

(1) **EU-Type-Examination Certificate**

(2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 2014/34/EU**




(3) **Certificate Number** TÜV CY 22 ATEX 0206661 X
 (4) for the equipment: Explosion-protected LED lighting MFL3071-*_* Series
 (5) of the manufacturer: **MAM Explosion-proof Technology (Shanghai) Co., Ltd.**
 (6) Address: Zone A 3rd Floor, Zone A 2nd Floor, Zone A 1st Floor, Building 6, No.1888, Huiwang Road, Jiading District, Shanghai 201806, China
 Order number: 0206661
 Date of issue: 2022-09-08

(7) The design of this equipment or protective system and any acceptable variation thereto are specified in the schedule to this EU-Type-Examination Certificate and the documents therein referred to.
 (8) TÜV CYPRUS Ltd, notified body No. 2261 in accordance with Article 17 of the Council Directive of 2014/34/EU of February 26, 2014, certifies that this equipment or protective system 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 the confidential report No. 22 0206661.
 (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN 60079-31:2014
 The following has been used as technical reference:
EN IEC 60079-15:2019

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
 (11) This EU-Type-Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment which are not covered by this certificate.
 (12) The marking of the equipment or protective system must include the following:

 **II 3G Ex nR IIC T4...T6 Gc**
II 2D Ex tb IIIC T115 °C...T80 °C Db

Accredited by CYS-CYSAB
 Certificate No. C 004-2

TÜV CYPRUS Ltd (TUV NORD Group),

The head of the notified body,
 Demosthenous

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(13) **SCHEDULE**

(14) **EU-Type-Examination Certificate No. TÜV CY 22 ATEX 0206661 X**

(15) Description of equipment

The explosion-protected LED lighting includes the following: MFL3071-A_* series floodlights, MFL3071-C_* series spotlights and MFL3071-E_* series lighting fixture.

MFL3071-A_* series are composed of body and cover incorporated with transmitting part, the lighting compartment and power compartment are one single chamber.

MFL3071-C_* series are composed of separate lighting compartment and power compartment, wires are connected through sleeve.

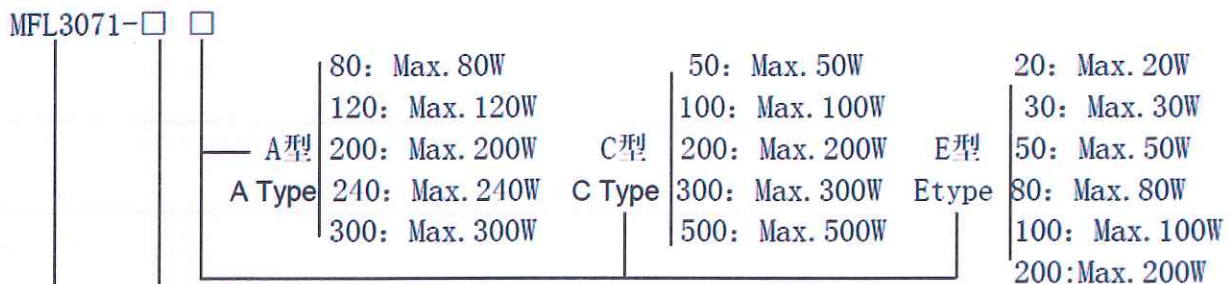
MFL3071-E_* series are composed of separate lighting compartment and power compartment, wires are connected through upper and bottom wireless connector plates with threaded joint.

All the models are equipped with power driver and proper ATEX cable glands shall be used.

Permissible range of ambient temperature: $-40\text{ }^{\circ}\text{C} \leq T_a \leq +40\text{ }^{\circ}\text{C}$ or $-40\text{ }^{\circ}\text{C} \leq T_a \leq +60\text{ }^{\circ}\text{C}$

The degree of enclosure protection according to EN 60529 is IP66.

Identification code:



- A: 泛光灯 Floodlighting
- C: 投光灯 Spotlighting
- E: 照明灯 Lighting fixture

MFL3071系列防爆LED灯 MFL3071 Series Explosion-proof LED lighting

Ratings:

Type	Power	Ambient temperature range				Voltage	Ex marking
		-40°C ... +40°C		-40°C ... +60°C			
		Gas	Dust	Gas	Dust		
MFL3071- A_* series	Max.80W	T6	T80°C	T5	T85°C	100...277VAC, 50/60Hz, 142...390VDC	II 3G Ex nR IIC T6...T4 Gc II 2D Ex tb IIIC T80°C...T115°C Db
	Max.120W	T6	T80°C	T4	T100°C		
	Max.200W	T6	T80°C	T5	T95°C		
	Max.240W	T5	T95°C	T4	T115°C		
	Max.300W						
MFL3071- C_* series	Max.50W	T6	T80°C	T5	T86°C	100...277VAC, 50/60Hz, 142...390VDC	II 3G Ex nR IIC T6...T4 Gc II 2D Ex tb IIIC T80°C...T103°C Db
	Max.100W	T5	T83°C	T4	T103°C		
	Max.200W	T5	T82°C	T4	T102°C		
	Max.300W	T6	T80°C	T5	T95°C		
	Max.500W	T6	T80°C	T5	T95°C		
MFL3071- E_* series	Max.20W	T6	T80°C	T5	T95°C	180...260VAC, 50/60Hz, 100...240VAC, 50/60Hz, 140...330VDC	II 3G Ex nR IIC T6...T4 Gc II 2D Ex tb IIIC T80°C...T113°C Db
	Max.30W						
	Max.50W						
	Max.80W	T6	T80°C	T4	T100°C		
	Max.100W						
	Max.200W	T5	T95°C	T4	T113°C		

Warning labels:

The following warnings can be applied on the enclosure:

Warning: DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT WARNING

Warning: POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

(16) Test documents are listed in the test report No. 22 0206661.

Routine test:

The manufacturer shall carry out the following routine tests:

- Dielectric strength test according to EN 60079-15 clause 12.1 at 2000 V AC for at least 100 ms.
- For the restricted-breathing enclosure according to EN 60079-15 Clause 12.2.2.1.2, under constant temperature conditions, the time interval required for an internal pressure of 3.0 kPa (300 mm water gauge) below atmospheric to change to 2,7 kPa (270 mm water gauge) below atmospheric shall be no less than 27 s.

(17) Special conditions for safe use

The seal of the maintenance cover and light cavity cover must be replaced each time the cover is opened.

Plain entry is located on the side wall of the terminal box (for C series) and side wall of the body (for A series), the clearance hole for plain entries has not more than 0.7 mm greater than the nominal diameter of the selected entry ATEX certified gland.

(18) Essential Health and Safety Requirements

This EU type Examination certificate covers only the Essential Health and Safety Requirements related to the Directive 2014/34/EU.