

[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 15 ATEX 1569X Rev. 4**

[4] Product: **Redundancy Power Supply Module, Models SDN 2X10RED, SDN 2X10REDX, SDN 2X20RED, SDN 2X20REDX, SDN 2X40RED, SDN 2X40REDX**

[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. **4788278927.6.1**

[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:

II 3 G Ex ec nC IIC T4 Gc

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: 2015-12-16

Re-issued: 2018-06-28

Certification Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
Tel. +45 44 85 65 65, info.dk@ul.com, www.ul.com



Schedule

TYPE EXAMINATION CERTIFICATE No.

DEMKO 15 ATEX 1569X Rev. 4

Description of Product:

Models SDN 2X10RED, SDN 2X20RED, and SDN 2X40RED are redundancy module power supplies. The devices have two inputs which allows two power supplies to be used for redundant operation. These devices may also be used to increase supply current by combing the available input power supply currents in parallel. They are intended for installation within an enclosure. Models SDN 2X10REDX, SDN 2X20REDX, and SDN 2X40REDX are similar to models SDN 2X10RED, SDN 2X20RED, and SDN 2X40RED, 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 product 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: 12-28 VDC

SDN 2X10RED, SDN 2X10REDX	SDN 2X20RED, SDN 2X20REDX	SDN 2X40RED, SDN 2X40REDX
18A x 2 or 36A x 1 at 40°C	26A x 2 or 52A x 1 at 40°C	45A x 2 or 90A x 1 at 40°C
16A x 2 or 32A x 1 at 50°C	25A x 2 or 50A x 1 at 50°C	42.5A x 2 or 85A x 1 at 50°C
14A x 2 or 28A x 1 at 60°C	24A x 2 or 48A x 1 at 60°C	40A x 2 or 80A x 1 at 60°C
12A x 2 or 24A x 1 at 70°C	20A x 2 or 40A x 1 at 70°C	35A x 2 or 70A x 1 at 70°C

Output: 12-28 VDC

SDN 2X10RED, SDN 2X10REDX	SDN 2X20RED, SDN 2X20REDX
18A redundancy, 36A maximum at 40°C	26A redundancy, 52A maximum at 40°C
16A redundancy, 32A maximum at 50°C	25A redundancy, 50A maximum at 50°C
14A redundancy, 28A maximum at 60°C	24A redundancy, 48A maximum at 60°C
12A redundancy, 24A maximum at 70°C	20A redundancy, 40A maximum at 70°C

SDN 2X40RED, SDN 2X40REDX

45A redundancy, 90A maximum at 40°C
42.5A redundancy, 85A maximum at 50°C
40A redundancy, 80A maximum at 60°C
35A redundancy, 70A maximum at 70°C

OK Contact Rating: 60 VDC, 1A

Routine tests:

None.

Descriptive Documents

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

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.

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.