[1] # EU-TYPE EXAMINATION CERTIFICATE

[2] ## Component intended for use in potentially explosive atmospheres - Directive 2014/34/EU – Annex III – MODULE B (EU-TYPE EXAMINATION)

[3] EU-type Examination Certificate number: **IMQ 19 ATEX 033 U**

[4] COMPONENT: **Empty enclosure**
TYPE/SERIES: **Zenith-P series (type 644.xxxx)**
Zenith-S series (type 645.Bxxxx – type 645.Cxxxxxx - type 645.Dxxxxxx)

[5] MANUFACTURER: **Scame Parre S.p.A.**

[6] ADDRESS: **Via Costa Erta, 15 – 24020 Parre (BG) - Italy**

[7] This component and any acceptable variation thereto are specified in the annex to this certificate and the documents therein referred to.

[8] IMQ, notified body N° 0051, 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 component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in Report No.: **AT24-0107643-01**

[9] Compliance with Essential Health and Safety Requirements, except in respect of those listed at item 18 of the annex, has been assured by compliance with:

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

Other reference standard: EN IEC 60079-31:2024; EN IEC 60079-0:2018/A11:2024-04

[10] If the sign "U" is placed after the certificate number indicates that this certificate shall 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 the design and construction of the specified component. Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.

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

II 2G Ex eb IIC Gb

II 2D Ex tb IIIC Db

THIS CERTIFICATE CANCELS AND REPLACES THE PREVIOUS ONE. IT INCLUDES 1 ANNEX.

FIRST ISSUE	2019/10/24
CURRENT ISSUE	2025/04/29
PREVIOUS ISSUE	2022/03/23
EXPIRING DATE	2035/04/28

B.U. PRODUCT
CERTIFICATION SECTOR - MANAGER

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[13] # Annex

[14] **EU-TYPE EXAMINATION CERTIFICATE NUMBER: IMQ 19 ATEX 033 U**

[15] **Component description:**

The ZENITH-P range comprises 20 sizes of enclosure type 644.xxxx manufactured in GRP glass reinforced polyester with 4 mm thickness with service temperature range -60°C÷+100°C with silicon rubber gasket. Polyester gives excellent mechanical strength and life expectancy: this material is highly resistant to contaminations, it is absolutely corrosion-proof and is suitable for LSOH (low smoke zero halogen) applications.
The range is carbon loaded which helps to reduce the surface resistance of the material and consequently remove the risk of ignition sources through static induced sparking resistivity. The mounting holes are contained within the profile of the enclosure but are outside the seal. The wall thickness is sufficient to allow entry holes to be machined in the walls of the enclosure and it provides a very good alternative to aluminium, stainless steel or cast iron.
The ZENITH-S range comprises 14 sizes of enclosures type 645.Bxxxx with lid fixed with screws, 25 sizes of enclosures type 645.Cxxxxxx with hinges, flanges and key lock, 14 sizes of enclosures type 645.Dxxxxxx with hinges, flanges, key lock and welded mounting bracket, all the enclosures can be equipped with windows. All the enclosures are made in stainless steel AISI304L or AISI316L with minimum 1,2 mm of thickness with service temperature range -50°C to +100°C with silicon gasket.
The ZENITH-P and ZENITH-S enclosures suitable for installation in zone 1 and zone 21.

[15.1] **Models/Series Identification:**

ZENITH-P		Dimensions (mm)		
SCAME Code	Enclosure size	H	W	D
644.0100	75x80x55	75	80	55
644.0200	75x80x75	75	80	75
644.0110	75x110x55	75	110	55
644.0210	75x110x75	75	110	75
644.0120	75x160x55	75	160	55
644.0220	75x160x75	75	160	75
644.0130	75x190x55	75	190	55
644.0230	75x190x75	75	190	75
644.0140	75x230x55	75	230	55
644.0240	75x230x75	75	230	75
644.0345	120x122x90	120	122	90
644.0350	120x220x90	120	220	90
644.0360	160x160x90	160	160	90
644.0370	160x260x90	160	260	90
644.0380	160x360x90	160	360	90
644.0390	160x560x90	160	560	90
644.0465	250x255x120	250	255	120
644.0485	250x400x120	250	400	120
644.0585	250x400x165	250	400	165
644.0595	405x400x165	405	400	165

Table 1 - External dimensions

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[13] # Annex

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Type 645.B Code (*)	Enclosure size LxHxP [mm]	Body Thickness	Lid Thickness	Screws Numbers	Screw type	Nm
645.Bxy01	90X90X75	12/10	12/10	4	M5x16	2.5
645.Bxy02	100x100x90	12/10	12/10	4	M5x16	2.5
645.Bxy03	100x160x90	12/10	12/10	4	M5x16	2.5
645.Bxy04	100x220x90	12/10	12/10	4	M5x16	2.5
645.Bxy05	150x160x120	12/10	12/10	4	M5x16	2.5
645.Bxy06	150x220x120	12/10	12/10	4	M5x16	2.5
645.Bxy07	150x280x120	12/10	12/10	4	M5x16	2.5
645.Bxy08	200x220x120	12/10	12/10	4	M5x16	2.5
645.Bxy09	200x280x120	12/10	12/10	4	M5x16	2.5
645.Bxy10	250x280x120	12/10	12/10	4	M5x16	2.5
645.Bxy11	250x340x150	12/10	12/10	4	M5x16	2.5
645.Bxy12	300x340x150	12/10	12/10	4	M5x16	2.5
645.Bxy13	300x400x150	12/10	12/10	6	M5x16	2.5
645.Bxy14	400x400x150	12/10	12/10	6	M5x16	2.5

Table 1 - External dimensions

(*) The code is completed as following:

x = enclosure material: **4** = AISI304L
6 = AISI316L
y = gasket material: **S** = Silicon (for service temperature -50°C to +100°C)

The root part number could have an optional suffix not influential on the equipment and the type of protection.

Note: the dimension indicated in the above table, can be change maximum by 10%.

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Type 645.C Code (*)	Enclosure size LxHxP [mm]	Body Thickness	Lid Thickness	Key Lock	hinge
645.Cxy00zw	260x260x150	12/10	15/10	1	2
645.Cxy01zw	300x300x210	12/10	15/10	1	2
645.Cxy02zw	300x380x210	12/10	15/10	1	2
645.Cxy03zw	300x450x210	12/10	15/10	2	2
645.Cxy04zw	380x300x210	12/10	15/10	1	2
645.Cxy05zw	380x380x210	12/10	15/10	1	2
645.Cxy06zw	380x600x210	12/10	15/10	2	2
645.Cxy07zw	400x500x210	12/10	15/10	2	2
645.Cxy08zw	450x300x210	12/10	15/10	1	2
645.Cxy09zw	450x450x210	12/10	15/10	2	2
645.Cxy10zw	450x450x250	12/10	15/10	2	2
645.Cxy11zw	450x600x210	12/10	15/10	2	2
645.Cxy12zw	450x600x250	12/10	15/10	2	2
645.Cxy13zw	500x700x250	12/10	15/10	2	2
645.Cxy14zw	600x380x210	12/10	15/10	1	2
645.Cxy15zw	600x450x250	12/10	15/10	2	2
645.Cxy16zw	600x600x210	12/10	15/10	2	2
645.Cxy17zw	600x600x250	12/10	15/10	2	2
645.Cxy18zw	600x600x300	12/10	15/10	2	2
645.Cxy19zw	600x750x210	15/10	15/10	2	2
645.Cxy20zw	600x750x250	15/10	15/10	2	2
645.Cxy21zw	600x750x300	15/10	15/10	2	2
645.Cxy22zw	600x900x300	15/10	15/10	2	3
645.Cxy23zw	750x1000x300	15/10	15/10	2	3
645.Cxy24zw	800x1200x300	15/10	20/10	2	3

Table 2 - External dimensions

(*) The scame code is completed as following:

x = enclosure material:	4 = AISI304L 6 = AISI316L
y = gasket material:	S = Silicon (for service temperature -50°C to +100°C)
z = flange	0 = Enclosure without flange 1 = Enclosure with 1 flange bottom sides 2 = Enclosure with 2 flanges Top/Bottom sides 3 = Enclosure with 3 flange Bottom/Left/Right sides 4 = Enclosure with 4 flange Top/Bottom/Left/Right sides
w = key lock	Y = Optional suffix, for key lock instead of cam lock

The root part number could have an optional suffix not influential on the equipment and the type of protection.

Note: the dimension indicated in the above table, can be change by 10%

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Type 645.D Code (*)	Enclosure size WxHxD [mm]	Body Thickness	Lid Thickness	Key Lock	hinge	Mounting Brackets
645.Dxy00zw	260x260x150	12/10	15/10	1	2	4
645.Dxy01zw	300x300x210	12/10	15/10	1	2	4
645.Dxy02zw	300x380x210	12/10	15/10	2	2	4
645.Dxy03zw	300x450x210	12/10	15/10	2	2	4
645.Dxy05zw	380x380x210	12/10	15/10	2	2	4
645.Dxy07zw	400x500x210	12/10	15/10	2	2	4
645.Dxy09zw	450x450x210	12/10	15/10	2	2	4
645.Dxy11zw	450x600x210	12/10	15/10	2	3	4
645.Dxy14zw	600x380x210	12/10	15/10	2	3	4
645.Dxy16zw	600x600x210	12/10	15/10	2	3	4
645.Dxy19zw	600x750x210	15/10	15/10	2	3	4
645.Dxy22zw	600x900x300	15/10	15/10	2	3	6
645.Dxy23zw	750x1000x300	15/10	15/10	2	3	6
645.Dxy24zw	800x1200x300	15/10	20/10	2	3	6

Table 3 - External dimensions

(*) The SCAME code is completed as following:

x = enclosure material:	4 = AISI304L 6 = AISI316L
y = gasket material:	S = Silicon (for service temperature -50°C to +100°C)
z = flange	0 = Enclosure without flange 1 = Enclosure with 1 flange bottom sides 2 = Enclosure with 2 flanges Top/Bottom sides 3 = Enclosure with 3 flange Bottom/Left/Right sides 4 = Enclosure with 4 flange Top/Bottom/Left/Right sides
w = key lock	Y = Optional suffix, for key lock instead of cam lock

The root part number could have an optional suffix not influential on the equipment and the type of protection.

Note: the dimension indicated in the above table, can be change by 10%

Junction kit:

The enclosures listed in the below table can be joined with the junction kit part number SL00059. Each enclosure have 1 or 2 square cut which depends from the size of the enclosure.

ENCLOSURE	DIMENSION mm	SQUARE CUT mm	Long SIDE N°	Short SIDE N°
644.0465	250*255*120	55*125	1	1
644.0485	250*400*120	55*125	2	1
644.0595	405*400*165	55*125	2	2
644.0585	250*400*165	55*125	1	1

[15.2] **Ratings:** -

[15.3] **Safety Ratings:** -

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[15.4] **Ambient temperature and temperature classes:**

-60°C÷+100°C (Zenith-P and Zenith-P with Junction Kit) (service temperature for component)
-50°C÷+100°C (Zenith-S) (service temperature for component)

[15.5] **Degree of protection (IP code):**

IP66

[15.6] **Warnings:**

N/A

[16] **Report:** AT24-0107643-01

[16.1] **Routine (factory) tests:**

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

[16.2] **Conformity with the documentation:**

The manufacturer shall carry out the verifications or tests necessary to ensure that the component complies with the documentation.
Marking the component in accordance with Clause 29 of EN 60079-0, the manufacturer attests on his own responsibility that:

- the component has been constructed in accordance with the applicable requirements of the relevant standards in safety matters;
- the routine verifications and routine tests in 28.1 of EN 60079-0 have been successfully completed with positive results.

[16.3] **Installation conditions:**

Above referred equipment is foreseen to be installed in locations where there are environmental conditions, as clearly specified at clause 1, par. 2 of EN 60079-0.
Installation and use in atmospheric and environmental conditions that are out of above mentioned intervals request special considerations and additional measures by the side of installer or user.
These should be specified to the manufacturer by the user;
It is not a required by applicable standard listed in [9] that the certification body confirm suitability for the adverse conditions.
Installation of equipment has to proceed according to EN 60079-14.
All the enclosures joined with junction kit in various configurations, have to be fixed on the same frame.
Could be joined only enclosures with the same height.

[17] **Schedule of limitations:**

- Enclosures series Zenith-P (type 644.xxxx) are suitable for the service temperature: from -60°C to 100°C. Enclosures series Zenith-S (type 645.Bxxxx, type 645.Cxxxxxx and type 645.Dxxxxxx) are suitable for the service temperature: from -50°C to 100°C.
- This component is not intended to be used alone and requires additional consideration by the conformity assessment procedure when incorporated into electrical apparatus or systems.
- Drillings in walls/lid/bottom shall be in accordance with Manufacturer's instructions.
- The suitability of all entries should be considered in the end use application.

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- The accessories used for cable entries shall be certified according to EN 60079-0, EN 60079-7, EN 60079-31 standards, with Gb and Db minimum EPLs, and installed according EN 60079-14.
- They shall guarantee the protection degree on enclosure.
- For painted enclosure for use in dust atmosphere, installation shall be performed in order to minimize the risk from electrostatic discharge.

[18] **Essential Health and safety Requirements:**
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 in clause 1 of EN 60079-0.

ESHR 1.2.7 According Annex VIII of the Directive
ESHR 1.4 Not verified.
ESHR 1.5 Not verified.
ESHR 3 Not applied.

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at [9], the following are considered relevant to this component, and conformity is demonstrated in the report:
N/A

[19] **Descriptive documents:**

DL-AT24-0107643-01, rev.0, dated 2025-01-22.

[20] **Certification Validity Conditions:**
The use of this Certificate is subject to the Certification Scheme and to the Regulation applicable to holders of IMQ Certificates.
The validity of this certificate is subject to the condition that the manufacturer complies with the results of the document review and of the pertinent requirement if any included, recorded in the relevant copy of documentation as per 19.
One copy of the mentioned documentation is kept in IMQ file.

[21] **Variations**

Issue 0: 2019/10/24
- First emission

Issue 1: 2020/05/25
- Added enclosures type 645.Cxxxxxx and 645.Dxxxxxx for Zenith-S series

Issue 2 2022/03/23
- For series ZENITH-P: added junction KIT SL-00059;
- For series ZENITH-P: added new size enclosure;
- For series ZENITH-S: optional earth-stud;
- Standard update.

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Issue 3: 2025/04/22

- For series ZENITH-S: added an alternative enclosure gasket;
- Standards update

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