

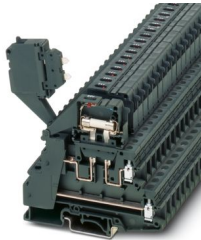
# TB 4-2L-HESILED 24 (5X20) I - Multi-level fuse terminal block



3246854

<https://www.phoenixcontact.com/sg/products/3246854>

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Multi-level fuse terminal block, with LED display for 15-30 V AC/DC, lower level feed-through, fuse type: Glass / ceramics / ..., fuse type: G / 5 x 20, connection method: Screw connection, 1st and 2nd level, cross section: 0.5 mm<sup>2</sup>- 6 mm<sup>2</sup>, 3rd level, mounting type: NS 35/7,5, NS 35/15, NS 32, color: dark gray

## Commercial data

Item number	3246854
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	*****
Product key	BEK234
GTIN	4046356689700
Weight per piece (including packing)	33.6 g
Weight per piece (excluding packing)	33.6 g
Customs tariff number	85369095
Country of origin	PL

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## Technical data

### Product properties

Product type	Fuse terminal block
Number of connections	4
Number of rows	2

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Fuse type	Glass / ceramics / ...
Fuse	G / 5 x 20

### Connection data

Number of connections per level	2
Nominal cross section	4 mm <sup>2</sup>
Rated cross section AWG	10

### 1st and 2nd level

Screw thread	M3
Tightening torque	0.5 ... 0.6 Nm
Stripping length	8 mm
Internal cylindrical gage	A3 B2
Connection in acc. with standard	IEC 60947-7-3
Conductor cross section rigid	0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Cross section AWG	20 ... 10 (converted acc. to IEC)
Conductor cross section flexible	0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross section, flexible [AWG]	20 ... 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm <sup>2</sup> ... 4 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> ... 1.5 mm <sup>2</sup>
2 conductors with the same cross-section AWG rigid	20 ... 14 (converted acc. to IEC)
2 conductors with same cross section, flexible	0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
2 conductors with the same cross-section AWG flexible	20 ... 14 (converted acc. to IEC)
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Connection in acc. with standard	IEC 60947-7-3
Conductor cross section rigid	0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Cross section AWG	20 ... 10 (converted acc. to IEC)
Conductor cross section flexible	0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>

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Conductor cross section, flexible [AWG]	20 ... 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Cross-section with insertion bridge, rigid	0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Cross-section with insertion bridge, flexible	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Cross-section with insertion bridge, flexible, with ferrule without plastic sleeve	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Cross-section with insertion bridge, flexible, with ferrule with plastic sleeve	0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
2 conductors with same cross section, solid	0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
2 conductors with the same cross-section AWG rigid	20 ... 14 (converted acc. to IEC)
2 conductors with same cross section, flexible	0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
2 conductors with the same cross-section AWG flexible	20 ... 14 (converted acc. to IEC)
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
2 conductors with the same cross section, flexible, with ferrule with plastic sleeve	0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Nominal current	30 A
Maximum load current	30 A (Lower level)
Nominal voltage	24 V (the voltage is determined by the light indicator.)
Nominal cross section	4 mm <sup>2</sup>

## 3rd level

Maximum load current	6.3 A
	6.3 A (Upper level)

## Dimensions

Width	8.2 mm
Height	86.5 mm
Depth on NS 32	84 mm
Depth on NS 35/7,5	79 mm
Depth on NS 35/15	86.5 mm

## Material specifications

Color	dark gray
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA

## Electrical tests

### Surge voltage test

Test voltage setpoint	7.3 kV
Result	Test passed
Short-time withstand current 4 mm <sup>2</sup>	0.48 kA

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Result	Test passed
Power-frequency withstand voltage	
Test voltage setpoint	1.89 kV
Result	Test passed

## Mechanical properties

Mechanical data	
Open side panel	No

## Mechanical tests

Mechanical strength	
Result	Test passed

Attachment on the carrier	
DIN rail/fixing support	NS 32/NS 35
Result	Test passed

Test for conductor damage and slackening	
Rotation speed	9 rpm
Revolutions	135
Conductor cross section/weight	0.5 mm <sup>2</sup> / 0.3 kg
Result	Test passed

Test for conductor damage and slackening	
Rotation speed	9 rpm
Revolutions	135
Conductor cross section/weight	4 mm <sup>2</sup> / 0.9 kg
Result	Test passed

Test for conductor damage and slackening	
Rotation speed	9 rpm
Revolutions	135
Conductor cross section/weight	6 mm <sup>2</sup> / 1.4 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	Service life test category 1, class B, body mounted
Frequency	f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 150 Hz
ASD level	0.964 (m/s <sup>2</sup> ) <sup>2</sup> /Hz

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Acceleration	0.58g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

## Shocks

Specification	DIN EN 50155 (VDE 0115-200):2022-06
Pulse shape	Half-sine
Acceleration	5g
Shock duration	30 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Result	Test passed

## Standards and regulations

Connection in acc. with standard	IEC 60947-7-3
	IEC 60947-7-3

## Mounting

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

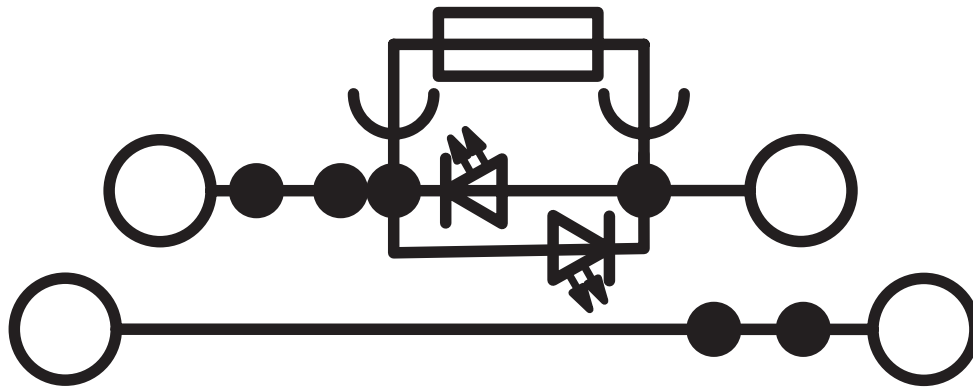
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## Drawings

Circuit diagram



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## Approvals

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 <b>cULus Recognized</b> Approval ID: E60425				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
Use group B				
upper level	600 V	6.3 A	20 - 10	-
lower level	600 V	30 A	20 - 10	-
Use group C				
upper level	600 V	6.3 A	20 - 10	-
lower level	600 V	30 A	20 - 10	-

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## Classifications

### ECLASS

ECLASS-11.0	27141116
ECLASS-12.0	27141116
ECLASS-13.0	27250113

### ETIM

ETIM 9.0	EC000899
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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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PHOENIX CONTACT SEA Pte. Ltd.  
105 Eunos Avenue 3, #04-00  
Singapore 409836  
+65 6228 4900  
[marketing@phoenixcontact.com.sg](mailto:marketing@phoenixcontact.com.sg)