

To MARIE-CHRISTINE ALIAS  
Schneider Electric

From Svetlana Dimitrova

Pages 1

Date 20/02/2015

Your ref

Subject Renewal of Type Approval Certificate NSX TA 09/00032

Our ref

Dear Mme Alias,

We hereby confirm that Schneider Electric has applied for the renewal of the Type Approval Certificate NSX TA 09/00032.

The file is being currently examined by our Type Approval Experts in Hamburg LR office and the previous version is still valid.

Kind regards



Svetlana Dimitrova  
Marine Sales and Marketing Assistant  
Marine Training Coordinator

## Type Approval Certificate

*This is to certify that the undernoted products have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System 2002.*

This certificate is issued to:

**PRODUCER**

Schneider Electric Industries SAS,  
Power/LV-38EQI plant  
31 rue Pierre Mendes France-Eybens  
38050,  
Grenoble Cedex 9,  
France.

**PLACES OF  
PRODUCTION**

Schneider Electric Industries Polska Sp. z.o.o.  
ul. Mostowa 19  
32-332  
Bukowno  
Poland

Schneider Electric Industrie Italy s.p.a.  
Corso Italia, 115  
80020 Casavatore (Nappoli)  
Italy

Schneider (Beijing) Medium & Low Voltage Co. Ltd.  
No.2 Liang Shui He 2<sup>nd</sup> Street,  
Beijing Economic Technological Development Area  
Postal Code 100176  
P. R. China

**DESCRIPTION**

3 and 4 pole circuit breakers

**TYPE**

Compact NSX, rated 100A/160A/250A/400A/630A

**Certificate No.**

09/00032

**Issue Date**

20 January 2010

**Expiry Date**

19 January 2015

**Sheet**

1 of 3



R. M. Kelkar

London Design Support Services  
Lloyd's Register EMEA

Lloyd's Register EMEA  
71 Fenchurch Street, London EC3M 4BS

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**APPLICATION**

For use in environmental categories ENV1, ENV2 and ENV3 as defined in Lloyd's Register Type Approval System Test Specification No. 1: 2002.

**STANDARDS**

IEC 60947-1  
IEC 60947-2

**RATINGS**

**Circuit Breakers Compact NSX 100 to 630 A**

Type B	Rated Current (A) at 40° C	Rated Voltage (V)	Breaking Capacity Icu/Ics (kA)	Trip Unit
NSX 100/160/250	100/160/250	220/240	40/40	Thermal Magnetic or Micrologic 2.2-5.2-6.2
NSX 100/160/250	100/160/250	380/415	25/25	Thermal Magnetic or Micrologic 2.2-5.2-6.2
NSX 100/160/250	100/160/250	440	20/20	Thermal Magnetic or Micrologic 2.2-5.2-6.2
<b>F</b>				
NSX 100/160/250	100/160/250	220/240	85/85	Thermal Magnetic or Micrologic 2.2-5.2-6.2
NSX 100/160/250	100/160/250	380/415	36/36	Thermal Magnetic or Micrologic 2.2-5.2-6.2
NSX 100/160/250	100/160/250	440	35/35	Thermal Magnetic or Micrologic 2.2-5.2-6.2
NSX 400/630	400/630	220/240	40/40	Micrologic 1.3-2.3-5.3-6.3
NSX 400/630	400/630	380/415	36/36	Micrologic 1.3-2.3-5.3-6.3
NSX 400/630	400/630	440	30/30	Micrologic 1.3-2.3-5.3-6.3
NSX 400/630	400/630	500	25/25	Micrologic 1.3-2.3-5.3-6.3
NSX 400/630	400/630	525	20/10	Micrologic 1.3-2.3-5.3-6.3
NSX 400/630	400/630	660/690	10/10	Micrologic 1.3-2.3-5.3-6.3
<b>N</b>				
NSX 100/160/250	100/160/250	220/240	90/90	Thermal Magnetic or Micrologic 2.2-5.2-6.2
NSX 100/160/250	100/160/250	380/415	50/50	Thermal Magnetic or Micrologic 2.2-5.2-6.2
NSX 100/160/250	100/160/250	440	50/50	Thermal Magnetic or Micrologic 2.2-5.2-6.2
NSX 400/630	400/630	220/240	85/85	Micrologic 1.3-2.3-5.3-6.3
NSX 400/630	400/630	380/415	50/50	Micrologic 1.3-2.3-5.3-6.3
NSX 400/630	400/630	440	42/42	Micrologic 1.3-2.3-5.3-6.3
NSX 400/630	400/630	500	30/30	Micrologic 1.3-2.3-5.3-6.3
NSX 400/630	400/630	525	22/11	Micrologic 1.3-2.3-5.3-6.3
NSX 400/630	400/630	660/690	10/10	Micrologic 1.3-2.3-5.3-6.3

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R. M. Kelkar  
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# Lloyd's Register

H				
NSX 100/160/250	100/160/250	220/240	100/100	Thermal Magnetic or Micrologic 2.2-5.2-6.2
NSX 100/160/250	100/160/250	380/415	70/70	Thermal Magnetic or Micrologic 2.2-5.2-6.2
NSX 100/160/250	100/160/250	440	65/65	Thermal Magnetic or Micrologic 2.2-5.2-6.2
NSX 400/630	400/630	220/240	100/100	Micrologic 1.3-2.3-5.3-6.3
NSX 400/630	400/630	380/415	70/70	Micrologic 1.3-2.3-5.3-6.3
NSX 400/630	400/630	440	65/65	Micrologic 1.3-2.3-5.3-6.3
NSX 400/630	400/630	500	50/50	Micrologic 1.3-2.3-5.3-6.3
NSX 400/630	400/630	525	35/11	Micrologic 1.3-2.3-5.3-6.3
NSX 400/630	400/630	660/690	20/10	Micrologic 1.3-2.3-5.3-6.3
S				
NSX 100/160/250	100/160/250	220/240	120/120	Thermal Magnetic or Micrologic 2.2-5.2-6.2
NSX 100/160/250	100/160/250	380/415	100/100	Thermal Magnetic or Micrologic 2.2-5.2-6.2
NSX 100/160/250	100/160/250	440	90/90	Thermal Magnetic or Micrologic 2.2-5.2-6.2
L				
NSX 100/160/250	100/160/250	220/240	150/150	Thermal Magnetic or Micrologic 2.2-5.2-6.2
NSX 100/160/250	100/160/250	380/415	150/150	Thermal Magnetic or Micrologic 2.2-5.2-6.2
NSX 100/160/250	100/160/250	440	130/130	Thermal Magnetic or Micrologic 2.2-5.2-6.2

*"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."*

*The Design Appraisal Document No. 09/00032 and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

**Certificate No.** 09/00032  
**Issue Date** 20 January 2010  
**Expiry Date** 19 January 2015  
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**DESIGN APPRAISAL DOCUMENT**

Date 20 January 2010	Quote this reference on all future communications LDSS/ETS/W02053009/RMK/O-102965
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**LLOYD'S REGISTER TYPE APPROVAL SYSTEM, 2002.**

**Issued to: SCHNEIDER ELECTRIC INDUSTRIES SAS**  
**for: 3 AND 4 POLE CIRCUIT BREAKERS**  
**Type: COMPACT NSX 100/160/250/400/630**  
**TYPE APPROVAL CERTIFICATE No. 09/00032**

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System, 2002 and this Design Appraisal Document forms part of the Certificate.

**APPROVAL DOCUMENTATION**

Request form	17.02.2009
ASEFA attestation of tests no. 05b-08BT	22.10.2008
ASEFA attestation of tests no. 08-08BT	15.10.2008
ASEFA Certificate of conformity no. 015-08BT	22.04.2008
ASEFA Certificate of conformity no. 021-08BT	22.05.2008
ASEFA Certificate of conformity no. 025-08BT	22.05.2008
ASEFA Certificate of conformity no. 027-08BT	22.05.2008
ASEFA Certificate of conformity no. 030-08BT	22.05.2008
ASEFA Certificate of conformity no. 033-08BT	22.05.2008
ASEFA Certificate of conformity no. 036-08BT	22.05.2008
ASEFA Certificate of conformity no. 040-08BT	22.05.2008
ASEFA Certificate of conformity no. 041-08BT	22.05.2008
ASEFA Certificate of conformity no. 068b-08BT	21.10.2008
ASEFA Certificate of conformity no. 079a-08BT	04.09.2008
ASEFA Certificate of conformity no. 080a-08BT	04.09.2008
ASEFA Certificate of conformity no. 081a-08BT	04.09.2008
ASEFA Certificate of conformity no. 093a-08BT	04.09.2008
ASEFA Certificate of conformity no. 094a-08BT	04.09.2008
ASEFA Certificate of conformity no. 095a-08BT	04.09.2008
ASEFA Certificate of conformity no. 136-08BT	26.09.2008
ASEFA Certificate of conformity no. 139-08BT	26.09.2008
ASEFA Certificate of conformity no. 142-08BT	15.10.2008
Email from Schneider Electric	28.09.2009
Email from LR London Office	21.10.2009
Email from LR London Office	01.12.2009
Email from Schneider Electric	07.12.2009
Email from Schneider Electric	18.12.2009
AFAQ Certificate No. QUAL/2007/28842a	27.03.2008
AFAQ Certificate No. QUAL/1994/1917b	09.04.2008
TUV NORD certificate No. 08 100 04 3253	18.05.2007
Lloyd's Register Production Facility Inspection Report No. KAT 0900117	25.05.2009
Lloyd's Register Production Facility Inspection Report No. NAP 0910024	28.05.2009
Lloyd's Register Production Facility Inspection Report No. 02052979	10.06.2009

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### DESIGN APPRAISAL DOCUMENT

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#### DATA SHEETS

Schneider Catalogue 2008 of Compact NSX Circuit Breakers from 100 to 630 A

09.2008

#### TEST REPORTS

ASEFA Test Report no. 2007-0796-03	29.02.2008
ASEFA Test Report no. 2007-0796-04	29.02.2008
L2E Test Report no. F03-2007-0759-02	30.04.2008
L2E Test Report no. F03-2007-0759-03	30.04.2008
L2E Test Report no. F03-2007-0759-04A	18.06.2008
L2E Test Report no. F03-2007-0759-05	18.06.2008
L2E Test Report no. F03-2007-0856-02	29.04.2008
L2E Test Report no. F03-2007-0856-03	30.04.2008
L2E Test Report no. 2007-0796-03A	29.02.2008
L2E Test Report no. 2007-0796-04A	29.02.2008
BV LCIE Test Report no. 200710-4128C-R1-E	20.11.2007
BV LCIE Test Report no. 200710-4128C-R3-E	20.11.2007
L2E Test Report no. F03-200700075-V1-004	22.04.2008
L2E Test Report no. F03-200700075-V1-005	22.04.2008
L2E Test Report no. F03-200700075-V1-018	05.06.2008
L2E Test Report no. F03-200700075-V1-019V1	08.10.2008
L2E Test Report no. F03-200700075-V1-020V1	08.10.2008
L2E Test Report no. 2007-00075-014	13.06.2008
L2E Test Report no. 2007-00075-015	13.06.2008
BV LCIE Test Report no. 200802-4311C-A2-R1-E	19.03.2008
BV LCIE Test Report no. 200802-4311C-A2-R3-E	19.03.2008
L2E Test Report no. F01-2007-0428-00	03.04.2008
L2E Test Report no. F01-2007-0427-00	07.04.2008
L2E Test Report no. F01-2007-0427-01	26.02.2008
L2E Test Report no. F01-2007-0427-02	24.04.2008
L2E Test Report no. F01-2007-0425-00	24.04.2008
L2E Test Report no. F01-2007-0796-00	29.04.2008
L2E Test Report no. F03-2007-0982-01	29.04.2008
L2E Test Report no. F03-2007-0983-01	29.04.2008
L2E Test Report no. F03-2007-0984-01	29.04.2008
L2E Test Report no. 2007-0796-01A	29.02.2008
L2E Test Report no. 2007-0796-02A	29.02.2008
BV LCIE Test Report no. 200710-4128C-R2-E	20.11.2007
BV LCIE Test Report no. 200710-4128C-R4-E	20.11.2007
L2E Test Report no. F01-2007-00075-002	13.06.2008
L2E Test Report no. F01-2007-00075-003	04.08.2008
L2E Test Report no. F01-2007-00075-001	21.08.2008
L2E Test Report no. F03-200700075-V1-021V1	08.10.2008
L2E Test Report no. F03-200700075-V1-022V1	08.10.2008
L2E Test Report no. F01-200700075-V1-023	18.08.2008



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L2E Test Report no. 2007-00075-006	13.06.2008
L2E Test Report no. 2007-00075-007	13.06.2008
BV LCIE Test Report no. 200802-4311C-A2-R2-E	19.03.2008
BV LCIE Test Report no. 200802-4311C-A2-R4-E	19.03.2008

### Supplementary Type Approval Terms and Conditions

*Type Approval certifies that a representative sample of the products referred to herein have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.*

*Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.*

*Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.*

*Lloyd's Register EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the Lloyd's Register Type Approval System Procedure.*

R M Kelkar  
Senior Surveyor  
London Design Support Services  
Lloyd's Register EMEA

**Part 2  
Circuit Breakers (ENV Tested) (Part 2)**

Producer/ Licence No.	Type	Standard	Rating				Short Circuit	Category/ Additional Tests	Remarks	Cert. No.	
			Normal Current Amperes	A.C. 50/60							D.C.
				Voltage	Power Factor	Voltage					
Schneider Electric Industries SAS, Power / LV-38EQI plant, 31 rue Pierre Mendes France- Eybens, 38050, Grenoble Cedex 9, France.	3 and 4 pole Circuit Breakers	IEC 60947-1 IEC 60947-2	Rated at 40°C				Breaking Capacity ICU / ICS (kA)	For use in environmental categories ENV 1 ENV 2 ENV 3 (2002)	Expires: 19 January 2015	09/00032	
	Type A:	100 / 160 / 250	220 / 240			40 / 40					
	Type B:	100 / 160 / 250	380 / 415			25 / 25					
	Type C:	100 / 160 / 250	440			20 / 20					
	Type D:	100 / 160 / 250	220 / 240			85 / 85					
	Type E:	100 / 160 / 250	380 / 415			36 / 36					
	Type F:	100 / 160 / 250	440			35 / 35					
	Type G:	400 / 630	220 / 240			40 / 40					
	Type H:	400 / 630	380 / 415			36 / 36					
	Type I:	400 / 630	440			30 / 30					
	Type J:	400 / 630	500			25 / 25					
	Type K:	400 / 630	525			20 / 10					
	Type L:	400 / 630	660 / 690			10 / 10					
	Type M:	400 / 630	660 / 690			10 / 10					

*R. Paulsen*



**Part 2  
Circuit Breakers (ENV Tested) (Part 2)**

Producer/ Licence No.	Type	Standard	Rating				Short Circuit	Category/ Additional Tests	Remarks	Cert. No.
			A.C. 50/60		D.C.					
			Normal Current Amperes	Voltage	Power Factor	Voltage				
	Type N: NSX 100/160/250		100 / 160 / 250	220 / 240			90 / 90			
	NSX 100/160/250		100 / 160 / 250	380 / 415			50 / 50			
	NSX 100/160/250		100 / 160 / 250	440			50 / 50			
	NSX 400/630		400/630	220 / 240			85 / 85			
	NSX 400/630		400/630	380 / 415			50 / 50			
	NSX 400/630		400/630	440			42 / 42			
	NSX 400/630		400/630	500			30 / 30			
	NSX 400/630		400/630	525			22 / 11			
	NSX 400/630		400/630	660 / 690			10 / 10			
	Type H: NSX 100/160/250		100 / 160 / 250	220 / 240			100 / 100			
	NSX 100/160/250		100 / 160 / 250	380 / 415			70 / 70			
	NSX 100/160/250		100 / 160 / 250	440			65 / 65			
	NSX 400/630		400 / 630	220 / 240			100 / 100			
	NSX 400/630		400 / 630	380 / 415			70 / 70			
NSX 400/630	400 / 630	440			65 / 65					
NSX 400/630	400 / 630	500			50 / 50					
NSX 400/630	400 / 630	525			35 / 11					

*F. Kutter*

**Part 2  
Circuit Breakers (ENV Tested) (Part 2)**

Producer/ Licence No.	Type	Standard	Rating						Short Circuit	Category/ Additional Tests	Remarks	Cert. No.
			A.C. 50/60		Power Factor	D.C.						
			Normal Current Amperes	Voltage		Voltage	Time Constant Seconds					
	Type H (cont.): NSX 400/630		400/630	660/690					20/10			
	Type S: NSX 100/160/250		100 / 160 / 250	220 / 240					120 / 120			
	NSX 100/160/250		100 / 160 / 250	380 / 415					100 / 100			
	NSX 100/160/250		100 / 160 / 250	440					90 / 90			
	Type L: NSX 100/160/250		100 / 160 / 250	220 / 240					150 / 150			
	NSX 100/160/250		100 / 160 / 250	380 / 415					150 / 150			
	NSX 100/160/250		100 / 160 / 250	440					130 / 130		E-Kalken	