

[1] **TYPE EXAMINATION CERTIFICATE**



[2] **Equipment or Protective System intended for use
in Potentially Explosive Atmospheres
Directive 2014/34/EU**

[3] Type Examination Certificate Number: **DEMKO 14 ATEX 1350833X Rev. 6**

[4] Product: **Power Supply, Models SDN 20-24-100C, SDN 20-24-100CX**

[5] Manufacturer: **Emerson**

[6] Address: **9377 W. Higgins Road, Rosemont, IL 60018 USA**

[7] This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] UL International Demko A/S 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 Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.

The examination and test results are recorded in confidential report no. **4788278927.4.1**

[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

except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

[11] This Type examination certificate relates only to the design of the specified product, and not to specific items of product subsequently manufactured.

[12] The marking of the product shall include the following:

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Certification Manager
Jan-Erik Storgaard

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2014-02-21

Re-issued: 2018-06-27

Certification Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
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Schedule

TYPE EXAMINATION CERTIFICATE No.

DEMKO 14 ATEX 1350833X Rev. 6

[13]

[14]

[15]

Description of Product:

Device is a power supply. It is intended for installation within an enclosure. Model SDN 20-24-100CX is similar to model SDN 20-24-100C, but with conformal coating applied. Model numbers may also be followed by suffix consisting of 1-3 alphanumeric characters.

The optical radiation output of the apparatus with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 2014/34/EU is covered in this certificate based on Exception 1 to the scope of EN 60079-28:2015.

Temperature range:

The ambient temperature range is $-40^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$

Electrical data

Input: 100-240 V ac, 5.6 A, 50/60 Hz
100-250 V dc, 5.4 A

Output: 24 V dc, 20.0 A, 480W at 60 °C
24 V dc, 10.0 A, 240W at 70 °C

Relay output (resistive): 50 V dc, 0.2 A

Routine tests:

No routine testing is required.

[16]

Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this Type Examination Certificate.

[17]

Special Conditions of Use:

- The equipment shall be installed in an enclosure that provides a degree of protection not less than IP54 in accordance with EN 60079-0.
- The equipment shall only be used in an area of not more than pollution degree 2, as defined in EN 60664-1.

[18]

Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information



The trademark **EMERSON** will be used as the company identifier on the marking label.