DAkkS
Deutsche
Akkreditierungsstelle
D-ZE-11074-01-00

Certificate

No. SEBS-A.1012332/16, V2.0

TÜV NORD Systems GmbH & Co. KG hereby certifies to

ABB Oy
Himotie 13
00381 Helsinki
Finland

that the safety function Safe Torque Off (STO) within the ABB drive series for HVAC

ACH580

meet the requirements listed in the following standards

- **IEC 61508 part 1:2010; part 2:2010; capable up to SIL 3**
- **ISO 13849-1:2015, ISO 13849-2:2012; capable up to PL e (category 3)**
- **IEC 61800-5-2:2016; capable up to SIL 3**
- **IEC 62061: 2021; capable up to SIL 3**

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

The drive series can also be used in safety applications up to SIL 3 according to IEC61511

Basis of the certification are the report SEBS-A.101233/16TB and the tracking list in the valid version.

This certificate entitles the usage of the adjacent conformity mark.

Valid until: 2027-08-01
Reference: 8114136074

Hamburg, 2022-08-01

B. Pfuff

Bianca Pfuff

Voluntary Certification
TÜV NORD
TÜV NORD Systems GmbH & Co. KG
Safety Approved
ACH580
STO
IEC 61508:2010 SIL3
IEC 61800-5-2:2016 SIL3
IEC 620161:2021 SIL3
ISO 13849-1:2015 PLe
ISO 13849-2:2012
SEBS-A.1012332/16

Certification Body SEECERT
TÜV NORD Systems GmbH & Co. KG
Große Bahnstraße 31, 22525 Hamburg, Germany

Tracking-list Revision 12.0 for released versions of the certified ACH580 drives

Certification No. SEBS-A.1012332/16, V 2.0

Type Code ACH580-01-	Frame -Size	Assessment Report from TÜV NORD	ID	Certification Status	Date of certification	Expiry Date
02A6-4, 03A3-4, 04A0-4, 05A6-4	R0	SEBS-A.101233/16TB V15.0	8114136074	valid	2024-03-11	2027-08-01
04A7-2, 04A6-2, 06A7-2, 06A6-2, 07A6-2, 07A5-2, 012A-2, 10A6-2, 018A-2, 017A-2, 02A1-4, 02A7-4, 03A0-4, 03A4-4, 03A5-4, 04A1-4, 04A8-4, 05A7-4, 07A2-4, 06A0-4, 07A3-4, 09A4-4, 07A6-4, 09A5-4, 12A6-4, 012A-4, 12A7-4	R1	SEBS-A.101233/16TB V15.0	8114136074	valid	2024-03-11	2027-08-01
025A-2, 024A-2, 032A-2, 031A-2, 017A-4, 014A-4, 018A-4, 025A-4, 023-A4, 026-A4, 02A7-6, 03A9-6, 06A1-6, 09A0-6, 011A-6, 017A-6	R2	SEBS-A.101233/16TB V15.0	8114136074	valid	2024-03-11	2027-08-01
047A-2, 046A-2, 060A-2, 059A-2, 032A-4, 027A-4, 033A-4, 038A-4, 034A-4, 039A-4 045A-4, 044A-4, 046A-4, 022A-6, 027A-6, 032A-6	R3	SEBS-A.101233/16TB V15.0	8114136074	valid	2024-03-11	2027-08-01
075A-2, 076A-2, 090A-2, 091A-2, 052A-4, 062A-4, 065A-4, 073A-4, 077A-4, 089A-4,	R4	SEBS-A.101233/16TB V15.0	8114136074	valid	2024-03-11	2027-08-01

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Tracking-list Revision 12.0 for released versions of the certified ACH580 drives

Certification No. SEBS-A.1012332/16, V 2.0

Type Code ACH580-01-	Frame -Size	Assessment Report from TÜV NORD	ID	Certification Status	Date of certification	Expiry Date
089A-2, 088A-2, 115A-2, 114A-2, 088A-4, 106A-4, 061A-4, 072A-4, 087A-4, 041A-6, 052A-6, 062A-6, 077A-6, 078A-4, 096A-4	R5	SEBS-A.101233/16TB V15.0	8114136074	valid	2024-03-11	2027-08-01
144A-2, 143A-2, 105A-4, 145A-4, 124A-4	R6	SEBS-A.101233/16TB V15.0	8114136074	valid	2024-03-11	2027-08-01
171A-2, 169A-2, 213A-2, 211A-2, 169A-4, 206A-4, 099A-6, 125A-6, 156A-4, 180A-4	R7	SEBS-A.101233/16TB V15.0	8114136074	valid	2024-03-11	2027-08-01
276A-2, 273A-2, 246A-4, 293A-4, 144A-6, 240A-4, 260A-4	R8	SEBS-A.101233/16TB V15.0	8114136074	valid	2024-03-11	2027-08-01
343A-2, 396A-2, 363A-4, 430A-4, 192A-6, 242A-6, 271A-6, 302A-4, 361A-4, 414A-4	R9	SEBS-A.101233/16TB V15.0	8114136074	valid	2024-03-11	2027-08-01

Type Code ACH580-04-	Frame -Size	Assessment Report from TÜV NORD	ID	Certification Status	Date of certification	Expiry Date
505A-4, 585A-4, 650A-4	R10	SEBS-A.101233/16TB V15.0	8114136074	valid	2024-03-11	2027-08-01
725A-4, 820A-4, 880A-4	R11	SEBS-A.101233/16TB V15.0	8114136074	valid	2024-03-11	2027-08-01

Tracking-list Revision 12.0 for released versions of the certified ACH580 drives

Certification No. SEBS-A.1012332/16, V 2.0

Type Code ACH580-34-	Frame -Size	Assessment Report from TÜV NORD	ID	Certification Status	Date of certification	Expiry Date
240A-4, 246A-4, 293A-4, 302A-4, 361A-4, 365A-4, 414A-4, 442A-4, 477A-4, 505A-4, 585A-4, 650A-4	R11	SEBS-A.101233/16TB V15.0	8114136074	valid	2024-03-11	2027-08-01

Type Code ACH580-07-	Frame -Size	Assessment Report from TÜV NORD	ID	Certification Status	Date of certification	Expiry Date
052A-4, 062A-4, 065A-4, 073A-4, 077A-4, 089A-4	R4	SEBS-A.101233/16TB V15.0	8114136074	valid	2024-03-11	2027-08-01
096A-4, 0106A-4	R5	SEBS-A.101233/16TB V15.0	8114136074	valid	2024-03-11	2027-08-01
124A-4, 0145A-4	R6	SEBS-A.101233/16TB V15.0	8114136074	valid	2024-03-11	2027-08-01
0156A-4, 0169A-4, 0180A-4, 0206A-4	R7	SEBS-A.101233/16TB V15.0	8114136074	valid	2024-03-11	2027-08-01
0240A-4, 0246A-4, 0260A-4, 0293A-4	R8	SEBS-A.101233/16TB V15.0	8114136074	valid	2024-03-11	2027-08-01
0361A-4, 0363A-4, 0414A-4, 0430A-4	R9	SEBS-A.101233/16TB V15.0	8114136074	valid	2024-03-11	2027-08-01
0483A-4, 0505A-4, 0573A-4, 0585A-4, 0623A-4, 0650A-4	R10	SEBS-A.101233/16TB V15.0	8114136074	valid	2024-03-11	2027-08-01
0705A-4, 0725A-4, 0807A-4, 0820A-4, 0880A-4	R11	SEBS-A.101233/16TB V15.0	8114136074	valid	2024-03-11	2027-08-01

Tracking-list Revision 12.0 for released versions of the certified ACH580 drives

Certification No. SEBS-A.1012332/16, V 2.0

Type Code ACH580-31-	Frame -Size	Assessment Report from TÜV NORD	ID	Certification Status	Date of certification	Expiry Date
017A-2, 024A-2, 09A5-4, 12A7-4, 07A6-4, 012A-4, 018A-4, 026A-4, 014A-4, 023A-4	R3	SEBS-A.101233/16TB V15.0	8114136074	valid	2024-03-11	2027-08-01
031A-2, 046A-2, 059A-2, 075A-2, 088A-2, 033A-4, 039A-4, 046A-4, 027A-4, 034A-4, 044A-4, 062A-4, 073A-4, 088A-4, 052A-4, 065A-4, 077A-4	R6	SEBS-A.101233/16TB V15.0	8114136074	valid	2024-03-11	2027-08-01
114A-2, 143A-2 169A-2, 211A-2, 096A-4, 106A-4, 124A-4, 145A-4, 156A-4, 169A-4, 180A-4, 206A-4	R8	SEBS-A.101233/16TB V15.0	8114136074	valid	2024-03-11	2027-08-01

	Release ABB:	Release Assessor:	Release Certification Body:
Signature:	Mikko Ristolainen Digitally signed by Mikko Ristolainen Date: 2024.03.26 13:47:04 +02'00'	TÜVNORD Digitally signed by Korte Robert Date: 2024.03.11 12:55:54 +01'00'	TÜVNORD Digitally signed by Pfuff Bianca Date: 2024.03.11 12:47:11 +01'00'
Date:			

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