

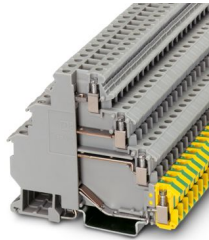
# VIOK 1,5-3D/PE-EX - Initiator/actuator terminal block



3024465

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

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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

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## 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)

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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)

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## Ex level Level 3

Contact resistance	0.5 mΩ
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## 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
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## 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

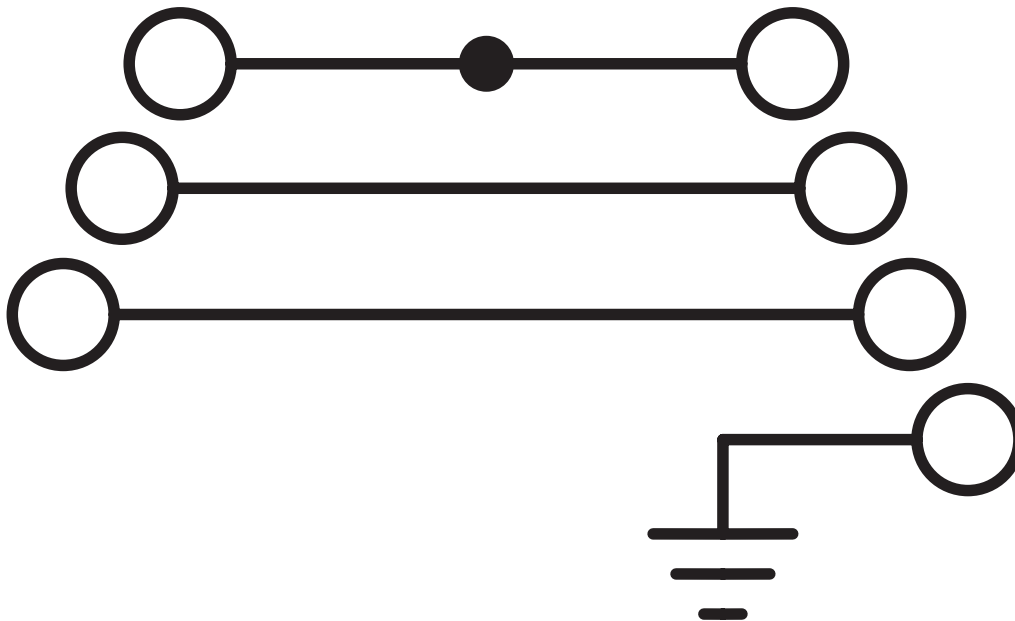
Connection in acc. with standard	IEC 60947-7-1/IEC 60947-7-2
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## Mounting

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

## Drawings

Circuit diagram



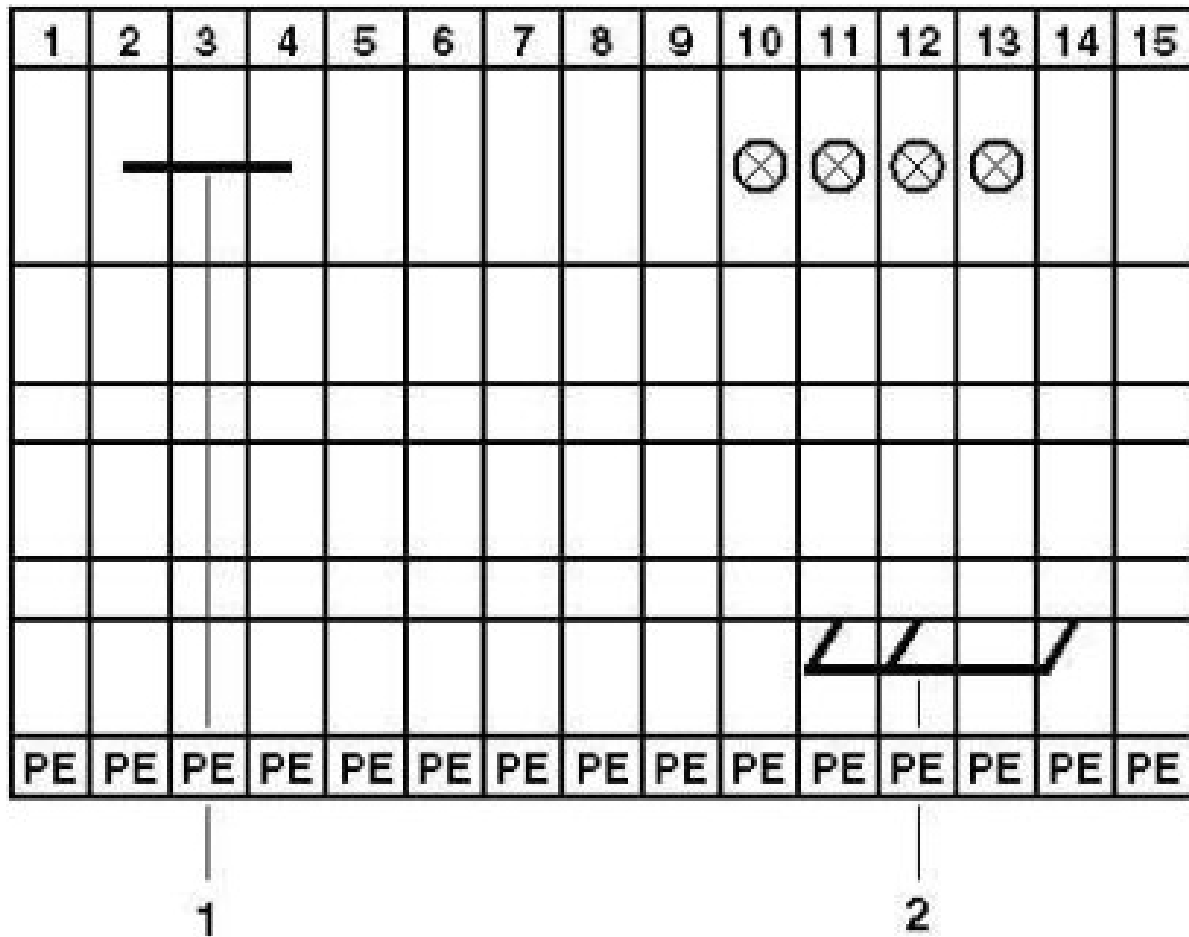
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Circuit diagram



1 = insertion bridge  
2 = fixed bridge

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## 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

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## Classifications

### ECLASS

ECLASS-13.0	27250112
ECLASS-15.0	27250112

### ETIM

ETIM 10.0	EC000900
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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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### EF3.1 Climate Change

CO2e kg	0.164 kg CO2e
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