

# URTK/S-IB - Disconnect terminal block



0710947

<https://www.phoenixcontact.com/au/products/0710947>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Disconnect terminal block, nom. voltage: 400 V, nominal current: 41 A, connection method: Screw connection, 1 level, Rated cross section: 6 mm<sup>2</sup>, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, NS 32, color: gray

## Your advantages

- Easy and clear testing in current transformer secondary circuits can be performed using the test disconnect terminal blocks of the URTK/S range
- On both sides of the disconnect point, the terminal block has a test socket which can also be used to switch across to neighboring terminal blocks

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 0710947       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE1233        |
| Product key                          | BE1233        |
| GTIN                                 | 4017918898243 |
| Weight per piece (including packing) | 34.14 g       |
| Weight per piece (excluding packing) | 33.9 g        |
| Customs tariff number                | 85369010      |
| Country of origin                    | CN            |

## Technical data

### Product properties

|                       |                                |
|-----------------------|--------------------------------|
| Product type          | Test disconnect terminal block |
| Number of connections | 2                              |
| Number of rows        | 1                              |
| Potentials            | 1                              |

### Insulation characteristics

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

### Electrical properties

|                                                 |        |
|-------------------------------------------------|--------|
| Rated surge voltage                             | 6 kV   |
| Maximum power dissipation for nominal condition | 1.31 W |

### Connection data

|                                 |                   |
|---------------------------------|-------------------|
| Number of connections per level | 2                 |
| Nominal cross section           | 6 mm <sup>2</sup> |

#### 1 level

|                                                                                           |                                                        |
|-------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Screw thread                                                                              | M4                                                     |
| Tightening torque                                                                         | 1.2 ... 1.5 Nm                                         |
| Stripping length                                                                          | 13 mm                                                  |
| Internal cylindrical gage                                                                 | A5                                                     |
| Connection in acc. with standard                                                          | IEC 60947-7-1                                          |
| Conductor cross section rigid                                                             | 0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>             |
| Cross section AWG                                                                         | 20 ... 8 (converted acc. to IEC)                       |
| Conductor cross section flexible                                                          | 0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>              |
| Conductor cross section, flexible [AWG]                                                   | 20 ... 10 (converted acc. to IEC)                      |
| Conductor cross-section flexible (ferrule without plastic sleeve)                         | 0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>              |
| Flexible conductor cross section (ferrule with plastic sleeve)                            | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>              |
| 2 conductors with same cross section, solid                                               | 0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>            |
| 2 conductors with same cross section, flexible                                            | 0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>              |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve       | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>              |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>              |
| Nominal current                                                                           | 41 A                                                   |
| Maximum load current                                                                      | 57 A (with 10 mm <sup>2</sup> conductor cross section) |
| Nominal voltage                                                                           | 400 V                                                  |
| Nominal cross section                                                                     | 6 mm <sup>2</sup>                                      |

### Dimensions

|       |        |
|-------|--------|
| Width | 8.2 mm |
|-------|--------|

# URTK/S-IB - Disconnect terminal block



0710947

<https://www.phoenixcontact.com/au/products/0710947>

|                    |         |
|--------------------|---------|
| End cover width    | 2.2 mm  |
| Height             | 72 mm   |
| Depth on NS 32     | 56.5 mm |
| Depth on NS 35/7,5 | 51.5 mm |
| Depth on NS 35/15  | 59 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          |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 125 °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     |
| Calorimetric heat release NFPA 130 (ASTM E 1354)                        | 27,5 MJ/kg      |
| 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 | 7.3 kV      |
| Result                | Test passed |

### Temperature-rise test

|                                                 |                                     |
|-------------------------------------------------|-------------------------------------|
| Requirement temperature-rise test               | Increase in temperature $\leq 45$ K |
| Result                                          | Test passed                         |
| Short-time withstand current 6 mm <sup>2</sup>  | 0.72 kA                             |
| Short-time withstand current 10 mm <sup>2</sup> | 1.2 kA                              |
| Result                                          | Test passed                         |

### Power-frequency withstand voltage

|                       |             |
|-----------------------|-------------|
| Test voltage setpoint | 1.89 kV     |
| Result                | Test passed |

## Mechanical properties

### Mechanical data

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

## Mechanical tests

# URTK/S-IB - Disconnect terminal block



0710947

<https://www.phoenixcontact.com/au/products/0710947>

## Mechanical strength

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

## Attachment on the carrier

|                         |             |
|-------------------------|-------------|
| DIN rail/fixing support | NS 32/NS 35 |
| Test force setpoint     | 5 N         |
| Result                  | Test passed |

## Test for conductor damage and slackening

|                                |                              |
|--------------------------------|------------------------------|
| Rotation speed                 | 10 rpm                       |
| Revolutions                    | 135                          |
| Conductor cross section/weight | 0.5 mm <sup>2</sup> / 0.3 kg |
|                                | 6 mm <sup>2</sup> / 1.4 kg   |
|                                | 10 mm <sup>2</sup> / 2 kg    |
| Result                         | Test passed                  |

## Environmental and real-life conditions

### Needle-flame test

|                  |             |
|------------------|-------------|
| Time of exposure | 30 s        |
| 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                                                                                                              |
| 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     |

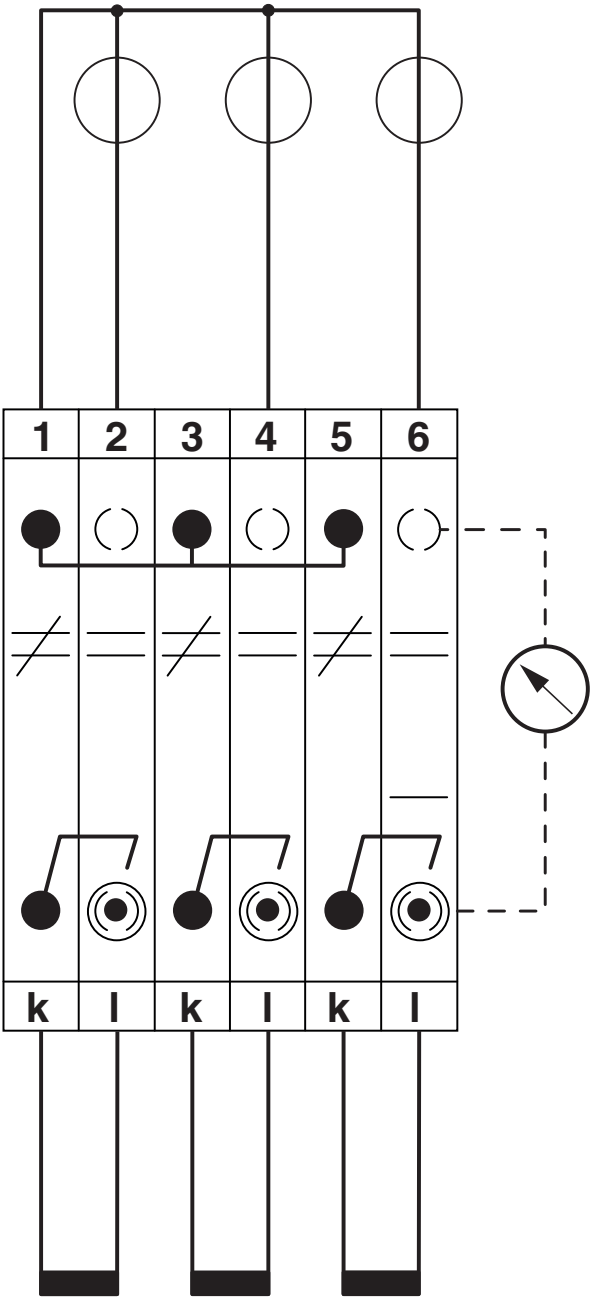
# URTK/S-IB - Disconnect terminal block



0710947  
<https://www.phoenixcontact.com/au/products/0710947>

## Drawings

Schematic diagram



Three-phase transducer test set

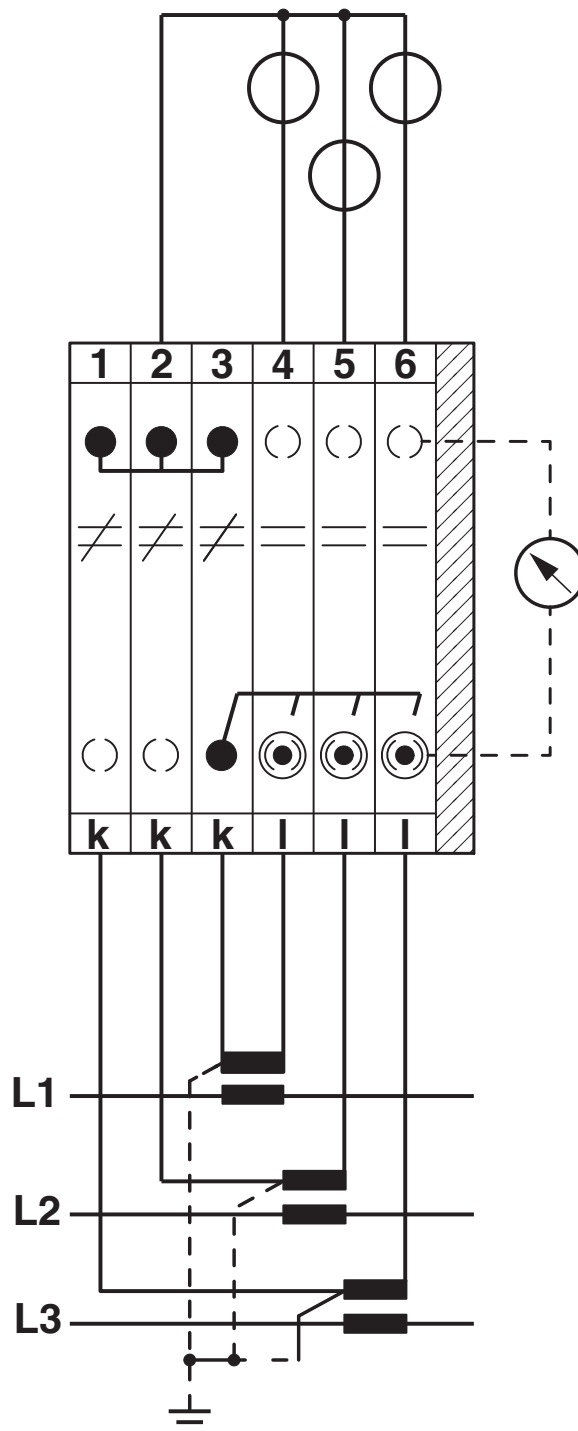
# URTK/S-IB - Disconnect terminal block

0710947

<https://www.phoenixcontact.com/au/products/0710947>

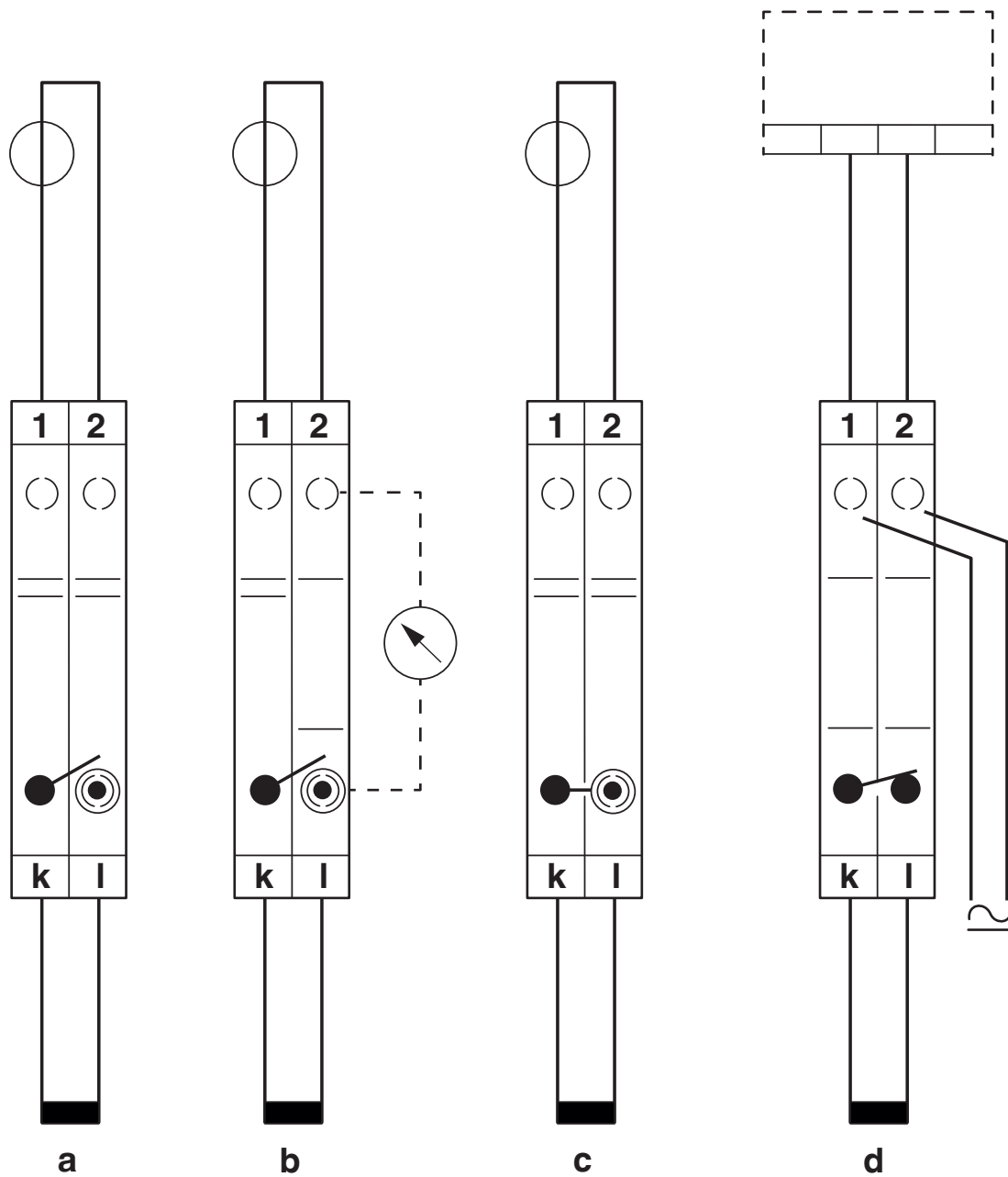


Schematic diagram



Three-phase linked transducer test set

Schematic diagram



Simple current transformer test circuit

a = normal operation

b = measured value testing

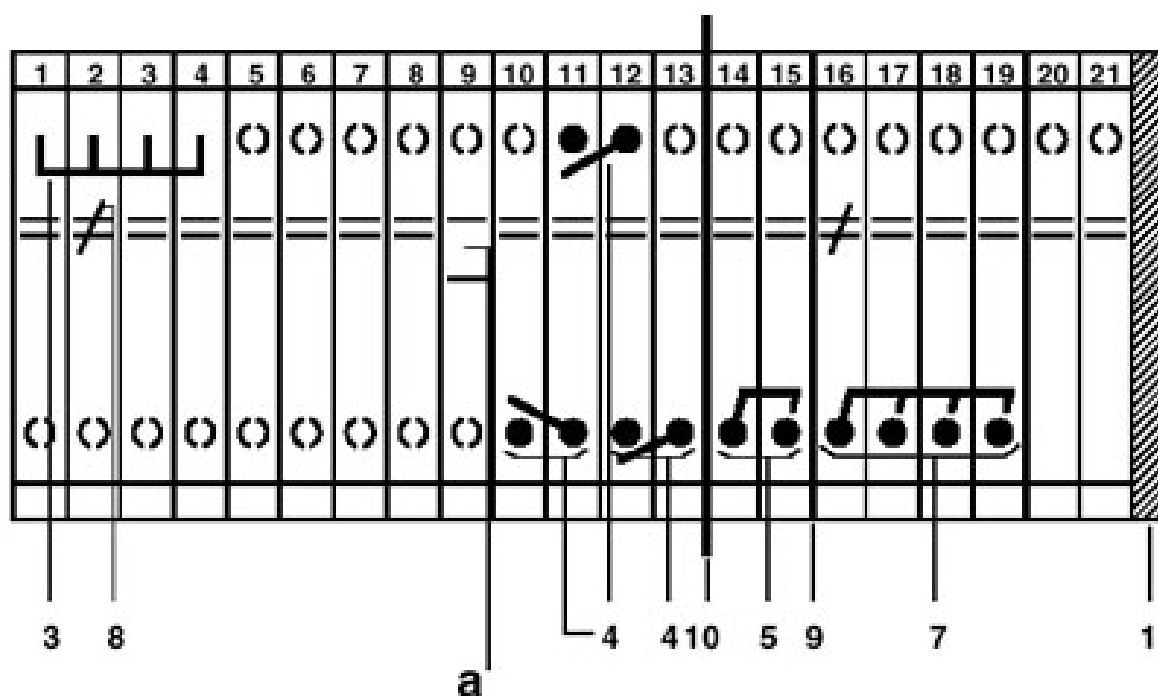
c = transformer short-circuit

d = relay testing

Circuit diagram



Circuit diagram



a = open

1 = cover

3 = fixed bridge

4 = switch bar, for 2 terminal blocks, useable on both sides of the disconnect point, inward switching motion

5 = switch bar, for 2 terminal blocks, useable on both sides of the disconnect point, outward switching motion

7 = switch bar, for 3-phase short-circuiting of linked current transformer sets, only on the right

8 = switching lock, prevents disconnect slide from being actuated

9 = separating plate, for electrical separation of neighboring bridges in terminal center

10 = partition plate

# URTK/S-IB - Disconnect terminal block



0710947

<https://www.phoenixcontact.com/au/products/0710947>

## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/au/products/0710947>



**EAC**

Approval ID: KZ7500651131219505

# URTK/S-IB - Disconnect terminal block



0710947

<https://www.phoenixcontact.com/au/products/0710947>

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250109 |
|-------------|----------|

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000902 |
|----------|----------|

### UNSPSC

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

# URTK/S-IB - Disconnect terminal block



0710947  
<https://www.phoenixcontact.com/au/products/0710947>

## 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%               |

Phoenix Contact 2025 © - all rights reserved  
<https://www.phoenixcontact.com>

PHOENIX CONTACT PTY Ltd  
Unit 7, 2-8 South Street  
Rydalmere NSW 2116  
1300 786 411  
[customerservice@phoenixcontact.com.au](mailto:customerservice@phoenixcontact.com.au)