



1. EU-TYPE EXAMINATION CERTIFICATE

2. Equipment or Protective System Intended for use in potentially explosive atmospheres

Directive 2014/34/EU

3. Reference: VTT 12 ATEX 053X Issue 3

4. Equipment: Safe Disconnection Function for converter drive

Certified types: ACS880/ACS880LC +Q971

ACS880/ACS880LC +Q971 +Q973 (FSO-12) ACS880/ACS880LC +Q971 +Q972 (FSO-21) ACS880/ACS880LC +Q971 +Q972 +L521 (FSO-21

& FSE-31)

5. Applicant: ABB Oy Drives

Hiomotie 13

FIN-00381 Helsinki

Finland

6. Manufacturers: ABB Oy Drives

Hiomotie 13

FIN-00381 Helsinki

Finland

ABB AS/LV Drives Aruküla tee 59

Rae vald

75301 Harjumaa

Estonia

ABB Oy Drives Drives Service Kiitoradantie 14 FI-01530 Vantaa

Finland







- 7. This equipment or protective system and any acceptable variations thereto are specified in the schedule and possible supplement(s) to this Certificate and the documents therein referred to.
- 8. VTT Expert Services Ltd, notified body number 0537, in accordance with Article 21 of the Directive 2014/34/EU of February 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective system intended for use in potentially explosive atmospheres given in Annex II to the Directive.
- 9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50495 (2010)

- 10. If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- 11. This EU-Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.
- 12. The marking of the equipment or protective system shall include the following:



II (2) GD

Espoo, 30.6.2017

VTT Expert Services Ltd

Kari Koskela

Expert

Risto Sulonen

Product Manager



13. Schedule

14. EC-TYPE EXAMINATION CERTIFICATE VTT 12 ATEX 053X Issue 3

15. Description

Thermal protection is based on ATEX-compliant protection relay. The relay monitors a sensor circuit, and activates the SIL 3 certified "Safe Torque Off" (STO)-function which is integrated in the standard drive as an internal hardware-solution. Power that can cause rotation is not applied to the motor. The safety related part of the adjustable speed electrical power drive system PDS (SR) will not provide energy to the motor which can generate torque.

16. Documents

FSO-xx+ACS880 Safety data in ATEX-Certified Safe Disconnection Function, doc 3AXD10000113948, rev E

Certificate No. SEBS-A.093457/16 V1.0 by TüV Nord Certificate No. SEBS-A.161334/16 V 1.0 by TüV Nord Certificate No. SEBS-A.102621/15 V1.0 by TüV Nord

17. Special conditions for safe use

The drive themselves are to be installed outside potentially explosive atmospheres (article 1, section 2 of the Directive). All manufacturer's instructions shall be followed.

18. Essential Health and Safety Requirements

Assessment using standard referred in point 9 have confirmed compliance with the Directive 2014/34/EU, Annex II and particular point 1.5.

Certificate history

Issue	Date	Comment
7.6 1	3.5.2013	Prime certificate
1	15.10.2014	Adding safety functions module FSO-12 and deleting two type designations covered by another certificate.
2	1.3.2016	The introduction of new manufacturing places and a new safety functions module FSO-21
3	30.6.2017	The introduction of a new converter type and deleting one manufacturing place. Updating the certificate according to the new directive.

Espoo, 30.6.2017

VTT Expert Services Ltd

Kari Koskela

Expert

Risto Sulonen

Product Manager