

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Electrical Equipment**

with type designation(s)
800SA and 900SA,

Issued to

NEXANS network solutions NV
Halle, Belgium

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft

Application :

Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.

Temperature
Humidity
Vibration

Issued at **Høvik** on **2019-04-08**

for **DNV GL**

This Certificate is valid until **2022-12-21**.

DNV GL local station: **Antwerp**

Approval Engineer: **Nicolay Horn**

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Trond Sjøvåg
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Product description

Medium Voltage Outdoor / Indoor surge arrester for 10 (12) kV, 15 (17.5) kV, 20 (24) kV, 30 (36) kV 36 (42) kV, 45 kV & 51kV. Types: 800SA and 900SA.

800SA Interface C Surge Arrester

Surge arrester type	Nominal discharge current In (kA)	Rated voltage Ur(kV)	Max. cont.operating voltage Uc(kV)	Dimensions (mm)	
				min	max
800SA-10-6N	10	6	4.8	270	310
800SA-10-9N	10	9	7.2	270	310
800SA-10-12N	10	12	9.6	270	310
800SA-10-15N	10	15	12.0	270	310
800SA-10-18N	10	18	14.4	270	310
800SA-10-22N	10	22	17.6	270	310
800SA-10-24N	10	24	19.2	370	410
800SA-10-30N	10	30	24.0	370	410
800SA-10-33N	10	33	26.4	370	410
800SA-10-36N	10	36	28.8	370	410
800SA-10-45N	10	45	36.0	470	510
800SA-10-51N	10	51	40.8	470	510

900SA-CD Interface F Surge Arrester

Surge arrester type	Nominal discharge current In (kA)	Rated voltage Ur(kV)	Max. cont. operating voltage Uc(kV)	I _{sc} Rated short-circuit current (kA, 0.2s)
900SA-10-74-CD20	10	74	59.2	20
900SA-10-10-74-D31.5	10	74	59.2	31.5

Application/Limitation

Installation has to be done in accordance with the installation instructions.
 Use in net with voltages above 15 (17.5) kV to be accepted case by case.

Type Approval documentation

Technical info:

"800SA SURGE ARRESTER FOR 480TB, 484TB, 489TB, 800PB, 804PB and 809PB CONNECTOR" and 900SA-CD Interface F Surge arrester",datasheets from Nexans.

Test reports:

800SA:CESI test reports nos. B8019069 dated 2018-10-29, A8033876 dated 2009-02-12, A9015078 dated 2009-05-22, B8019037 dated 2018-10-05, B5026525 dated 2016-04-04, B8019035 dated 2018-10-05, B8020552 dated 2018-11-05, B0035443 dated 2013-11-12 and B8019036 dated 2009-10-16.
 900SA: CESI test reports nos. B5022909 dated 2016-04-04, B5007594 dated 2015-05-11, B5022910 dated 2016-04-04, B5022725 dated 2016-04-04, B5017853 dated 2015-10-05, B8019468 dated 2018-10-29, B5007609 dated 2015-05-11, B8021835 dated 2018-10-30 and VEIKI-VNL test raport no. 8229/vNL dated 2014-11-11.

Tests carried out

Tested according to IEC 60099-4 Ed. 3 (06/2014).

Job Id: **262.1-026315-1**
Certificate No: **TAE00003EB**

Marking of product

Nexans – Factory Identification – Product Description– Voltage class.

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine Tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE