



SZUTEST Uygunluk Değerlendirme A.Ş. / İstanbul - Türkiye
Onaylanmış Kuruluş 2195



(1) **EU-TYPE EXAMINATION CERTIFICATE** **(Annex III – Module B)**

(2) Equipment or protective system intended for use in potentially explosive atmospheres — Directive 2014/34/EU

(3) EU-Type Examination Certificate Number: **SZU 22 ATEX 002 X**

(4) Equipment or Protective System : **Terminal Box**

Model No: **SA101008, SA 131008, SA 131309, SA 191309, SA 151596, SA 161609, SA 191709, SA 181811, SA 251909, SA 262114, SA 282311, SA 332314, SA 412311, SA 413116**

(5) Manufacturer/Applicant: **TAVAN OMRAN SANAT SAMANE Company**

(6) Manufacturer/Applicant Address: **No. 154 – Zone E2 – Shiraz Economic area – Shiraz - Iran**

(7) This equipment or protective system and/or any acceptable variation there to is specified in the schedule to this certificate and the documents there in referred to.

(8) Szutest Uygunluk Değerlendirme A.Ş. Notified Body number 2195 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment or protective system intended for use in potentially explosive atmospheres given in Annex II of the Directive. The examination and test results are recorded in the confidential documentation under the reference number.

Report No: SZU-22046UR03-Rev00

Date: 15.02.2022

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2018, EN 60079-7:2015

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions of safe use specified in the schedule to this certificate.

(11) This EU-Type examination certificate relates only to the design and construction of the specified equipment or protective equipment in the scope of 2014/34/EU Annex III. Future requirements of the Directive apply to the production process and the provision of equipment or protective system. These are not discussed in this certificate.

(12) Marking of the equipment or protective system must include the following;



II 2G Ex eb IIC T6 or T5 or T4 Gb



Yayın Tarihi :03.03.2022
Issue Date

Revizyon Tarihi/No: 00
Revision Date

Rukiye BALKAN
Genel Müdür Yardımcısı
Deputy General Manager



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(13) ANNEX

(14) EU-Type Examination Certificate Number:

(15) **Description of Equipment and/or Protective System:** Empty Junction Boxes which are made from aluminum alloy. The end-user shall use only suitable Ex e certified terminals for filed wiring in the future application. Permitted entries (M20 or M32) positions to the box are illustrated in drawings and the boxes were approved for an IP66/67 ingress protection.

Models, Serial No:

TYPE / MODEL	Dimensions (mm)			
	Height	Width	Depth	tolerance
SA101008	100	100	80	+/- 10
SA 131008	130	100	80	+/- 10
SA 131309	130	130	90	+/- 10
SA 191309	190	130	90	+/- 10
SA 151596	150	150	96	+/- 10
SA 161609	160	160	90	+/- 10
SA 191709	190	170	90	+/- 10
SA 181811	180	180	110	+/- 10
SA 251909	250	190	90	+/- 10
SA 262114	260	210	140	+/- 10
SA 282311	280	230	110	+/- 10
SA 332314	330	230	140	+/- 10
SA 412311	410	230	110	+/- 10
SA 413116	410	315	160	+/- 10

Ratings:

Rated voltage: Max.1000 VAC
Rated current: Max.400 A
Rated power: see Maximum Allowed Dissipation Power table
Frequency: 50-60 Hz

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(13) ANNEX

(14) EU-Type Examination Certificate Number:

Ambient temperature and temperature class:

The ambient temperature and temperature classes are the following:

T6 or T5 or T4 with ambient temperature range $T_a = -30^{\circ}\text{C}$ to $+55^{\circ}\text{C}$ as below table:

TYPE / MODEL	Maximum allowed dissipation power		
	Tamb: -30°C to $+55^{\circ}\text{C}$		
	T6	T5	T4
SA101008	5.11 W	8.21 W	14.83 W
SA 131008	5.77 W	10.14 W	17.08 W
SA 131309	6.79 W	11.90 W	20.69 W
SA 191309	7.81 W	13.65 W	24.31 W
SA 151596	8.83 W	15.40 W	27.92 W
SA 161609	9.56 W	16.75 W	28.61 W
SA 191709	10.87 W	18.91 W	35.16 W
SA 181811	11.89 W	20.66 W	38.77 W
SA 251909	12.52 W	23.56 W	43.54 W
SA 262114	13.93 W	24.17 W	46.01 W
SA 282311	14.95 W	25.92 W	49.62 W
SA 332314	15.97 W	27.67 W	53.24 W
SA 412311	16.99 W	29.43 W	56.85 W
SA 413116	18.39 W	30.64 W	60.90 W

Degree of protection (IP code):


The equipment enclosures were verified for an IP66/67 ingress rating.

Warnings:

"WARNING – DO NOT CONNECT OR DISCONNECT WHEN ENERGIZED"

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(13) ANNEX

(14) EU-Type Examination Certificate Number:

(16) Reference Report Number:

(16.1) The manufacturer as the holder of this EU type examination certificate, is required to comply with the production control requirements in accordance with the directive 2014/34/EU for marketing its product.

(16.2) Routine Test:

The manufacturer shall carry out routine tests prescribed at clause 27 of the EN 60079-0.

According to the method in clause 7.1 of EN 60079-7, when boxes supplied with terminals complete of wiring cables, the boxes have been submitted to the dielectric test with the following values: 1000 V + 2 U (U= Working Voltage). Also, the manufacturer shall verify all creepage and clearance distance of Table 2 of EN 60079-7 in a way that they are rigidly controlled when mounted and housed or wired into the Ex-Enclosure of each Terminal Box.

(16.3) Installation conditions:

The equipment is foreseen to be installed in locations where there are environmental conditions, as clearly specified in clause 1 of EN 60079-0. Installation and use in atmospheric and environmental conditions that are out of the above-mentioned intervals request special considerations and additional measures by the side of the installer or user.

These should be specified to the manufacturer by the user;

Installation of equipment shall be done according to EN 60079-14 Standard requirements.

(17) Special Conditions for Safe Use:

- Special Ambient Temperature -30°C to +55°C

- Only ATEX certified terminals with the same protection shall be installed in the box. The end user manufacturer must fulfill the schedule of limitations of each type of Ex terminal during installation.

- Cable glands and any blanking elements mounted on the entries of the enclosure shall be ATEX certified according to the flameproof characteristics of the equipment in sense of Type of Protection, Gas group, Ambient Temperature, and IP code.

(18) Essential Health and Safety Requirements:

Covered by standards listed at 9.

This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed in (9).

This Certificate does not cover hazards coming from environmental conditions different from those clearly and precisely indicated and covered EN IEC 60079-0:2018.

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(13) ANNEX

(14) EU-Type Examination Certificate Number:

(19) Documentation List:

No	File Name	File Date	Rev.
01	Company Profile	13.12.2021	Rev.00
02	Description of product	13.12.2021	Rev.00
03	Product Design	13.12.2021	Rev.00
04	Risk Analysis	13.12.2021	Rev.00
05	User Guideline	13.12.2021	Rev.00
06	Test Report & Test Record	13.12.2021	Rev.00

(20) Variation: 1st issue

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