use Group B | 41 A |
| Nominal voltage, UL/CUL Use Group C | 600 V |
| Nominal current, UL/CUL Use Group C | 41 A |

Connection data

| | |
|---|----------------------|
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 10 mm ² |
| Conductor cross section stranded min. | 0.2 mm ² |
| Conductor cross section stranded max. | 6 mm ² |
| Conductor cross section stranded, with ferrule without plastic sleeve min. | 0.25 mm ² |
| Conductor cross section stranded, with ferrule without plastic sleeve max. | 6 mm ² |
| Conductor cross section stranded, with ferrule with plastic sleeve min. | 0.25 mm ² |
| Conductor cross section stranded, with ferrule with plastic sleeve max. | 4 mm ² |
| Conductor cross section AWG/kcmil min. | 24 |
| Conductor cross section AWG/kcmil max | 10 |
| 2 conductors with same cross section, solid min. | 0.2 mm ² |
| 2 conductors with same cross section, solid max. | 2.5 mm ² |
| 2 conductors with same cross section, stranded min. | 0.2 mm ² |
| 2 conductors with same cross section, stranded max. | 4 mm ² |
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, min. | 0.25 mm ² |

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Technical data

Connection data

| | |
|---|----------------------|
| 2 conductors with same cross section, stranded, ferrules without plastic sleeve, max. | 1.5 mm ² |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 0.25 mm ² |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 2.5 mm ² |
| Minimum AWG according to UL/CUL | 24 |
| Maximum AWG according to UL/CUL | 8 |

Classifications

ETIM

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

UNSPSC

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

eCl@ss

| | |
|------------|----------|
| eCl@ss 4.0 | 272607xx |
| eCl@ss 4.1 | 27260701 |
| eCl@ss 5.0 | 27260701 |
| eCl@ss 5.1 | 27141190 |
| eCl@ss 6.0 | 27260704 |
| eCl@ss 7.0 | 27440402 |

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / GOST / GOST / cULus Recognized

Printed-circuit board connector - PC 5/ 6-ST1-7,62 - 1777765

Approvals

Ex Approvals

Approvals submitted

Approval details

| | | |
|--------------------------------|-------|-------|
| UL Recognized | | |
| | B | C |
| mm ² /AWG/kcmil | 24-8 | 24-8 |
| Nominal current I _N | 41 A | 41 A |
| Nominal voltage U _N | 600 V | 600 V |

| | | |
|--------------------------------|-------|-------|
| cUL Recognized | | |
| | B | C |
| mm ² /AWG/kcmil | 24-8 | 24-8 |
| Nominal current I _N | 41 A | 41 A |
| Nominal voltage U _N | 600 V | 600 V |

| | | |
|------|--|--|
| GOST | | |
|------|--|--|

| | | |
|------|--|--|
| GOST | | |
|------|--|--|

| | | |
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| cULus Recognized | | |
|------------------|--|--|

Accessories

Accessories

Tools

Printed-circuit board connector - PC 5/ 6-ST1-7,62 - 177765

Accessories

Phillips-screwdriver - SZK PH1 VDE - 1205150



Screwdriver, PH crosshead, VDE insulated, size: PH 1 x 80 mm, 2-component grip, with non-slip grip

Phillips-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

Coding profile - CP-PC RD - 1701967



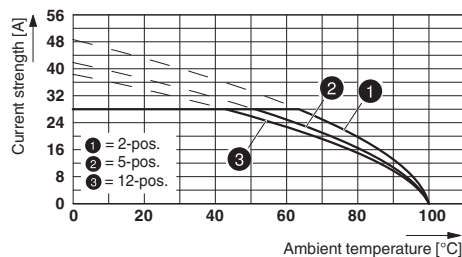
Coding profile, for plugging into the coding ribs of the plug at a later date, insulating material, color: Red

Drawings

Diagram

Type:
PC
5/...-
ST1-7,62
with
PCVK
4-7,62

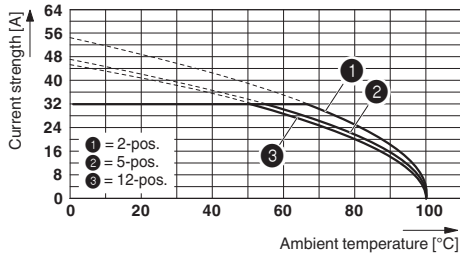
Diagram



Derating curve for: PC 5/...-ST1-7,62 with PC 4/...-G-7,62
Conductor cross section: 4 mm²

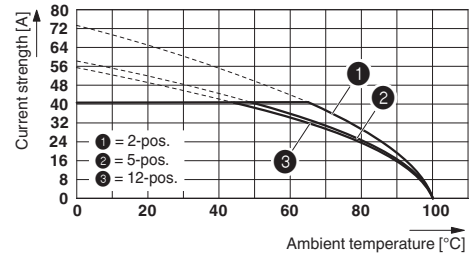
Printed-circuit board connector - PC 5/ 6-ST1-7,62 - 177765

Diagram



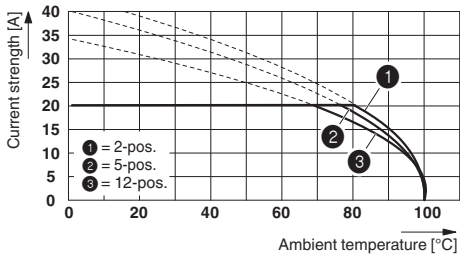
Derating curve for: PC 5/...-ST1-7,62 with PC 5/...-G-7,62
Conductor cross section: 6 mm²

Diagram



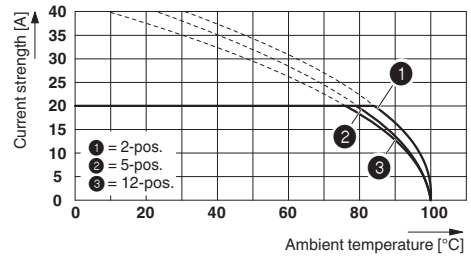
Derating curve for: PC 5/...-ST1-7,62 with PC 5/...-G-7,62
Conductor cross section: 10 mm²

Diagram



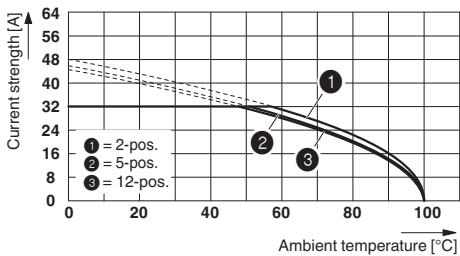
Derating curve for: PC 5/...-ST1-7,62 with PCV 4/...-G-7,62
Conductor cross section: 4 mm²

Diagram



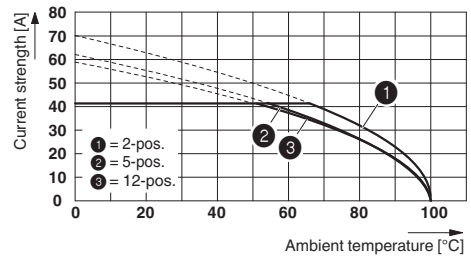
Derating curve for: PC 5/...-ST1-7,62 with PCV 4/...-G-7,62
Conductor cross section: 6 mm²

Diagram



Derating curve for: PC 5/...-ST1-7,62 with PCV 5/...-G-7,62
Conductor cross section: 6 mm²

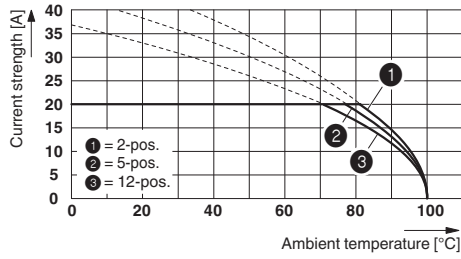
Diagram



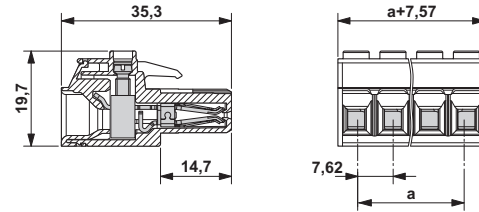
Derating curve for: PC 5/...-ST1-7,62 with PCV 5/...-G-7,62
Conductor cross section: 10 mm²

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Diagram



Dimensioned drawing



Derating curve for: PC 5/...-ST1-7,62 with PC 4/...-G-7,62
Conductor cross section: 6 mm²

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Dimensioned drawing

