



Product Service



# (1) Type Examination Certificate

(2) Equipment or Protective Systems Intended for Use in  
Potentially Explosive Atmospheres – **Directive 2014/34/EU**

(3) Type Examination Certificate Number:

**TPS 18 ATEX 033299 0432 X Rev. 00**

(4) Equipment or Protective System: Switching Power Supply –

Type: PRO TOP1 240W 24V 10A EX

(5) Manufacturer: Weidmüller Interface GmbH & Co. KG

(6) Address: Klingenbergstr. 16, 32758 Detmold, GERMANY

(7) This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) TÜV SÜD Product Service GmbH certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products 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 with no. 64.105.18.02247.01

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0:2012+A11:2013 EN 60079-7:2015+A1:2018 EN 60079-15:2010**

(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 Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:



**II 3G Ex ec nC IIC T4 Gc**

**-40°C ≤ T<sub>amb</sub> ≤ +70°C**

Certification Office Of Explosion Protection

München, 10.12.2018

Ing. Frank Zhu, MSc.

:

Frank Zhu

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Certificates without signature shall not be valid. The Certificates may only be circulated in full including its schedule(s). Extracts or alterations are subject to approval by TÜV SÜD Product Service GmbH. In case of dispute, the German text shall prevail. The document is administrated under the following number: EX8A 033299 0432 Rev. 00

Doc. Name: Temp-ExNBG-TPS-Type-Cert-Iss.01-2018

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## Schedule



Product Service

(13)

(14)

Type Examination Certificate no.

TPS 18 ATEX 033299 0432 X Rev. 00

### Certificate History

Revision:	Description:	Report no.:	Issue Date:
Rev. 00	First issue.	64.105.18.02247.01	10.12.2018

(15)

### Description of equipment:

The Switching Power Supply is Category 3 equipment.  
The Ex marking is: Ex ec nC IIC T4 Gc.  
The equipment is protected by Ex 'ec' and the relay inside is protected by Ex 'nC' sealed device. It's a well performance AC-DC module with one-phase input and single output. It has functions such as output over-current protection, output overvoltage protection, output short circuit protection, and parallel connection and so on, with well combined regulation and high efficiency. The requirements are valid for "Single Device" and the "Single Device together with COMM35"

### Model designation:

PRO TOP1 240W 24V 10A EX

↑      ↑      ↑      ↑  
I      II      III      IV

I – Number of input phase

1: Single phase

3: Three phase

II – Rated output Power

III – Rated output voltage(DC)

IV – Rated output current(DC)

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**Schedule**

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**Type Examination Certificate no.**

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Model difference:

None.

Technical data:

Rated voltage	100-240VAC
Rated current	PRO TOP1 240W 24V 10A EX: input 4A max., output: 10A, when operational temperature between +60°C and +70°C, derating 2.5%/K
Rated power	240W
Frequency	50/60Hz
Operating temperature	-40°C to +70°C

Warning label:

N/A

Installation instruction:

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

See also (17) Special conditions for safe use.

(16)

Test report(s): 64.105.18.02247.01

Routine tests:

100% routing test will be done by manufacturer.

Dielectric strength test:

1. 1500VAC between input terminal and enclosure for 100ms

2. 500VAC between output terminal and enclosure for 100ms

No breakdown shall occur.

## Schedule



Product Service

### Type Examination Certificate no.

TPS 18 ATEX 033299 0432 X Rev. 00

#### Document List:

File no.:	Description:	Pages:	Rev:	Date:
A1005FEx	PRO TOP1 240W series construction drawing	1	V05-00	2018-10-23
A1005EV08A	PRO TOP1 240W 24V 10A EX circuit diagram	5	V08A	2018-10-23
3 66238	PRO COM CAN OPEN	1	00	2017-11-23
3 63555	PCBA PROTOP-COMM35	5	0	2017-11-16
4 63555	PCBA PROTOP-COMM35	2	0	2017-11-16
-	CDF of PRO TOP1 240W series	10	-	2018-03-30
-	User manual for PRO TOP1 240W 24V 10A EX	1	V00	2018-7-31
-	Specification of PRO TOP1 240W 24V 10A EX	17	V01	2018-08-21
WI-EN-002 for A1005FEx	PRO TOP1 240W 24V 10A EX working instruction of coating	9	02	2018-11-31

A copy of the full documentation is kept confidentially at TÜV SÜD files.

#### (17) Special conditions for safe use:

1. The equipment shall only be used in an area of at least pollution degree 2, as defined in EN 60664-1.
2. The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP 54 in accordance with EN 60079-0.
3. Transient protection shall be provided that is set at a level not exceeding 140 % of the peak rated voltage value at the supply terminals to the equipment.
4. The installation must be installed according the requirements of EN 60079-14:latest version (or its National equivalent standard).

#### (18) Essential health and safety requirements:

Assured by compliance with standards set out in (9).

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