

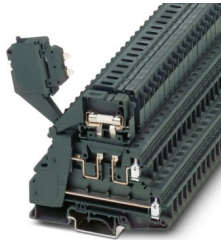
# TB 4-2L-HESI (5X20) I - Multi-level fuse terminal block



3246847

<https://www.phoenixcontact.com/sg/products/3246847>

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Multi-level fuse terminal block, lower level feed-through, fuse type: Glass / ceramics / ..., fuse type: G / 5 x 20, nom. voltage: 400 V, nominal current: 30 A, connection method: Screw connection, 1st and 2nd level, Rated cross section: 4 mm<sup>2</sup>, 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	3246847
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	*****
Product key	BEK234
GTIN	4046356689694
Weight per piece (including packing)	32.87 g
Weight per piece (excluding packing)	32.87 g
Customs tariff number	85369095
Country of origin	PL

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## Technical data

### Notes

#### General

Note	The current is determined by the fuse used, the voltage by the fuse or selected light indicator.
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### 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 / ...
Maximum power dissipation for nominal condition	1.02 W
Fuse	G / 5 x 20
Maximum power dissipation	max. 1.6 W (with single arrangement of the fuse terminal block in the event of overload)
	max. 1.6 W (With interconnected arrangement of several fuse terminal blocks in the event of overload)
	max. 4 W (with single arrangement of the fuse terminal block in the event of a short-circuit)
	max. 2.5 W (With interconnected arrangement of several fuse terminal blocks in the event of a short-circuit)

### 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)

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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	400 V
Nominal cross section	4 mm <sup>2</sup>

## 3rd level

Maximum load current	6.3 A
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## 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	traffic grey B (RAL 7043)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °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
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed

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Smoke gas toxicity NFPA 130 (SMP 800C)	passed
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## 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
Result	Test passed

### Power-frequency withstand voltage

Test voltage setpoint	1.89 kV
Result	Test passed

## Mechanical properties

### Mechanical data

Open side panel	No
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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
Result	Test passed

### Test for conductor damage and slacking

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 slacking

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 slacking

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

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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	$f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$
ASD level	$0.964 \text{ (m/s}^2\text{)}^2\text{/Hz}$
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

## 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

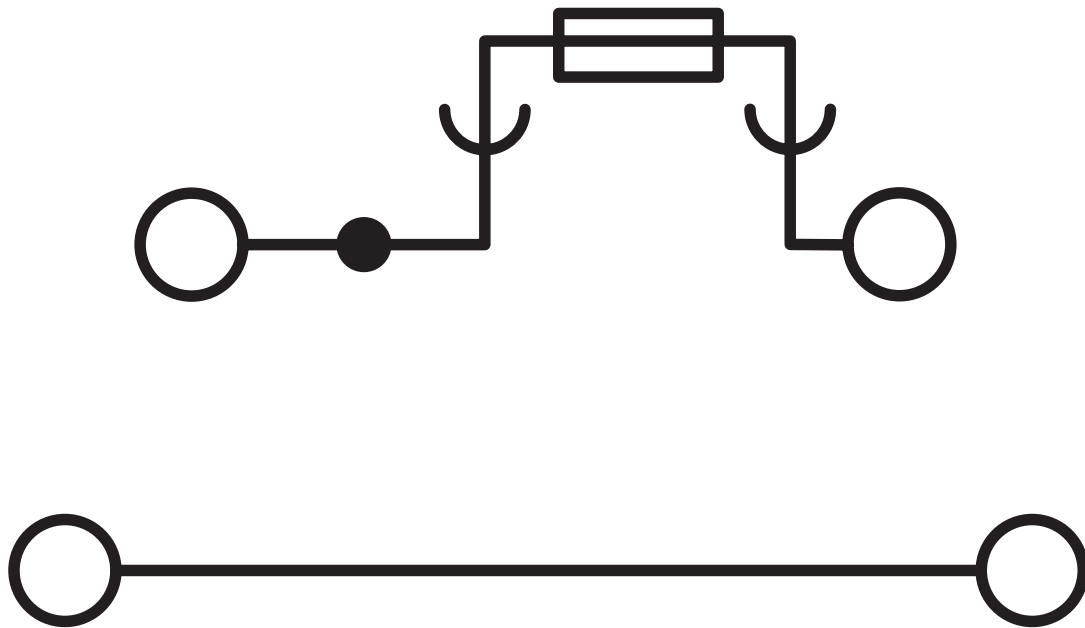
Connection in acc. with standard	IEC 60947-7-3
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## Mounting

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

Drawings

Circuit diagram



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## Approvals

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**EAC**

Approval ID: EACKZ 08593



**cULus Recognized**

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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### 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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