

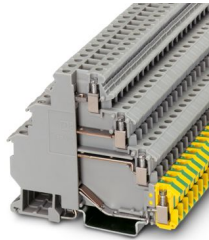
# VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block



3024465

<https://www.phoenixcontact.com/us/products/3024465>

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.



Initiator/actuator terminal block, nom. voltage: 400 V, nominal current: 24 A, connection method: Screw connection, 2nd, 3rd and 4th level, Rated cross section: 2.5 mm<sup>2</sup>, cross section: 0.2 mm<sup>2</sup> - 4 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: gray

## Commercial data

Item number	3024465
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE12
Product key	BE1218
GTIN	4017918282790
Weight per piece (including packing)	27.53 g
Weight per piece (excluding packing)	27.53 g
Customs tariff number	85369010
Country of origin	PL

# VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block



3024465

<https://www.phoenixcontact.com/us/products/3024465>

## Technical data

### Product properties

Product type	Sensor/actuator terminal block
Number of connections	7
Number of rows	4

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Electrical properties

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	0.77 W

### Connection data

Grounding foot	Yes
Number of connections per level	2
Nominal cross section	2.5 mm <sup>2</sup>

### 2nd, 3rd and 4th level

Connection method	Screw connection
Screw thread	M3
Note	Please observe the current carrying capacity of the DIN rails.
Tightening torque	0.5 ... 0.6 Nm
Stripping length	8 mm
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 60947-7-1/IEC 60947-7-2
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> ... 2.5 mm <sup>2</sup>
Conductor cross-section, flexible [AWG]	24 ... 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Flexible conductor cross-section (ferrule with plastic sleeve)	0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Cross-section with insertion bridge, rigid	4 mm <sup>2</sup>
Cross-section with insertion bridge, flexible	2.5 mm <sup>2</sup>
Nominal cross section	2.5 mm <sup>2</sup>
Nominal current	24 A
Maximum load current	26 A (with a 2.5 mm <sup>2</sup> conductor cross-section)
Nominal voltage	400 V (when using EB insertion bridges, the nominal voltage is reduced to 250 V.)

### Ex data

Rated data (ATEX/IECEx)

# VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block



3024465

<https://www.phoenixcontact.com/us/products/3024465>

Identification	Ⓜ II 2 G Ex eb IIC Gb
Operating temperature range	-50 °C ... 105 °C
Ex-certified accessories	1205053 SZS 0,6X3,5 1201442 E/UK
List of bridges	Insertion bridge / EB 2- DIK GY / 2715898 Insertion bridge / EB 2- DIK RD / 2716693 Insertion bridge / EB 2- DIK BU / 2716648 Insertion bridge / EB 3- DIK GY / 2715908 Insertion bridge / EB 3- DIK RD / 2716745 Insertion bridge / EB 3- DIK BU / 2716651 Insertion bridge / EB 10- DIK GY / 2715937 Insertion bridge / EB 10- DIK RD / 2716774 Insertion bridge / EB 10- DIK BU / 2716680
Bridge data	16 A / 2.5 mm <sup>2</sup> ΔT 45 K
Ex temperature increase	37 K (20 A / 2.5 mm <sup>2</sup> )
at bridging with insertion bridge	176 V
Rated insulation voltage	160 V
output	(Permanent)

## Ex level General

Rated voltage	176 V
Rated current	20 A (ΔT 45 K)
Maximum load current	25 A (ΔT 45 K)

## Ex connection data General

Torque range	0.5 Nm ... 0.6 Nm
Nominal cross section	2.5 mm <sup>2</sup>
Rated cross section AWG	14
Connection capacity rigid	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Connection capacity AWG	24 ... 12
Connection capacity flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Connection capacity AWG	24 ... 14
2 conductors with same cross section, solid	0.2 mm <sup>2</sup> ... 1 mm <sup>2</sup>
2 conductors with the same cross-section AWG rigid	24 ... 17
2 conductors with same cross section, stranded	0.2 mm <sup>2</sup> ... 1 mm <sup>2</sup>
2 conductors with the same cross-section AWG flexible	24 ... 17
output	(Permanent)

## Ex level Level 1

Contact resistance	0.8 mΩ
output	(Permanent)

## Ex level Level 2

Contact resistance	0.6 mΩ
output	(Permanent)

# VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block



3024465

<https://www.phoenixcontact.com/us/products/3024465>

Ex level Level 3

Contact resistance	0.5 mΩ
--------------------	--------

## Dimensions

Width	6.2 mm
Height	82.5 mm
Depth on NS 35/7,5	70 mm
Depth on NS 35/15	77.5 mm

## Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V2
Insulating material group	I
Insulating material	PA

## Mechanical properties

Mechanical data

Open side panel	No
-----------------	----

## Environmental and real-life conditions

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

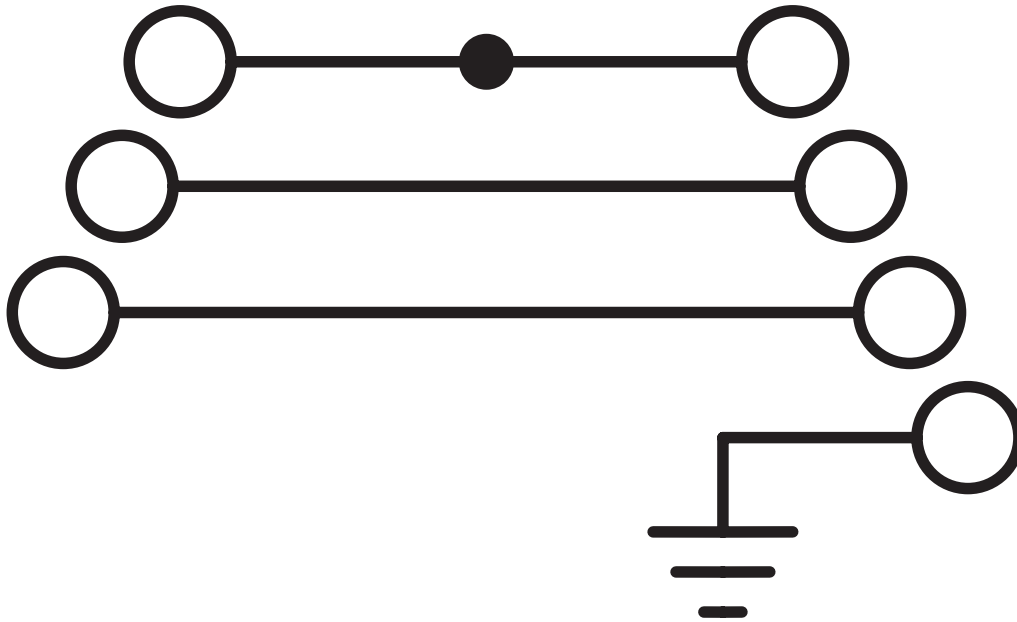
Connection in acc. with standard	IEC 60947-7-1/IEC 60947-7-2
----------------------------------	-----------------------------

## Mounting

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

Drawings

Circuit diagram



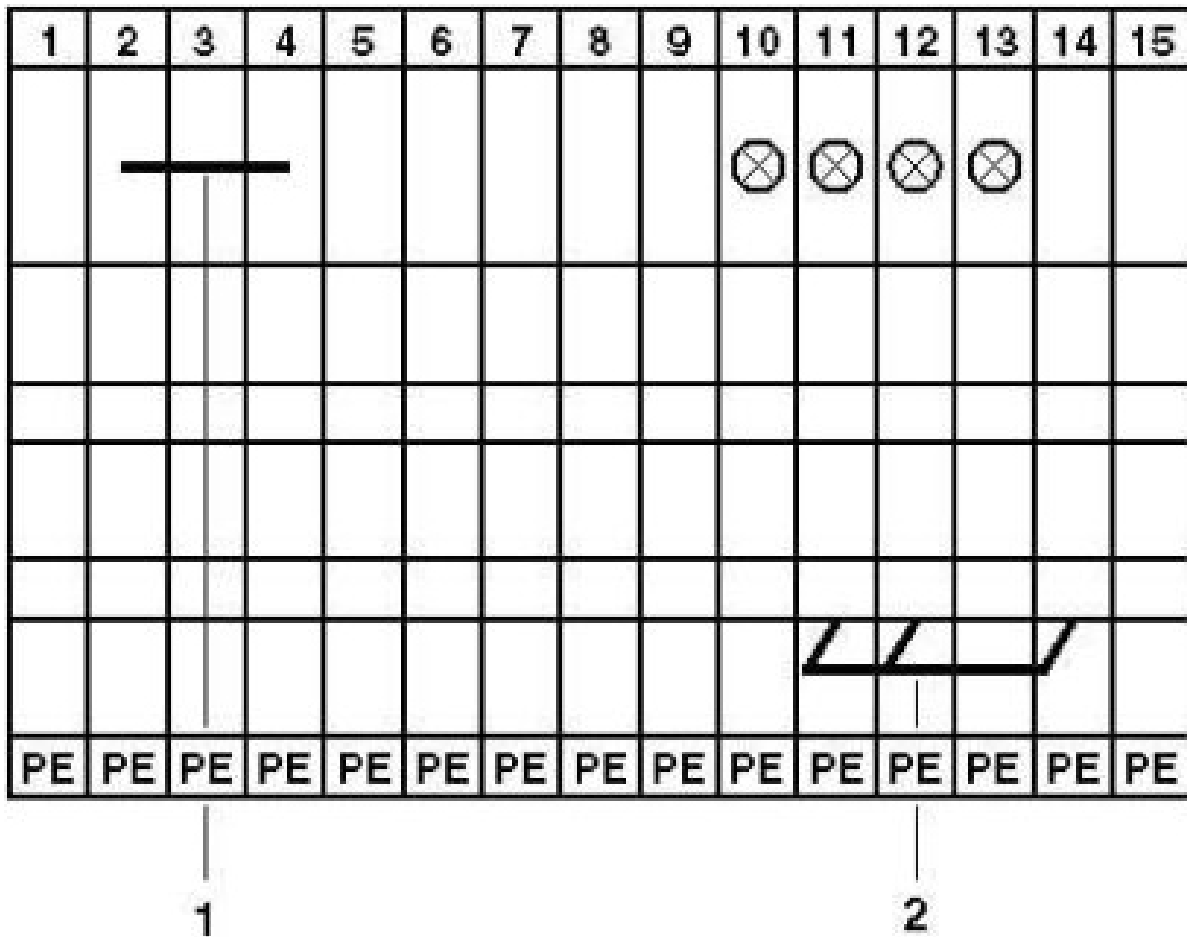
# VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block



3024465

<https://www.phoenixcontact.com/us/products/3024465>

Circuit diagram



1 = insertion bridge  
2 = fixed bridge

# VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block



3024465

<https://www.phoenixcontact.com/us/products/3024465>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3024465>



**EAC Ex**

Approval ID: RU C-DE.Ax07.B.03227



**EAC Ex**

Approval ID: KZ 7500525010101950



**ATEX**

Approval ID: SEV23ATEX0682U

# VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block



3024465

<https://www.phoenixcontact.com/us/products/3024465>

## Classifications

### ECLASS

ECLASS-13.0	27250112
ECLASS-15.0	27250112

### ETIM

ETIM 10.0	EC000900
-----------	----------

### UNSPSC

UNSPSC 21.0	39121400
-------------	----------

# VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block



3024465

<https://www.phoenixcontact.com/us/products/3024465>

## 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%
-------------------------------------	----------------------------

### EF3.1 Climate Change

CO2e kg	0.164 kg CO2e
---------	---------------

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)