

# HC-B 24-A-DT-PEL-M - Terminal adapter



1648487

<https://www.phoenixcontact.com/no/products/1648487>

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HEAVYCON terminal adapter, pin insert, B24 series, 24-pos., for the left side of the control cabinet, push-in connection



## Your advantages

- Easy installation without tools, even when mounted, with push-in connection technology
- Shortest installation time compared to other connection technologies
- Quick and effortless wiring, in particular when space is tight
- Automatic cabling with robots possible
- Safe wiring and operation with color-coded actuators
- Shock and vibration-resistant in accordance with DIN EN 61373

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1648487             |
| Packing unit                         | 5 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | 31BBF               |
| Product key                          | BF7ADC              |
| Catalog page                         | Page 549 (C-2-2019) |
| GTIN                                 | 4046356092203       |
| Weight per piece (including packing) | 167 g               |
| Weight per piece (excluding packing) | 167 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 B24 type |
| General | Connectors may be operated only when there is no load/voltage.                    |

### Product properties

|                     |                                          |
|---------------------|------------------------------------------|
| Type                | B24                                      |
| Product type        | Terminal adapter                         |
| Product family      | HC-B                                     |
| Number of positions | 24                                       |
| Connection profile  | 24+PE                                    |
| Contact numbering   | 1 - 24                                   |
| Type                | for the left side of the control cabinet |
| Series              | HC-B                                     |

### 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 | Push-in connection |
|-----------------------|--------------------|

#### Conductor connection

|                                         |                                             |
|-----------------------------------------|---------------------------------------------|
| Conductor cross section                 | 0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Connection cross section AWG            | 22 ... 12                                   |
| Stripping length of the individual wire | 10 mm (13 mm with ferrule)                  |

### Dimensions

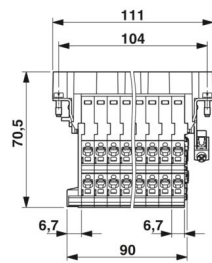
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## Dimensional drawing



|                                 |         |
|---------------------------------|---------|
| Width                           | 34 mm   |
| Height                          | 70.5 mm |
| Length                          | 111 mm  |
| Drill hole distance, horizontal | 104 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: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3) |

## Cable/line

|                                         |                            |
|-----------------------------------------|----------------------------|
| Stripping length of the individual wire | 10 mm (13 mm with ferrule) |
|-----------------------------------------|----------------------------|

## Mechanical properties

### Mechanical data

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

## Environmental and real-life conditions

### Ambient conditions

|                                 |                   |
|---------------------------------|-------------------|
| Degree of protection            | IP20              |
| 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

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

## Mounting

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

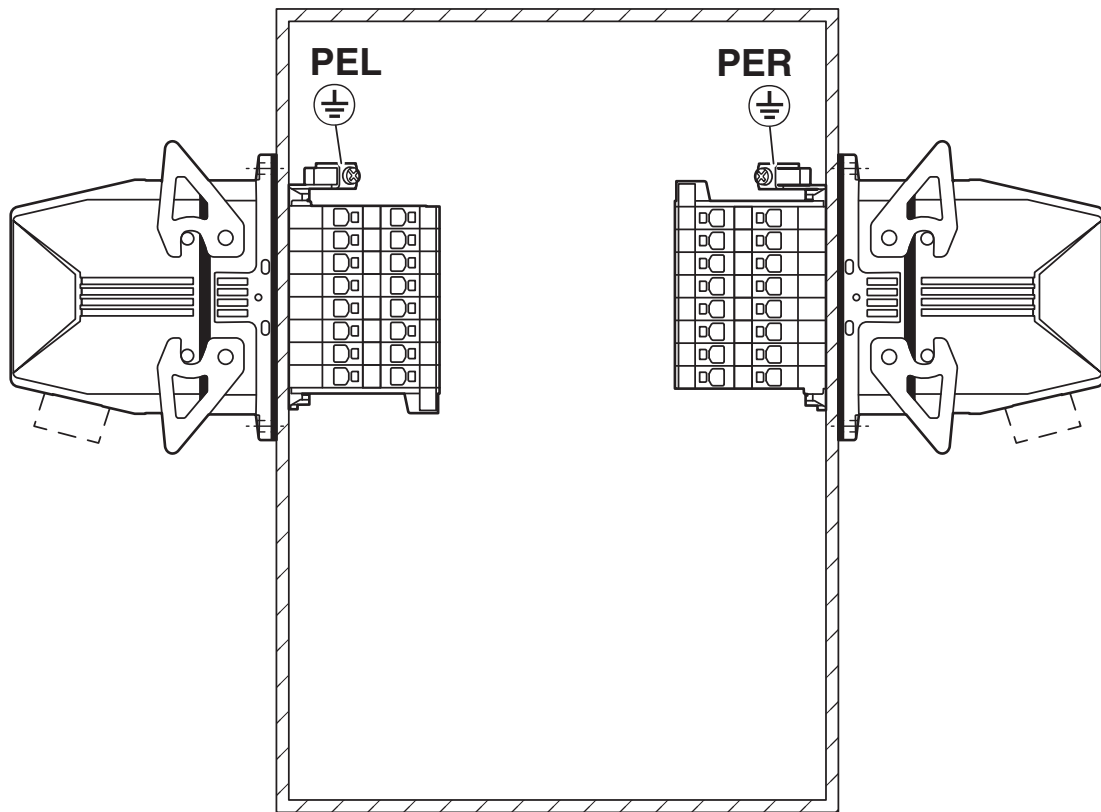
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## Drawings

Application drawing



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

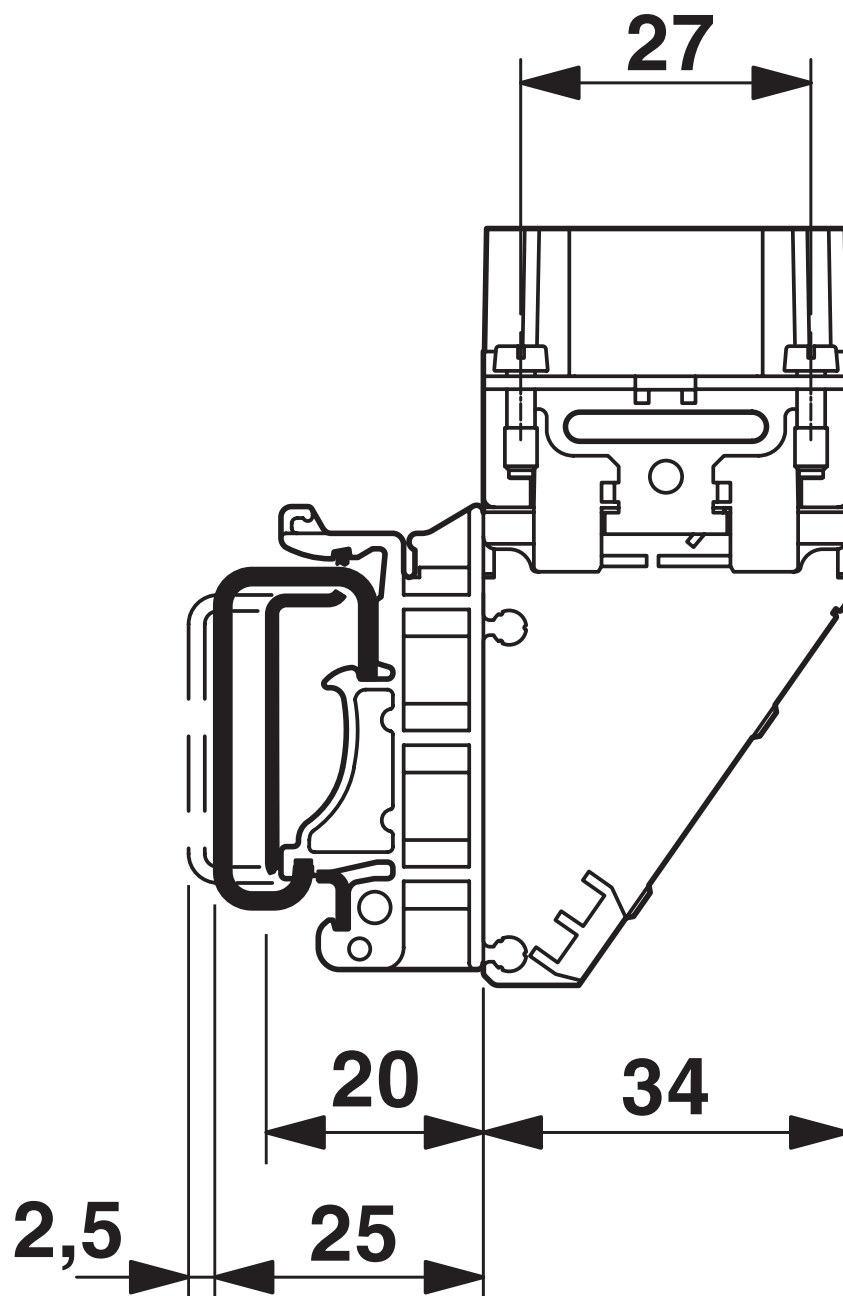
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Dimensional drawing



Dimensional drawing, side view

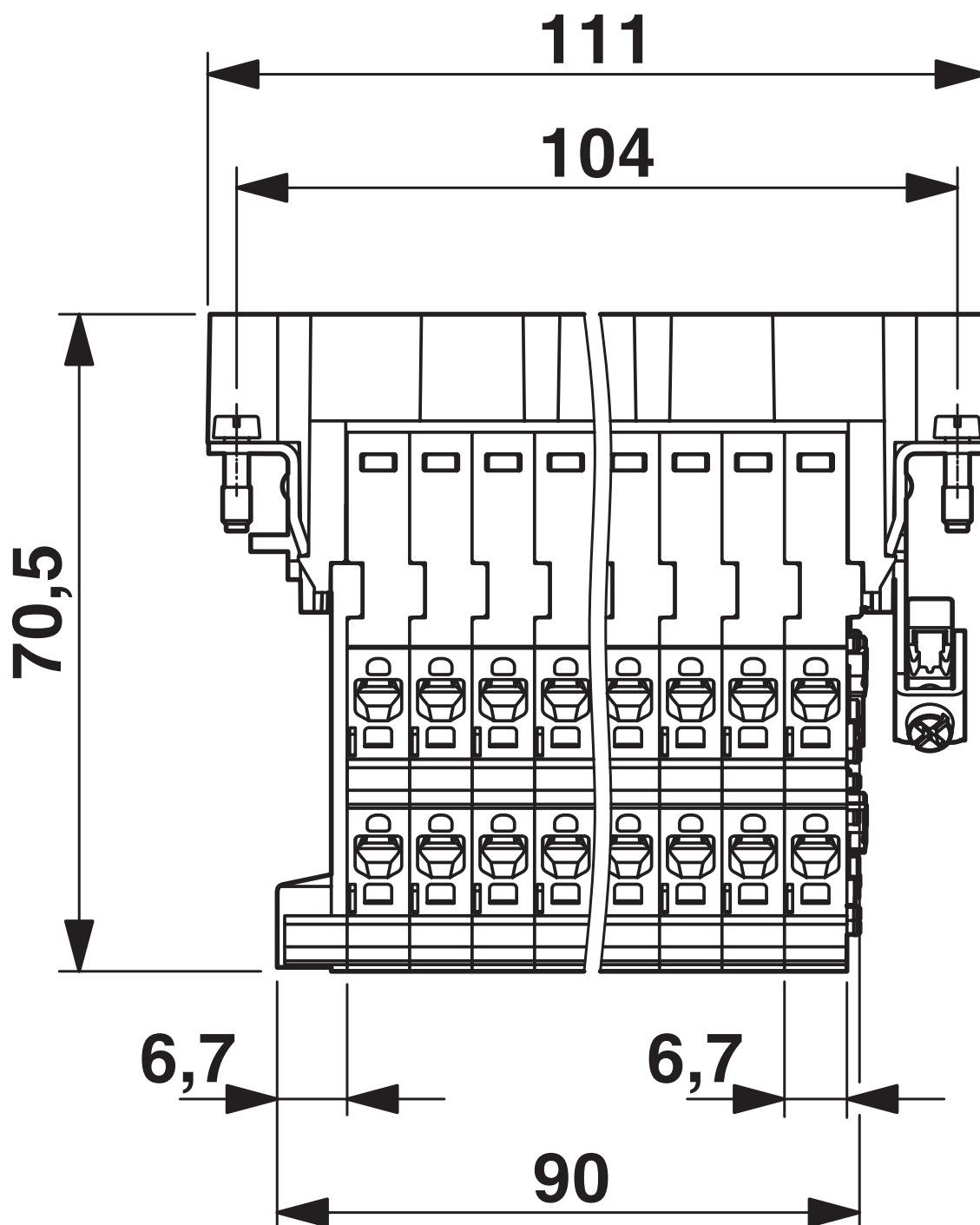
# HC-B 24-A-DT-PEL-M - Terminal adapter



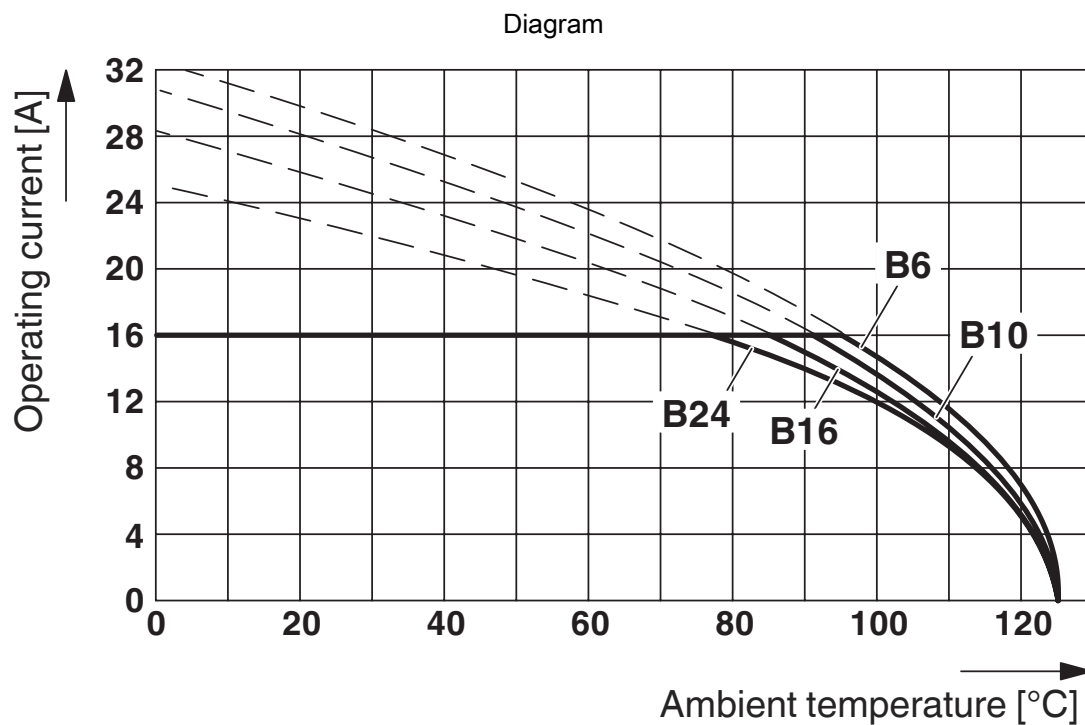
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Dimensional drawing



Dimensional drawing



Derating diagram

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/no/products/1648487>

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

|                                                                                                                                       |                       |                       |                   |                             |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>cUL Recognized</b><br>Approval ID: FILE E 118976 |                       |                       |                   |                             |
|                                                                                                                                       | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                                                                       | 600 V                 | 13 A                  | 22 - 14           | -                           |

|                                                                                                                                       |                       |                       |                   |                             |
|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>UL Recognized</b><br>Approval ID: FILE E 118976 |                       |                       |                   |                             |
|                                                                                                                                       | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                                                                       | 600 V                 | 13 A                  | 22 - 14           | -                           |

|                                                                                                                                     |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|  <b>EAC</b><br>Approval ID: RU C-DE.BL08.B.00511 |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

|                                                                                                                                     |                       |                       |                   |                             |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>cULus Recognized</b><br>Approval ID: E468743 |                       |                       |                   |                             |
|                                                                                                                                     | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                                                                     | 600 V                 | 13 A                  | - 14              | -                           |

|                         |  |  |  |  |
|-------------------------|--|--|--|--|
| <b>cULus Recognized</b> |  |  |  |  |
|-------------------------|--|--|--|--|

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27440222 |
| ECLASS-12.0 | 27440222 |
| ECLASS-13.0 | 27440222 |

### ETIM

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

### UNSPSC

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

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## Environmental product compliance

|            |                                                                                                              |
|------------|--------------------------------------------------------------------------------------------------------------|
| REACH SVHC | Lead 7439-92-1                                                                                               |
| China RoHS | Environmentally Friendly Use Period = 50 years                                                               |
|            | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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PHOENIX CONTACT AS  
Strømsveien 344  
N-1081 Oslo  
+47 22 07 68 00  
[norge@phoenixcontact.com](mailto:norge@phoenixcontact.com)