

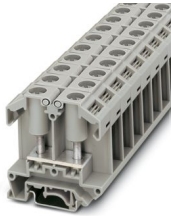
# OTTA 25-M5 - Feed-through terminal block



0790488

<https://www.phoenixcontact.com/us/products/0790488>

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Universal terminal block with bolt connection, cross section: 0.1 - 25 mm<sup>2</sup>, width: 18 mm, color: gray

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 0790488       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE45          |
| Product key                          | BE4513        |
| GTIN                                 | 4017918005597 |
| Weight per piece (including packing) | 54.242 g      |
| Weight per piece (excluding packing) | 54.242 g      |
| Customs tariff number                | 85369010      |
| Country of origin                    | IN            |

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## Technical data

### Product properties

|                       |                                |
|-----------------------|--------------------------------|
| Product type          | Bolt connection terminal block |
| Product family        | OTTA                           |
| Number of connections | 2                              |
| Number of rows        | 1                              |
| Potentials            | 1                              |

### Insulation characteristics

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

### Electrical properties

|   |        |
|---|--------|
| Rated surge voltage                             | 8 kV   |
| Maximum power dissipation for nominal condition | 3.26 W |

### Connection data

|                                 |                    |
|---------------------------------|--------------------|
| Number of connections per level | 2                  |
| Nominal cross section           | 25 mm <sup>2</sup> |

### Level 1 above 1 below 1

|                                  |   |
|----------------------------------|---|
| Connection method                | Bolt connection   |
| Stripping length                 | The stripping length depends on the specification provided by the cable lug manufacturer. |
| Connection in acc. with standard | IEC 60947-7-1   |
| Nominal cross section            | 25 mm <sup>2</sup>  |
| Nominal current                  | 101 A   |
| Maximum load current             | 101 A (with 25 mm <sup>2</sup> conductor cross-section)                                   |
| Nominal voltage                  | 800 V (the nominal voltage applies to insulated cable lugs)                               |

### Cable lug connection DIN 46234:1980-03

|                                  |  |
|----------------------------------|--|
| Connection in acc. with standard | DIN 46234:1980-03                          |
| Cross section                    | 0.1 mm <sup>2</sup> ... 25 mm <sup>2</sup> |
| Cross section range AWG          | 16 ... 4 (converted acc. to IEC)           |
| Hole diameter                    | 5.3 mm                                     |
| Width                            | 16 mm                                      |
| Bolt diameter                    | 5 mm                                       |
| Screw thread                     | M5   |
| Tightening torque                | 2.5 ... 3 Nm                               |
| Connection in acc. with standard | DIN 46237:1970-07                          |
| Cross section                    | 1 mm <sup>2</sup> ... 6 mm <sup>2</sup>    |
| Cross section range AWG          | (converted acc. to IEC)                    |
| Hole diameter                    | 5.3 mm                                     |
| Width                            | 16 mm                                      |

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|                   |              |
|-------------------|--------------|
| Bolt diameter     | 5 mm         |
| Screw thread      | M5           |
| Tightening torque | 2.5 ... 3 Nm |

## Dimensions

|                    |         |
|--------------------|---------|
| Width              | 18 mm   |
| End cover width    | 2 mm    |
| Height             | 60 mm   |
| Depth on NS 32     | 69.5 mm |
| Depth on NS 35/7,5 | 64.5 mm |
| Depth on NS 35/15  | 72 mm   |

## Material specifications

|  |                 |
|--|-----------------|
| Color  | gray (RAL 7042) |
| Flammability rating according to UL 94                           | V0              |
| Insulating material group  | I               |
| Insulating material  | PA              |
| Static insulating material application in cold                   | -60 °C          |
| Relative insulation material temperature index (Elec., UL 746 B) | 130 °C          |
| 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     |
| 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          |

## Electrical tests

### Surge voltage test

|                       |             |
|-----------------------|-------------|
| Test voltage setpoint | 9.8 kV      |
| Result                | Test passed |

### Temperature-rise test

|   |                                     |
|---|-------------------------------------|
| Requirement temperature-rise test               | Increase in temperature $\leq$ 45 K |
| Result  | Test passed                         |
| Short-time withstand current 25 mm <sup>2</sup> | 3 kA                                |
| Result  | Test passed                         |

### Power-frequency withstand voltage

|                       |             |
|-----------------------|-------------|
| Test voltage setpoint | 2 kV        |
| Result                | Test passed |

## Mechanical properties

### Mechanical data

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

## Mechanical tests

### Mechanical strength

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

### Attachment on the carrier

|                         |             |
|-------------------------|-------------|
| DIN rail/fixing support | NS 32/NS 35 |
| Test force setpoint     | 10 N        |
| Result                  | Test passed |

### Test for conductor damage and slackening

|                                |                             |
|--------------------------------|-----------------------------|
| Rotation speed                 | 10 (+/- 2) rpm              |
| Revolutions                    | 135                         |
| Conductor cross-section/weight | 25 mm <sup>2</sup> / 4.5 kg |
| Result                         | Test passed                 |

## Environmental and real-life conditions

### Needle-flame test

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

### Oscillation/broadband noise

|                        |  |
|------------------------|--|
| Specification          | DIN EN 50155 (VDE 0115-200):2018-05            |
| Spectrum               | Long 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                   | 5g                                |
| Shock duration                 | 30 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, not exceeding 24 h, -60 °C to +70 °C)  |
| Ambient temperature (assembly)          | -5 °C ... 70 °C  |

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|  |                 |
|--|-----------------|
| 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  |
|               | NS 32     |

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## Drawings

### Circuit diagram

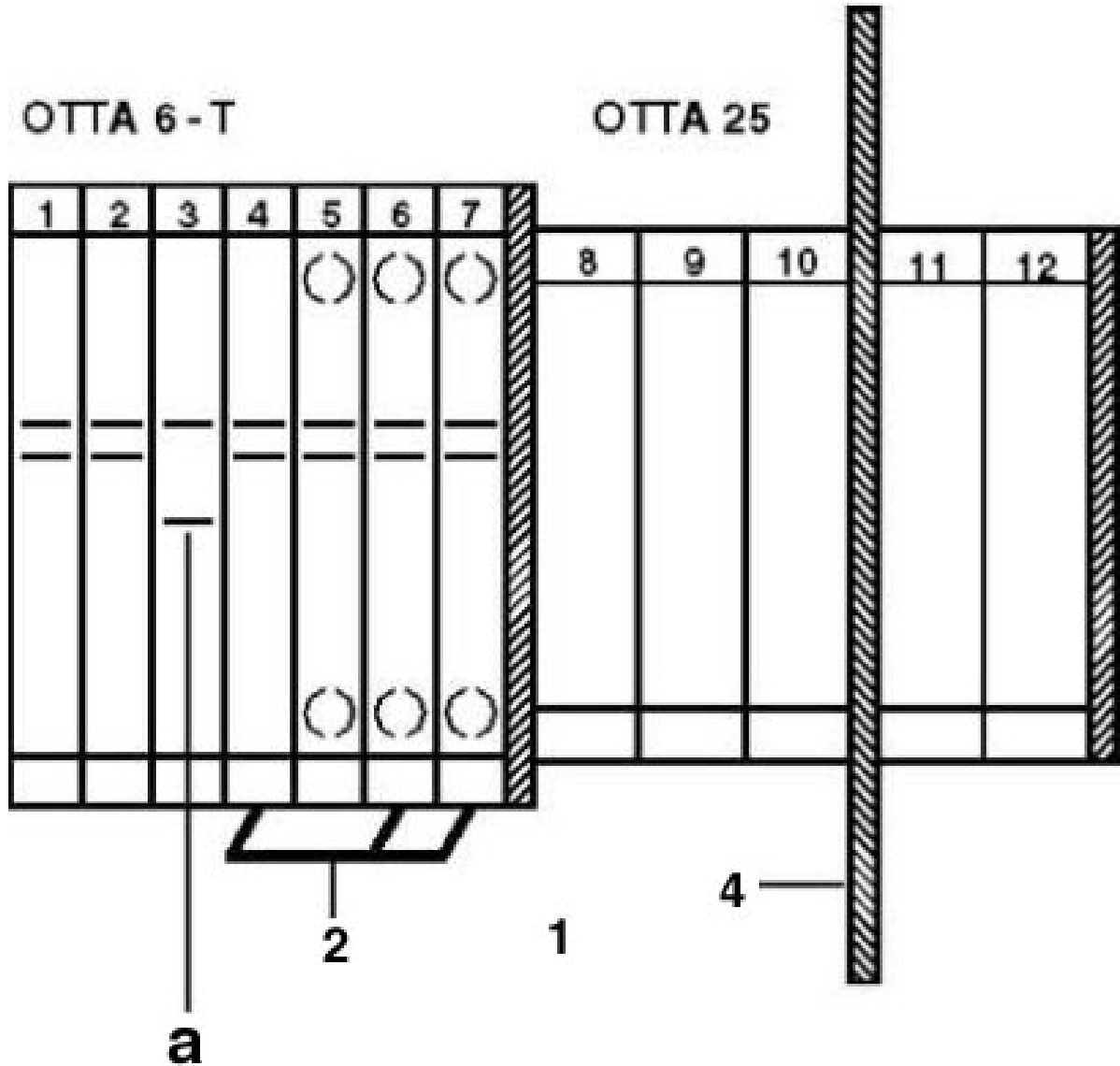


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Circuit diagram



- a = open
- 1 = cover
- 2 = insertion bridge
- 4 = partition plate

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/0790488>

|  <b>CSA</b><br>Approval ID: 13631 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine  |                       |                       |                   |                             |
|  | 600 V                 | 100 A                 | 18 - 4            | -                           |

|  <b>UL Recognized</b><br>Approval ID: E60425 |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| B   |                       |                       |                   |                             |
|   | 600 V                 | 115 A                 | -                 | -                           |
| C   |                       |                       |                   |                             |
|   | 600 V                 | 115 A                 | -                 | -                           |

|  <b>EAC</b><br>Approval ID: RU C-DE.BL08.B.00540 |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

|  <b>EAC</b><br>Approval ID: KZ7500651131219505 |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

| <b>DNV</b><br>Approval ID: TAE0001CT |  |  |  |  |
|--------------------------------------|--|--|--|--|
|--------------------------------------|--|--|--|--|

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250101 |
| ECLASS-15.0 | 27250101 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC000897 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|  | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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