



1. EU-TYPE EXAMINATION CERTIFICATE

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

Directive 2014/34/EU

3. Reference: VTT 15 ATEX 051 Issue 2

4. Equipment: Thermal motor protection system for converter

drive ACS580, ACH580 and ACQ580 series

Certified types: ACS580 +L537 +Q971 (CPTC-02)

ACH580 +L537 +Q971 (CPTC-02) ACQ580 +L537 +Q971 (CPTC-02)

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.
- 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. EU-TYPE EXAMINATION CERTIFICATE VTT 15 ATEX 051 Issue 2

15. Description

Thermal protection is based on temperature monitoring CPTC-02 module. Safe disconnection is achieved by using "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. CPTC-02 together with the STO-function comprises the "Safe Motor Temperature" (SMT)-function.

16. Documents

FPTC-01/-02, CPTC-02 SMT HW description, 3AXD10000387390, rev B FPTC-01/-02, CPTC-02 Integrated PTC temperature protection module CONCEPT, 3AXD10000381242, rev B

ACx580 ATEX schedule drawings with CPTC temperature monitoring, 3AXD10000510416 rev B (4 pages)

CPTC-02 Safety data calculation for ACS580/ACH580/ACQ580, 3AXD10000473876, rev B

Certificate No.SEBS-A.082710/15 V.1.0 by TüV Nord Certificate No. SEBS-A.1012331/16 V1.0 by TüV Nord Certificate No. SEBS-A.1012332/16 V1.0 by TüV Nord Certificate No. SEBS-A.1012333/16 V1.0 by TüV Nord

- 17. Special conditions for safe use None
- 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
-	8.6.2016	Prime certificate
1	8.7.2016	The introduction of new converter series type ACQ580
2	30.6.2017	Updating of schedule drawings and other documents

Espoo, 30.6.2017

VTT Expert Services Ltd

Kari Koskela

Expert

Risto Sulonen Product Manager