



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx UL 15.0023X

Issue No: 5

Certificate history:

[Issue No. 5 \(2018-06-26\)](#)

[Issue No. 4 \(2016-12-19\)](#)

[Issue No. 3 \(2016-08-10\)](#)

Status: **Current**

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Date of Issue: **2018-06-26**

Applicant: **Emerson**  
9377 W. Higgins Road  
Rosemont, IL 60018  
**United States of America**

Equipment: **Power Supply, Models SDN 5-24-100C, SDN 5-24-100CX**

*Optional accessory:*

Type of Protection: **Increased Safety "ec", Sealed "nC"**

Marking:

Ex ec nC IIC T4 Gc

-40°C ≤ Ta ≤ +70°C

*Approved for issue on behalf of the IECEx  
Certification Body:*

Katy A. Holdredge

*Position:*

Senior Staff Engineer

*Signature:  
(for printed version)*

*Date:*

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](#).

Certificate issued by:

**UL LLC**  
333 Pfingsten Road  
Northbrook IL 60062-2096  
United States of America





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Manufacturer: **Emerson**  
9377 W. Higgins Road  
Rosemont, IL 60018  
**United States of America**

Additional Manufacturing location(s):

**Astec Power Philippines Inc (Subsidiary of Artesyn Embedded Technologies)**

Main Road Cor. Road J Cavite Economic Zone Authority Tejeros Convention, Rosario Cavite Philippines 4106  
Philippines

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

**STANDARDS:**

The apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-15 : 2010</b> Edition:4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
<b>IEC 60079-7 : 2015</b> Edition:5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

**TEST & ASSESSMENT REPORTS:**

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:

[US/UL/ExTR15.0020/05](#)

Quality Assessment Report:

[US/UL/QAR15.0004/03](#)      [US/UL/QAR15.0009/03](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

This device is a power supply for information technology equipment including electrical business equipment. It is intended for installation within an enclosure. Model SDN 5-24-100CX is similar to model SDN 5-24-100C, but with conformal coating applied. Model numbers may also be followed by suffix consisting of 1-3 alphanumeric characters.

Please see Annex for additional information.

### SPECIFIC CONDITIONS OF USE: YES as shown below:

The equipment shall be installed in an enclosure that provides a degree of protection not less than IP54 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.



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## **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):**

Issue 1: Model reference removed from 60079-0 test report. 60079-15 test report did not reference the model and was not affected by this revision.

Issue 2: Temperature code revision due to revision of components.

Issue 3: Update to new protection method "ec", ambient temperature was updated and new suffixes for conformally coated model and option designations.

Issue 4: Addition of new input rating, revision of components.

Issue 5: Revision to add alternate components; minor drawing updates and update to manufacturer address.



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**Additional information:**

**Annex:**

[Annex to IECEX UL 15.0023X Issue 5.pdf](#)



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## PARAMETERS RELATING TO THE SAFETY

Input: 100-240 V ac, 2.0 A, 50/60 Hz  
100-340 V dc, 1.4 A

Output: 24 V dc, 5.0 A, 120W at 60 °C  
24 V dc, 2.5 A, 60W at 70 °C

Relay output: 50 V dc, 0.2 A (Resistive Load)

## MARKING

Marking has to be readable and indelible; it has to include the following indications:

**SDN 5-24-100C**  
 OK Contact Rating:  
 50V --- / 0.2A  
 Ambient temperature range: -40°C ≤ Ta ≤ 60°C

**UL US** E137632 E234790  
 Class I, Zone 2, AEx nA nC IIC T4 Gc  
 Class I, Zone 2, Ex nA nC IIC T4 U

**CE Ex**  
 II 3 G Ex ec nC IIC T4 Gc  
 DEMKO 11ATEX1133501X

**IECEx**  
 Ex ec nC IIC T4 Gc  
 IECEx UL 15.0023X

**Ex EAC**  
 № TC RU C-US AA87.B.00539  
 2Ex nA nC IIC T4 Gc X

**EMERSON**  
 MSP-REM-N4C-SDN5

**SOLA**  
 9377 W Higgins Rd Rosemont, IL 60018 USA  
 SolaHD Technical Support: 1.800.377.4384 www.solahd.com

+ + - - 24V = / 5A OK  
 Input  
 Output  
 Alarm  
 22.5-28.5V=  
 Single  
 Parallel  
**SOLA**  
 Power Supply  
 SDN 5-24-100C  
**UL US LISTED**  
 IND.CONT.EQ. 9HA0  
 100-240V ~ 2A 50/60 Hz  
 100-340V = 1.4A  
 N/- L/+



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**SDN 5-24-100CX**  
 OK Contact Rating:  
 50V --- / 0.2A  
 Ambient temperature range: -40°C ≤ Ta ≤ 60°C

**UL US** E137832 E234790  
 Class I, Zone 2, AEx nA nC IIC T4 Gc  
 Class I, Zone 2, Ex nA nC IIC T4 U

**CE Ex** I13 G Ex ec nC IIC T4 Gc  
 DEMKO 11ATEX1133501X

**IECEX** Ex ec nC IIC T4 Gc  
 IECEx UL 15.0023X

**EX EAC** № TC RU C-US.AA87.B.00539  
 2Ex nA nC IIC T4 Gc X

**MSIP-REM-N4C-SDN5**

**EMERSON**

**SOLA**  
 9377 W Higgins Rd Rosemont, IL 60018 USA  
 SolaHD Technical Support: 1.800.377.4384 www.solahd.com

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 N/- L/+