

# HC-B 16-A-UT-PEL-F - Terminal adapter



1648042

<https://www.phoenixcontact.com/us/products/1648042>

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HEAVYCON terminal adapter, socket insert, B16 series, 16-pos., for the left control cabinet panel, screw connection

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1648042       |
| Packing unit                         | 5 pc          |
| Minimum order quantity               | 5 pc          |
| Sales key                            | BF61          |
| Product key                          | AF7ADC        |
| GTIN                                 | 4017918969653 |
| Weight per piece (including packing) | 154.68 g      |
| Weight per piece (excluding packing) | 154.68 g      |
| Customs tariff number                | 85366990      |
| Country of origin                    | CN            |

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## Technical data

### Notes

|         |                                                                                   |
|---------|-----------------------------------------------------------------------------------|
| General | For HEAVYCON-ADVANCE mounting flange and HEAVYCON panel mounting base of B16 type |
| General | Connectors may be operated only when there is no load/voltage.                    |

### Product properties

|                     |                  |
|---------------------|------------------|
| Product type        | Terminal adapter |
| Product family      | HC-B             |
| Series              | HC-B             |
| Type                | B16              |
| Number of positions | 16               |
| Connection profile  | 16+PE            |
| Contact numbering   | 1 - 16           |
| Screwdriver blade   | 0.5 x 3.5 mm     |

### Insulation characteristics

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

### Electrical properties

|                       |                |
|-----------------------|----------------|
| Rated voltage (III/3) | 500 V          |
| Rated surge voltage   | 6 kV           |
| Rated current         | 16 A           |
| SCCR                  | 5 kA (UL 2237) |

### Connection data

#### Connection technology

|                                  |                  |
|----------------------------------|------------------|
| Connection technology            | Screw connection |
| Connection in acc. with standard | IEC / EN         |

#### Conductor connection

|                                         |                                             |
|-----------------------------------------|---------------------------------------------|
| Conductor cross section                 | 0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Connection cross section AWG            | 20 ... 14                                   |
| Tightening torque                       | 0.5 Nm ... 0.8 Nm                           |
| Stripping length of the individual wire | 12 mm                                       |

### Dimensions

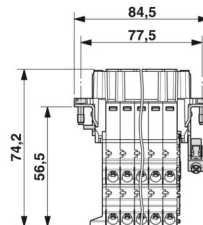
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## Dimensional drawing



|                                 |         |
|---------------------------------|---------|
| Width                           | 34 mm   |
| Height                          | 74.2 mm |
| Length                          | 84.5 mm |
| Drill hole distance, horizontal | 77.5 mm |
| Drill hole distance, vertical   | 27 mm   |

## Material specifications

|                                        |              |
|----------------------------------------|--------------|
| Flammability rating according to UL 94 | V0           |
| Contact material                       | Copper alloy |
| Contact surface material               | Ag           |
| Contact carrier material               | PA           |
| Standards/regulations                  | PA           |

## Cable/line

|                                         |       |
|-----------------------------------------|-------|
| Stripping length of the individual wire | 12 mm |
|-----------------------------------------|-------|

## Mechanical properties

### Mechanical data

|                             |       |
|-----------------------------|-------|
| Insertion/withdrawal cycles | ≥ 500 |
|-----------------------------|-------|

## Environmental and real-life conditions

### Ambient conditions

|                                 |                   |
|---------------------------------|-------------------|
| Ambient temperature (operation) | -40 °C ... 125 °C |
|---------------------------------|-------------------|

## Standards and regulations

|                                        |              |
|----------------------------------------|--------------|
| Constructional and testing regulations | DIN EN 61984 |
|                                        | DIN EN 60664 |
|                                        | IEC 60352    |
| Tests                                  | DIN EN 61984 |
|                                        | DIN EN 60664 |
|                                        | IEC 60352    |

### Testing

|                       |                                                                                                                         |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------|
| Standards/regulations | PA: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3) |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------|

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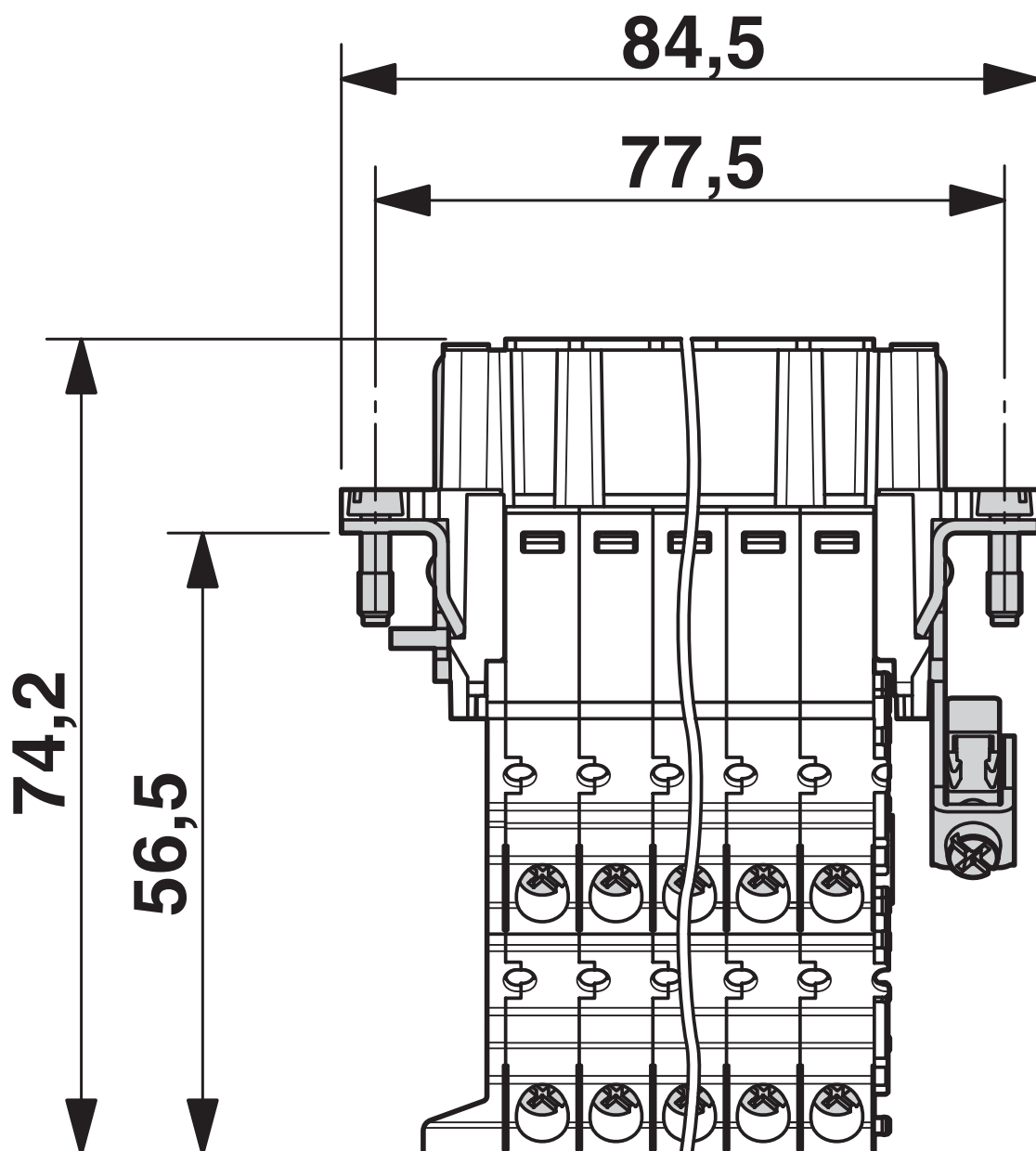
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## Mounting

|               |                                                                                           |
|---------------|-------------------------------------------------------------------------------------------|
| Assembly note | To ensure correct use, installation in housing with IP54 protection or better is required |
|               | Connectors may only be actuated when there is no load/voltage.                            |

## Drawings

Dimensional drawing



Connection side

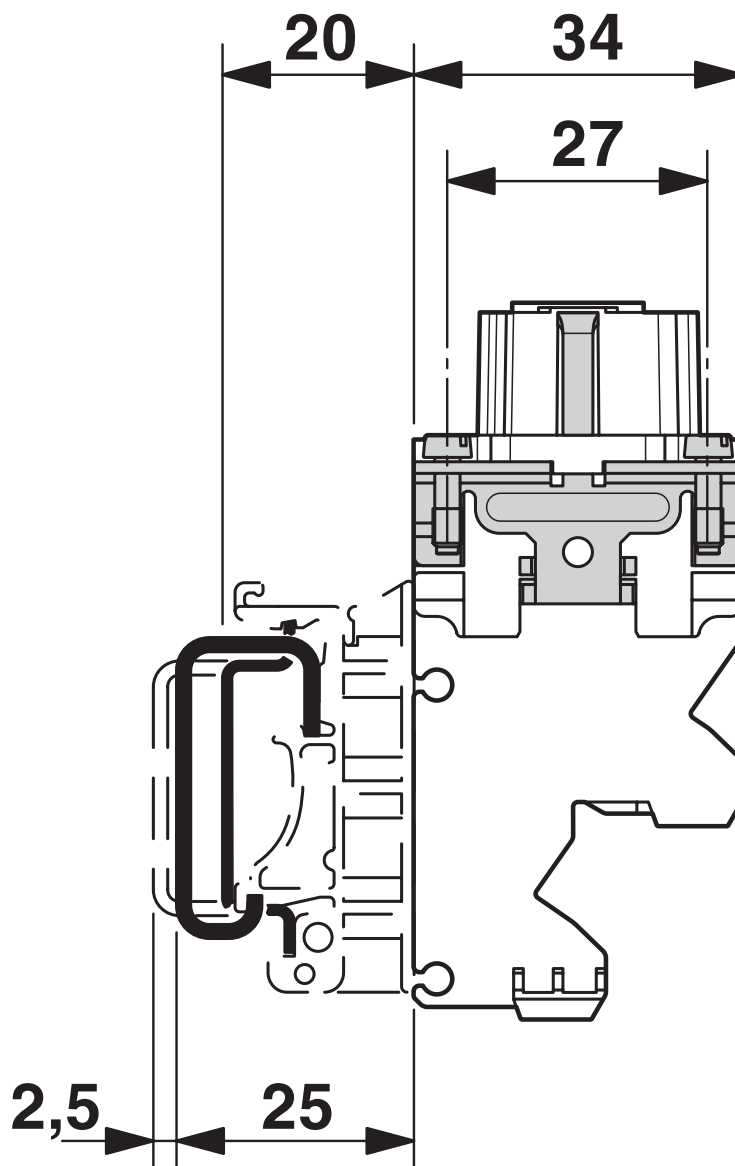
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Dimensional drawing



Side view

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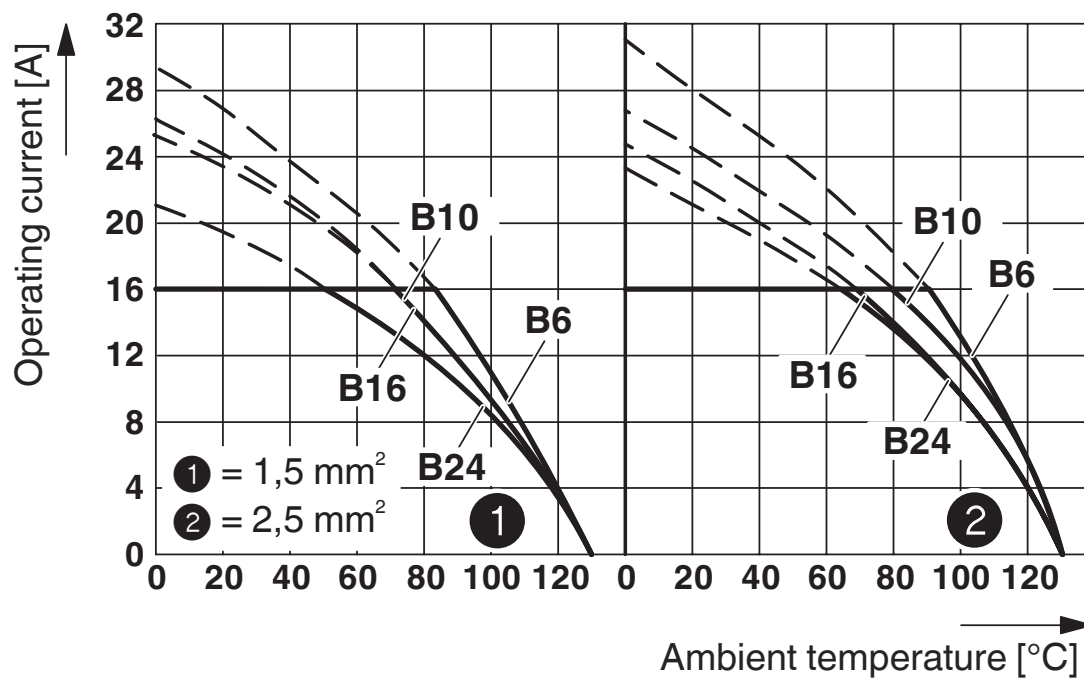
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Application drawing



Mounting position PE connection left/right (PEL/PER)

Diagram



Derating diagram

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1648042>

|  <b>CSA</b><br>Approval ID: 013631_6233_01 |                       |                       |                   |                             |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                             | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                       |                       |                       |                   |                             |
|                                                                                                                             | 600 V                 | 13 A                  | 22 - 14           | -                           |

|  <b>cUL Recognized</b><br>Approval ID: E118976 |                       |                       |                   |                             |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                 | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                           |                       |                       |                   |                             |
|                                                                                                                                 | 600 V                 | 13 A                  | 22 - 14           | -                           |

|  <b>UL Recognized</b><br>Approval ID: E118976 |                       |                       |                   |                             |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                            |                       |                       |                   |                             |
|                                                                                                                                  | 600 V                 | 13 A                  | 22 - 14           | -                           |

|  <b>cULus Recognized</b><br>Approval ID: E468743 |                       |                       |                   |                             |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                     | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                               |                       |                       |                   |                             |
|                                                                                                                                     | 600 V                 | 14 A                  | - 14              | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440222 |
| ECLASS-15.0 | 27440222 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000438 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121500 |
|-------------|----------|

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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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