



[1] **EU – TYPE EXAMINATION CERTIFICATE**

[2] Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU.

[3] EU-Type Examination Certificate Number: **FIDI 20 ATEX 0019** Issue: **1**

[4] Product: **High-voltage terminal box**

Type: **R3003/R3003S-SRU**

[5] Manufacturer: **TEPEX Ltd.**

[6] Address: **Medarska 69, 10090 Zagreb, Croatia**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and documents therein referred to.

[8] FIDITAS Ltd., Notified Body number 2829 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 of the Directive.

The examination and test results are recorded in confidential Report No: **FIDI 20 CR 017**

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN IEC 60079-7:2015 / A1:2018 EN 60079-31:2014

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 subject to Specific Conditions of Use specified in the schedule to this certificate.

[11] This EU-Type Examination Certificate relates only to the design, examination and test of the specified product in accordance with Annex III. Further requirements of the Directive apply to the manufacturing process and supply of this products. These are not covered by this certificate.

[12] The marking of the product shall include the following:



I M2 Ex eb I Mb
II 2G Ex eb IIC T6...T4 Gb
II 2D Ex tb IIIC T80°C Db



Our ref.: 20.CRT.049

Date: 28.05.2020.

FIDITAS Ltd.
Certification department

Approved:

Marino Kelava, M.E.Eng.



[13]

SCHEDULE

[14] **EU - TYPE EXAMINATION CERTIFICATE No.:** **FIDI 20 ATEX 0019**

[15] **Description of product**

High-voltage terminal box, type R3003/R3003S-SRU is designed for connection and distribution of medium voltage lines and cables. In enclosure, type R3003 (FIDI 19 ATEX 0026U; I M2 Ex eb I Mb; II 2G Ex eb IIC Gb; II 2D Ex tb IIC Db) are installed HV terminals and LV terminals type CTS6U (SIRA 16 ATEX 3170U; II 2G Ex eb IIC Gb).

For cable entry separately certified cable glands in type of protection increased safety „eb“ and protection by enclosure „tb“ shall be used.

Technical data:

Rated voltage U_n :	6,3 kV AC
Maximum current I_{max} :	up to 420 A (according to table of maximum currents)
HV terminals:	120 mm ² / 185 mm ² (3P + PE)
LV terminals:	500 V max, 25 A (6 x 6 mm ²)
Ambient temperature:	-20°C to +40 °C
Mechanical protection:	IP 66

Table of maximum currents:

Cable cross section (mm ²)	16	25	35	50	70	95	120	Ex protection marking
Terminal cross section (mm ²)	120							
Maximum current (A) (*) (T _{cable} = 110°C)	30	50	70	105	105	200	250	I M2 Ex eb I Mb II 2G Ex eb IIC T4 Gb II 2D Ex tb IIC T80°C Db
Maximum current (A) (*) (T _{cable} = 90°C)	25	40	60	85	120	160	200	I M2 Ex eb I Mb II 2G Ex eb IIC T5 Gb II 2D Ex tb IIC T80°C Db
Maximum current (A) (T _{cable} = 70°C)	20	30	45	65	90	120	150	I M2 Ex eb I Mb II 2G Ex eb IIC T6 Gb II 2D Ex tb IIC T80°C Db
Number of connections	2 + 2 (4 terminals and 4 conductors)							





Cable cross section (mm ²)	16	25	35	50	70	95	120	150	185	Ex protection marking
Terminal cross section (mm ²)	120							185		
Maximum current (*) (T _{cable} = 110°C)	43	68	95	135	190	260	320	340	420	I M2 Ex eb I Mb II 2G Ex eb IIC T4 Gb II 2D Ex tb IIIC T80°C Db
Maximum current (*) (T _{cable} = 90°C)	35	55	80	110	155	210	260	285	350	I M2 Ex eb I Mb II 2G Ex eb IIC T5 Gb II 2D Ex tb IIIC T80°C Db
Maximum current (A) (T _{cable} = 70°C)	27	43	60	85	120	160	200	225	280	I M2 Ex eb I Mb II 2G Ex eb IIC T6 Gb II 2D Ex tb IIIC T80°C Db
Number of connections	1 + 1 (2 terminals and 2 conductors)									

Warning markings:

“DO NOT OPEN WHEN ENERGIZED”

(*) “USE CABLE SUITABLE FOR A MINIMUM TEMPERATURE xx°C” (“xx”- according to the tables above)

[16] Confidential Report No. FIDI 20 CR 017

[16.1] Routine testing

None

[17] Specific Conditions of Use

None

[18] Essential Health and Safety Requirements

Covered by the conformity with harmonized standards listed under item 9.

[19] Drawings and Documents

Title:	Drawing No.:	Rev. level:	Date:
Technical description of high-voltage terminal box type R3003/R3003S-SRU	-	-	26.05.2020.
Certification drawing type R3003/R3003S-SRU	T51.05.00.00-1	-	26.05.2020.
Certification drawing type R3003/R3003S-SRU	T51.05.00.00-2	-	26.05.2020.
Certification drawing type R3003/R3003S-SRU	T51.05.00.00-3	-	26.05.2020.
Certification drawing type R3003/R3003S-SRU	T51.05.00.00-4	-	26.05.2020.
Description of certification drawing T51.05.00.00-1; T51.05.00.00-2; T51.05.00.00-3 and T51.05.00.00-4	-	-	26.05.2020.
Instruction for use of high-voltage terminal box R3003/R3003S-SRU	TEPEX.RS.113	0	26.05.2020.

