

## COMBI receptacle - PPC 6/6 - 3000698

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COMBI receptacle, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in / plug connection, number of connections: 2, number of positions: 6, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 20 - 8, width: 49.2 mm, height: 24.7 mm, color: gray

### Why buy this product

- ✓ For secure and space-saving accommodation of plug-in contacts in cable ducts and distributor shafts
- ✓ The Push-in technology COMBI couplings for self-assembly provide solutions that users can implement themselves
- ✓ Tested for railway applications

**RoHS**

### Key Commercial Data

|              |                                                                                      |
|--------------|--------------------------------------------------------------------------------------|
| Packing unit | 25 STK                                                                               |
| GTIN         |  |
| GTIN         | 4046356751995                                                                        |

### Technical data

#### General

|                                        |                                                       |
|----------------------------------------|-------------------------------------------------------|
| Number of positions                    | 6                                                     |
| Number of levels                       | 1                                                     |
| Number of connections                  | 2                                                     |
| Potentials                             | 6                                                     |
| Nominal cross section                  | 6 mm <sup>2</sup>                                     |
| Color                                  | gray                                                  |
| Insulating material                    | PA                                                    |
| Flammability rating according to UL 94 | V0                                                    |
| Area of application                    | Railway industry                                      |
|                                        | Machine building                                      |
|                                        | Plant engineering                                     |
| Maximum load current                   | 41 A (with 6 mm <sup>2</sup> conductor cross section) |
| Rated surge voltage                    | 8 kV                                                  |

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## Technical data

### General

|                                                                         |                                                       |
|-------------------------------------------------------------------------|-------------------------------------------------------|
| Degree of pollution                                                     | 3                                                     |
| Overvoltage category                                                    | III                                                   |
| Insulating material group                                               | I                                                     |
| Maximum power dissipation for nominal condition                         | 1.31 W                                                |
| Maximum load current                                                    | 41 A (with 6 mm <sup>2</sup> conductor cross section) |
| Nominal current I <sub>N</sub>                                          | 41 A                                                  |
| Nominal voltage U <sub>N</sub>                                          | 1000 V                                                |
| Open side panel                                                         | Yes                                                   |
| Relative insulation material temperature index (Elec., UL 746 B)        | 130 °C                                                |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 125 °C                                                |
| Static insulating material application in cold                          | -60 °C                                                |
| Behavior in fire for rail vehicles (DIN 5510-2)                         | Test passed                                           |
| Flame test method (DIN EN 60695-11-10)                                  | V0                                                    |
| Oxygen index (DIN EN ISO 4589-2)                                        | >32 %                                                 |
| NF F16-101, NF F10-102 Class I                                          | 2                                                     |
| NF F16-101, NF F10-102 Class F                                          | 2                                                     |
| Surface flammability NFPA 130 (ASTM E 162)                              | passed                                                |
| Specific optical density of smoke NFPA 130 (ASTM E 662)                 | passed                                                |
| Smoke gas toxicity NFPA 130 (SMP 800C)                                  | passed                                                |
| Calorimetric heat release NFPA 130 (ASTM E 1354)                        | 27,5 MJ/kg                                            |
| Fire protection for rail vehicles (DIN EN 45545-2) R22                  | HL 1 - HL 3                                           |
| Fire protection for rail vehicles (DIN EN 45545-2) R23                  | HL 1 - HL 3                                           |
| Fire protection for rail vehicles (DIN EN 45545-2) R24                  | HL 1 - HL 3                                           |
| Fire protection for rail vehicles (DIN EN 45545-2) R26                  | HL 1 - HL 3                                           |

### Dimensions

|                 |         |
|-----------------|---------|
| Width           | 49.2 mm |
| End cover width | 2.2 mm  |
| Length          | 47 mm   |
| Height          | 24.7 mm |
| Pitch           | 8.2 mm  |

### Connection data

|                                       |                           |
|---------------------------------------|---------------------------|
| Connection method                     | Push-in / plug connection |
| Connection in acc. with standard      | IEC 61984                 |
| Conductor cross section solid min.    | 0.5 mm <sup>2</sup>       |
| Conductor cross section solid max.    | 10 mm <sup>2</sup>        |
| Conductor cross section AWG min.      | 20                        |
| Conductor cross section AWG max.      | 8                         |
| Conductor cross section flexible min. | 0.5 mm <sup>2</sup>       |
| Conductor cross section flexible max. | 6 mm <sup>2</sup>         |

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## Technical data

### Connection data

|                                                                                         |                     |
|-----------------------------------------------------------------------------------------|---------------------|
| Min. AWG conductor cross section, flexible                                              | 20                  |
| Max. AWG conductor cross section, flexible                                              | 10                  |
| Conductor cross section flexible, with ferrule without plastic sleeve min.              | 0.5 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve max.              | 6 mm <sup>2</sup>   |
| Conductor cross section flexible, with ferrule with plastic sleeve min.                 | 0.5 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.                 | 6 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> |
| Stripping length                                                                        | 12 mm               |
| Internal cylindrical gage                                                               | A5                  |

### Standards and Regulations

|                                                        |                                                 |
|--------------------------------------------------------|-------------------------------------------------|
| Connection in acc. with standard                       | IEC 61984                                       |
| Flammability rating according to UL 94                 | V0                                              |
| Fire protection for rail vehicles (DIN EN 45545-2) R22 | HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R23 | HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R24 | HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R26 | HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 |

### Environmental Product Compliance

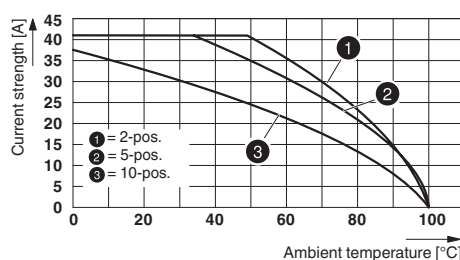
|            |                                                         |
|------------|---------------------------------------------------------|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

## Drawings

### Circuit diagram



### Diagram



## Approvals

### Approvals

### Approvals

UL Recognized / cUL Recognized / CSA / EAC / VDE report with production monitoring / IEC CB Scheme / BV / LR / DNV GL / cULus Recognized

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## Approvals

Ex Approvals

### Approval details

|                    |                                                                                   |                                                                                                                                                       |              |
|--------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| UL 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> | FILE E 60425 |
|                    | B                                                                                 | C                                                                                                                                                     |              |
| mm²/AWG/kcmil      | 20-8                                                                              | 20-8                                                                                                                                                  |              |
| Nominal current IN | 40 A                                                                              | 40 A                                                                                                                                                  |              |
| Nominal voltage UN | 600 V                                                                             | 600 V                                                                                                                                                 |              |

|                    |                                                                                    |                                                                                                                                                       |              |
|--------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| cUL 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> | FILE E 60425 |
|                    | B                                                                                  | C                                                                                                                                                     |              |
| mm²/AWG/kcmil      | 20-8                                                                               | 20-8                                                                                                                                                  |              |
| Nominal current IN | 40 A                                                                               | 40 A                                                                                                                                                  |              |
| Nominal voltage UN | 600 V                                                                              | 600 V                                                                                                                                                 |              |

|                    |                                                                                     |                                                                                                                                         |       |
|--------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|
| CSA                |  | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
|                    | B                                                                                   | C                                                                                                                                       |       |
| mm²/AWG/kcmil      | 20-8                                                                                | 20-8                                                                                                                                    |       |
| Nominal current IN | 36 A                                                                                | 36 A                                                                                                                                    |       |
| Nominal voltage UN | 600 V                                                                               | 600 V                                                                                                                                   |       |

|     |                                                                                     |                     |
|-----|-------------------------------------------------------------------------------------|---------------------|
| EAC |  | 7500651.22.01.00246 |
|-----|-------------------------------------------------------------------------------------|---------------------|

|                                          |                                                                                     |                                                                                                                                                                                                              |          |
|------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| VDE report with<br>production monitoring |  | <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> | 40043445 |
| Nominal voltage UN                       | 1000 V                                                                              |                                                                                                                                                                                                              |          |

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### Approvals

|                    |                                                                                   |                                                           |              |
|--------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------|--------------|
| IECEE CB Scheme    |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | DE1-56601/B1 |
| Nominal voltage UN |                                                                                   | 1000 V                                                    |              |

|    |                                                                                   |                                                                                                                                                                                                                               |          |
|----|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| BV |  | <a href="http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials">http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials</a> | 45602/A0 |
|----|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|

|    |                                                                                   |                                                         |          |
|----|-----------------------------------------------------------------------------------|---------------------------------------------------------|----------|
| LR |  | <a href="http://www.lr.org/en">http://www.lr.org/en</a> | 16/20057 |
|----|-----------------------------------------------------------------------------------|---------------------------------------------------------|----------|

|        |  |                                                                           |            |
|--------|--|---------------------------------------------------------------------------|------------|
| DNV GL |  | <a href="http://exchange.dnv.com/tari/">http://exchange.dnv.com/tari/</a> | TAE000015D |
|--------|--|---------------------------------------------------------------------------|------------|

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

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