

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Pilot Device**

with type designation(s)
C

Issued to

ABB AB, Control Products
VÄSTERÅS, Sweden

is found to comply with
DNV GL rules for classification – Ships and offshore units

Application :

Rated Insulation Voltage: 600 / 690V
Rated voltage/ current: AC-15:240V/1A,
DC-13:125V/0.2A,
Degree of protection: IP66, IP67, IP69K

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

This Certificate is valid until **2017-06-30**.

Issued at **Høvik** on **2016-01-27**

DNV GL local station: **Stockholm**

Approval Engineer: **Nicolay Horn**

for **DNV GL**

Marit Laumann
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.

Name and place of manufacturer

ABB Xinhui Low Voltage Switchgear Co. Ltd
Xinhui, China

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*-*: Ø 30 mm (twist-, pull- and key release)

Type CE4*-*: Ø 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

Tests carried out

Type tests in accordance with IEC 60947-5-1(2003-11) or IEC 60947-5-1(2009-07), IEC 60947-5-5(2005-04) for emergency stop, IP tests in accordance with IEC 60529 and DIN 40050 part 9.

Marking of product

Manufacturers name and Type designation.

Job Id: **262.1-015559-2**
Certificate No: **TAE00000W4**

Periodical Assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type approval is complied with and that no alterations are made to the product design or choice of materials. The main elements of the survey to be dealt with:

- Ensure that type approved documentation is available.
- Ensure that materials used comply with type approved documents and/or referenced material specifications.
- Review design, materials, performance and production process with respect to possible changes, in order to ensure compliance with the type approved documentation and/or referenced material specifications.
- Ensure traceability between manufacturer's product marking and the DNV Type Approval Certificate.

Assessment to be performed at least every second year.

END OF CERTIFICATE