

1. EU-TYPE EXAMINATION CERTIFICATE

2. **Equipment or Protective System Intended for use in Potentially explosive atmospheres
Directive 2014/34/EU**

3. EU-Type Examination Certificate Number: **EESF 20 ATEX 051 Issue 1**

4. Product: **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. Manufacturer: **ABB Oy Drives**

6. Address: **Hiomotie 13, 00380 Helsinki, Finland**

Additional manufacturing locations:

ABB AS, Drives, Aruküla tee 59, Rae vald, 75301 Harjumaa, Estonia

7. This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8. Eurofins Electric & Electronics Finland Oy, Notified Body number 0537, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report No. EUFI29-23003104-T1.

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 product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

11. This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12. The marking of the product shall include the following:



Espoo, 20.12.2023
Eurofins Electric & Electronics Finland Oy

Kari Koskela
Senior Expert

Jenni Hirvelä
Senior Expert

This document is digitally signed.

13. **Schedule**

 14. **EU-Type Examination Certificate EESF 20 ATEX 051 Issue 1**

 15. **Description of Product**

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. **Report Number**

EUF129-23003104-T1

 17. **Specific Conditions of 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.

 19. **Drawings and Documents**

FPTC-01/-02, CPTC-02 SMT HW description, 3AXD10000387390, rev D
 FPTC-01/-02, CPTC-02 Integrated PTC temperature protection module CONCEPT, 3AXD10000381242, rev D
 ACx580 ATEX schedule drawings with CPTC temperature monitoring, 3AXD10000510416 rev B (4 pages)
 CPTC-02 Safety data calculation for ACS580/ACH580/ACQ580, 3AXD10000473876, rev J
 Certificate No. SEBS-A.082710/15 V.2.0 by TÜV Nord
 Certificate No. SEBS-A.1012331/16 V2.0 by TÜV Nord (ACS580 STO)
 Certificate No. SEBS-A.1012332/16 V2.0 by TÜV Nord (ACH580 STO)
 Certificate No. SEBS-A.1012333/16 V2.0 by TÜV Nord (ACQ580 STO)

 20. **Certificate History**

Issue	Date	Change
VTT 15 ATEX 051	8.6.2016	Prime certificate
VTT 15 ATEX 051 Issue 1	8.7.2016	The introduction of new converter series type ACQ580
VTT 15 ATEX 051 Issue 2	30.6.2017	Updating of schedule drawings and other documents
EESF 20 ATEX 051	02.06.2021	Updates to documents, improvements to CPTC-module thermistor input and small design changes. Update of the CPTC module TÜV Nord certificate.
EESF 20 ATEX 051 Issue 1	20.12.2023	Update to the safety data calculation. STO certificates by TÜV Nord has been renewed.