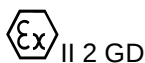




EU Type Examination Certificate CML 19ATEX3303X Issue 0

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **Explosion-proof Electric Appliance Box**
- 3 Manufacturer **Delvalle Global Solutions, S.L.U.**
- 4 Address **Paso El Prao, 6. 01320,
Oyón, Alava, Spain**
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 CML B.V., Chamber of Commerce No 6738671, Hoogoorddreef 15, Amsterdam, 1101 BA, The Netherlands, Notified Body Number 2776, 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 equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in the confidential reports listed in Section 12.
- 7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018	EN 60079-1:2014	EN IEC 60079-7:2015+A1:2018
EN 60079-11:2012	EN 60079-18:2015+A1:2017	EN 60079-31:2014
- 10 The equipment shall be marked with the following:



Ex db eb ib mb IIC T6 Gb

Ex db eb ib mb IIC T5 Gb

Ex tb IIIC T80°C Db

Ex tb IIIC T95°C Db

Ta= -40°C to +55°C

Note: Protection concepts, temperature class, maximum surface temperature and ambient temperature depends on the components used. Refer to description.

R C Marshall
Certification Officer



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11 Description

Explosion-proof Electric appliance box (Junction box, Control box, Power Distribution box) consist of an increased safety and dust ignition protective enclosure and an arrangement of separately certified and appropriately rated and dimensioned components and accessories.

The enclosure is constructed of glass fibre reinforced polyester, carbon steel or stainless steel. The outer surfaces of the carbon steel enclosures are painted by a plastic spray process. Multiple explosion-proof boxes can be combined with the use of connection plates.

Non-metallic enclosure

Empty box model	Max Power (W) / Internal ambient Temperature (°C)					
Size Specification	T6/55°C	T6/40°C	T5/55°C	T5/40°C	T4/55°C	T4/40°C
122 122 096	1.97/59.9	2.96/50.9	2.96/63.1	4.93/50.9	9.85/77.0	12.81/70.7
170 122 096	2.21/56.9	4.42/47.7	4.42/62.7	6.63/49.2	12.15/77.3	15.47/65.5
220 134 096	2.54/60.0	5.07/47.9	5.07/62.9	7.61/51.2	15.22/75.2	24.09/72.8
275 160 096	2.96/58.0	5.91/48.5	5.91/63.5	8.87/51.6	17.73/80.4	28.07/71.1
325 234 096	3.54/57.0	7.07/50.1	7.07/65.1	10.61/51.4	21.21/79.5	35.35/73.8
352 352 096	4.1/60.5	8.19/48.4	8.19/63.4	12.29/51.0	24.58/81.6	40.96/70.5
352 352 136	4.16/58.6	8.33/46.8	8.33/61.8	12.49/50.2	27.07/79.0	41.65/73.2
220 134 141	2.67/59.5	5.35/46.3	5.35/61.3	8.02/52.4	20.05/78.6	28.06/76.6
275 160 161	3.13/59.0	6.26/44.6	6.26/59.6	10.96/51.8	23.49/82.0	32.89/80.3
275 160 161						
325 234 161	3.68/57.4	7.36/44.1	7.36/59.1	12.88/48.3	34.96/82.7	51.52/78.2
352 352 161	4.22/58.1	8.44/44.4	8.44/59.4	14.77/47.7	42.19/79.3	59.06/73.6
706 352 161	6.41/58.5	12.81/45.1	12.81/60.1	25.63/47.1	64.07/75.7	96.10/71.5
325 234 166	3.69/57.2	7.39/47.1	7.39/62.1	12.93/49.9	35.09/81.1	51.71/76.0
352 352 166	4.23/59.1	8.46/46.5	8.46/61.5	14.81/49.6	42.30/80.0	59.23/72.4
352 352 201	4.32/57.1	8.64/43.8	8.64/58.8	17.29/48.6	49.70/80.0	73.47/70.8
706 352 201	6.47/57.2	12.94/42.8	12.94/57.8	25.89/44.3	74.43/67.6	110.02/63.0
275 160 226	3.38/58.6	6.76/45.0	6.76/60.0	13.51/50.8	27.02/81.1	37.16/78.35
325 234 231	3.90/57.9	7.81/47.1	7.81/62.1	15.62/49.8	39.04/79.3	58.56/73.5
352 352 231	4.41/58.5	8.82/46.7	8.82/61.7	17.65/49.4	50.74/78.7	75.00/71.7
706 352 231	6.53/58.2	13.06/46.3	13.06/61.3	26.12/48.2	75.09/75.5	111.01/66.3
706 352 161+ 352 352 161	/	/	/	/	86.04/75.3	139.82/69.5



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Empty box model	Max Power (W) / Internal ambient Temperature (°C)					
Size Specification	T6/55°C	T6/40°C	T5/55°C	T5/40°C	T4/55°C	T4/40°C
706 352 231+ 352 352 231	/	/	/	/	94.05/73.9	149.38/66
706 352 201+ 352 352 201	/	/	/	/	92.82/72.9	147.42/67.8
706 352 161+ 706 352 161+ 352 352 161	/	/	/	/	137.29/74.2	223.10/76.2
706 352 231+ 706 352 231+ 352 352 231	/	/	/	/	149.56/73.0	237.53/72.6
706 352 201+ 706 352 201+ 352 352 201	/	/	/	/	147.83/71.7	234.79/69.4
706 352 161+ 706 352 161+ 706 352 161	/	/	/	/	153.76/76.6	249.86/70.1
706 352 231+ 706 352 231+ 706 352 231	/	/	/	/	166.51/75.1	264.51/67.9
706 352 201+ 706 352 201+ 706 352 201	/	/	/	/	165.04/73.5	262.12/69.5

Metallic Enclosure

Empty box model	Max Power (W) / Internal ambient Temperature (°C)					
Size Specification	T6/55°C	T6/40°C	T5/55°C	T5/40°C	T4/55°C	T4/40°C
160 120 091	2.13/65.8	3.20/54.0	3.20/69.0	6.40/61.5	11.73/73.2	16.00/68.6
240 120 091	2.60/62.1	5.19/53.1	5.19/68.1	7.79/60	15.58/83.1	20.08/82.9
250 150 091	2.76/61.0	5.52/48.2	5.52/63.2	9.66/53.0	16.55/73.0	24.83/68.1
300 200 091	3.24/62.6	6.49/50.9	6.49/65.9	11.35/61.3	19.46/80.9	32.44/82.5
370 250 091	3.86/61.1	7.71/48.1	7.71/63.1	13.5/58.4	23.14/83.0	38.56/83.2
370 370 091	4.41/61.2	8.81/48.2	8.81/63.2	15.42/52.9	26.44/72.9	44.06/70.9
300 200 156	3.40/60.6	6.79/48.6	6.79/63.6	11.89/55.8	25.48/79.4	42.46/79.0



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Empty box model	Max Power (W) / Internal ambient Temperature (°C)					
Size Specification	T6/55°C	T6/40°C	T5/55°C	T5/40°C	T4/55°C	T4/40°C
370 250 156	3.98/59.5	7.96/47.0	7.96/62.0	13.94/52.8	31.86/79.0	51.77/76.9
370 370 156	4.52/58.8	9.03/47.0	9.03/62.0	18.06/50.0	40.64/76.1	63.21/72.6
510 370 156	5.27/58.8	10.54/46.0	10.54/61.0	21.07/49.6	50.04/61.0	76.38/72.0
510 510 156	5.92/59.1	14.79/46.1	14.79/61.1	23.66/49.1	56.20/76.0	88.74/71.2
750 370 156	6.74/57.4	16.85/45.1	16.85/60.1	26.96/46.5	67.39/75.2	101.09/68.1
750 370 196						
750 510 156	7.25/57.9	18.12/45.3	18.12/60.3	28.99/50.1	72.47/73.1	108.71/62.0
750 750 156	8.36/58.4	20.89/48.3	20.89/63.3	33.42/48.8	83.55/75.7	133.69/70.2
370 370 232	4.71/58.9	11.77/47.2	11.77/62.2	18.83/50.1	51.78/82.6	82.38/80.1
510 370 226	5.42/57.2	13.54/47.5	13.54/62.5	21.66/48.5	59.57/78.6	94.77/75.1
510 510 226	6.05/58.5	15.12/45.5	15.12/60.5	24.19/48.3	66.51/79.1	105.82/74.8
750 370 226	6.85/58.3	17.13/46.0	17.13/61.0	27.41/50.7	75.38/75.8	119.93/62.4
750 510 226	7.35/58.4	18.38/45.3	18.38/60.3	29.41/49.4	80.88/74.0	128.67/68.4
750 750 226	8.45/57.5	21.11/46	21.11/61.0	38.01/47.3	92.90/76.6	147.80/69.5
370 370 276	4.85/58.0	12.12/47.9	12.12/62.9	19.39/50.1	58.17/83.7	96.95/81.9
510 370 276	5.55/56.9	13.88/49.8	13.88/64.8	22.20/50.5	66.61/82.0	111.01/82.0
510 510 276	6.17/57.8	15.42/44.9	15.42/59.9	24.67/47.4	74.00/82.1	123.33/78.3
750 370 276	6.96/57.4	17.40/45.9	17.40/60.9	27.83/48.1	83.50/77.1	139.16/76.0
750 510 276	7.45/58.9	18.62/45.2	18.62/60.2	29.80/48.6	89.40/74.9	149.00/74.7
750 750 276	8.53/56.5	21.32/43.7	21.32/58.7	38.38/45.7	102.36/77.5	170.60/68.7
750 750 156+ 750 370 156	/	/	/	/	150.95/75.8	226.42/70.4
750 750 156+ 750 510 156	/	/	/	/	156.03/75.9	234.04/65.2
750 750 156+ 750 750 156	/	/	/	/	167.11/73.2	250.66/66.7
750 750 226+ 750 370 226	/	/	/	/	152.99/73.5	244.78/67.4
750 750 226+ 750 510 226	/	/	/	/	157.98/73.4	252.77/62.9
750 750 226+ 750 750 226	/	/	/	/	167.11/71.8	267.37/64.2



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Empty box model	Max Power (W) / Internal ambient Temperature (°C)					
Size Specification	T6/55°C	T6/40°C	T5/55°C	T5/40°C	T4/55°C	T4/40°C
750 750 276+ 750 370 276	/	/	/	/	154.88/74.8	247.81/69.2
750 750 276+ 750 510 276	/	/	/	/	159.8/75.2	255.68/58.9
750 750 276+ 750 750 276	/	/	/	/	170.6/73.2	272.96/63.2

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	30 Aug 2019	R12464B/00	Issue of Prime Certificate

Note: Drawings that describe the equipment or component are listed in the Annex.

13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- The minimum ambient temperature of the product depends on the minimum ambient temperature of all the installed component modules. The maximum ambient temperature of the product depends on the allowed service temperature of all the installed component modules.
- The enclosures incorporate the use of separately certified and suitably dimensioned entry devices with Ex certificates. The IP protection level and the EPL should be not less than the original level of the enclosure.
- Rated values are maximum value, the actual electrical values are determined by mounted electrical apparatus. The manufacturer specifies the final limiting values dependent on power supply specifications, operation pattern, using type etc., and within these limiting values complying with the appropriate standards. It's the manufacturer's responsibility to specify the characteristic values of the Ex i circuits.
- The panel area intended for intrinsically safe circuits will be marked e.g. by a specific colour (light blue) or a warning label.
- The maximum power dissipation or contact resistance shall be in accordance with the certificates of the Ex components. Each component's power dissipation shall be determined by the actual input current (I) when in operation and the contact resistance (R) when operated at 20°C.
- The creepage and clearance distances between IS and non-IS circuits shall be maintained according to the requirements of EN/IEC 60079-14 when the equipment is installed with IS components.
- The equipment shall be subjected to electric strength tests as follows:
 - Primary – secondary at a test voltage of $(1000 + 2U)$ Vac or 1500 Vac (whichever is the greater) where U is the highest of primary and secondary voltages



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- All windings – earth at a test voltage of 500 Vac for winding voltages up to 90 Vac and for voltages over 90 Vac, at a test voltage of $(1000 + 2U)$ Vac or 1500 Vac (whichever is the greater) where U is the highest of primary and secondary voltages. The test voltage to be applied for 60 s. Alternatively, a voltage of 20% higher may be applied for 1 s. There shall be no evidence of flashover or breakdown and the maximum current flowing shall not exceed 5 mA.
- vii. For tested and verified components, checks must be carried out to ensure the temperature class and the internal ambient temperature of the equipment does not exceed the ambient temperature and the service temperature of each component. For unverified components, a routine temperature rise test must be carried out in accordance with EN/IEC 60079-0 clause 26.5 on each unit to ensure the service temperature of each component is not exceeded.
- viii. The manufacturer shall mark the equipment with the types of protection of the components used.

14 Specific Conditions of Use (Special Conditions)

The following conditions relate to safe installation and/or use of the equipment.

- i. Equipment incorporating the metallic enclosure with a coating of epoxy powder must not be used in areas affected by charge producing processes, mechanical friction and separation processes, electron emission (e.g. in the vicinity of electrostatic coating equipment), and pneumatically conveyed dust to avoid electrostatic discharge.
- ii. The equipment shall be used with cable that has a suitable temperature rating.
- iii. Any replacement fasteners shall meet or exceed the yield stress of the original fasteners as defined by the components used.
- iv. The equipment incorporates components that have flamepath dimensions that differ from the requirements of EN/IEC 60079-1 Table 2. Therefore, the flamepaths shall not be repaired or modified by anyone other than the manufacturer.

Certificate Annex

Certificate Number CML 19ATEX3303X
Equipment Explosion-proof Electric Appliance Box
Manufacturer Delvalle Global Solutions, S.L.U.



The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
DVT.7875	1 of 1	-	30 Aug 2019	Sprayed on the Surface of Stainless Steel Cabinet
DVT	1 of 1	-	30 Aug 2019	Explosion-proof Distribution Box
DVT	1 of 1	-	30 Aug 2019	Explosion-proof Distribution Box (Sprayed on the Surface of Stainless Steel Cabinet)
DVT	1 of 1	-	30 Aug 2019	Explosion-proof Distribution Box