

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 15.0110X		Issue No: 4	Certificate history:
Status: Date of Issue:	Current 2018-06-28		Page 1 of 4	Issue No. 4 (2018-06-28) Issue No. 3 (2017-04-28) Issue No. 2 (2016-11-14) Issue No. 1 (2016-08-11)
Applicant:	Emerson 9377 W. Higgins Road Rosemont, IL 60018 United States of America			Issue No. 0 (2015-12-16)
Equipment:	Redundancy Power Supply Module, Models SD SDN 2X40RED, SDN 2X40REDX	N 2X10RED, SDN 2X10	REDX, SDN 2X20	RED, SDN 2X20REDX,
Optional accessory:				
Type of Protection:	Increased safety "ec", Sealed "nC"			
	x ec nC IIC T4 Gc 40°C ≤ Ta ≤ +70°C			
Approved for issue on L Certification Body:	behalf of the IECEx	Erin LaRocco		
Position:		Staff Engineer		
Signature: (for printed version)				
Date:	-			
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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:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-15 : 2010 Edition:4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
IEC 60079-7 : 2015 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/ExTR15.0126/04

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:

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.

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 IP 54 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: Update to new protection method "ec" and new suffixes for conformally coated model and option designations.

Issue 2: Addition of models SDN 2X10RED and SDN 2X10REDX.

Issue 3: Addition of models SDN 2X40RED and SDN 2X40REDX.

Issue 4: Revision to add alternate components, minor drawing updates and update to manufacturer address.

Annex:

Annex to IECEx UL 15.0110X Issue 4.pdf



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PARAMETERS RELATING TO THE SAFETY

Input: 12-28 VDC

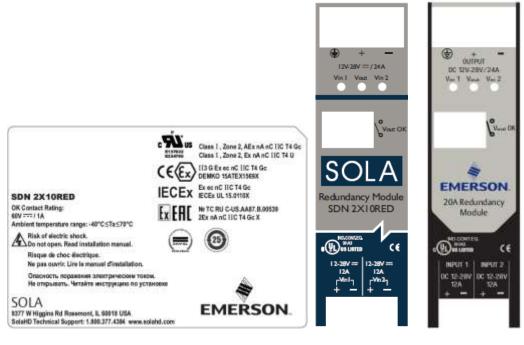
SDN 2X10RED, SDN 2X10REDX	SDN 2X20RED, SDN 2X20REDX	SDN 2X40RED, SDN 2X40REDX
18A x 2 or 36A x 1 at 40°C	26A x 2 or 52A x 1 at 40°C	45A x 2 or 90A x 1 at 40°C
16A x 2 or 32A x 1 at 50°C	25A x 2 or 50A x 1 at 50°C	42.5A x 2 or 85A x 1 at 50°C
14A x 2 or 28A x 1 at 60°C	24A x 2 or 48A x 1 at 60°C	40A x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

MARKING





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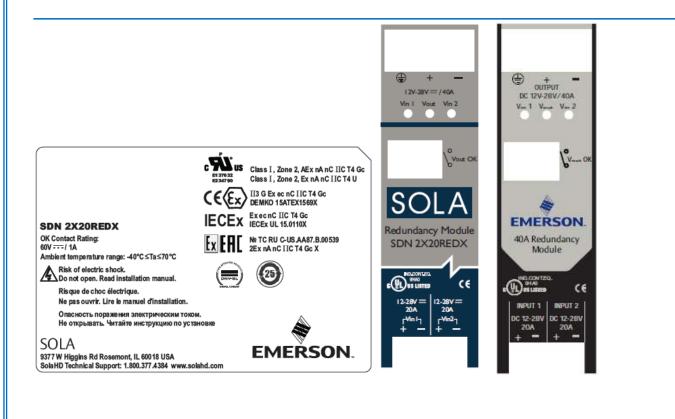


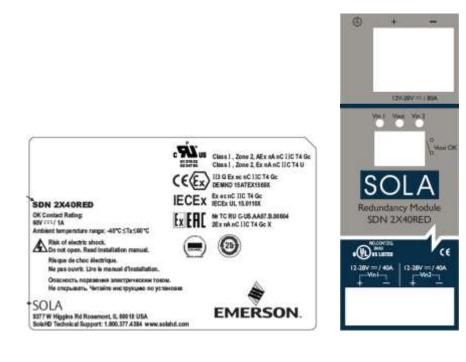


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INPUT 2

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