

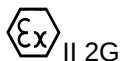


EU Type Examination Certificate CML 19ATEX1299U Issue 0

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Component **Explosion-proof Circuit Breaker Module**
- 3 Manufacturer **Delvalle Global Solutions, S.L.U.**
- 4 Address **Paso El Prao, 6. 01320,
Oyón, Alava, Spain**
- 5 The component 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 component 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 The 'U' suffix after the certificate number indicates that the component 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
- 10 The equipment shall be marked with the following:



II 2G

Ex db eb IIC Gb

Ts= -20°C to +110°C (IIC)
-40°C to +110°C (IIB)



CML 19ATEX1299U
Issue 0

11 Description

The Explosion-proof Circuit Breaker Module is a component with combined levels of protection flameproof “db” and increased safety “eb”. The breaker compartment is flameproof, and the terminals are increased safety.

Type designation:

CB	☐	/	☐	/	☐	/	☐
1	2	-	3	-	4	-	5

1	Product identification code	CB
2	Rated current	0.5 A – 40 A
3	Number of poles	1P+N 1P 2P 3P 3P+N 4P
4	Trip character	C D
5	Rated on-off capacity	6 – 6 KA 10 – 10 KA

CB	☐	/	☐	/	☐	/	☐
1	2	-	3	-	4	-	5

1	Product identification code	CB
2	Rated current	0.5 A – 40 A
3	Number of poles	2P 3P 3P+N 4P
4	Trip character	C D
5	Auxiliary Contact	NONC



CML 19ATEX1299U
Issue 0

CB	☐	/	☐	/	☐	/	☐	/	☐
1	2	-	3	-	4	-	5	-	6

1	Product identification code	CB
2	Rated current	0.5 A – 40 A
3	Number of poles	2P
4	Trip character	C D
5	Rated on-off capacity	6 – 6 KA 10 – 10 KA
6	Auxiliary Contact	NONC

DFL	☐	/	☐	/	☐
1	2	-	3	-	4

1	Product identification code	DFL
2	Rated current	6 A – 40 A 25 A – 40 A
3	Number of poles	1N 1P+N 3N
4	Rated creepage current	10 - 10 mA 30 – 30 mA 300 – 300 mA

Electrical ratings:

Voltage: 230 V ac 50/60 Hz ≤ 40 A
400 V ac 50/60 Hz ≤ 40 A
250 V dc ≤ 40 A

Degrees of protection (IP Code)

IP20

Ambient temperature range

-20°C to 60°C (IIC)
-40°C to 60°C (IIB)

Service temperature range

-20°C to 110°C (IIC)
-40°C to 110°C (IIB)

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CML 19ATEX1299U
Issue 0

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.

- i. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
- ii. Each unit shall withstand an overpressure test according to EN/IEC 60079-1 clause 16:
 - For Explosion-proof breaker module - The static overpressure test is not less than 9 bar.
 - For Explosion-proof creepage breaker module: The static overpressure test is not less than 11 bar.
- iii. Power-frequency withstand voltage test is conducted according to Clause 7.1 of EN/IEC 60079-7. Explosion-proof circuit breaker module for the rated voltage less than 250V products should be subjected to 1500 V frequency voltage withstand test, which lasted 1 min without breakdown, for rated voltages 400 V products should be subjected to 1800 V frequency voltage withstand test for 1 min, no breakdown.

14 Schedule of Limitations

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

- i. The dimensions of the flameproof joints differ from those of EN/IEC 60079-1 Table 2 and therefore shall not be repaired.
- ii. For units that use the combined types of protection flameproof and increased safety, they shall be installed into suitably dimensioned and certified enclosures that provide a minimum level of protection IP54. When the units are installed in enclosures of the type of protection increased safety in compliance with standard EN/IEC 60079-7, the clearance and creepage distances according to Section 4.3 and 4.4 and Table 2 shall be complied with.

Certificate Annex

Certificate Number CML 19ATEX1299U
Equipment Explosion-proof Circuit Breaker Module
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
CB.002	1 of 1	-	30 Aug 2019	Explosion-proof Circuit Breaker Module
CB.014.1	1 of 1	-	30 Aug 2019	Explosion-proof Circuit Breaker Module
CB.006	1 of 1	-	30 Aug 2019	Explosion-proof Circuit Breaker Module
CB.203	1 of 1	-	30 Aug 2019	Explosion-proof Circuit Breaker Module
CB.015	1 of 1	-	30 Aug 2019	Explosion-proof Circuit Breaker Module
DFD.002 DFL.002	1 of 1	-	30 Aug 2019	Explosion-proof Creepage Circuit Breaker Module (Electromagnetic) (Electronic)
CB.004	1 of 1	-	30 Aug 2019	Explosion-proof Circuit Breaker Module
CB.202	1 of 1	-	30 Aug 2019	Explosion-proof Circuit Breaker Module
CB.004	1 of 1	-	30 Aug 2019	Explosion-proof Circuit Breaker Module
CB.201	1 of 1	-	30 Aug 2019	Explosion-proof Circuit Breaker Module
DF.002	1 of 1	-	30 Aug 2019	Explosion-proof Creepage Circuit Breaker Module (Electromagnetic)
DFD.003	1 of 1	-	30 Aug 2019	Explosion-proof Creepage Circuit Breaker Module (Electromagnetic)