

Certificate

No. SEBS-A.155036/15 V1.1

TÜV NORD Systems GmbH & Co. KG hereby certifies

ABB Beijing Drive Systems Co., Ltd
No.1, Block D, A-10 Jiuxianqiao Beilu
Chaoyang District, Beijing, P.R.China, 100015

that the safety function "Safe Torque Off" (STO) in the drive system

MicroFlex e190

meets the requirements listed in the following standards

- IEC 61508 part 1: 2010; part 2: 2010; SIL 3
- ISO 13849 part 1: 2015; part 2: 2012; PL e
- IEC 62061:2005 + A1: 2012 + A2: 2015 + CSV/COR1:2015; SIL_{CL} 3
- IEC 61800-5-2: 2016

Certification program Leittechnik (SEB-ZE-SEECERT-VA-320-20, Rev. 5.1 / 04.19)

Base of certification is the report
SEBS-A.155036/15TB and the tracking list
in the valid version.

This certificate entitles the holder to use
the pictured safety approved mark.

Expiry date: 2025-11-18
Reference No.: 8118096364

Hamburg, 2020-11-18




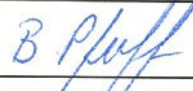
Bianca Pfuff



Tracking-list Revision 1.0 for released versions of the certified MicroFlex e190 drives

Certification No. SEBS-A.155036/15, V 1.1

Type Code MFE190-04XX-	Assessment Report from TÜV NORD	ID	Certification Status	Date of certification	Expiry Date
09A0-2	SEBS-A.155036/15TB V3.0	8118096364	valid	2020-11-18	2025-11-18
06A0-2	SEBS-A.155036/15TB V3.0	8118096364	valid	2020-11-18	2025-11-18
03A0-2	SEBS-A.155036/15TB V3.0	8118096364	valid	2020-11-18	2025-11-18

	Release ABB:	Release Assessor:	Release Certification Body:
Signature:			
Date:		2020-11-18	2020-11-18