



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

Certificate No.: IECEx UL 15.0015X

Issue No: 5

Certificate history:

Issue No. 5 (2018-06-27)

Issue No. 4 (2017-07-28)

Issue No. 3 (2017-04-28)

Issue No. 2 (2016-08-12)

Status: **Current**

Page 1 of 5

Date of Issue: **2018-06-27**

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

Equipment: **Power Supply, Models SDN 40-24-100C, SDN 40-24-100CX**

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:*

Erin LaRocco

Position:

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](http://www.iecex.com).

Certificate issued by:

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





IECEX Certificate of Conformity

Certificate No: IECEX UL 15.0015X Issue No: 5
Date of Issue: **2018-06-27** Page 2 of 5
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:

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

*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/ExTR15.0024/05](#)

Quality Assessment Report:

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



IECEX Certificate of Conformity

Certificate No: IECEx UL 15.0015X

Issue No: 5

Date of Issue: 2018-06-27

Page 3 of 5

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Device is a power supply for information technology equipment including electrical business equipment. It is intended for installation within an enclosure. Model SDN 40-24-100CX is similar to model SDN 40-24-100C, 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.



IECEX Certificate of Conformity

Certificate No: IECEX UL 15.0015X

Issue No: 5

Date of Issue: **2018-06-27**

Page 4 of 5

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

Issue 3: Addition of new input rating and revision of components.

Issue 4: Alternate components, revision of output rating and revision of Temperature Code.

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



IECEX Certificate of Conformity

Certificate No: IECEX UL 15.0015X

Issue No: 5

Date of Issue: 2018-06-27

Page 5 of 5

Additional information:

Annex:

[Annex to IECEX UL 15.0015X Issue 5.pdf](#)



IECEx Certificate of Conformity

Certificate No.: IECEx UL 15.0015X

Issue No.: 5

Page 1 of 3

PARAMETERS RELATING TO THE SAFETY

Input: 100-240 V ac, 12 A, 50/60 Hz
120-340 V dc, 8.9 A
Output: 24 V dc, 40 A, 960W at 60 °C
24 V dc, 30 A, 720W at 70 °C
Relay output: 50 V dc, 0.2 A (Resistive Load)

MARKING

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

Risk of electric shock.
 Do not open. Read installation manual.
 Risque de choc électrique.
 Ne pas ouvrir. Lire le manuel d'installation.
 Опасность поражения электрическим током.
 Не открывать. Читайте инструкцию по установке

UL US E137632 E234780
 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 13ATEX1215573X

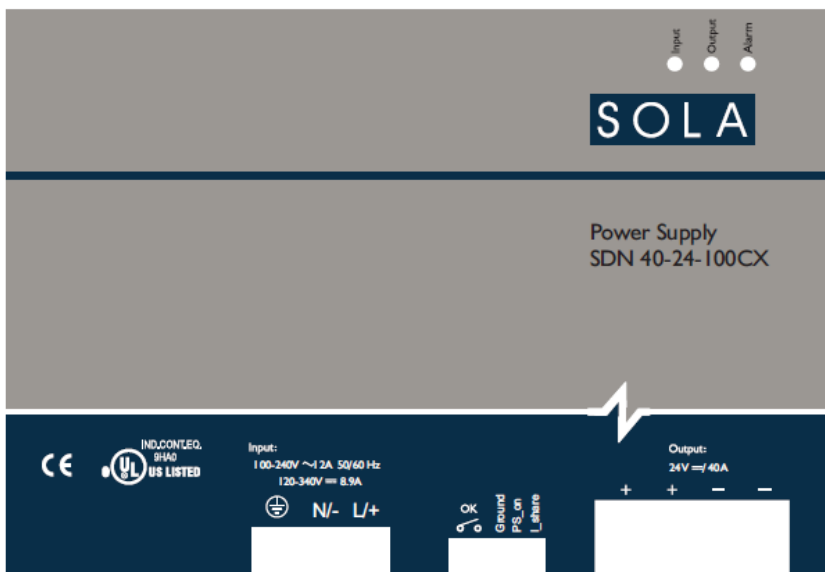
IECEX Ex ec nC IIC T4 Gc
 IECEx UL 15.0015X

Ex EAC № TC RU C-US.AA87.B.00710
 2Ex nA nC IIC T4 Gc X

MS IP-REM-N4C-SDN40

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

EMERSON



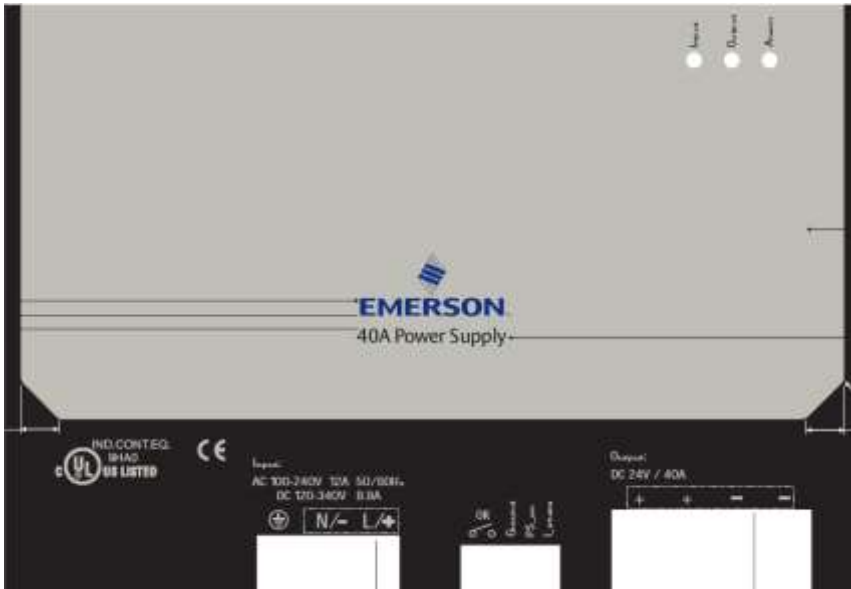


IECEx Certificate of Conformity

Certificate No.: IECEx UL 15.0015X

Issue No.: 5

Page 2 of 3



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

Risk of electric shock.
 Do not open. Read installation manual.
Risque de choc électrique.
 Ne pas ouvrir. Lire le manuel d'installation.
Опасность поражения электрическим током.
 Не открывать. Читайте инструкцию по установке

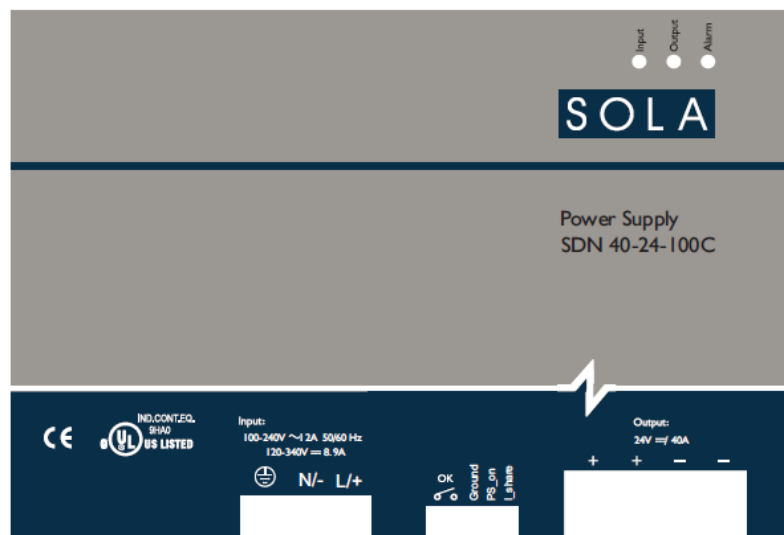
SOLA
 9377 W Higgins Rd Rosemont, IL 60018 USA
 SolaHD Technical Support: 1.800.377.4384 www.solahd.com

EMERSON

UL US LISTED IND. CONTEG. 9940
 Input: AC 100-240V 12A 50/60Hz
 DC 120-340V 8.9A

IECEx Class I, Zone 2, AEx nA nC IIC T4 Gc
 Class I, Zone 2, Ex nA nC IIC T4 U
 IIS G Ex ec nC IIC T4 Gc
 DEMKO 13ATEX 121557 3X
 Ex ec nC IIC T4 Gc
 IECEx UL 15.0015X
 № TC RU C-US.AA87.B.00710
 2Ex nA nC IIC T4 Gc X

CE **Ex** **IECEx** **Ex** **EAR** **MSIP-REM-N4C-SDN40**





IECEX Certificate of Conformity

Certificate No.: IECEX UL 15.0015X

Issue No.: 5

Page 3 of 3

