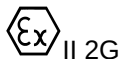




EU Type Examination Certificate CML 19ATEX1300U Issue 0

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Component **Explosion-proof Electric Apparatus Modules**
- 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

Ex db eb IIB Gb

Ts= -20°C to +110°C (IIC)

-40°C to +110°C (IIB)



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11 Description

The Explosion-proof Electric Apparatus Modules are a range of components with combined levels of protection flameproof “db” and increased safety “eb”. The apparatus compartments are flameproof, and the terminals are increased safety.

The modules are divided in to seven categories:

Explosion-proof AC contactor module
Reversible explosion-proof AC contactor module
Explosion-proof magnetic starter module (AC contactor + thermorelay)
Explosion-proof thermorelay module
Explosion-proof time relay module
Explosion-proof miniature relay module
Explosion-proof motor protection switches module

Type designation:

CM□/□/□ Explosion-proof AC contactor module

CM	/	□	/	□	/	□
1	-	2	-	3	-	4

1	Product identification code	CM
2	Rated Current	12 25 38
3	Coil service voltage AC	24 36 48 110 230 440
4	AC contactor	NONC NC NO

Voltage: 690 V
Current: up to 38 A
On-off capacity: up to 18.5 kW
Coil voltage: up to 440 V
Voltage of auxiliary contact: 690 V
Current of auxiliary contact: 10 A
Connection type: main contacts 1 – 10 mm² (6 – 10 mm² used in conjunction with compression lug)
auxiliary contacts 1 – 2.5 mm²



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CMI□/□/□/□ Explosion-proof reversible type AC contactor module:

CMI	/	□	/	□	/	□
1	-	2	-	3	-	4

1	Product identification code	CMI
2	Rated Current	12 25 38
3	Coil service voltage AC	24 36 48 110 230 440
4	AC contactor	NONC NC NO

Voltage: 690 V
 Current: up to 38 A
 On-off capacity: up to 18.5 kW
 Coil voltage: up to 440 V
 Voltage of auxiliary contact: 690 V
 Current of auxiliary contact: 10 A
 Connection type: main contacts 1 – 10 mm² (6 – 10 mm² used in conjunction with compression lug)
 auxiliary contacts 1 – 2.5 mm²

MSM□/□/□ Explosion-proof magnetic starter module (AC contactor + thermorelay)

MSM	□	/	□	/	□
1	2	-	3	-	4

1	Product identification code	MSP
2	Setting range of overload trip	0.16 - 38
3	Rated voltage of auxiliary contact	24 36 48 110 220 400
4	AC contactor	NONC NC NO



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Voltage: 690 V
Current: up to 38 A
On-off capacity: up to 18.5 kW
Coil voltage: up to 440 V
Voltage of auxiliary contact: 690 V
Current of auxiliary contact: 95 / 96 NC, 97 / 97 NO: 5 A
13 / 14 NO, 21 / 22 NC: 10 A
Connection type: main contacts 1 – 10 mm² (6 – 10 mm² used in conjunction with compression lug)
auxiliary contacts 1 – 2.5 mm²

TRM□ Explosion-proof thermorelay module

TRM	□
1	2

1	Product identification code	TRM
2	Setting range of overload trip	0.16 - 38

Voltage: 690 V
Setting range of overload trip: up to 38 A
Voltage of auxiliary contact: 690 V
Current of auxiliary contact: 5 A
Connection type: main contacts 1 – 10 mm² (6 – 10 mm² used in conjunction with compression lug)
auxiliary contacts 1 – 2.5 mm²

TEP60A-□-0.04S-10H Explosion-proof time relay module

TEP60A	-	□	-	0.04S-10H
1	-	2	-	3

1	Product identification code	MSP
2	Service power supply voltage	1 – AC 100 - 120 V 2 – AC 200 – 230 V 3 – DC 12 V 4 – DC 24 V 5 – DC 40 V 6 – DC 100 – 110 V
3	Range	0.04S-10H

Service power supply voltage: up to 230 V (dc power supply can be provided)
Range: 0.04 S ~ 10 h
Work module: Switch on and time relay action when required
Contact capacity: 220 V ac, 5A (resistance load)
Connection type: 1 – 2.5 mm²



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MR ☐ Explosion-proof miniature relay module

MR	☐
1	2

1	Product identification code	MSP
2	Service power supply voltage	1 – AC 24 V 2 – AC 100 – 110 V 3 – AC 220 – 240 V 4 – DC 12 V 5 – DC 24 V 6 – DC 100 – 110 V

Service power supply voltage: up to 240 V (dc power supply can be provided)

Contact capacity: 220 V ac, 5A

24 V dc, 5A

Connection type: 1 – 2.5 mm²

MSP Explosion-proof motor protection switch module

MSP	☐	☐
1	2	3

1	Product identification code	MSP
2	Setting range of overload trip	0.16 - 38
3	Product identification code	.T .NONC

Voltage: 440 V

Setting range of overload trip: 0.1 – 25 A

AC3 on-off capacity: high up to 440 V, 25 A

Rated on-off capacity: high up to 65 kA

Capacity of auxiliary contact: AC15 1 A, 230 V

Voltage trip (under voltage): 230 V, 50 Hz

Connection type: main contacts 1 – 10 mm² (6 – 10 mm² used in conjunction with compression lug)
auxiliary contacts 1 – 2.5 mm²



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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)

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. The test voltage applied is dependent on the rated voltage of the model.
- iii. Each unit shall be subjected to a routine overpressure test in accordance with EN/IEC 60079-1 clause 16. The tests shall be carried out under the following pressures:
 - Types MSM and CMI – 11 bar
 - Types CM, TRM, MR, MSP, and TEP60A – 10 bar

14 Schedule of Limitations

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

- i. The units 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 19ATEX1300U
Equipment Explosion-proof Electric Apparatus Modules
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
MSP.012	1 of 1	-	30 Aug 2019	Motor Protection Switch Module
MSP.014	1 of 1	-	30 Aug 2019	Motor Protection Switch Module
TEP.005	1 of 1	-	30 Aug 2019	Time Relay Module
MR.002	1 of 1	-	30 Aug 2019	Miniature Relay Module
CM.012	1 of 1	-	30 Aug 2019	AC Contactor Module
004	1 of 1	-	30 Aug 2019	Reversible Type AC Main Contacts
005	1 of 1	-	30 Aug 2019	Reversible Type AC Main Contacts
CMI.006	1 of 1	-	30 Aug 2019	Reversible Type AC Contact Module
005	1 of 1	-	30 Aug 2019	Thermorelay Auxiliary Contact
TRM.006	1 of 1	-	30 Aug 2019	Thermorelay
002	1 of 1	-	30 Aug 2019	AC Contactor + Thermorelay Auxiliary Contact
MSM.003	1 of 1	-	30 Aug 2019	AC Contactor + Thermorelay
MSP.006	1 of 1	-	30 Aug 2019	Motor Protection Switch Module
MSP.010	1 of 1	-	30 Aug 2019	Motor Protection Switch Module
006	1 of 1	-	30 Aug 2019	AC Contactor Module Main Contacts
007	1 of 1	-	30 Aug 2019	AC Contactor Module Main Contact (1NO)
008	1 of 1	-	30 Aug 2019	AC Contactor Module Auxiliary Contact (1NO)
009	1 of 1	-	30 Aug 2019	AC Contactor Module Auxiliary Contact (1NO+1NC)