



# Schedule



Product Service

(13)

(14)

**EU-Type Examination Certificate no.**

**TPS 23 ATEX 117594 0012 U Rev. 00**

## Certificate History

Revision:	Description:	Report no.:	Issue Date:
Rev. 00	First issue.	70.520.23.101.03	16.08.2023

(15)

### Description of component:

The LED drivers type MU025HyAQ\_MB/z and MU035HyAQ\_MB/z are a range of switch-mode power supplies with constant current outputs. They are designed as Ex components according to encapsulation "mb" type of protection and intended to be used in zone 1 IIC explosive gas atmosphere. They are applied to be used with LED based luminaries.

See the user instructions for further details.

### Model designation:

M U x H y A Q \_ MB/z  
1 2 3 4 5 6 7 8 9

- 1 - M: Represented as a metal enclosure;
- 2 - U: Represented as a wide voltage range;(100-277 Vac or 125-300Vdc)
- 3 - x: Can be 025 and 035 to represented rated power. (025 = 25W, 035 = 35W);
- 4 - H: Represented Product family code;
- 5 - y: Represented output current. (eg.105 means 1.05A);
- 6 - A: Represented as a single output;
- 7 - Q: Represented as constant current output mode;
- 8 - MB: Represented Explosion proof type;
- 9 - z: Can be CP,DALI,AUX, F and CV to represent different functional extension  
CP = Constant output power  
DALI = DALI dimming  
AUX = Auxiliary supply  
F = Constant output current  
CV= Constant output voltage

### Warning label:

No warning.

### Model difference:

The difference between MU025HyAQ\_MB/z and MU035HyAQ\_MB/z is the output electric rating.

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The document is administrated under the following number: EX5A 23 117594 0012 Rev. 00

Doc. Name: Temp-ExNBG-TPS-Type-U-Cert-Rev. 02

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### Technical data:

For LED Driver Model MU025HyAQ\_MB/z:

- AC Ratings: 100 to 277 Vac, 0.4A max, 50/60Hz;
- DC Ratings: 125 to 300 Vdc, 0.4A max;
- Output Ratings: 18 to 48 Vdc, 1050mA max;
- Output power: 25W max;
- Dimming Range: 0-100%;
- Auxiliary Output: 12Vdc, 300mA or 24Vdc, 150mA

For LED Driver Model MU035HyAQ\_MB/z:

- AC Ratings: 100 to 277 Vac, 0.6A max, 50/60Hz;
- DC Ratings: 125 to 300 Vdc, 0.6A max;
- Output Ratings: 20 to 100 Vdc, 1050mA max;
- Output power: 35W max;
- Dimming Range: 0-100%;
- Auxiliary Output: 12Vdc, 300mA or 24Vdc, 150mA

### Installation instruction:

See installation instructions provided by the manufacturer and part of this certification.

See also (17) Schedule of limitations.

(16)

Test report(s): 70.520.23.101.03

### Routine tests:

Routine tests on each piece (100%) are required by the manufacturer:

1/ Visual inspections are required according to Clause 9.1 of EN 60079-18:2015. No damage to the compound that could impair the type of protection shall be evident.

2/ A dielectric strength test is required according to Clause 9.2 of EN 60079-18:2015. A dielectric strength test between the driver input and the enclosure/earth, between the driver output and the enclosure/earth, between the driver input and output shall be carried out at  $(2U_N+1000)V$  r.m.s, at least min.1500V r.m.s. for at least 1 s without breakdown or arcing occurs during testing. Alternatively, 1.2 times the test voltage may be applied and maintained for at least 100 ms without breakdown or arcing occurs during testing.

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