

# URTK/S RD - Test disconnect terminal block



0311812

<https://www.phoenixcontact.com/gb/products/0311812>

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Test disconnect terminal block, with slide, 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: red

## 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	0311812
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE1233
Product key	BE1233
GTIN	4017918233815
Weight per piece (including packing)	34.17 g
Weight per piece (excluding packing)	33.14 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

Connection method	Screw connection
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, rigid	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 cross section	6 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

### Dimensions

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Width	8.2 mm
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	red (RAL 3001)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Relative insulation material temperature index (Elec., UL 746 B)	125 °C
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
Result	Test passed

### Power-frequency withstand voltage

Test voltage setpoint	1.89 kV
Result	Test passed

## Mechanical properties

### Mechanical data

Open side panel	Yes
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## Mechanical tests

### Mechanical strength

Result	Test passed
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### Attachment on the carrier

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

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## Test for conductor damage and slackening

Rotation speed	10 (+/- 2) 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

### Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2022-06
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	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, 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
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## Mounting

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Mounting type	NS 35/7,5
	NS 35/15
	NS 32

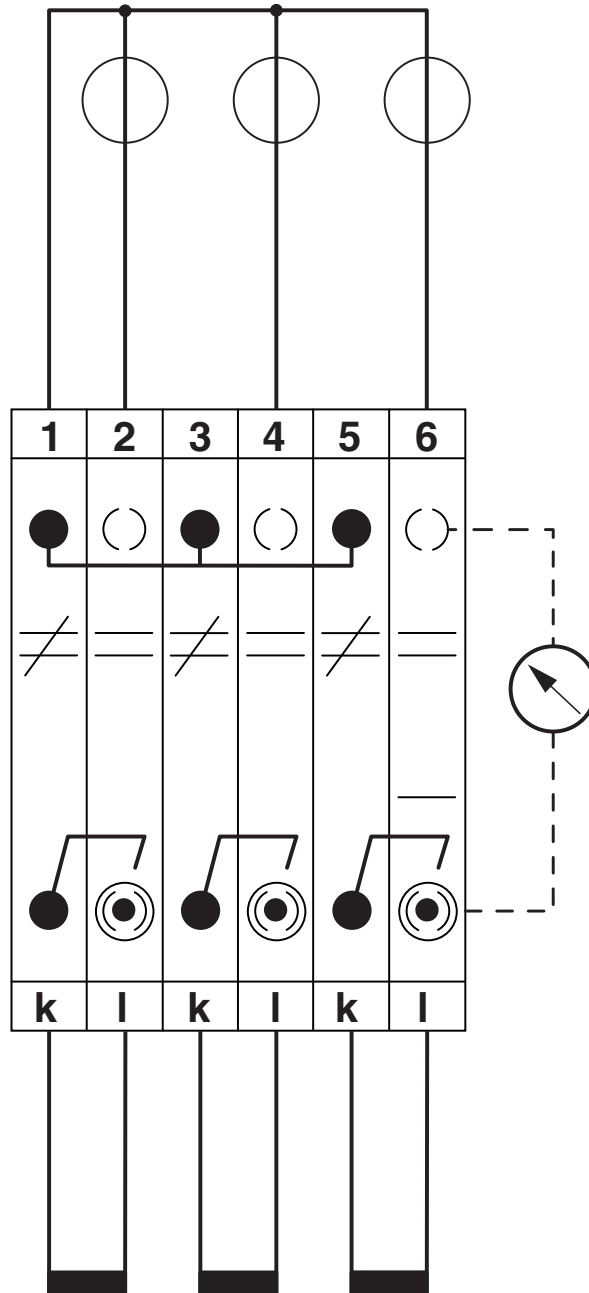
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## Drawings

Schematic diagram



Three-phase transducer test set

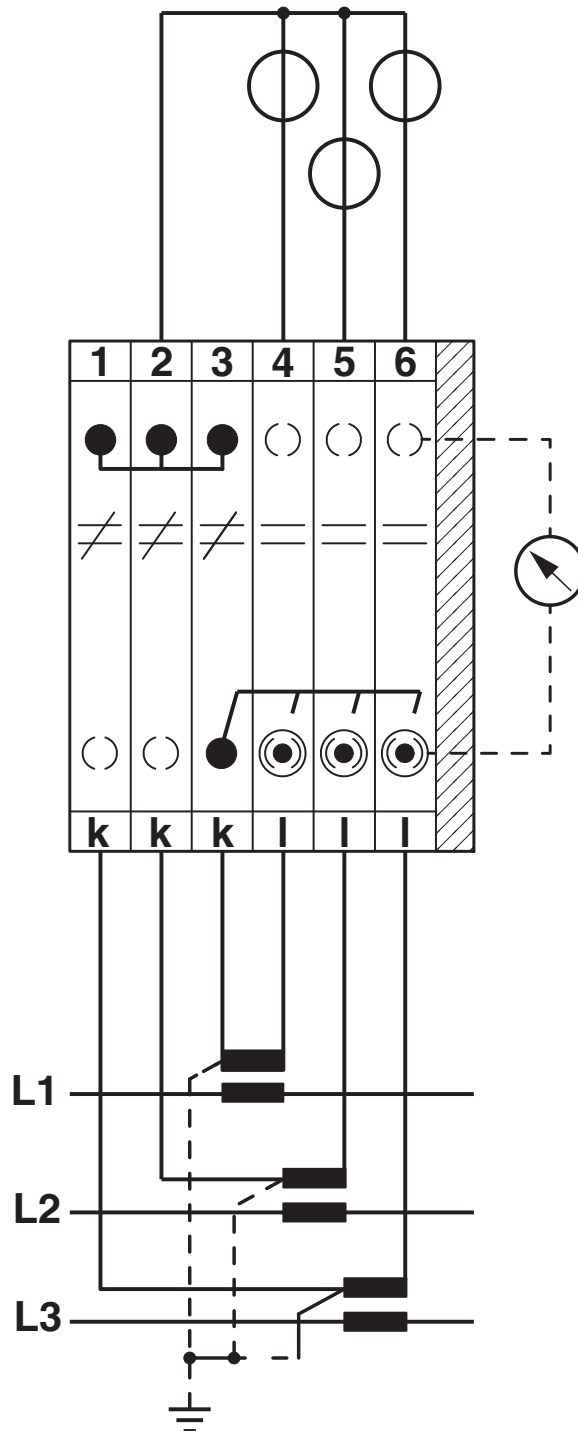
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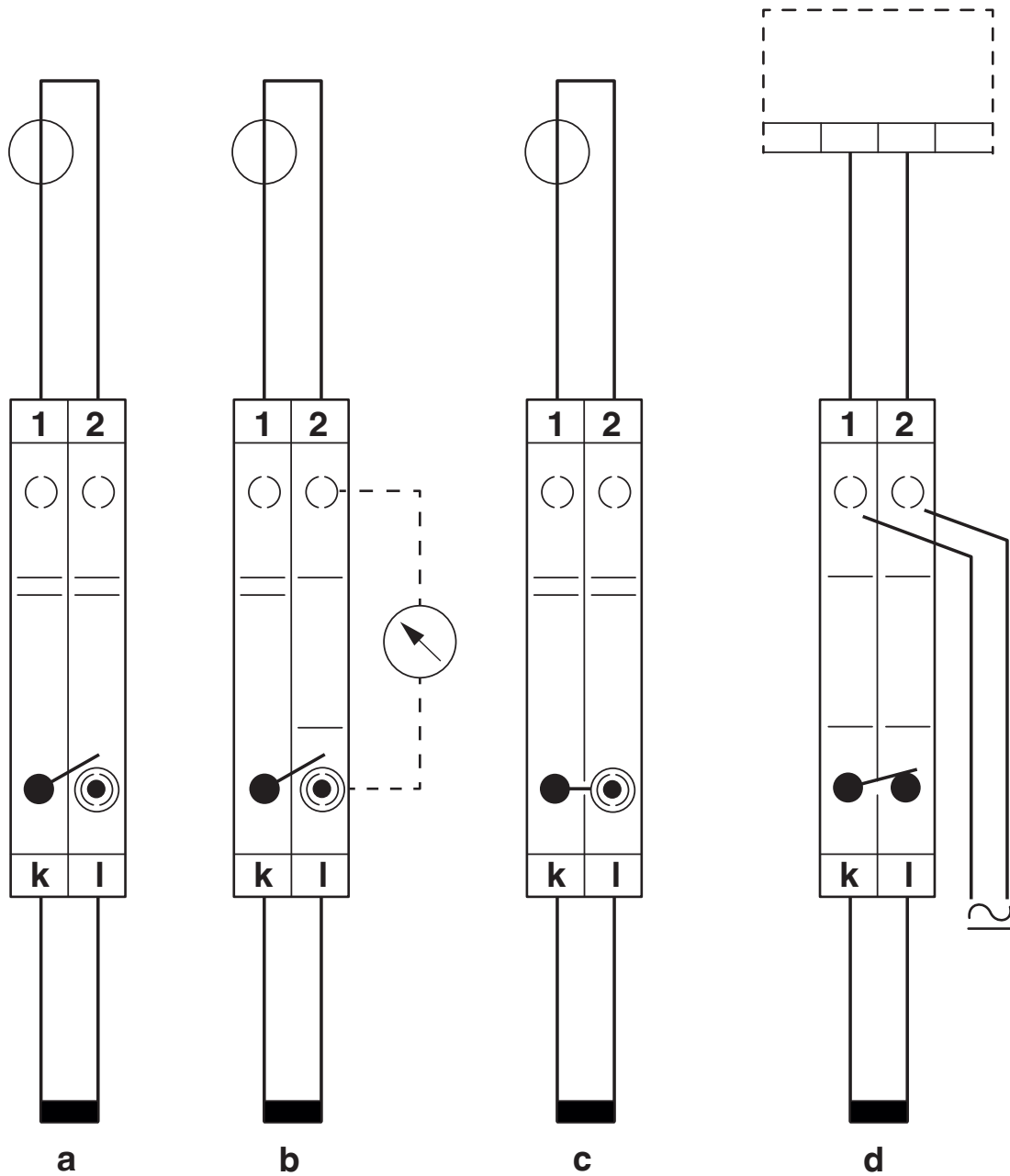


Schematic diagram



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

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Circuit diagram

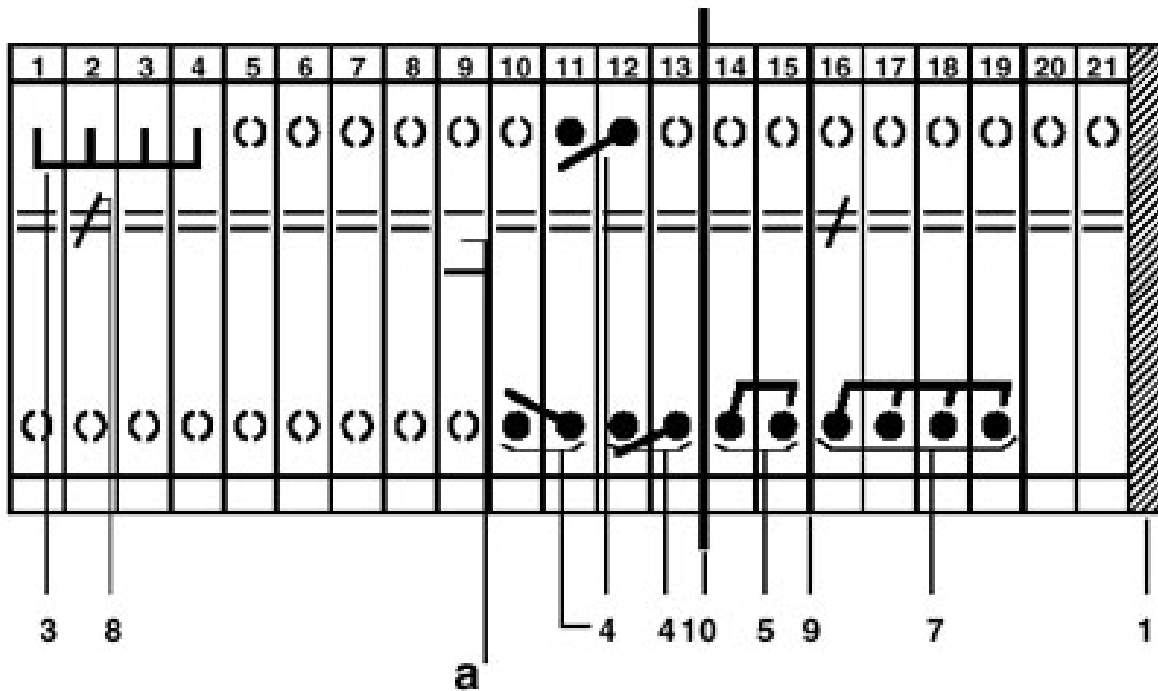


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Circuit diagram



- 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-phasige 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

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/gb/products/0311812>

 <b>IECEE CB Scheme</b> Approval ID: NL-65058				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	400 V	-	-	- 6

 <b>EAC</b> Approval ID: KZ7500651131219505				
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 <b>cULus Recognized</b> Approval ID: E60425				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
B				
	300 V	50 A	26 - 8	-
C				
	300 V	50 A	26 - 8	-

 <b>KEMA-KEUR</b> Approval ID: 71-113436 REV.1				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
keine				
	400 V	-	-	- 6

<b>DNV</b> Approval ID: TAE00001CT				
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## Classifications

### ECLASS

ECLASS-13.0	27250109
ECLASS-15.0	27250109

### ETIM

ETIM 10.0	EC000902
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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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### EF3.1 Climate Change

CO2e kg	0.352 kg CO2e
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PHOENIX CONTACT Ltd  
Halesfield 13, Telford  
Shropshire, TF7 4PG  
01952 681700  
[info@phoenixcontact.co.uk](mailto:info@phoenixcontact.co.uk)