



EU Type Examination Certificate CML 19ATEX1297U Issue 0

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Component **Explosion-proof Load Isolation Switch 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= -45°C to +90°C



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11 Description

The Explosion-proof Load Isolation Switch Module is a component that has a combination of level of protection flameproof “db” and increased safety “eb”. The switch compartment is flameproof, and the terminals are increased safety. The module comprises of many single-pole flameproof switch modules that are fixed by bolts.

The switch can be switched on and off by rotating the main shaft to drive the master cams which are mounted on the shaft to make the plungers on the single-pole flameproof switch modules enter or pop out.

Type designation:

LISM	□	/	□	/	□
1	2	-	3	-	4

1	Product identification code	LISM
2	Rated Current	25 A 40 A 80 A 180 A
3	Number of poles	3P 3PN 4P 6P
4	Auxiliary contact (no matching not noted)	NONC 2NC 2NO 1NC 1NO

Electrical ratings:

25 A module:

Current: 25 A

Voltage: 690 V ac 50/60 Hz

Capacity:

U (V)	230	400	500	690	250	400	24	250
AC3 I (A)	25	25	20	16	AC15 10	8	DC13 8	1
Wire Cross-section area	4 mm ²		2.5 mm ²		1.5 mm ²		1.5 mm ²	



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40 A module:

Current: 40 A

Voltage: 690 V ac 50/60 Hz

Capacity:

U (V)	230	400	500	690
AC3 I (A)	40	40	40	32
Wire Cross-section area	10 mm ²			

80 A module:

Current: 80 A

Voltage: 690 V ac 50/60 Hz

Capacity:

U (V)	230	400	500	690
AC3 I (A)	80	80	80	63
Wire Cross-section area	25 mm ²			16 mm ²

180 A module:

Current: 180 A

Voltage: 690 V ac 50/60 Hz

Capacity:

U (V)	230	400	500	690
AC3 I (A)	180	180	150	125
Wire Cross-section area	95 mm ²		70 mm ²	50 mm ²

Ambient temperature range

-40°C to 55°C

Service temperature range

-40°C to +95°C



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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 be subjected to a dielectric strength test in accordance with the requirements of EN/IEC 60079-7 clause 7.1.
- iii. Each 80 A module shall be subjected to a routine overpressure test of at least 7 bar in accordance with EN/IEC 60079-1 clause 16.
- iv. Each 180 A module shall be subjected to a routine overpressure test of at least 10 bar in accordance with EN/IEC 60079-1 clause 16.

14 Schedule of Limitations

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

- i. Each unit 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 19ATEX1297U
Equipment Explosion-proof Load Isolation Switch Module
Manufacturer Delvalle Global Solutions, S.L.U.



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

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Drawing No	Sheets	Rev	Approved date	Title
LISM.000.1	1 of 1	-	30 Aug 2019	Switch Nameplate