

3049961

https://www.phoenixcontact.com/sg/products/3049961

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.



Feed-through terminal block, nom. voltage: 1000 V, nominal current: 41 A, number of connections: 2, connection method: Bolt connection, 1 level, Rated cross section: 6 mm², mounting type: NS 35/7,5, NS 35/15, color: gray

Your advantages

- · Four bridge shafts per terminal block
- · Easy bridging and potential distribution using the patented plug-in bridges from the CLIPLINE complete system
- · The screws are secured against loosening by captive spring-loaded spacers
- · Large-surface labeling options in the terminal center and above the terminal points
- · Terminal point always freely accessible

Commercial data

Item number	3049961
Packing unit	50 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	****
Product key	BE4312
Catalog page	Page 381 (C-1-2019)
GTIN	4046356431385
Weight per piece (including packing)	32.81 g
Weight per piece (excluding packing)	32.81 g
Customs tariff number	85369010
Country of origin	CN



3049961

https://www.phoenixcontact.com/sg/products/3049961

Technical data

Tightening torque

Cross section

Connection in acc. with standard

Cross section range AWG

Notes	
General	Note: the BE-RT path extension is to be used for non-insulated cable lugs (see accessories).
Product properties	
Product type	Bolt connection 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	8 kV
Maximum power dissipation for nominal condition	1.31 W
Connection data	
Number of connections per level	2
Nominal cross section	6 mm²
1 level	
Stripping length	The stripping length depends on the specification provided by the cable lug manufacturer.
Connection in acc. with standard	IEC 60947-7-1
Nominal current	41 A
Maximum load current	41 A (with 6 mm² conductor cross section)
Nominal voltage	1000 V
Nominal cross section	6 mm²
Cable lug connection DIN 46234:1980-03	
Connection in acc. with standard	DIN 46234:1980-03
Cross section	0.5 mm² 6 mm²
Cross section range AWG	20 10 (converted acc. to IEC)
Hole diameter	5.3 mm
Width	10 mm
Bolt diameter	5 mm
Screw thread	M5

2.5 ... 3 Nm

DIN 46237:1970-07

16 ... 10 (converted acc. to IEC)

 $1\ mm^2\ ...\ 6\ mm^2$



3049961

https://www.phoenixcontact.com/sg/products/3049961

Hole diameter	5.3 mm
Width	10 mm
Bolt diameter	5 mm
Screw thread	M5
Tightening torque	2.5 3 Nm
Identification color of ring cable lugs : red	1 mm²
Identification color of ring cable lugs : blue	2.5 mm²
Identification color of ring cable lugs : yellow	6 mm²

Dimensions

Width	16.3 mm
End cover width	2.2 mm
Height	66 mm
Depth on NS 35/7,5	51 mm
Depth on NS 35/15	58.5 mm

Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0
Insulating material group	1
Insulating material	PA
Static insulating material application in cold	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °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)	28 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

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	
Result	Test passed	

Power-frequency withstand voltage



3049961

https://www.phoenixcontact.com/sg/products/3049961

Test voltage setpoint	2.2 kV
Result	Test passed
a chanical proportion	
echanical properties	
Mechanical data	
Open side panel	Yes
echanical tests	
Mechanical strength	
Result	Test passed
rtocalt	1001, pa0000
Attachment on the carrier	
DIN rail/fixing support	NS 32/NS 35
Result	Test passed
nvironmental and real-life conditions	
TVII OTITICITALI AND TCAI-IIIC CONDITIONS	
Needle-flame test	
Time of exposure	30 s
Result	Test passed
Oscillation/broadband noise	
	DIN EN 50155 (VDE 0115-200):2018-05
Specification Spectrum	Service life test category 2, bogie-mounted
Frequency	$f_1 = 5$ Hz to $f_2 = 250$ Hz
ASD level	6.12 (m/s ²) ² /Hz
Acceleration	3.12g
Acceleration	
Test duration per axis	
Test directions	5 h
Test duration per axis Test directions	
·	5 h
Test directions	5 h
Test directions Shocks	5 h X-, Y- and Z-axis
Test directions Shocks Pulse shape	5 h X-, Y- and Z-axis Half-sine
Test directions Shocks Pulse shape Acceleration	5 h X-, Y- and Z-axis Half-sine 30g
Test directions Shocks Pulse shape Acceleration Shock duration	5 h X-, Y- and Z-axis Half-sine 30g 18 ms
Test directions Shocks Pulse shape Acceleration Shock duration Number of shocks per direction	5 h X-, Y- and Z-axis Half-sine 30g 18 ms 3
Test directions Shocks Pulse shape Acceleration Shock duration Number of shocks per direction Test directions	5 h X-, Y- and Z-axis Half-sine 30g 18 ms 3 X-, Y- and Z-axis (pos. and neg.)
Test directions Shocks Pulse shape Acceleration Shock duration Number of shocks per direction Test directions Ambient conditions	5 h X-, Y- and Z-axis Half-sine 30g 18 ms 3 X-, Y- and Z-axis (pos. and neg.) -60 °C 110 °C (Operating temperature range incl. self-heating)
Test directions Shocks Pulse shape Acceleration Shock duration Number of shocks per direction Test directions Ambient conditions Ambient temperature (operation)	5 h X-, Y- and Z-axis Half-sine 30g 18 ms 3 X-, Y- and Z-axis (pos. and neg.) -60 °C 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.) -25 °C 60 °C (for a short time, not exceeding 24 h, -60 °C to
Test directions Shocks Pulse shape Acceleration Shock duration Number of shocks per direction Test directions Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport)	5 h X-, Y- and Z-axis Half-sine 30g 18 ms 3 X-, Y- and Z-axis (pos. and neg.) -60 °C 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.) -25 °C 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)
Test directions Shocks Pulse shape Acceleration Shock duration Number of shocks per direction Test directions Ambient conditions Ambient temperature (operation) Ambient temperature (storage/transport) Ambient temperature (assembly)	5 h X-, Y- and Z-axis Half-sine 30g 18 ms 3 X-, Y- and Z-axis (pos. and neg.) -60 °C 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.) -25 °C 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C) -5 °C 70 °C



3049961

https://www.phoenixcontact.com/sg/products/3049961

Standards and regulations

Connection in acc. with standard	IEC 60947-7-1
Mounting	
Mounting type	NS 35/7,5
	NS 35/15

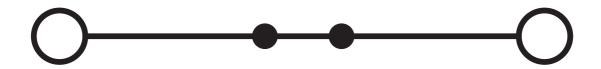


3049961

https://www.phoenixcontact.com/sg/products/3049961

Drawings

Circuit diagram





3049961

https://www.phoenixcontact.com/sg/products/3049961

Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/sg/products/3049961



EAC

Approval ID: RU C-DE.A*30.B.01742



EAC

Approval ID: RU C-DE.BL08.B.00540



3049961

https://www.phoenixcontact.com/sg/products/3049961

Classifications

ECLASS

	ECLASS-11.0	27141120
	ECLASS-13.0	27250101
FI	TIM	
	IIVI	
	ETIM 9.0	EC000897
U	NSPSC	
	UNSPSC 21.0	39121400



3049961

https://www.phoenixcontact.com/sg/products/3049961

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 SEA Pte. Ltd. 105 Eunos Avenue 3, #04-00 Singapore 409836 +65 6228 4900 marketing@phoenixcontact.com.sg