

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Pilot Device

with type designation(s)
C

Issued to

ABB Xinhui Low Voltage Switchgear Co., Ltd.
Jiangmen City, China

is found to comply with

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

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Issued at **Hamburg** on **2017-07-26**

for **DNV GL**

This Certificate is valid until **2022-07-25**.

DNV GL local station: **China South NB**

Approval Engineer: **Harald Amberger**

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Duy Nam Le
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.



Job Id: **262.1-015559-3**
Certificate No: **TAE00000W4**
Revision No: **1**

Product description

Type: Pilot devices with type name "C".

Various contact combinations and colours enlisted in the manufacturer's catalogues 1SFC151004C0201 of June 2012 and 1SFC151005C0201 of May 2015.

1. Push Button

Type CP*

2. Emergency Stop

Type CE3*-*: ∅ 30 mm (twist-, pull- and key release)

Type CE4*-*: ∅ 40 mm (twist-, pull- and key release)

3. Selector Switch

Type C2SS*: Two position selector switch

Type C3SS*: Three position selector switch

4. Pilot Light

Type CL*-*

5. Buzzer

Type CB*

6. Enclosure

Type CEP*

Application/Limitation

The Pilot devices may be used together with matched additional equipment enlisted in the catalogue 1SFC151004C0201 of June 2012 and 1SFC151005C0201 of May 2015. The type approval cover only the equipment listed above with applicable accessories as shown in the below listed test reports.

Type Approval documentation

Catalogue 1SFC151005C0201 of May 2015 ("Pilot devices – The complete offering")

CB Test Certificate SE-65085	Type CP*, Push Button
CB Test Certificate SE-69926	Type CP*, Push Button
CB Test Certificate SE-57578	Type CE***-10R, Emergency Stop
CB Test Certificate SE-30700M2	Type C*SS*, Selector Switch
CB Test Certificate CN32701-A1	Type CL-2*, Pilot lamp
CB Test Certificate SE-41613M1	Type CL-100*, Pilot Light
CB Test Certificate SE-70129	Type CL-5***, Pilot Light
CB Test Certificate SE-67238	Type CB-*, Buzzer
Test report 1018370-1	Type CP*, Push Button
Test report 1214868-1	Type CP6, Push Button
Test report 901457-1	Type CE***-10R, Emergency Stop
Test report 203516	Type C*SS*, Selector Switch
Test report 507903	Type C*SS*, Selector Switch
Test report 518215-1	Type C*SS*, Selector Switch

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Test report 00901-CB2014CQC-062495	Type CL-2*, Pilot Light
Test report 507912	Type CL-100*, Pilot Light
Test report 518217-1	Type CL-100*, Pilot Light
Test report 1214441-1	Type CL-5***, Pilot Light
Test report 1116921-1	Type CB-*, Buzzer
Test report 609131	Type CEP* Enclosure
Statement of Test Results (808309-1)	Type CP, Push Button
Statement of Test Results (808309-2)	Type CP, Push Button
Statement of Test Results (711478)	Type CP, Push Button
Statement of Test Results (1223826)	Type CP, Push Button
Statement of Test Results (705609-4)	Type C*SS*, Selector Switch
Statement of Test Results (808309-3)	Type C*SS*, Selector Switch
Statement of Test Results (705609-2)	Type CE3T, Emergency Stop
Statement of Test Results (707040-2)	Type CE3T, Emergency Stop
Statement of Test Results (705609-3)	Type CE3K, Emergency Stop
Statement of Test Results (707040-3)	Type CE3K, Emergency Stop
Statement of Test Results (705609-5)	Type CL, Pilot Light
Statement of Test Results (707040-5)	Type CL, Pilot Light

Tests carried out

Type tests in accordance with IEC 60947-5-1 Ed.4, IEC 60947-5-5 Ed.1.2, for emergency stop
IP tests in accordance with IEC 60529.

Marking of product

Manufacturers name and Type designation.

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