

# PTV 4-QUATTRO RD - Feed-through terminal block



1291897

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Feed-through terminal block, nom. voltage: 1000 V, nominal current: 32 A, number of connections: 4, connection method: Push-in connection, Rated cross section: 4 mm<sup>2</sup>, cross section: 0.2 mm<sup>2</sup> - 6 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: red

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## Your advantages

- Clear wiring, thanks to lateral conductor entry
- The compact design enables wiring in a confined space
- The Push-in connection terminal blocks are characterized by the system features of the CLIPLINE complete system
- In addition to the testing option in the double function shaft, all terminal blocks provide an additional test pick-off

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## Technical data

### Notes

#### General

|      |                                                                                              |
|------|----------------------------------------------------------------------------------------------|
| Note | The max. load current must not be exceeded by the total current of all connected conductors. |
|------|----------------------------------------------------------------------------------------------|

### Product properties

|                       |                                |
|-----------------------|--------------------------------|
| Product type          | Multi-conductor terminal block |
| Product family        | PTV                            |
| Area of application   | Railway industry               |
|                       | Machine building               |
|                       | Plant engineering              |
|                       | Process industry               |
| Number of connections | 4                              |
| Number of rows        | 1                              |
| Potentials            | 1                              |

#### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution  | 3   |

### Electrical properties

|                                                 |        |
|-------------------------------------------------|--------|
| Maximum power dissipation for nominal condition | 1.02 W |
|-------------------------------------------------|--------|

### Connection data

|                                                                                                                   |                                                              |
|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| Number of connections per level                                                                                   | 4                                                            |
| Nominal cross section                                                                                             | 4 mm <sup>2</sup>                                            |
| Stripping length                                                                                                  | 9 mm ... 11 mm                                               |
| Internal cylindrical gage                                                                                         | A4                                                           |
| Connection in acc. with standard                                                                                  | IEC 60947-7-1                                                |
| Conductor cross section rigid                                                                                     | 0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>                    |
| Cross section AWG                                                                                                 | 24 ... 10 (converted acc. to IEC)                            |
| Conductor cross section flexible                                                                                  | 0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>                    |
| Conductor cross section, flexible [AWG]                                                                           | 24 ... 10 (converted acc. to IEC)                            |
| Conductor cross-section flexible (ferrule without plastic sleeve)                                                 | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>                    |
| Flexible conductor cross section (ferrule with plastic sleeve)                                                    | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>                    |
| Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve) | 0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                  |
| Nominal current                                                                                                   | 32 A                                                         |
| Maximum load current                                                                                              | 38 A (with 6 mm <sup>2</sup> conductor cross section, rigid) |
| Nominal voltage                                                                                                   | 1000 V                                                       |
| Nominal cross section                                                                                             | 4 mm <sup>2</sup>                                            |

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## Connection cross sections directly pluggable

|                                                                   |                                            |
|-------------------------------------------------------------------|--------------------------------------------|
| Conductor cross section rigid                                     | 0.75 mm <sup>2</sup> ... 6 mm <sup>2</sup> |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 1.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>  |
| Flexible conductor cross section (ferrule with plastic sleeve)    | 1.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>  |

## Ex data

### Rated data (ATEX/IECEx)

|                                                    |                                     |
|----------------------------------------------------|-------------------------------------|
| Identification                                     | Ⓔ II 2 G Ex eb IIC Gb               |
| Operating temperature range                        | -60 °C ... 110 °C                   |
| Ex-certified accessories                           | 1088748 D-PTV 2,5/4-QUATTRO         |
|                                                    | 1083618 DS-PTV 2,5/4                |
|                                                    | 3047196 ATP-UT-QUATTRO              |
|                                                    | 1212587 SF-SL 0,6X3,5-100 S-VDE     |
|                                                    | 3022276 CLIPFIX 35-5                |
| List of bridges                                    | Plug-in bridge / FBS 2-6 / 3030336  |
|                                                    | Plug-in bridge / FBS 3-6 / 3030242  |
|                                                    | Plug-in bridge / FBS 4-6 / 3030255  |
|                                                    | Plug-in bridge / FBS 5-6 / 3030349  |
|                                                    | Plug-in bridge / FBS 10-6 / 3030271 |
|                                                    | Plug-in bridge / FBS 20-6 / 3030365 |
|                                                    | Plug-in bridge / FBS 50-6 / 3032224 |
| Bridge data                                        | 27 A / 4 mm <sup>2</sup>            |
| Ex temperature increase                            | 40 K (27,6 A / 4 mm <sup>2</sup> )  |
| Rated voltage                                      | 550 V                               |
| for bridging with bridge                           | 550 V                               |
| - At bridging between non-adjacent terminal blocks | 550 V                               |
| - At cut-to-length bridging                        | 275 V                               |
| - At cut-to-length bridging with cover             | 275 V                               |
| - At cut-to-length bridging with partition plate   | 550 V                               |
| Rated insulation voltage                           | 500 V                               |
| output                                             | (Permanent)                         |

### Ex level General

|                      |                           |
|----------------------|---------------------------|
| Rated current        | 27 A (4 mm <sup>2</sup> ) |
| Maximum load current | 31 A (6 mm <sup>2</sup> ) |
| Contact resistance   | 0.7 mΩ                    |

### Ex connection data General

|                              |                                           |
|------------------------------|-------------------------------------------|
| Nominal cross section        | 4 mm <sup>2</sup>                         |
| Rated cross section AWG      | 12                                        |
| Connection capacity rigid    | 0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup> |
| Connection capacity AWG      | 24 ... 10                                 |
| Connection capacity flexible | 0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup> |
| Connection capacity AWG      | 24 ... 10                                 |

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## Dimensions

|                    |         |
|--------------------|---------|
| Width              | 6.2 mm  |
| End cover width    | 2.2 mm  |
| Height             | 69.2 mm |
| Depth              | 45.7 mm |
| Depth on NS 35/7,5 | 47.2 mm |
| Depth on NS 35/15  | 54.7 mm |

## Material specifications

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| Color                                                                   | red    |
| Flammability rating according to UL 94                                  | V0     |
| Insulating material group                                               | I      |
| Insulating material                                                     | PA     |
| Static insulating material application in cold                          | -60 °C |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 125 °C |
| Relative insulation material temperature index (Elec., UL 746 B)        | 125 °C |

## Electrical tests

### Surge voltage test

|                                                |             |
|------------------------------------------------|-------------|
| Result                                         | Test passed |
| Short-time withstand current 4 mm <sup>2</sup> | 0.48 kA     |
| Result                                         | Test passed |

### Power-frequency withstand voltage

|                       |             |
|-----------------------|-------------|
| Test voltage setpoint | 2.2 kV      |
| Result                | Test passed |

## Mechanical properties

### Mechanical data

|                 |     |
|-----------------|-----|
| Open side panel | Yes |
|-----------------|-----|

## Mechanical tests

### Mechanical strength

|        |             |
|--------|-------------|
| Result | Test passed |
|--------|-------------|

### Attachment on the carrier

|        |             |
|--------|-------------|
| Result | Test passed |
|--------|-------------|

### Test for conductor damage and slackening

|                                |                              |
|--------------------------------|------------------------------|
| Rotation speed                 | 10 rpm                       |
| Revolutions                    | 135                          |
| Conductor cross section/weight | 0.2 mm <sup>2</sup> / 0.2 kg |
|                                | 4 mm <sup>2</sup> / 0.9 kg   |

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|        |                            |
|--------|----------------------------|
|        | 6 mm <sup>2</sup> / 1.4 kg |
| Result | Test passed                |

## Environmental and real-life conditions

### Aging

|                    |             |
|--------------------|-------------|
| Temperature cycles | 192         |
| Result             | Test passed |

### Needle-flame test

|                  |             |
|------------------|-------------|
| Time of exposure | 30 s        |
| Result           | Test passed |

### Oscillation/broadband noise

|                        |                                                |
|------------------------|------------------------------------------------|
| Specification          | DIN EN 50155 (VDE 0115-200):2018-05            |
| Spectrum               | Service life test category 2, bogie-mounted    |
| Frequency              | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level              | 6.12 (m/s <sup>2</sup> ) <sup>2</sup> /Hz      |
| Acceleration           | 3.12g                                          |
| Test duration per axis | 5 h                                            |
| Test directions        | X-, Y- and Z-axis                              |
| Result                 | Test passed                                    |

### Shocks

|                                |                                   |
|--------------------------------|-----------------------------------|
| Pulse shape                    | Half-sine                         |
| Acceleration                   | 30g                               |
| Shock duration                 | 18 ms                             |
| Number of shocks per direction | 3                                 |
| Test directions                | X-, Y- and Z-axis (pos. and neg.) |
| Result                         | Test passed                       |

### Ambient conditions

|                                          |                                                                                                                              |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Ambient temperature (operation)          | -60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.) |
| Ambient temperature (storage/transport)  | -25 °C ... 60 °C (for a short time, no longer than 24 h, -60°C to +70°C)                                                     |
| Ambient temperature (assembly)           | -5 °C ... 70 °C                                                                                                              |
| Ambient temperature (actuation)          | -5 °C ... 70 °C                                                                                                              |
| Permissible humidity (operation)         | 20 % ... 90 %                                                                                                                |
| Permissible humidity (storage/transport) | 30 % ... 70 %                                                                                                                |

## Standards and regulations

|                                  |               |
|----------------------------------|---------------|
| Connection in acc. with standard | IEC 60947-7-1 |
|----------------------------------|---------------|

## Mounting

|               |           |
|---------------|-----------|
| Mounting type | NS 35/7,5 |
|               | NS 35/15  |

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