

TYPE EXAMINATION CERTIFICATE



[1]

[2]

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

[3]

Type Examination Certificate Number: **DEMKO 16 ATEX 1737X Rev. 0**

[4]

Product: **Open Type Power Supply, Models S8VK-S240 and S8VK-S480 Series**

[5]

Manufacturer: **Omron Corp.**

[6]

Address: **SHIOKOJI HORIKAWA, Shimogyo-Ku, Kyoto, 600-8530 Japan**

[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. **4787463668**

[9]

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

EN 60079-0:2012+A11:2013

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 nA nC IIC T3 Gc**

 **II 3 G Ex nA IIC T3 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: 2016-09-02

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



[13]

Schedule

[14]

TYPE EXAMINATION CERTIFICATE No.

DEMKO 16 ATEX 1737X Rev. 0

[15]

Description of Product:

These devices are open type power supplies to be used in combination with Industrial Control Equipment. These devices are suitable for field wiring, mounted on DIN-rail and for use in Pollution Degree 2 environment. These devices employing an Isolating-Type, Step-down Transformer.

Open-type Switch Mode Power Supplies , Models S8VK, followed by –S, followed by 240 or 480, followed by 24, may be followed by an addition character from A through Z, may be followed by an additional number from -300 through -999.

Model S8VK-S240 Series is Ex nA IIC T3 Gc

Model S8VK-S480 Series is Ex nA nC IIC T3 Gc

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 not covered in this certificate based on Exception 1 to the scope of EN 60079-28:2015.

Nomenclature for Model S8VK-S Series

<u>S8VK-S</u>	<u>240</u>	<u>24</u>	<u>A</u>	<u>300</u>
I	II	III	IV	V

- I. Basic Type Unit
S8VK-S
- II. Output Wattage
240: 240W
480: 480W
- III. Output Voltage
24: 24 V dc
- IV. Optional Suffix
Maybe followed by additional character from A through Z.
- V. Optional Suffix
Maybe followed by additional number from -300 through -999.

Temperature range

The relation between ambient temperature and the assigned temperature class is as follows for all models:

Ambient temperature range

-40°C to +55 °C (80% Load)

-40°C to +40 °C (100% Load)

Temperature class

T3

T3

Note – For ambient temperature >40°C, the load derating is calculated per 1.33%/K

Electrical data

Model Type	Input		Output		Alarm Output	
	Voltage, Frequency	Current	Voltage	Current	Voltage	Current
S8VK-S24024	100-240 V ac, 50/60 Hz	3.1A max	24 V dc	10 A	30 V dc max	50 mA max
S8VK-S48024	100-240 V ac, 50/60 Hz	5.9 A max	24 V dc	20 A	30 V dc max	50 mA max

Routine tests

Routine tests are not 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.

[13]

Schedule

[14]

TYPE EXAMINATION CERTIFICATE No.

DEMKO 16 ATEX 1737X Rev. 0

[17]

Special Conditions of Use:

- The equipment shall only be used in an area of not more than pollution degree 2, as defined in EN 60664-1.
- The equipment shall be installed in an enclosure with tool removable door or cover that provides a degree of protection not less than IP 54 in accordance with EN 60079-15.
- 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.

[18]

Essential Health and Safety Requirements

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

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