

## Printed-circuit board connector - FMC 0,5/ 3-ST-2,54 - 1821106

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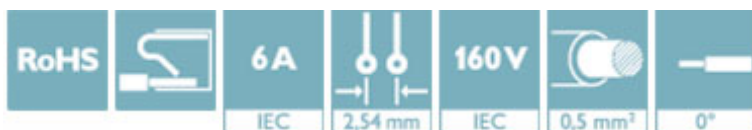
Plug component, nominal current: 6 A, rated voltage (III/2): 160 V, number of positions: 3, pitch: 2.54 mm, connection method: Push-in spring connection, color: black, contact surface: Gold



The figure shows a 10-position version of the product

### Why buy this product

- ✓ Gold-plated contacts ensure transfer quality remains stable over the long term
- ✓ Time saving push-in connection, tools not required
- ✓ Defined contact force ensures that contact remains stable over the long term
- ✓ Intuitive use through colour coded actuation lever
- ✓ Optimized for tight installation situations: operation and conductor connection from one direction



### Key Commercial Data

|              |               |
|--------------|---------------|
| Packing unit | 200 STK       |
| GTIN         |               |
| GTIN         | 4046356789165 |

### Technical data

#### Dimensions

|              |          |
|--------------|----------|
| Length [ l ] | 15.85 mm |
| Width [ w ]  | 8.12 mm  |
| Height [ h ] | 5.35 mm  |
| Pitch        | 2.54 mm  |
| Dimension a  | 5.08 mm  |

#### General

|                     |                           |
|---------------------|---------------------------|
| Range of articles   | FMC 0,5/...-ST            |
| Type of contact     | Female connector          |
| Number of positions | 3                         |
| Connection method   | Push-in spring connection |

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## Technical data

### General

|                                        |                     |
|----------------------------------------|---------------------|
| Insulating material group              | IIIa                |
| 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)                  | 32 V                |
| Rated voltage (III/2)                  | 160 V               |
| Rated voltage (II/2)                   | 160 V               |
| Connection in acc. with standard       | EN-VDE              |
| Nominal current $I_N$                  | 6 A                 |
| Nominal cross section                  | 0.5 mm <sup>2</sup> |
| Maximum load current                   | 6 A                 |
| Insulating material                    | LCP                 |
| Flammability rating according to UL 94 | V0                  |
| Stripping length                       | 7 mm                |

### Connection data

|                                                                            |                      |
|----------------------------------------------------------------------------|----------------------|
| Conductor cross section solid min.                                         | 0.14 mm <sup>2</sup> |
| Conductor cross section solid max.                                         | 0.5 mm <sup>2</sup>  |
| Conductor cross section flexible min.                                      | 0.14 mm <sup>2</sup> |
| Conductor cross section flexible max.                                      | 0.5 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. | 0.34 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve min.    | 0.14 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.    | 0.25 mm <sup>2</sup> |
| Conductor cross section AWG min.                                           | 26                   |
| Conductor cross section AWG max.                                           | 20                   |

### Standards and Regulations

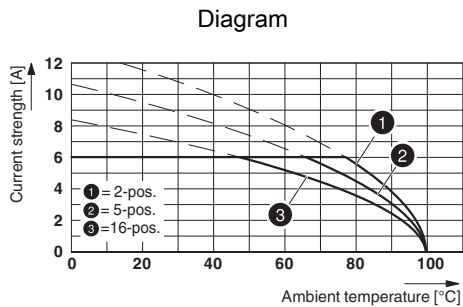
|                                        |        |
|----------------------------------------|--------|
| Connection in acc. with standard       | EN-VDE |
| Flammability rating according to UL 94 | V0     |

### Environmental Product Compliance

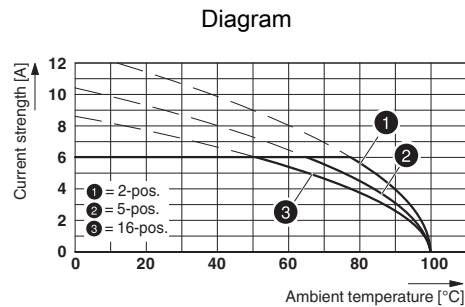
|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

## Drawings

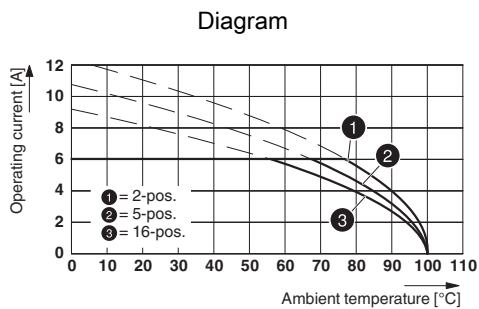
Printed-circuit board connector - FMC 0,5/ 3-ST-2,54 - 1821106



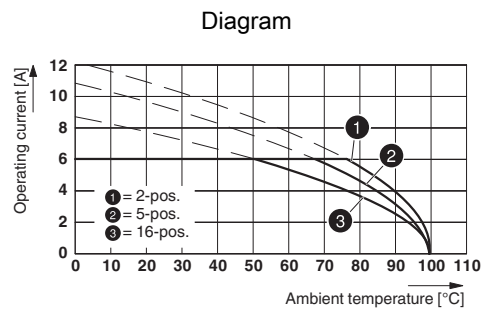
Type: FMC 0,5/...-ST-2,54 with MC 0,5/...-G-2,54 P20 THR R..



Type: FMC 0,5/...-ST-2,54 with MCV 0,5/...-G-2,54 P20 THR R..



Type FMC 0,5/...-ST-2,54 with MCV 0,5/...-G-2,54 SMD R..



Type: FMC 0,5/...-ST-2,54 with MC 0,5/...-G-2,54 SMD R..

Approvals

Approvals

Approvals

cULus Recognized / VDE Gutachten mit Fertigungsüberwachung / IECEx CB Scheme / EAC

Ex Approvals

Approval details

|                                |                                                                                     |                                                                                                                                                       |                 |
|--------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 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> | E60425-19920306 |
|                                | B                                                                                   | C                                                                                                                                                     |                 |
| mm²/AWG/kcmil                  | 26-20                                                                               | 26-20                                                                                                                                                 |                 |
| Nominal current I <sub>N</sub> | 6 A                                                                                 | 6 A                                                                                                                                                   |                 |
| Nominal voltage U <sub>N</sub> | 150 V                                                                               | 50 V                                                                                                                                                  |                 |

## Printed-circuit board connector - FMC 0,5/ 3-ST-2,54 - 1821106

### Approvals

|                                            |                                                                                   |                                                                                                                                                                                                              |          |
|--------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| VDE Gutachten mit<br>Fertigungsüberwachung |  | <a href="http://www.vde.com/en/Institute/OnlineService/VDE-approved-products/Pages/Online-Search.aspx">http://www.vde.com/en/Institute/OnlineService/<br/>VDE-approved-products/Pages/Online-Search.aspx</a> | 40042258 |
|                                            |                                                                                   |                                                                                                                                                                                                              |          |
| mm²/AWG/kcmil                              | 0.14-0.5                                                                          |                                                                                                                                                                                                              |          |
| Nominal current I <sub>N</sub>             | 6 A                                                                               |                                                                                                                                                                                                              |          |
| Nominal voltage U <sub>N</sub>             | 160 V                                                                             |                                                                                                                                                                                                              |          |

|                                |  |                                                                                   |                                                           |              |
|--------------------------------|--|-----------------------------------------------------------------------------------|-----------------------------------------------------------|--------------|
| IECEE CB Scheme                |  |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-55663-B1 |
|                                |  |                                                                                   |                                                           |              |
| mm²/AWG/kcmil                  |  | 0.14-0.5                                                                          |                                                           |              |
| Nominal current I <sub>N</sub> |  | 6 A                                                                               |                                                           |              |
| Nominal voltage U <sub>N</sub> |  | 160 V                                                                             |                                                           |              |

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

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PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>