

3000949

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Test disconnect terminal block, with two test sockets for 4 mm test plugs, or for receiving bridge bars or screw bridges, nom. voltage: 400 V, nominal current: 41 A, connection method: Screw connection, Rated cross section: 6 mm², cross section: 0.5 mm² - 10 mm², mounting type: NS 35/7,5, NS 35/15, NS 32, color: red

Commercial data

Item number	3000949
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	****
Product key	BEK233
GTIN	4046356763240
Weight per piece (including packing)	34 g
Weight per piece (excluding packing)	34 g
Customs tariff number	85369010
Country of origin	CN



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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

Connection data

Number of connections per level	2
Nominal cross section	6 mm²
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 mm² 10 mm²
Cross section AWG	20 8 (converted acc. to IEC)
Conductor cross section flexible	0.5 mm² 6 mm²
Conductor cross section, flexible [AWG]	20 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm² 6 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm² 4 mm²
2 conductors with same cross section, solid	0.5 mm² 2.5 mm²
2 conductors with same cross section, flexible	0.5 mm² 6 mm²
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.5 mm² 4 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 4 mm²
Nominal current	41 A
Maximum load current	55 A (with 10 mm² conductor cross section)
Nominal voltage	400 V
Nominal cross section	6 mm²

Dimensions

Width	8.2 mm
End cover width	2.2 mm
Height	72 mm
Depth on NS 32	56.5 mm



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Depth on NS 35/7,5	51.5 mm
Depth on NS 35/15	59 mm
Material specifications	
Color	red
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-40 °C
Relative insulation material temperature index (Elec., UL 746 B)	125 °C
Electrical tests	
Surge voltage test	
Test voltage setpoint	7.3 kV
Result	Test passed
Temperature-rise test	
Requirement temperature-rise test	Increase in temperature ≤ 45 K
Result	Test passed
Short-time withstand current 6 mm²	0.72 kA
Short-time withstand current 10 mm²	1.2 kA
Result	Test passed
Power-frequency withstand voltage	
Test voltage setpoint	1.89 kV
Result	Test passed
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Mechanical properties	
Mechanical data	
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	5 N
Result	Test passed
Toot for conductor domests and alestrating	
Test for conductor damage and slackening	10 (+/ 2) rpm
Rotation speed Revolutions	10 (+/- 2) rpm
	135
Conductor cross section/weight	0.5 mm² / 0.3 kg 6 mm² / 1.4 kg
	0 mm² / 1.4 kg



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Screw thread

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	10 mm² / 2 kg
Result	Test passed
vironmental and real-life conditions	
Oscillation/broadband noise	
Specification	DIN EN 50155 (VDE 0115-200):2018-05
Spectrum	Service life test category 2, bogie-mounted
Frequency	$f_1 = 5 \text{ Hz to } f_2 = 250 \text{ Hz}$
ASD level	6.12 (m/s²)²/Hz
Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Shocks	
Pulse shape	Semi-sinusoidal
Acceleration	30g
Shock duration	18 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Ambient conditions	
Ambient temperature (operation)	-60 °C 110 °C (Operating temperature range incl. self-heating;
Ambient temperature (operation)	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 %
andards and regulations	
•	
Connection in acc. with standard	IEC 60947-7-1
ounting	
Mounting type	NS 35/7,5
	NS 35/15
	NS 32

МЗ

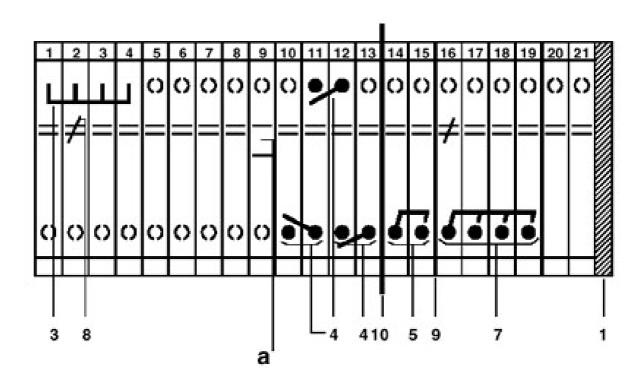


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Drawings

Circuit diagram



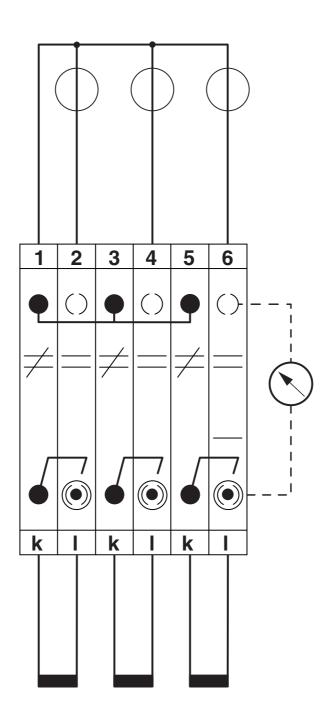
- a = open
- 1 = cover
- 3 = fixed bridge
- 4 = switch bar, for 2 terminal blocks, useable on both sides of the disconnect point, inward switching motion
- 5 = switch bar, for 2 terminal blocks, useable on both sides of the disconnect point, outward switching motion
- 7 = switch bar, for 3-phasige short-circuiting 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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Schematic diagram



Three-phase transducer test set



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Schematic diagram 2 2 2 1 2 **(** k k k ı k b d a

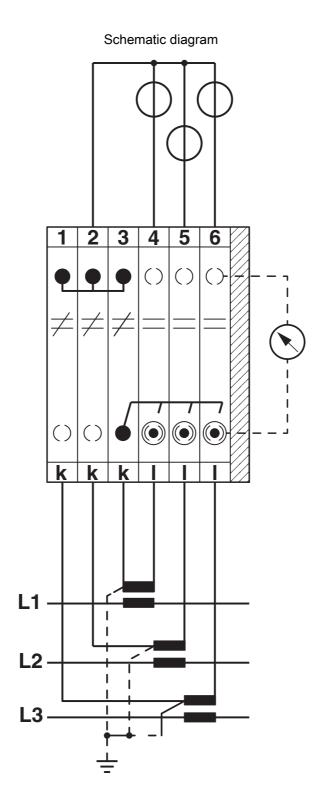
Simple current transformer test circuit

- a = normal operation
- b = measured value testing
- c = transformer short-circuit
- d = relay testing



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Three-phase linked transducer test set



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Circuit diagram





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/sg/products/3000949



cULus Recognized Approval ID: E60425				
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
Use group B				
	300 V	50 A	16 - 8	-
Use group C				
	300 V	50 A	16 - 8	-



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Classifications

ECLASS

	ECLASS-11.0	27141126		
	ECLASS-12.0	27141126		
	ECLASS-13.0	27250108		
ETIM				
	ETIM 9.0	EC000902		
UNSPSC				
	UNSPSC 21.0	39121400		



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Environmental product compliance

EU RoHS

20 1.01.0	
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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