

EU-TYPE EXAMINATION CERTIFICATE

- 1.
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 048X Issue 1**
4. Product: **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. 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. EUFI29-23003044-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:

**II (2) GD**

Espoo, 20.12.2023

Eurofins Electric & Electronics Finland OyKari Koskela
Senior ExpertJenni Hirvelä
Senior Expert

This document is digitally signed.



13. **Schedule**

14. **EU-Type Examination Certificate EESF 20 ATEX 048X Issue 1**

15. **Description of Product**

Thermal protection consists of the Safe Torque Off (STO) function which is subject to this certification, and an ATEX-compliant protection relay which shall be acquired by system builder. 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. **Report Number**

EUFI29-23003044-T1

17. **Specific Conditions of Use**

An ATEX-compliant protection relay shall be acquired, and it shall be installed according to manufacturer's instructions.

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**

FSO-xx+ACS880 Safety data in ATEX-Certified Safe Disconnection Function, 3AXD10000113948, rev H
Certificate No. SEBS-A.093457/16 V2.0 by TÜV Nord
Certificate No. 1435.IM.153902/19 V1.0 by TÜV Nord

20. **Certificate History**

Issue	Date	Change
VTT 12 ATEX 053X	3.5.2013	Prime certificate
VTT 12 ATEX 053X Issue 1	15.10.2014	Adding safety functions module FSO-12 and deleting two type designations covered by another certificate.
VTT 12 ATEX 053X Issue 2	1.3.2016	The introduction of new manufacturing places and a new safety functions module FSO-21
VTT 12 ATEX 053X Issue 3	30.6.2017	The introduction of a new converter type and deleting one manufacturing place. Updating the certificate according to the new directive.
EESF 20 ATEX 048X	30.10.2020	Updates to safety data document, FSO-12 and FSO-21 TÜV Nord certificates have been combined into one certificate, one manufacturing location has been removed.
EESF 20 ATEX 048X Issue 1	20.12.2023	Update to the safety data calculation. STO certificate by TÜV Nord has been renewed.