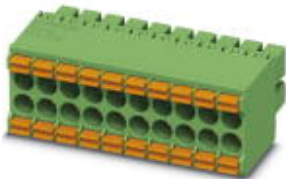


## Printed-circuit board connector - DFMC 1,5/ 3-ST-3,5 - 1790111

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://download.phoenixcontact.com>)

Plug, nominal current: 8 A, rated voltage (III/2): 160 V, number of positions: 3 with 6 contacts, pitch: 3.5 mm, connection method: spring-cage connection, color: green, contact surface: tin



The figure shows a 10-pos. version with 20 contacts

### Product Features

- ✓ Combination with very flat DMC headers
- ✓ Versions with and without screw flanges and Lock & Release levers
- ✓ Ultra-flat design height of 13.3 mm
- ✓ Conductor cross section of up to 1.5 mm<sup>2</sup>
- ✓ Fast conductor connection by means of Push-in direct plug-in technology
- ✓ Lock & Release levers lock the plug to the header and also serve as a release tool



### Key commercial data

|                                      |          |
|--------------------------------------|----------|
| Packing unit                         | 1 pc     |
| Weight per Piece (excluding packing) | 3.6 GRM  |
| Custom tariff number                 | 85366990 |
| Country of origin                    | Germany  |

### Technical data

#### Dimensions

|             |          |
|-------------|----------|
| Length      | 22.65 mm |
| Height      | 13.25 mm |
| Pitch       | 3.5 mm   |
| Dimension a | 7 mm     |

#### General

|                           |                 |
|---------------------------|-----------------|
| Range of articles         | DFMC 1,5/...-ST |
| Insulating material group | I               |

# Printed-circuit board connector - DFMC 1,5/ 3-ST-3,5 - 1790111

## Technical data

### General

|   |                     |
|---|---------------------|
| Rated surge voltage (III/3)             | 2.5 kV              |
| Rated surge voltage (III/2)             | 2.5 kV              |
| Rated surge voltage (II/2)              | 2.5 kV              |
| Rated voltage (III/3)                   | 160 V               |
| Rated voltage (III/2)                   | 160 V               |
| Rated voltage (II/2)                    | 250 V               |
| Connection in acc. with standard        | EN-VDE              |
| Nominal current $I_N$                   | 8 A                 |
| Nominal cross section                   | 1.5 mm <sup>2</sup> |
| Maximum load current                    | 8 A                 |
| Insulating material                     | PA                  |
| Inflammability class according to UL 94 | V0                  |
| Internal cylindrical gage               | A1                  |
| Stripping length                        | 10 mm               |
| Number of positions                     | 3                   |

### Connection data

|  |                      |
|--|----------------------|
| Conductor cross section solid min.   | 0.2 mm <sup>2</sup>  |
| Conductor cross section solid max.   | 1.5 mm <sup>2</sup>  |
| Conductor cross section stranded min.                                      | 0.2 mm <sup>2</sup>  |
| Conductor cross section stranded max.                                      | 1.5 mm <sup>2</sup>  |
| Conductor cross section stranded, with ferrule without plastic sleeve min. | 0.25 mm <sup>2</sup> |
| Conductor cross section stranded, with ferrule without plastic sleeve max. | 1.5 mm <sup>2</sup>  |
| Conductor cross section stranded, with ferrule with plastic sleeve min.    | 0.25 mm <sup>2</sup> |
| Conductor cross section stranded, with ferrule with plastic sleeve max.    | 0.75 mm <sup>2</sup> |
| Conductor cross section AWG/kcmil min.                                     | 24                   |
| Conductor cross section AWG/kcmil max                                      | 16                   |
| Minimum AWG according to UL/CUL  | 16                   |
| Maximum AWG according to UL/CUL  | 24                   |

## Classifications

### 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 |

## Printed-circuit board connector - DFMC 1,5/ 3-ST-3,5 - 1790111

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 7.0 | 27440402 |
| eCl@ss 8.0 | 27440402 |

#### ETIM

|          |          |
|----------|----------|
| 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

UL Recognized / cUL Recognized / VDE Gutachten mit Fertigungsüberwachung / IECCEB Scheme / cULus Recognized

#### Ex Approvals


#### Approvals submitted


#### Approval details


|   |       |       |   |
|---|-------|-------|---|
| UL Recognized  |       |       |   |
|   |       | B     | C |
| mm²/AWG/kcmil   | 16-24 | 16-24 |   |
| Nominal current I <sub>N</sub>  | 8 A   | 8 A   |   |
| Nominal voltage U <sub>N</sub>  | 150 V | 50 V  |   |


## Printed-circuit board connector - DFMC 1,5/ 3-ST-3,5 - 1790111

### Approvals

|  |       |       |   |
|--|-------|-------|---|
| cUL Recognized  |       |       |   |
|  |       | B     | C |
| mm²/AWG/kcmil  | 16-24 | 16-24 |   |
| Nominal current I <sub>N</sub>   | 8 A   | 8 A   |   |
| Nominal voltage U <sub>N</sub>   | 150 V | 50 V  |   |

|   |         |
|---|---------|
| VDE Gutachten mit Fertigungsüberwachung  |         |
|   |         |
| mm²/AWG/kcmil   | 0.2-1.5 |
| Nominal current I <sub>N</sub>  | 8 A     |
| Nominal voltage U <sub>N</sub>  | 160 V   |

|   |       |
|---|-------|
| IECEE CB Scheme  |       |
|   |       |
| Nominal current I <sub>N</sub>  | 8 A   |
| Nominal voltage U <sub>N</sub>  | 160 V |

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

### Accessories

#### Accessories

#### Coding element

Coding profile - CP-DMC 1,5-THR NAT - 1790647

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



## Printed-circuit board connector - DFMC 1,5/ 3-ST-3,5 - 1790111

### Accessories

#### Crimping tool

Crimping pliers - CRIMPFOX 6 - 1212034



Crimping pliers, for ferrules as per DIN 46228 section 1+4, 0.25 - 6.0 mm<sup>2</sup>, insertion from the side, trapezoidal crimp

---

#### Screwdriver tools

Screwdriver - SZS 0,4X2,5 VDE - 1205037



Screwdriver, slot-headed, VDE insulated, size: 0.4 x 2.5 x 80 mm, 2-component grip, with non-slip grip

---

#### Additional products

Printed-circuit board connector - DMC 1,5/ 3-G1-3,5 P20THR - 1786840



Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 3, Pitch: 3.5 mm, Color: black, Contact surface: Tin, Assembly: SMD/THT/THR

---

Printed-circuit board connector - DMCV 1,5/ 3-G1-3,5 P20THR - 1787218



Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 3, Pitch: 3.5 mm, Color: black, Contact surface: Tin, Assembly: SMD/THT/THR

## Printed-circuit board connector - DFMC 1,5/ 3-ST-3,5 - 1790111

### Accessories

Printed-circuit board connector - DMC 1,5/ 3-G1-3,5 P20THR R24-2 - 1816140



Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 3, Pitch: 3.5 mm, Color: black, Contact surface: Tin, Assembly: Taped SMD/THT/THR components

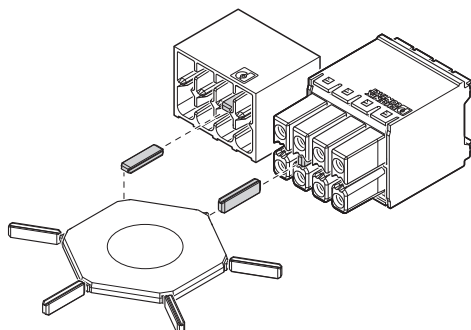
Printed-circuit board connector - DMCV 1,5/ 3-G1-3,5 P20THR R24 - 1818588



Header, Nominal current: 8 A, Rated voltage (III/2): 160 V, Number of positions: 3, Pitch: 3.5 mm, Color: black, Contact surface: Tin, Assembly: Taped SMD/THT/THR components

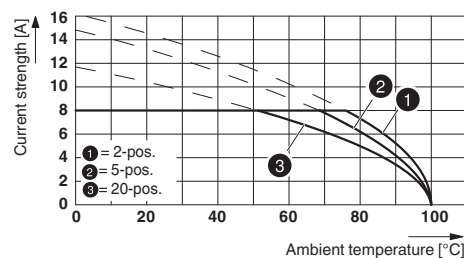
### Drawings

Schematic diagram



Use of the CP-DMC... coding profile

Diagram



Type: DFMC 1,5/...-ST-3,5 with DMC 1,5/...-G1-3,5 P20 THR

Dimensioned drawing

