



1. **EC-TYPE EXAMINATION CERTIFICATE**
2. **Equipment or Protective System Intended for use in  
Potentially explosive atmospheres  
Directive 94/9/EC**
3. Reference: **VTT 10 ATEX 028 Issue 3**
4. Equipment: **Thermal motor protection system for converter  
drive ACS800 series**  
  
Certified types: **ACS800 + L513 + Q971  
ACS800 + L514 + Q971  
ACS800LC + L513 + Q971  
ACS800LC + L514 + Q971**
5. Applicant: **ABB Oy Drives  
Hiomotie 13  
FIN-00381 Helsinki  
Finland**
6. Manufacturers: **ABB Oy Drives  
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Petaling Jaya, Selangor Darul Ehsan,  
Malaysia**



**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 9 of the Council Directive 94/9/EC of March 1994, 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 EC-Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. 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, 1.3.2016

**VTT Expert Services Ltd**



Kari Koskela  
Expert



Risto Sulonen  
Product Manager

13. **Schedule**

14. **EC-TYPE EXAMINATION CERTIFICATE VTT 10 ATEX 028 Issue 3**

15. Description

Thermal protection is based on PTC- relay (type L513) or Pt100-relay (type L514). 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.

16. Documents

Technical file: ATEX Jan 2016.zip (dated 4.1.2016)  
ACS800 and ACS800LC ATEX certified motor thermal protection functions and safety data calculations, 3AXD10000007537, rev B  
Certificate No. SEBS-A.160353/14 V.1.0 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 94/9/EC, Annex II and particular point 1.5.

Certificate history

Issue	Date	Comment
0	4.10.2010	Prime certificate
1	13.4.2011	The introduction of the new manufacturing site. Minor changes in circuit diagrams
2	29.2.2012	Changes in circuit diagrams (doc. Nos: 3AUA0000084197 rev D and 3AUA0000084928 rev B)
3	1.3.2016	The introduction of new manufacturing places and a new PTC-relay

Espoo, 1.3.2016  
**VTT Expert Services Ltd**



Kari Koskela  
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Risto Sulonen  
Product Manager