

# TYPE EXAMINATION CERTIFICATE



## Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

- [3] Type Examination Certificate Number: **DEMKO 14 ATEX 1350833U Rev. 2**
- [4] Component: **Models SDN 20-24-100C and ADN20-24-1PM-C Power Supplies**
- [5] Manufacturer: **Emerson**
- [6] Address: **9377 W. Higgins Road, Rosemont, IL 60018 USA**
- [7] This Component and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- [8] UL International Demko A/S certifies that this equipment has been found to comply with the Essential Health and Safety Requirements that relate to the design of **Category 3** equipment, which is intended for use in potentially explosive atmospheres. These Essential Health and Safety Requirements are given in Annex II to the European Union Directive 94/9/EC of 23 March 1994.
- The examination and test results are recorded in confidential report number: **4786793797-14ATEX1350833U**
- [9] Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to Standards:
- EN 60079-0:2012+A11:2013      EN 60079-15:2010**
- [10] The sign "U" placed after the certificate number indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective.
- [11] This Type examination certificate relates only to the design of the specified component, and not to specific items of equipment subsequently manufactured.
- [12] The marking of the equipment or protective system shall include the following:

**II 3 G      Ex nA nC IIC Gc**

**Certification Manager**  
Jan-Erik Storgaard

This is to certify that the sample(s) of the Equipment described herein ("Certified Equipment") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Equipment Certification Program Requirements. This certificate and test results obtained apply only to the equipment 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 equipment. UL has not established Follow-Up Service or other surveillance of the equipment. The Manufacturer are solely and fully responsible for conformity of all equipment 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:** 2015-04-29

**Certification Body**

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark  
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**Schedule**  
**TYPE EXAMINATION CERTIFICATE No.**  
**DEMKO 14 ATEX 1350833U** Rev. 2  
**Report: 4786793797-14ATEX1350833U**

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Description of Component:

These are power supplies. They are intended for installation within an enclosure. Models SDN 20-24-100C and ADN20-24-1PM-C are identical to each other.

Temperature range:

The ambient temperature range is -25 °C to +70 °C

Electrical data

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

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

Installation instructions:

Refer to "Schedule of limitations".

Mounting instructions

Refer to manufacturer's Installation Instructions and "Schedule of limitations".

Routine tests:

No routine testing is required.

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Descriptive Documents.:

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

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Schedule of limitations:

- The power supplies shall be installed within an IP54 minimum enclosure that encloses exposed current-carrying parts (wiring terminals) and has been evaluated and is suitable for ATEX (evaluated to the requirements of EN 60079-0:2009, EN 60079-0:2012 and EN 60079-15:2010).
- Provision shall be made to prevent the rated voltage being exceeded by the transient disturbances of more than 140%.
- The operating temperature class (T-code) of this device was determined to be T4.

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Essential Health and Safety Requirements

Met by compliance with the standards EN 60079-0:2012+A11:2013 and EN 60079-15:2010.

The trademark "Emerson" will be used as the company identifier on the marking label.

