



[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 19 ATEX 0056**

Issue: **1**

[4] Product: **Terminal box**

Type: **SKX 12/E..; SKX 13/E..; SKX 14/E..; SKX 15/E**

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

[6] Product: **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 19CR056**

[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 60079-11:2012**

**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:

**II 2G Ex eb IIC T6 Gb**



**II 2G Ex ia/ib IIC T6 Gb**

**II 2G Ex eb ia/ib IIC T6 Gb**

**II 2D Ex tb IIIC T80°C Db**

Our ref.: 19.CRT.027

Date: 01.04.2020.



**Fiditas** d.o.o.  
ZAGREB

**FIDITAS Ltd.**  
Certification department

Approved:

Marino Kelava, M.E.Eng.



[13] **SCHEDULE**

[14] **EU - TYPE EXAMINATION CERTIFICATE No.:** **FIDI 19 ATEX 0056**

[15] **Description of product**

Terminal boxes type SKX 12/E..; SKX 13/E..; SKX 14/E..; SKX 15/E.. consist of enclosures type MMK 12, MMK 13, MMK 14, MMK 15 (FIDI 19 ATEX 0015U; II 2G Ex eb IIC Gb; II 2G Ex ia/ib IIC Gb; II 2D Ex tb IIIC Db) with terminals type CTS... mounted inside (SIRA 16 ATEX 3170U; II 2G Ex eb IIC Gb or II 2G Ex ib 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: up to 630 V  
 Rated current: up to 109 A (depends on size and number of terminals)  
 Ambient temperature: -40°C to +55 °C  
 Mechanical protection: IP 66

The permitted number of terminals within the junction boxes and the permitted total current are given in the following tables:

Type of terminal box	Nominal cross-section of conductor / terminal [mm <sup>2</sup> ]	Maximum number of terminals	Ambient temperature Tamax [°C]	I <sub>max</sub> [A]
SKX 12/E	4 / 4	5	40	20
			50	18
			55	17
SKX 13/E01	4 / 4	8	40	19
			50	17
			55	16
SKX 13/E02	6 / 6	8	40	25
			50	22
			55	19
SKX 14/E01	4 / 4	16	40	20
			50	18
			55	16
SKX 14/E02	6 / 6	16	40	25
			50	22
			55	19





Type of terminal box	Nominal cross-section of conductor / terminal [mm <sup>2</sup> ]	Maximum number of terminals	Ambient temperature Tamax [°C]	I <sub>max</sub> [A]
SKX 15/E	2,5 / 2,5	2	40	18
		4		16
		24		13
		28		12
	2,5 / 2,5	2	50	16
		4		14
		24		11
		28		10
	2,5 / 2,5	2	55	15
		4		13
		24		10
		28		9
SKX 15/E	4 / 4	4	40	21
		8		18
		24		16
	4 / 4	4	50	18
		8		16
		24		14
	4 / 4	4	55	17
		8		15
		24		12
	6 / 6	2	40	36
		4		32
		8		22
		16		20
	6 / 6	2	50	30
		4		26
		8		19
		16		17
	6 / 6	2	55	26
		4		23
		8		16
		16		14
	10 / 10	2	40	50
		4		45
		8		37
12		33		
10 / 10	2	50	42	
	4		37	
	8		30	
	12		26	





Type of terminal box	Nominal cross-section of conductor / terminal [mm <sup>2</sup> ]	Maximum number of terminals	Ambient temperature Tamax [°C]	I <sub>max</sub> [A]
SKX 15/E	10 / 10	2	55	38
		4		34
		8		27
		12		23
	16 / 16	2	40	66
		4		58
		8		55
		12		50
	16 / 16	2	50	58
		4		50
		8		45
		12		40
	16 / 16	2	55	52
		4		45
		8		40
		12		35
	25 / 25	2	40	80
		4		70
		8		60
	25 / 25	2	50	70
		4		60
		8		50
	25 / 25	2	55	60
		4		50
		8		40
	35 / 35	2	40	109
		4		80
	35 / 35	2	50	95
4		70		
35 / 35	2	55	85	
	4		60	

Where terminal box contains terminals suitable for the connection of conductors with different cross-section, total utilization is calculated as in the following example with terminal box SKX 15/E intended for Ta = -40°C to +40°C:

Cross-section of conductor [mm <sup>2</sup> ]	I <sub>max</sub> [A]	Number of terminals [n]	Maximum number of terminals [n <sub>max</sub> ]	Utilization (n/n <sub>max</sub> × 100) [%]
10	33	4	12	33,3
6	22	1	8	12,5
4	21	1	4	25
2,5	12	8	28	28,6
			Total utilization:	99,4

Total utilization must be less than 100 %.



**[16] Confidential Report No.** FIDI 19CR056

**[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 explosion proof terminal boxes SKX 12/E..; SKX 13/E..; SKX 14/E..; SKX 15/E	-	-	27.03.2020.
Drawing of terminal box SKX 12/E 01	T 41.01.00.00-1	-	27.03.2020.
Drawing of terminal box SKX 13/E 01	T 41.01.00.00-2	-	27.03.2020.
Drawing of terminal box SKX 14/E 01	T 41.01.00.00-3	-	27.03.2020.
Drawing of terminal box SKX 15/E 01	T 41.01.00.00-4	-	27.03.2020.
Description of certification drawings T 41.01.00.00-1, T 41.01.00.00-2 T 41.01.00.00-3 and T 41.01.00.00-4	-	-	27.03.2020.
Instructions for use explosion proof terminal boxes SKX 12/E..; SKX 13/E..; SKX 14/E..; SKX 15/E	TEPEX.RS.019	03	27.03.2020.

