

# UPCV3K 4-G-7,62 - Feed-through terminal block



1838381

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Feed-through terminal block, nom. voltage: 800 V, nominal current: 20 A, number of connections: 4, number of positions: 1, connection method: Screw/plug-in connection, cross section: 0.2 mm<sup>2</sup> - 4 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, NS 32, color: gray

## Your advantages

- Can be plugged into PC 4 and PC 5 plugs
- Vibration-resistant connection with flange terminal blocks that can be aligned (-F)
- For mounting on NS 35/... and NS 15... DIN rails in accordance with EN 60715 - or in the case of the UPCV3K 4-G-7,62 - for mounting on NS 35/... and NS 32 DIN rails
- UPCV3K provides three plug outlets per terminal point

## Commercial data

Item number	1838381
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE12
Product key	BE1241
GTIN	4017918134358
Weight per piece (including packing)	16.18 g
Weight per piece (excluding packing)	16.203 g
Customs tariff number	85369010
Country of origin	PL

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## Technical data

### Notes

General	Current and voltage are determined by the plug used.
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### Product properties

Product type	Plug-in terminal block
Product family	PCVK 4
Number of positions	1
Pitch	7.62 mm
Number of connections	4
Number of rows	1
Potentials	1

### Electrical properties

Maximum power dissipation for nominal condition	1.02 W
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### Connection data

Number of connections per level	4
Nominal cross section	4 mm <sup>2</sup>
Connection method	Screw/plug-in connection
Screw thread	M3
Tightening torque	0.5 ... 0.6 Nm
Stripping length	10 mm
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Cross section AWG	24 ... 12 (converted acc. to IEC)
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross-section, flexible [AWG]	24 ... 12 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Flexible conductor cross-section (ferrule with plastic sleeve)	0.25 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve)	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
2 conductors with same cross section, solid	0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
2 conductors with the same cross-section AWG rigid	24 ... 14 (converted acc. to IEC)
2 conductors with same cross section, flexible	0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
2 conductors with the same cross-section AWG flexible	24 ... 14 (converted acc. to IEC)
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.25 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> ... 2.5 mm <sup>2</sup>
Nominal current	20 A
Maximum load current	20 A (with 4 mm <sup>2</sup> conductor cross-section)
Nominal voltage	800 V

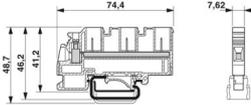
### Dimensions

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Dimensional drawing	
Width	7.6 mm
Height	74.4 mm
Depth on NS 32	46.2 mm
Depth on NS 35/7,5	41.2 mm
Depth on NS 35/15	48.7 mm
Pitch	7.62 mm

## Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Contact surface	Tin Sn
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
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

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Open side panel	No
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## Mechanical tests

### Attachment on the carrier

DIN rail/fixing support	NS 35
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):2018-05
Spectrum	Long 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

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 ... 100 °C (max. operating temperature range including self-heating, see derating curve)
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 %

## Mounting

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

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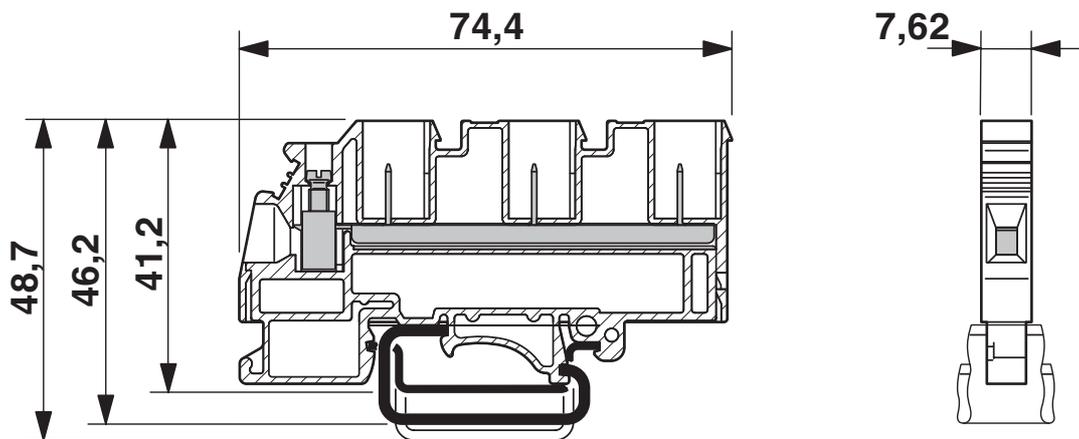
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## Drawings

Dimensional drawing



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1838381>



**EAC**

Approval ID: KZ7500651131219505



**cULus Recognized**

Approval ID: E60425

	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $\text{mm}^2$
B				
	300 V	30 A	30 - 10	-
C				
	300 V	30 A	30 - 10	-
D				
	600 V	5 A	30 - 10	-

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## Classifications

### ECLASS

ECLASS-13.0	27250117
ECLASS-15.0	27250117

### ETIM

ETIM 9.0	EC000897
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### UNSPSC

UNSPSC 21.0	39121400
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	4f62a47c-2386-413a-9b14-2453ef4cade3

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