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

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^2, cross section: 0.2 mm^2 - 4 mm^2, 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

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 mm²

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 mm² ... 4 mm²
Cross section AWG	24 ... 12 (converted acc. to IEC)
Conductor cross-section flexible	0.2 mm² ... 2.5 mm²
Conductor cross-section, flexible [AWG]	24 ... 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm² ... 2.5 mm²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.25 mm² ... 2.5 mm²
Cross-section with insertion bridge, rigid	4 mm²
Cross-section with insertion bridge, flexible	2.5 mm²
Nominal cross section	2.5 mm²
Nominal current	24 A
Maximum load current	26 A (with a 2.5 mm² 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)

Identification	Ⓔx 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 RD / 2716693
	Insertion bridge / EB 3- DIK RD / 2716745
	Insertion bridge / EB 4- DIK RD / 2716758
	Insertion bridge / EB 5- DIK RD / 2716761
	Insertion bridge / EB 5- DIK BU / 2716677
	Insertion bridge / EB 10- DIK RD / 2716774
	Insertion bridge / EB 10- DIK BU / 2716680
	Insertion bridge / EB 10- DIK GY / 2715937
Bridge data	16 A / 2.5 mm² ΔT 45 K
Ex temperature increase	37 K (20 A / 2.5 mm²)
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 mm²
Rated cross section AWG	14
Connection capacity rigid	0.2 mm² ... 4 mm²
Connection capacity AWG	24 ... 12
Connection capacity flexible	0.2 mm² ... 2.5 mm²
Connection capacity AWG	24 ... 14
2 conductors with same cross section, solid	0.2 mm² ... 1 mm²
2 conductors with the same cross-section AWG rigid	24 ... 17
2 conductors with same cross section, stranded	0.2 mm² ... 1 mm²
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)

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

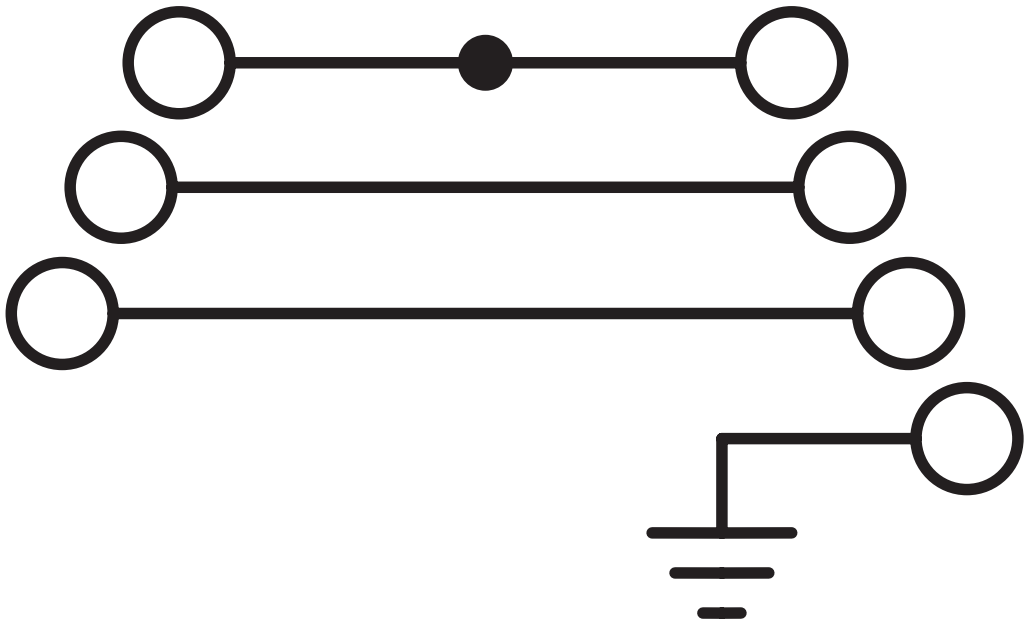
Connection in acc. with standard	IEC 60947-7-1/IEC 60947-7-2

Mounting

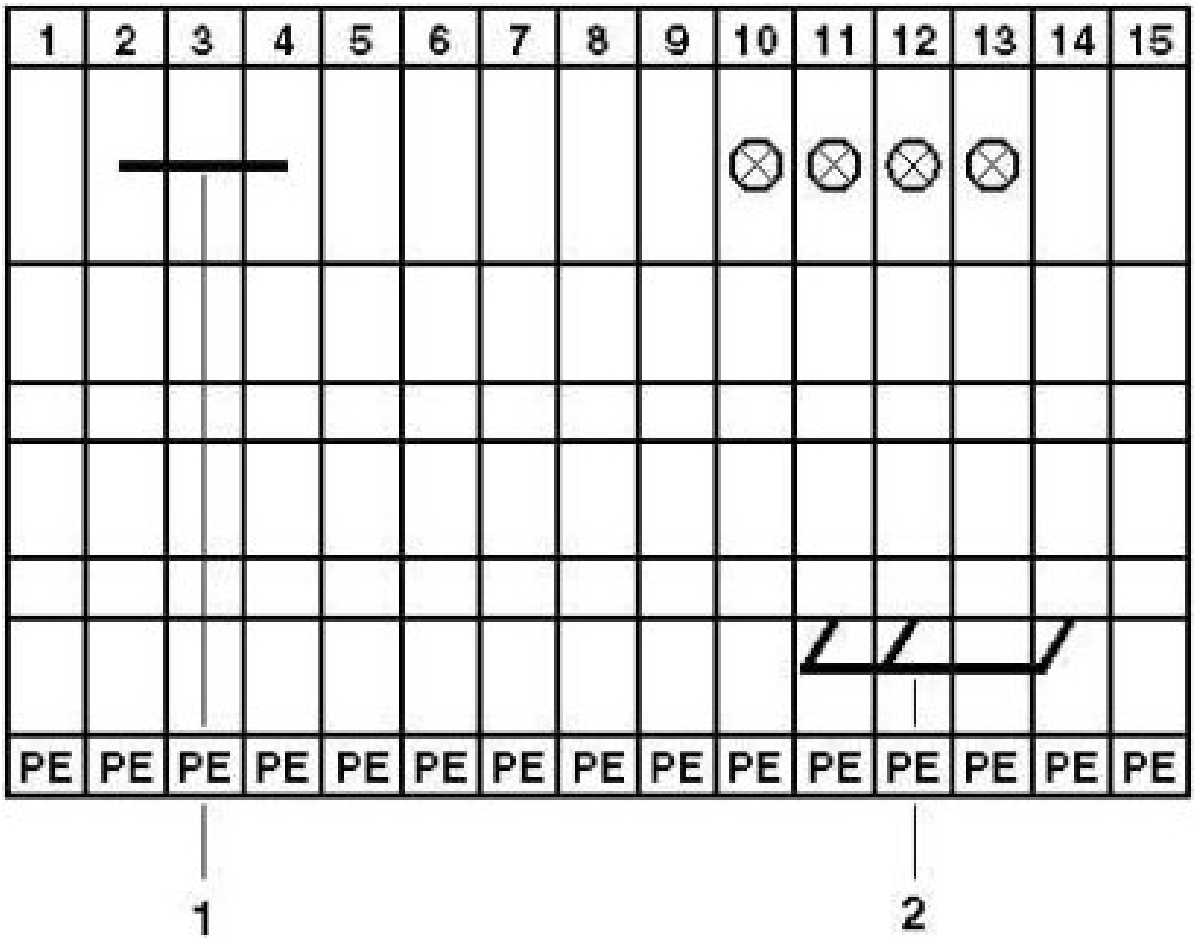
Mounting type	NS 35/7,5
	NS 35/15

Drawings

Circuit diagram



Circuit diagram



1 = insertion bridge
2 = fixed bridge

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

Classifications

ECLASS

ECLASS-13.0	27250112
ECLASS-15.0	27250112

ETIM

ETIM 10.0	EC000900

UNSPSC

UNSPSC 21.0	39121400

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%

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