



(1) **EU-Type Examination Certificate**

- (2) Equipment or protective system intended for use in potentially explosive atmospheres - **Directive 2014/34/EU**
- (3) Certificate number: **SEV 23 ATEX 0682 U**
- (4) Product: Terminal block VIOK 1,5-3D/PE and VIOK 1,5-3D/PE-EX
- (5) Manufacturer: Phoenix Contact GmbH & Co. KG
- (6) Address: Flachsmarktstrasse 8, 32825 Blomberg, Germany
- (7) The equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) Eurofins, notified body No. 1258, in accordance with article 17 of Directive 2014/34/EU of the European parliament and of the council, dated 26 February 2014, certifies that this product has been found to comply with the essential health and safety requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in confidential report no 23CH-00355.X01
- (9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN IEC 60079-0:2018
EN 60079-7:2015
EN IEC 60079-7:2015/A1:2018

Except in respect of those requirements listed at item 18 of the schedule.

- (10) If the sign «X» is placed after the certificate number, it indicates that the product is subjected to special conditions for safe use specified in the schedule to this certificate. The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.
- (11) This EU type examination certificate relates only to design and construction of the specified product. Further requirements of this directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- (12) The marking of the product shall include the following:



Eurofins Electric & Electronic Product Testing AG
Notified Body ATEX

Urban Strebel
 Product Certification



(13)

Appendix

(14)

EU-Type Examination Certificate no. SEV 23 ATEX 0682 U

(15) **General product information**

Feed-through terminal block, type VIOK 1,5-3D/PE and VIOK 1,5-3D/PE-EX, with six screw clamping units, composed of insulating envelope. The terminals are aimed to be fastened on mounting rails NS 35. This certificate covers all color variants of this terminal.

Classification of installation and use:	stationary
Ingress protection:	---
Rated ambient temperature range (°C):	---
Rated ambient temperature range (°C) for Ex Components:	-50 °C to +105 °C

(16) **Report number**

20CH-00335.X01

(17) **"Schedule of limitations"**

- The VIOK 1,5-3D/PE and VIOK 1,5-3D/PE-EX terminals have to be installed in enclosures that meet the requirements of the standards IEC/EN 60079-0 and IEC/EN 60079-7 (for gas atmospheres) and IEC/EN 60079-31 (for dust atmospheres).
- When installing the terminal, clearance and creepage distances of the standard IEC 60079-7 must be observed, as well as reduced current ratings when multiple terminals are installed, according to the rating of the enclosure explained in sub-clauses 5.8, 6.7 and Annex E.
- Service temperature range: from -50°C to +105°C.
- Increased safety of these terminal blocks is only guaranteed when their walls remain intact and undamaged.

(18) **Essential health and safety requirements**

In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
None	

(19) **Drawings and Documents**

See test report "Manufacturer's Documents"

Group type	Type name	Abbreviations are color designations
1	VIOK 1,5-3D/PE VIOK 1,5-3D/PE-EX	Valid for all color variants (e.g. BU, RD, etc.)

Technical data	Group type	VIOK 1,5-3D/PE VIOK 1,5-3D/PE-EX
Rated voltage [V]		176
Rated voltage at bridging with insertion bridge [V]		176

Rated current [A] at rated cross section [mm ²]	20
Rated current with insertion bridge [A]	15
Max. load current [A]	24
Max. load current with insertion bridge [A]	19

Temperature rise [K] at current [A] and at cross section [mm ²]	40 at 20 2.5
Contact resistance [mΩ] First level Second level Third level	 0.8 0.6 0.5

Rated cross-section [mm ²] (AWG)	2.5 (14)
Connection capacity	
- rigid [mm ²] (AWG)	0.2 – 4 (24 -12)
- flexible [mm ²] (AWG)	0.2 – 2,5 (24-14)
2 conductors with same cross section, rigid [mm ²] / (AWG)	0,2 - 1 / (24 - 17)
2 conductors with same cross section, flexible [mm ²] / (AWG)	0,2 - 1 / (24 - 17)

Stripping length [mm]	8
Torque of the clamping screws [Nm]	0.5 ... 0.6
Service temperature [°C]	-50 °C ... +105