



**BUREAU
VERITAS**



Certificate of Conformity

- (1)
- (2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres – **Directive 2014/34/EU**

- (3) Certificate Number:

EPS 17 ATEX 1 089 X

Revision 0

- (4) Equipment: Power supply (built-in):
PS2001-2420-0000; PS2001-4810-0000
- (5) Manufacturer: Beckhoff Automation GmbH & Co. KG
- (6) Address: Hülshorstweg 20, 33415 Verl, Germany
- (7) This equipment and any acceptable variation thereto are specified in the schedule to this Certificate of Conformity and the documents therein referred to.
- (8) Bureau Veritas Consumer Products Services Germany GmbH certifies based on a voluntary assessment that this equipment 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 of the Directive 2014/34/EU. The examination and test results are recorded in the confidential documentation under the reference number 17TH0214.
- (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

EN 60079-15:2010

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This Certificate of Conformity relates only to the design and the construction of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture and supply of this equipment. Those requirements are not covered by this certificate.
- (12) The marking of the equipment shall include the following:



II 3G Ex ec nC IIC T4 Gc



Certification department of explosion protection

H. Schaffer

Hamburg, 2020-06-15

Page 1 of 3

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(13)

Annexe

(14) **Certificate of Conformity EPS 17 ATEX 1 089 X**

Revision 0

(15) Description of equipment:

This series of power supplies are industrial grade DIN-rail mountable open type switch-mode power supplies in the 480W power class with built-in redundancy. They are designed for single-phase input voltages between AC 100V and AC 240V and provide a floating, stabilized and galvanically separated single output voltage.

Optionally, devices are also offered without the built-in redundancy feature.

In addition to the AC input voltage, the power supplies can also be supplied from a DC voltage.

The devices are available with several different connection terminal options such as screw terminals, quick-connect spring-clamp terminals, push-in terminals or plug-connectors.

All devices are designed for installation in an enclosure providing protection against electrical, mechanical and fire hazards and are intended for general use such as in industrial control, power distribution and instrumentation equipment.

The equipment is type of protection "ec"; type of protection "nC" was applied for the relays only.

Electrical data:

PS2001-2420-0000

Input:

AC 100-240V | 6.3 - 2.7A | 50 - 60Hz

DC 110-150V | 5.7 - 4.2A

Output:

DC 24-28V | 24 – 20.6A (below +45 °C)

DC 24-28V | 20 – 17.1A (at +60 °C)

DC 24-28V | 15 – 13.0A (at +70 °C)

Derate linearly between +45 °C and +70 °C

Ambient temperature range: -25 °C to +70 °C

PS2001-4810-0000

Input:

AC 100-240V | 6.3 - 2.7A | 50 - 60Hz

DC 110-150V | 5.7 - 4.2A

Output:

DC 48-56V | 12.0 - 10.3A (below +45 °C)

DC 48-56V | 10.0 - 8.6A (at +60 °C)

DC 48-56V | 7.5 - 6.5A (at +70 °C)

Derate linearly between +45 °C and +70 °C

Ambient temperature range: -25 °C to +70 °C

(16) Reference number: 17TH0214

(17) Schedule of Limitations:

- The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP 54 in accordance with IEC 60079-0.
- The equipment shall only be used in an area of not more than pollution degree 2, as defined in IEC 60664-1.
- Ambient temperature range up to 70 °C; de-rating conditions must be considered.
- Output power de-rating conditions for installation in non-standard mounting orientation must be considered.

Page 2 of 3

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- Input voltage tolerances for use in potentially explosive atmospheres deviate from those for use in ordinary location; refer to the instruction manual.
- DC input voltage supply is not allowed (only for use in ordinary applications).

(18) Essential health and safety requirements:

Met by standards.

Certification department of explosion protection

Hamburg, 2020-06-15

