

# Unbedenklichkeitsbescheinigung

**Antragsteller:** EAST Group Co., Ltd.  
No.6 Northern Industry Road, Songshan Lake Sci.& Tech. industrial zone,  
Dongguan City, Guangdong province, China

**Typ Erzeugungseinheit:** EA2KSI, EA2.5KSI, EA3KSI, EA3KSI-D, EA3.68KSI,  
EA4KSI, EA4.6KSI, EA5KSI, EA6KSI

**Firmwareversion:** MDSP: V009, MCU: V009

**Netzanschlussregel:** VDE-AR-N 4105:2011-08 – Erzeugungsanlagen am Niederspannungsnetz  
Technische Mindestanforderungen für Anschluss und Parallelbetrieb von  
Erzeugungsanlagen am Niederspannungsnetz

**Mitgeltende Normen:** E DIN VDE V 0124-100 (VDE V 0124-100):2013-10 – Netzintegration von  
Erzeugungsanlagen – Niederspannung  
Prüfanforderungen an Erzeugungseinheiten vorgesehen zum Anschluss und  
Parallelbetrieb am Niederspannungsnetz

**Prüfberichtnummer:** 50185159 001

**Zertifikatsnummer:** AK 50420150 0001

**Ausstellungsdatum:** 15.10.2018



Li Weichun  
General Manager

TÜV Rheinland LGA Products GmbH – Tillystraße 2 – 90431 Nürnberg

<b>F.3 Requirements for the test report for power generation units</b>												
<b>F.3 Anforderungen an den Prüfbericht für Erzeugungseinheiten</b>												
<b>Auszug aus dem Prüfbericht zum Eingetragenen-Zertifikat</b> <i>Extract from the test report on the certificate of units</i>						50185159 001						
<b>“Bestimmung der elektrischen Eigenschaften”</b> <i>“Determination of electrical properties”</i>												
<b>Anlagentyp:</b> Netzgekoppelte Wechselrichter <i>Type of system:</i>												
<b>Anlagenhersteller:</b> EAST Group Co., Ltd. <i>Manufacturer:</i>												
<b>Herstellerangaben:</b> <i>Manufacturer's data:</i>												
<b>Anlagenart:</b> <i>Type:</i>	EA2KSI	EA2.5KSI	EA3KSI	EA3KSI-D	EA3.68KSI	EA4KSI	EA4.6KSI	EA5KSI	EA6KSI			
<b>Wirkleistung [W]:</b> <i>Active Power [W]:</i>	2000	2500	3000	3000	3680	4000	4600	5000	6000			
<b>Bemessungsspannung [V]:</b> <i>Rating voltage [V]:</i>	230	230	230	230	230	230	230	230	230			
<b>Messzeitraum: Vom 2018-08-10 bis 2018-09-10</b> <i>Measuring period:</i>												
<b>Anlagenart:</b> <i>Type:</i>	EA2KSI	EA2.5KSI	EA3KSI	EA3KSI-D	EA3.68KSI	EA4KSI	EA4.6KSI	EA5KSI	EA6KSI			
<b>Wirkleistung [W]:</b> <i>Active Power [W]:</i>	2032	2489	3021	3010	3685	4016	4591	5010	5917			
				PGU < 3.68KVA, PGS > 13.8kVA				3.68kVA < PGU < 13.8KVA, PGS > 13.8kVA				
<b>Blindleistungsbezug:</b> <i>Reactive power reference:</i>												
<b>Wirkleistung P/Pn [%]</b> <i>Active power P/Pn [%]</i>		10	20	30	40	50	60	70	80	90	100	
<b>Maximal möglicher cosφ untererregt</b> <i>Max. possible cosφ under-excited</i>		N/A	0.801	0.801	0.803	0.801	0.801	0.804	0.803	0.801	N/A	
<b>Maximal möglicher cosφ übererregt</b> <i>Max. possible cosφ over-excited</i>		N/A	0.802	0.804	0.802	0.799	0.801	0.803	0.798	0.800	N/A	
<b>Einhaltung eines fest vorgegebenen Verschiebungsfaktor cosφ:</b> <i>Compliance of required displacement factor cosφ:</i>												
<b>Vorgabe in der Anlagensteuerung</b> <i>Default in system control</i>		0.800 <sub>o</sub>	0.840 <sub>o</sub>	0.880 <sub>o</sub>	0.920 <sub>o</sub>	0.960 <sub>o</sub>	1.000	0.960 <sub>u</sub>	0.920 <sub>u</sub>	0.880 <sub>u</sub>	0.840 <sub>u</sub>	0.800 <sub>u</sub>
<b>Messwert an den Klemmen der EZE</b> <i>Measured value at PGU terminals</i>		0.803 <sub>o</sub>	0.843 <sub>o</sub>	0.885 <sub>o</sub>	0.921 <sub>o</sub>	0.960 <sub>o</sub>	0.999	0.965 <sub>u</sub>	0.928 <sub>u</sub>	0.880 <sub>u</sub>	0.841 <sub>u</sub>	0.802
<b>Beachtung: Vorgestehende PF werte werden auf 50%Pn abgabe gemessen.</b> <i>Remark: Above PF values are measured under 50%Pn output.</i>												
<b>Blindleistungübergangsfunktion-Standard- cosφ (P)-Kennlinie:</b> <i>Reactive power transfer function – Standard- cosφ (P) characteristic:</i>												
<b>Wirkleistung P/Pn [%]</b> <i>Active power P/Pn [%]</i>		10	20	30	40	50	60	70	80	90	100	
<b>cosφ</b>		N/A	0.997	0.998	0.999	0.999	0.982	0.961	0.941	0.919	N/A	
<b>Die Standard- cosφ (P)-Kennlinie wird eingehalten,</b> <i>Conform to Standard-cosφ (P) characteristic.</i>												
<b>Schalthandlungen</b> <i>Switching actions</i>												
<b>Einschalten ohne Vorgabe (zum Primärenergieträger)</b> <i>Marking operation without default (to primary energy carrier)</i>						ki	0.039					
<b>Ungünstigster Fall bei Umschalten der Generatorstufen</b> <i>Worst case at switch over of generator sections</i>						ki	N/A					
<b>Einschalten bei Nennbedingungen (des primärenergieträger)</b> <i>Marking operation at reference conditions(of primary energy carrier)</i>						ki	0.034					
<b>Ausschalten bei Nennleistung</b> <i>Breaking operation at nominal power</i>						ki	0.740					
<b>Schlechtester Wert aller Schaltvorgänge</b> <i>Worst case value of all switching operations</i>						kimax	0.740					
<b>Flicker</b>												
<b>Netzimpedanzwinkel Ψk:</b> <i>Angle of network impedance Ψk:</i>							30°	50°	70°	85°		
<b>Anlagenflickerbeiwert CΨ:</b> <i>Flicker coefficient of system flicker CΨ:</i>							9.159	N/A	N/A	N/A		

**Beachtung: Diese Prüfungen beziehen sich lediglich auf 32°-Netzimpedanzwinkel und stellen den "Worst case" dar,**  
*Remark: The tests apply to the network impedance approximately 32° to represent the "Worst case",*

<b>Harmonics-EA2KSI</b>											
<i>Oberschwingungen</i>											
<b>Active power</b> <b>P/P<sub>n</sub> [%]</b> <i>Wirkleistung P/P<sub>n</sub></i> <i>[%]</i>	0	10	20	30	40	50	60	70	80	90	100
<b>Harmonic number</b> <i>Ordnungszahl</i>	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2	0.0099	0.0115	0.0130	0.0169	0.0165	0.0164	0.0164	0.0172	0.0181	0.0213	0.0232
3	0.0470	0.1450	0.0942	0.1215	0.1458	0.1565	0.1199	0.1223	0.1225	0.1241	0.1253
4	0.0126	0.0152	0.0108	0.0086	0.0110	0.0101	0.0099	0.0101	0.0094	0.0091	0.0097
5	0.0588	0.0913	0.0454	0.0553	0.0652	0.0722	0.0592	0.0587	0.0600	0.0611	0.0624
6	0.0070	0.0099	0.0063	0.0057	0.0061	0.0075	0.0077	0.0076	0.0072	0.0067	0.0066
7	0.0377	0.0517	0.0534	0.0127	0.0362	0.0507	0.0489	0.0486	0.0486	0.0477	0.0471
8	0.0058	0.0068	0.0081	0.0068	0.0053	0.0058	0.0066	0.0066	0.0065	0.0058	0.0061
9	0.0212	0.0318	0.0604	0.0328	0.0161	0.0316	0.0383	0.0411	0.0423	0.0426	0.0422
10	0.0049	0.0055	0.0062	0.0067	0.0057	0.0054	0.0057	0.0061	0.0062	0.0056	0.0056
11	0.0131	0.0335	0.0214	0.0417	0.0254	0.0205	0.0289	0.0337	0.0365	0.0371	0.0373
12	0.0050	0.0037	0.0062	0.0063	0.0068	0.0057	0.0053	0.0054	0.0058	0.0052	0.0054
13	0.0076	0.0175	0.0144	0.0321	0.0316	0.0208	0.0222	0.0273	0.0306	0.0321	0.0326
14	0.0046	0.0038	0.0053	0.0051	0.0063	0.0059	0.0052	0.0054	0.0057	0.0054	0.0055
15	0.0049	0.0167	0.0257	0.0167	0.0286	0.0242	0.0175	0.0226	0.0264	0.0287	0.0296
16	0.0044	0.0038	0.0055	0.0056	0.0054	0.0060	0.0053	0.0054	0.0055	0.0053	0.0054
17	0.0047	0.0122	0.0188	0.0150	0.0195	0.0235	0.0149	0.0176	0.0216	0.0241	0.0256
18	0.0043	0.0038	0.0048	0.0060	0.0054	0.0061	0.0053	0.0054	0.0054	0.0053	0.0056
19	0.0054	0.0095	0.0106	0.0180	0.0131	0.0204	0.0151	0.0154	0.0190	0.0218	0.0239
20	0.0045	0.0043	0.0063	0.0055	0.0059	0.0059	0.0057	0.0056	0.0057	0.0057	0.0057
21	0.0066	0.0071	0.0117	0.0135	0.0113	0.0149	0.0151	0.0142	0.0162	0.0192	0.0215
22	0.0044	0.0043	0.0051	0.0052	0.0057	0.0058	0.0058	0.0054	0.0055	0.0055	0.0056
23	0.0070	0.0059	0.0100	0.0078	0.0120	0.0115	0.0147	0.0143	0.0148	0.0172	0.0199
24	0.0045	0.0043	0.0046	0.0052	0.0059	0.0059	0.0055	0.0056	0.0056	0.0057	0.0058
25	0.0079	0.0041	0.0056	0.0075	0.0103	0.0110	0.0137	0.0146	0.0144	0.0160	0.0185
26	0.0043	0.0044	0.0047	0.0056	0.0054	0.0055	0.0055	0.0056	0.0055	0.0056	0.0056
27	0.0071	0.0037	0.0067	0.0084	0.0079	0.0120	0.0133	0.0152	0.0151	0.0151	0.0165
28	0.0040	0.0041	0.0047	0.0051	0.0050	0.0053	0.0053	0.0055	0.0055	0.0058	0.0059
29	0.0064	0.0039	0.0057	0.0072	0.0077	0.0123	0.0129	0.0155	0.0150	0.0144	0.0149
30	0.0039	0.0039	0.0042	0.0047	0.0046	0.0051	0.0055	0.0055	0.0059	0.0061	0.0063
31	0.0054	0.0042	0.0055	0.0065	0.0084	0.0105	0.0118	0.0137	0.0137	0.0129	0.0121
32	0.0038	0.0039	0.0042	0.0044	0.0046	0.0049	0.0055	0.0058	0.0059	0.0061	0.0062
33	0.0051	0.0050	0.0066	0.0073	0.0086	0.0087	0.0111	0.0121	0.0123	0.0107	0.0097
34	0.0034	0.0033	0.0041	0.0042	0.0043	0.0047	0.0055	0.0060	0.0059	0.0061	0.0061
35	0.0052	0.0056	0.0060	0.0073	0.0075	0.0066	0.0096	0.0097	0.0099	0.0087	0.0084
36	0.0034	0.0028	0.0038	0.0040	0.0041	0.0045	0.0057	0.0058	0.0058	0.0059	0.0060
37	0.0051	0.0056	0.0053	0.0053	0.0051	0.0049	0.0075	0.0068	0.0072	0.0069	0.0066

38	0.0033	0.0030	0.0034	0.0038	0.0040	0.0040	0.0053	0.0055	0.0057	0.0057	0.0060
39	0.0064	0.0063	0.0061	0.0047	0.0046	0.0045	0.0065	0.0060	0.0064	0.0063	0.0064
40	0.0038	0.0032	0.0036	0.0036	0.0038	0.0040	0.0053	0.0054	0.0058	0.0058	0.0062
Remark:											

<b>Harmonics-EA2.5KSI</b> <i>berschwingungen</i>											
<b>Active power</b> <b>P/P<sub>n</sub> [%]</b> <i>Wirkleistung P/P<sub>n</sub></i> <i>[%]</i>	0	10	20	30	40	50	60	70	80	90	100
<b>Harmonic number</b> <i>Ordnungszahl</i>	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2	0.0093	0.0064	0.0125	0.0168	0.0167	0.0184	0.0210	0.0205	0.0241	0.0223	0.0267
3	0.0487	0.1540	0.1032	0.1390	0.1562	0.1214	0.1227	0.1234	0.1252	0.1282	0.1325
4	0.0100	0.0083	0.0077	0.0092	0.0103	0.0097	0.0099	0.0093	0.0086	0.0084	0.0105
5	0.0559	0.0732	0.0503	0.0631	0.0717	0.0591	0.0598	0.0608	0.0621	0.0644	0.0664
6	0.0057	0.0106	0.0066	0.0060	0.0078	0.0072	0.0070	0.0061	0.0072	0.0067	0.0070
7	0.0381	0.0720	0.0189	0.0307	0.0506	0.0488	0.0486	0.0479	0.0470	0.0468	0.0465
8	0.0049	0.0054	0.0053	0.0053	0.0057	0.0067	0.0064	0.0057	0.0060	0.0059	0.0064
9	0.0214	0.0223	0.0513	0.0164	0.0311	0.0395	0.0422	0.0427	0.0422	0.0416	0.0406
10	0.0044	0.0043	0.0067	0.0059	0.0054	0.0060	0.0061	0.0055	0.0056	0.0058	0.0060
11	0.0138	0.0340	0.0423	0.0307	0.0203	0.0299	0.0351	0.0370	0.0372	0.0370	0.0363
12	0.0046	0.0059	0.0052	0.0065	0.0059	0.0054	0.0057	0.0054	0.0057	0.0057	0.0058
13	0.0083	0.0248	0.0191	0.0341	0.0209	0.0234	0.0294	0.0321	0.0328	0.0330	0.0324
14	0.0044	0.0041	0.0058	0.0057	0.0060	0.0053	0.0054	0.0053	0.0056	0.0057	0.0058
15	0.0056	0.0117	0.0174	0.0275	0.0245	0.0184	0.0247	0.0280	0.0298	0.0306	0.0310
16	0.0042	0.0041	0.0058	0.0054	0.0059	0.0053	0.0053	0.0053	0.0053	0.0057	0.0057
17	0.0045	0.0166	0.0214	0.0165	0.0236	0.0147	0.0194	0.0235	0.0255	0.0270	0.0284
18	0.0043	0.0042	0.0052	0.0055	0.0060	0.0053	0.0054	0.0053	0.0054	0.0057	0.0058
19	0.0046	0.0105	0.0172	0.0127	0.0202	0.0148	0.0174	0.0214	0.0238	0.0257	0.0272
20	0.0043	0.0045	0.0052	0.0061	0.0058	0.0058	0.0057	0.0056	0.0059	0.0059	0.0058
21	0.0058	0.0082	0.0088	0.0131	0.0147	0.0143	0.0143	0.0181	0.0214	0.0240	0.0261
22	0.0043	0.0042	0.0052	0.0057	0.0057	0.0057	0.0055	0.0056	0.0056	0.0057	0.0057
23	0.0062	0.0078	0.0103	0.0124	0.0113	0.0149	0.0144	0.0167	0.0201	0.0224	0.0242
24	0.0044	0.0046	0.0053	0.0057	0.0057	0.0058	0.0056	0.0055	0.0057	0.0058	0.0062
25	0.0073	0.0050	0.0090	0.0090	0.0110	0.0142	0.0145	0.0155	0.0184	0.0208	0.0218
26	0.0044	0.0044	0.0049	0.0051	0.0055	0.0054	0.0057	0.0057	0.0057	0.0059	0.0062
27	0.0067	0.0047	0.0058	0.0072	0.0120	0.0139	0.0150	0.0149	0.0164	0.0184	0.0192
28	0.0042	0.0040	0.0047	0.0049	0.0053	0.0053	0.0057	0.0057	0.0059	0.0063	0.0064
29	0.0065	0.0044	0.0068	0.0087	0.0123	0.0135	0.0154	0.0148	0.0151	0.0161	0.0167
30	0.0040	0.0041	0.0044	0.0048	0.0051	0.0055	0.0057	0.0059	0.0061	0.0063	0.0066
31	0.0057	0.0050	0.0073	0.0092	0.0104	0.0120	0.0139	0.0130	0.0123	0.0127	0.0141
32	0.0039	0.0040	0.0044	0.0047	0.0048	0.0055	0.0055	0.0059	0.0061	0.0064	0.0065
33	0.0055	0.0052	0.0061	0.0082	0.0085	0.0109	0.0124	0.0112	0.0099	0.0103	0.0111
34	0.0034	0.0035	0.0039	0.0043	0.0046	0.0056	0.0059	0.0060	0.0062	0.0064	0.0065

35	0.0056	0.0059	0.0063	0.0063	0.0065	0.0093	0.0099	0.0092	0.0085	0.0089	0.0105
36	0.0033	0.0030	0.0036	0.0041	0.0044	0.0055	0.0057	0.0058	0.0060	0.0064	0.0065
37	0.0052	0.0056	0.0061	0.0049	0.0049	0.0073	0.0070	0.0072	0.0065	0.0074	0.0088
38	0.0031	0.0030	0.0037	0.0038	0.0039	0.0054	0.0057	0.0056	0.0060	0.0063	0.0067
39	0.0064	0.0061	0.0055	0.0051	0.0044	0.0061	0.0062	0.0065	0.0065	0.0071	0.0087
40	0.0035	0.0030	0.0036	0.0038	0.0040	0.0053	0.0056	0.0058	0.0061	0.0066	0.0070
Remark:											

<b>Harmonics-EA3KSI</b>											
<i>Oberschwingungen</i>											
<b>Active power</b> <b>P/P<sub>n</sub> [%]</b> <i>Wirkleistung P/P<sub>n</sub></i> <i>[%]</i>	0	10	20	30	40	50	60	70	80	90	100
<b>Harmonic</b> <b>number</b> <i>Ordnungszahl</i>	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2	0.0101	0.0101	0.0192	0.0188	0.0189	0.0188	0.0190	0.0225	0.0248	0.0280	0.0286
3	0.0532	0.1237	0.1194	0.1487	0.1144	0.1188	0.1173	0.1172	0.1186	0.1233	0.1445
4	0.0129	0.0125	0.0089	0.0132	0.0111	0.0115	0.0089	0.0099	0.0106	0.0087	0.0103
5	0.0533	0.0449	0.0552	0.0684	0.0601	0.0592	0.0602	0.0614	0.0645	0.0674	0.0708
6	0.0067	0.0073	0.0057	0.0080	0.0089	0.0087	0.0073	0.0072	0.0077	0.0087	0.0077
7	0.0390	0.0848	0.0127	0.0437	0.0496	0.0489	0.0476	0.0469	0.0470	0.0472	0.0492
8	0.0057	0.0076	0.0070	0.0053	0.0075	0.0074	0.0061	0.0062	0.0062	0.0064	0.0066
9	0.0223	0.0327	0.0342	0.0222	0.0386	0.0424	0.0427	0.0419	0.0416	0.0408	0.0423
10	0.0048	0.0062	0.0068	0.0055	0.0060	0.0067	0.0060	0.0058	0.0060	0.0061	0.0059
11	0.0152	0.0138	0.0422	0.0203	0.0286	0.0349	0.0368	0.0371	0.0373	0.0371	0.0372
12	0.0049	0.0054	0.0067	0.0069	0.0053	0.0060	0.0058	0.0059	0.0062	0.0060	0.0058
13	0.0097	0.0328	0.0315	0.0268	0.0220	0.0294	0.0324	0.0330	0.0335	0.0334	0.0345
14	0.0046	0.0061	0.0051	0.0068	0.0052	0.0057	0.0060	0.0056	0.0058	0.0063	0.0057
15	0.0068	0.0174	0.0163	0.0283	0.0175	0.0245	0.0283	0.0301	0.0316	0.0327	0.0340
16	0.0043	0.0053	0.0061	0.0065	0.0054	0.0055	0.0057	0.0060	0.0058	0.0057	0.0057
17	0.0048	0.0103	0.0159	0.0226	0.0156	0.0199	0.0243	0.0272	0.0291	0.0306	0.0322
18	0.0043	0.0048	0.0062	0.0059	0.0058	0.0058	0.0058	0.0059	0.0060	0.0059	0.0057
19	0.0044	0.0156	0.0186	0.0168	0.0156	0.0172	0.0216	0.0246	0.0268	0.0292	0.0311
20	0.0044	0.0046	0.0057	0.0061	0.0064	0.0060	0.0061	0.0061	0.0059	0.0061	0.0057
21	0.0051	0.0091	0.0134	0.0114	0.0154	0.0148	0.0190	0.0229	0.0263	0.0278	0.0288
22	0.0044	0.0053	0.0054	0.0059	0.0062	0.0056	0.0056	0.0057	0.0060	0.0061	0.0063
23	0.0056	0.0073	0.0079	0.0116	0.0153	0.0148	0.0175	0.0214	0.0243	0.0254	0.0267
24	0.0046	0.0050	0.0054	0.0060	0.0056	0.0056	0.0057	0.0058	0.0061	0.0066	0.0064
25	0.0070	0.0060	0.0083	0.0122	0.0137	0.0151	0.0160	0.0194	0.0212	0.0223	0.0223
26	0.0045	0.0044	0.0056	0.0057	0.0056	0.0055	0.0058	0.0059	0.0062	0.0063	0.0063
27	0.0063	0.0052	0.0091	0.0112	0.0132	0.0154	0.0152	0.0170	0.0189	0.0192	0.0201
28	0.0042	0.0047	0.0050	0.0052	0.0055	0.0055	0.0059	0.0061	0.0064	0.0065	0.0063
29	0.0064	0.0055	0.0074	0.0098	0.0128	0.0154	0.0145	0.0148	0.0160	0.0173	0.0186
30	0.0040	0.0042	0.0047	0.0049	0.0056	0.0056	0.0060	0.0062	0.0066	0.0068	0.0064
31	0.0058	0.0052	0.0069	0.0081	0.0116	0.0137	0.0126	0.0115	0.0126	0.0143	0.0159

32	0.0038	0.0038	0.0043	0.0044	0.0055	0.0057	0.0060	0.0064	0.0065	0.0069	0.0069
33	0.0058	0.0061	0.0077	0.0079	0.0109	0.0116	0.0102	0.0094	0.0104	0.0124	0.0149
34	0.0035	0.0038	0.0041	0.0042	0.0056	0.0062	0.0062	0.0061	0.0068	0.0072	0.0068
35	0.0059	0.0065	0.0072	0.0072	0.0094	0.0094	0.0088	0.0081	0.0095	0.0124	0.0135
36	0.0033	0.0033	0.0041	0.0041	0.0058	0.0060	0.0061	0.0063	0.0066	0.0068	0.0069
37	0.0054	0.0053	0.0049	0.0054	0.0071	0.0068	0.0070	0.0072	0.0082	0.0101	0.0112
38	0.0030	0.0031	0.0039	0.0040	0.0056	0.0061	0.0060	0.0066	0.0071	0.0070	0.0070
39	0.0064	0.0061	0.0044	0.0045	0.0061	0.0060	0.0066	0.0069	0.0083	0.0102	0.0118
40	0.0035	0.0033	0.0035	0.0037	0.0053	0.0056	0.0060	0.0066	0.0065	0.0070	0.0071
Remark:											

<b>Harmonics-EA3KSI-D</b>											
<i>Oberschwingungen</i>											
<b>Active power</b> <b>P/P<sub>n</sub> [%]</b> <i>Wirkleistung P/P<sub>n</sub></i> <i>[%]</i>	0	10	20	30	40	50	60	70	80	90	100
<b>Harmonic number</b> <i>Ordnungszahl</i>	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2	0.0101	0.0185	0.0188	0.0192	0.0193	0.0198	0.0210	0.0229	0.0241	0.0286	0.0300
3	0.0546	0.1091	0.1399	0.1531	0.1215	0.1241	0.1232	0.1263	0.1319	0.1410	0.1509
4	0.0137	0.0075	0.0084	0.0132	0.0116	0.0106	0.0094	0.0097	0.0102	0.0095	0.0099
5	0.0527	0.0428	0.0667	0.0692	0.0601	0.0600	0.0599	0.0622	0.0648	0.0678	0.0730
6	0.0071	0.0092	0.0055	0.0086	0.0083	0.0079	0.0064	0.0067	0.0081	0.0079	0.0082
7	0.0386	0.1042	0.0247	0.0457	0.0495	0.0488	0.0471	0.0459	0.0458	0.0458	0.0474
8	0.0061	0.0089	0.0070	0.0055	0.0074	0.0066	0.0061	0.0061	0.0067	0.0064	0.0065
9	0.0224	0.0648	0.0525	0.0247	0.0394	0.0425	0.0417	0.0415	0.0404	0.0398	0.0412
10	0.0050	0.0061	0.0077	0.0053	0.0061	0.0063	0.0057	0.0057	0.0058	0.0060	0.0063
11	0.0152	0.0451	0.0570	0.0190	0.0298	0.0358	0.0371	0.0364	0.0361	0.0353	0.0358
12	0.0049	0.0078	0.0065	0.0062	0.0053	0.0061	0.0055	0.0055	0.0056	0.0058	0.0059
13	0.0097	0.0570	0.0403	0.0242	0.0232	0.0299	0.0320	0.0326	0.0321	0.0320	0.0333
14	0.0046	0.0054	0.0051	0.0067	0.0052	0.0053	0.0053	0.0055	0.0058	0.0058	0.0061
15	0.0070	0.0346	0.0242	0.0269	0.0185	0.0257	0.0290	0.0299	0.0306	0.0308	0.0322
16	0.0042	0.0051	0.0059	0.0065	0.0051	0.0052	0.0054	0.0055	0.0059	0.0059	0.0058
17	0.0050	0.0317	0.0269	0.0232	0.0149	0.0202	0.0242	0.0264	0.0275	0.0288	0.0307
18	0.0043	0.0068	0.0065	0.0057	0.0055	0.0054	0.0053	0.0058	0.0060	0.0058	0.0058
19	0.0044	0.0292	0.0287	0.0178	0.0149	0.0179	0.0220	0.0244	0.0258	0.0273	0.0296
20	0.0044	0.0052	0.0054	0.0055	0.0058	0.0055	0.0057	0.0059	0.0062	0.0059	0.0059
21	0.0049	0.0170	0.0189	0.0114	0.0143	0.0146	0.0192	0.0222	0.0249	0.0268	0.0288
22	0.0044	0.0053	0.0052	0.0057	0.0057	0.0052	0.0055	0.0057	0.0059	0.0058	0.0060
23	0.0052	0.0169	0.0120	0.0098	0.0138	0.0132	0.0171	0.0208	0.0233	0.0251	0.0269
24	0.0044	0.0051	0.0058	0.0057	0.0056	0.0056	0.0055	0.0057	0.0060	0.0061	0.0065
25	0.0066	0.0112	0.0110	0.0098	0.0126	0.0132	0.0154	0.0189	0.0216	0.0231	0.0238
26	0.0044	0.0046	0.0057	0.0058	0.0056	0.0054	0.0055	0.0057	0.0061	0.0063	0.0064
27	0.0063	0.0075	0.0094	0.0100	0.0122	0.0135	0.0146	0.0179	0.0199	0.0209	0.0213
28	0.0043	0.0044	0.0049	0.0054	0.0054	0.0053	0.0057	0.0059	0.0063	0.0066	0.0069

29	0.0061	0.0063	0.0056	0.0093	0.0118	0.0143	0.0145	0.0162	0.0179	0.0181	0.0190
30	0.0042	0.0042	0.0046	0.0050	0.0054	0.0055	0.0059	0.0063	0.0066	0.0068	0.0068
31	0.0053	0.0056	0.0049	0.0078	0.0114	0.0141	0.0132	0.0134	0.0145	0.0155	0.0165
32	0.0041	0.0040	0.0047	0.0045	0.0056	0.0054	0.0061	0.0064	0.0066	0.0067	0.0070
33	0.0050	0.0058	0.0051	0.0073	0.0111	0.0128	0.0121	0.0114	0.0120	0.0135	0.0149
34	0.0037	0.0036	0.0043	0.0041	0.0057	0.0055	0.0062	0.0066	0.0067	0.0068	0.0071
35	0.0050	0.0068	0.0044	0.0071	0.0104	0.0113	0.0101	0.0092	0.0105	0.0119	0.0137
36	0.0031	0.0035	0.0038	0.0039	0.0054	0.0055	0.0060	0.0065	0.0066	0.0067	0.0070
37	0.0051	0.0072	0.0042	0.0064	0.0089	0.0086	0.0079	0.0072	0.0083	0.0103	0.0120
38	0.0031	0.0036	0.0038	0.0036	0.0053	0.0056	0.0058	0.0062	0.0068	0.0074	0.0071
39	0.0066	0.0070	0.0050	0.0063	0.0077	0.0074	0.0069	0.0071	0.0081	0.0103	0.0124
40	0.0033	0.0034	0.0037	0.0038	0.0050	0.0054	0.0059	0.0061	0.0067	0.0069	0.0075
Remark:											

<b>Harmonics-EA3.68KSI</b>											
<i>Oberschwingungen</i>											
<b>Active power</b> P/P <sub>n</sub> [%] <i>Wirkleistung P/P<sub>n</sub></i> [%]	0	10	20	30	40	50	60	70	80	90	100
<b>Harmonic number</b> <i>Ordnungszahl</i>	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2	0.0092	0.0084	0.0152	0.0147	0.0191	0.0217	0.0227	0.0254	0.0278	0.0308	0.0308
3	0.0610	0.0960	0.1368	0.1598	0.1214	0.1262	0.1264	0.1327	0.1430	0.1551	0.1703
4	0.0089	0.0081	0.0088	0.0099	0.0093	0.0091	0.0097	0.0105	0.0110	0.0113	0.0120
5	0.0520	0.0425	0.0622	0.0734	0.0594	0.0631	0.0630	0.0659	0.0701	0.0759	0.0832
6	0.0050	0.0046	0.0058	0.0075	0.0066	0.0073	0.0075	0.0074	0.0088	0.0080	0.0096
7	0.0413	0.0699	0.0282	0.0541	0.0491	0.0461	0.0463	0.0460	0.0461	0.0457	0.0478
8	0.0045	0.0060	0.0054	0.0058	0.0062	0.0066	0.0062	0.0060	0.0069	0.0069	0.0082
9	0.0252	0.0553	0.0183	0.0371	0.0420	0.0415	0.0414	0.0401	0.0396	0.0396	0.0392
10	0.0042	0.0045	0.0056	0.0055	0.0058	0.0063	0.0057	0.0060	0.0058	0.0062	0.0072
11	0.0181	0.0121	0.0334	0.0243	0.0348	0.0366	0.0366	0.0362	0.0354	0.0349	0.0360
12	0.0044	0.0049	0.0059	0.0055	0.0055	0.0057	0.0054	0.0060	0.0057	0.0060	0.0064
13	0.0127	0.0199	0.0349	0.0203	0.0288	0.0329	0.0329	0.0325	0.0323	0.0325	0.0330
14	0.0042	0.0046	0.0053	0.0058	0.0053	0.0058	0.0057	0.0060	0.0060	0.0061	0.0061
15	0.0092	0.0287	0.0265	0.0215	0.0236	0.0300	0.0304	0.0310	0.0319	0.0323	0.0332
16	0.0042	0.0049	0.0054	0.0058	0.0055	0.0058	0.0059	0.0057	0.0060	0.0058	0.0058
17	0.0065	0.0138	0.0149	0.0220	0.0190	0.0268	0.0269	0.0287	0.0302	0.0316	0.0318
18	0.0042	0.0050	0.0058	0.0062	0.0056	0.0058	0.0057	0.0060	0.0061	0.0059	0.0060
19	0.0049	0.0112	0.0134	0.0211	0.0162	0.0253	0.0253	0.0273	0.0293	0.0294	0.0293
20	0.0043	0.0053	0.0063	0.0061	0.0056	0.0058	0.0059	0.0061	0.0061	0.0058	0.0062
21	0.0046	0.0123	0.0142	0.0175	0.0144	0.0231	0.0231	0.0263	0.0279	0.0279	0.0277
22	0.0043	0.0046	0.0056	0.0057	0.0055	0.0057	0.0057	0.0059	0.0062	0.0062	0.0064
23	0.0048	0.0090	0.0121	0.0140	0.0143	0.0220	0.0222	0.0244	0.0254	0.0253	0.0257
24	0.0045	0.0048	0.0055	0.0057	0.0054	0.0058	0.0057	0.0061	0.0067	0.0065	0.0064
25	0.0058	0.0064	0.0080	0.0117	0.0144	0.0199	0.0197	0.0221	0.0221	0.0222	0.0243

26	0.0045	0.0050	0.0052	0.0056	0.0056	0.0060	0.0059	0.0062	0.0065	0.0065	0.0064
27	0.0057	0.0064	0.0075	0.0115	0.0152	0.0181	0.0180	0.0194	0.0194	0.0210	0.0230
28	0.0042	0.0043	0.0049	0.0053	0.0056	0.0060	0.0063	0.0064	0.0065	0.0066	0.0067
29	0.0060	0.0048	0.0091	0.0123	0.0155	0.0158	0.0156	0.0166	0.0180	0.0200	0.0219
30	0.0042	0.0042	0.0048	0.0049	0.0056	0.0065	0.0064	0.0065	0.0065	0.0068	0.0068
31	0.0055	0.0062	0.0089	0.0116	0.0140	0.0121	0.0123	0.0139	0.0157	0.0186	0.0200
32	0.0040	0.0042	0.0047	0.0048	0.0058	0.0064	0.0063	0.0066	0.0068	0.0069	0.0068
33	0.0058	0.0060	0.0074	0.0101	0.0122	0.0103	0.0104	0.0118	0.0147	0.0173	0.0186
34	0.0035	0.0037	0.0041	0.0047	0.0058	0.0064	0.0064	0.0069	0.0072	0.0072	0.0075
35	0.0061	0.0061	0.0062	0.0078	0.0097	0.0086	0.0087	0.0106	0.0141	0.0159	0.0174
36	0.0030	0.0034	0.0041	0.0045	0.0060	0.0064	0.0063	0.0068	0.0073	0.0075	0.0076
37	0.0057	0.0061	0.0055	0.0052	0.0071	0.0072	0.0074	0.0094	0.0119	0.0135	0.0146
38	0.0029	0.0033	0.0038	0.0042	0.0060	0.0069	0.0068	0.0076	0.0076	0.0075	0.0081
39	0.0068	0.0059	0.0056	0.0042	0.0061	0.0073	0.0073	0.0095	0.0123	0.0135	0.0149
40	0.0031	0.0035	0.0036	0.0042	0.0055	0.0063	0.0063	0.0070	0.0078	0.0079	0.0084

Remark:

<b>Harmonics-EA4KSI</b>											
<i>Oberschwingungen</i>											
<b>Active power</b> <b>P/P<sub>n</sub> [%]</b> <i>Wirkleistung P/P<sub>n</sub></i> <i>[%]</i>	0	10	20	30	40	50	60	70	80	90	100
<b>Harmonic number</b> <i>Ordnungszahl</i>	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2	0.0090	0.0112	0.0142	0.0187	0.0209	0.0212	0.0235	0.0244	0.0272	0.0368	0.0360
3	0.0678	0.0953	0.1456	0.1208	0.1188	0.1163	0.1186	0.1273	0.1400	0.1541	0.1842
4	0.0131	0.0097	0.0144	0.0080	0.0089	0.0094	0.0092	0.0087	0.0104	0.0118	0.0114
5	0.0519	0.0448	0.0656	0.0601	0.0594	0.0612	0.0649	0.0681	0.0742	0.0819	0.0902
6	0.0064	0.0055	0.0057	0.0062	0.0074	0.0073	0.0081	0.0082	0.0094	0.0080	0.0090
7	0.0425	0.0553	0.0355	0.0498	0.0487	0.0472	0.0472	0.0475	0.0476	0.0482	0.0504
8	0.0055	0.0071	0.0052	0.0057	0.0065	0.0060	0.0070	0.0068	0.0076	0.0073	0.0079
9	0.0269	0.0607	0.0160	0.0385	0.0427	0.0422	0.0417	0.0413	0.0407	0.0405	0.0408
10	0.0046	0.0056	0.0052	0.0054	0.0060	0.0058	0.0062	0.0066	0.0069	0.0067	0.0072
11	0.0197	0.0204	0.0268	0.0290	0.0360	0.0373	0.0373	0.0365	0.0364	0.0366	0.0372
12	0.0046	0.0057	0.0059	0.0052	0.0057	0.0054	0.0059	0.0065	0.0068	0.0074	0.0069
13	0.0143	0.0147	0.0327	0.0215	0.0305	0.0330	0.0333	0.0332	0.0329	0.0340	0.0351
14	0.0042	0.0050	0.0053	0.0053	0.0056	0.0056	0.0056	0.0061	0.0064	0.0065	0.0066
15	0.0104	0.0262	0.0291	0.0175	0.0261	0.0297	0.0312	0.0324	0.0336	0.0345	0.0341
16	0.0041	0.0052	0.0052	0.0053	0.0055	0.0055	0.0058	0.0064	0.0058	0.0063	0.0066
17	0.0075	0.0187	0.0189	0.0152	0.0210	0.0263	0.0289	0.0308	0.0319	0.0322	0.0320
18	0.0041	0.0047	0.0053	0.0053	0.0054	0.0056	0.0058	0.0063	0.0059	0.0063	0.0063
19	0.0054	0.0108	0.0132	0.0154	0.0188	0.0235	0.0265	0.0289	0.0306	0.0304	0.0299
20	0.0042	0.0058	0.0058	0.0056	0.0059	0.0060	0.0062	0.0063	0.0060	0.0063	0.0062
21	0.0044	0.0116	0.0118	0.0154	0.0158	0.0212	0.0258	0.0284	0.0288	0.0284	0.0295
22	0.0043	0.0047	0.0055	0.0054	0.0057	0.0058	0.0060	0.0064	0.0064	0.0065	0.0063



23	0.0045	0.0098	0.0122	0.0145	0.0147	0.0203	0.0242	0.0257	0.0261	0.0271	0.0278
24	0.0046	0.0045	0.0056	0.0054	0.0056	0.0059	0.0062	0.0065	0.0065	0.0066	0.0065
25	0.0053	0.0057	0.0103	0.0135	0.0147	0.0178	0.0216	0.0224	0.0230	0.0241	0.0257
26	0.0047	0.0048	0.0054	0.0055	0.0056	0.0059	0.0063	0.0065	0.0066	0.0067	0.0065
27	0.0053	0.0067	0.0080	0.0130	0.0152	0.0167	0.0193	0.0200	0.0208	0.0236	0.0251
28	0.0044	0.0047	0.0049	0.0054	0.0058	0.0062	0.0065	0.0067	0.0072	0.0068	0.0070
29	0.0053	0.0054	0.0081	0.0125	0.0151	0.0154	0.0167	0.0177	0.0204	0.0226	0.0238
30	0.0043	0.0041	0.0048	0.0054	0.0058	0.0061	0.0067	0.0068	0.0071	0.0071	0.0072
31	0.0051	0.0054	0.0088	0.0116	0.0141	0.0122	0.0130	0.0153	0.0181	0.0198	0.0218
32	0.0042	0.0041	0.0044	0.0055	0.0059	0.0066	0.0070	0.0070	0.0074	0.0072	0.0075
33	0.0056	0.0064	0.0088	0.0112	0.0122	0.0106	0.0107	0.0134	0.0166	0.0183	0.0195
34	0.0036	0.0039	0.0042	0.0054	0.0061	0.0064	0.0069	0.0074	0.0076	0.0077	0.0077
35	0.0058	0.0060	0.0072	0.0099	0.0099	0.0085	0.0093	0.0126	0.0161	0.0176	0.0183
36	0.0031	0.0035	0.0040	0.0055	0.0061	0.0064	0.0068	0.0072	0.0075	0.0083	0.0082
37	0.0057	0.0054	0.0049	0.0078	0.0074	0.0067	0.0083	0.0110	0.0132	0.0153	0.0158
38	0.0028	0.0033	0.0038	0.0053	0.0059	0.0065	0.0068	0.0074	0.0077	0.0088	0.0085
39	0.0067	0.0063	0.0045	0.0067	0.0065	0.0068	0.0080	0.0111	0.0127	0.0148	0.0165
40	0.0031	0.0034	0.0037	0.0051	0.0056	0.0061	0.0069	0.0075	0.0080	0.0090	0.0089
Remark:											

<b>Harmonics-EA4.6KSI</b>											
<i>Oberschwingungen</i>											
<b>Active power</b> P/P <sub>n</sub> [%] <i>Wirkleistung P/P<sub>n</sub></i> [%]	0	10	20	30	40	50	60	70	80	90	100
<b>Harmonic number</b> <i>Ordnungszahl</i>	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2	0.0085	0.0103	0.0165	0.0192	0.0216	0.0219	0.0249	0.0290	0.0333	0.0373	0.0432
3	0.0760	0.0960	0.1506	0.1197	0.1179	0.1170	0.1269	0.1403	0.1597	0.1807	0.2119
4	0.0068	0.0071	0.0087	0.0079	0.0089	0.0077	0.0086	0.0116	0.0135	0.0138	0.0150
5	0.0549	0.0486	0.0687	0.0592	0.0603	0.0632	0.0680	0.0747	0.0839	0.0918	0.1010
6	0.0043	0.0053	0.0063	0.0064	0.0064	0.0066	0.0078	0.0096	0.0089	0.0086	0.0111
7	0.0455	0.0315	0.0452	0.0494	0.0476	0.0470	0.0472	0.0468	0.0482	0.0501	0.0555
8	0.0039	0.0047	0.0054	0.0059	0.0055	0.0057	0.0065	0.0073	0.0067	0.0089	0.0089
9	0.0305	0.0592	0.0237	0.0413	0.0425	0.0416	0.0414	0.0410	0.0408	0.0396	0.0419
10	0.0038	0.0051	0.0053	0.0056	0.0056	0.0059	0.0063	0.0064	0.0068	0.0068	0.0073
11	0.0218	0.0360	0.0195	0.0334	0.0373	0.0371	0.0365	0.0361	0.0376	0.0369	0.0367
12	0.0040	0.0049	0.0056	0.0051	0.0054	0.0055	0.0062	0.0060	0.0069	0.0068	0.0062
13	0.0164	0.0127	0.0251	0.0266	0.0325	0.0330	0.0333	0.0333	0.0348	0.0347	0.0337
14	0.0040	0.0049	0.0057	0.0054	0.0054	0.0056	0.0059	0.0060	0.0061	0.0067	0.0063
15	0.0121	0.0206	0.0281	0.0223	0.0288	0.0310	0.0326	0.0336	0.0344	0.0329	0.0340
16	0.0040	0.0049	0.0056	0.0053	0.0054	0.0056	0.0061	0.0062	0.0060	0.0063	0.0068
17	0.0088	0.0216	0.0232	0.0167	0.0245	0.0279	0.0308	0.0326	0.0329	0.0310	0.0318
18	0.0041	0.0050	0.0056	0.0053	0.0056	0.0056	0.0062	0.0063	0.0063	0.0066	0.0070
19	0.0061	0.0145	0.0174	0.0152	0.0222	0.0260	0.0289	0.0302	0.0304	0.0298	0.0302

20	0.0042	0.0051	0.0058	0.0056	0.0057	0.0059	0.0061	0.0062	0.0066	0.0066	0.0069
21	0.0045	0.0099	0.0118	0.0140	0.0192	0.0244	0.0284	0.0290	0.0289	0.0295	0.0305
22	0.0042	0.0050	0.0057	0.0055	0.0056	0.0058	0.0063	0.0065	0.0063	0.0065	0.0070
23	0.0042	0.0119	0.0110	0.0145	0.0176	0.0230	0.0256	0.0260	0.0269	0.0285	0.0291
24	0.0043	0.0049	0.0056	0.0055	0.0056	0.0060	0.0065	0.0066	0.0065	0.0068	0.0070
25	0.0046	0.0071	0.0116	0.0147	0.0161	0.0211	0.0226	0.0230	0.0254	0.0267	0.0279
26	0.0043	0.0047	0.0056	0.0057	0.0058	0.0062	0.0065	0.0064	0.0068	0.0069	0.0069
27	0.0045	0.0056	0.0117	0.0153	0.0153	0.0187	0.0201	0.0211	0.0242	0.0258	0.0265
28	0.0042	0.0044	0.0053	0.0057	0.0062	0.0069	0.0066	0.0067	0.0068	0.0071	0.0074
29	0.0049	0.0073	0.0102	0.0150	0.0148	0.0163	0.0177	0.0200	0.0229	0.0250	0.0258
30	0.0041	0.0044	0.0051	0.0057	0.0064	0.0070	0.0066	0.0067	0.0071	0.0077	0.0076
31	0.0049	0.0063	0.0086	0.0134	0.0130	0.0129	0.0150	0.0186	0.0209	0.0224	0.0238
32	0.0040	0.0042	0.0046	0.0057	0.0062	0.0065	0.0066	0.0069	0.0072	0.0079	0.0079
33	0.0055	0.0065	0.0078	0.0115	0.0109	0.0100	0.0133	0.0166	0.0188	0.0201	0.0223
34	0.0035	0.0039	0.0042	0.0058	0.0063	0.0067	0.0072	0.0074	0.0077	0.0083	0.0082
35	0.0059	0.0074	0.0076	0.0094	0.0088	0.0089	0.0127	0.0160	0.0179	0.0195	0.0209
36	0.0030	0.0036	0.0041	0.0057	0.0064	0.0066	0.0071	0.0075	0.0079	0.0083	0.0091
37	0.0059	0.0059	0.0061	0.0069	0.0070	0.0074	0.0111	0.0134	0.0148	0.0171	0.0183
38	0.0028	0.0036	0.0038	0.0057	0.0058	0.0065	0.0074	0.0075	0.0081	0.0089	0.0097
39	0.0071	0.0052	0.0053	0.0059	0.0066	0.0071	0.0108	0.0130	0.0149	0.0171	0.0187
40	0.0029	0.0034	0.0038	0.0053	0.0057	0.0066	0.0073	0.0080	0.0085	0.0095	0.0099

Remark:

<b>Harmonics-EA5KSI</b>											
<i>Oberschwingungen</i>											
<b>Active power</b> <b>P/P<sub>n</sub> [%]</b> <i>Wirkleistung P/P<sub>n</sub></i> <i>[%]</i>	0	10	20	30	40	50	60	70	80	90	100
<b>Harmonic number</b> <i>Ordnungszahl</i>	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2	0.0101	0.0181	0.0196	0.0247	0.0249	0.0259	0.0290	0.0379	0.0390	0.0459	0.0446
3	0.0878	0.1023	0.1544	0.1187	0.1178	0.1205	0.1338	0.1517	0.1747	0.1969	0.2236
4	0.0197	0.0088	0.0144	0.0097	0.0096	0.0101	0.0095	0.0131	0.0108	0.0152	0.0149
5	0.0597	0.0512	0.0712	0.0615	0.0607	0.0648	0.0706	0.0799	0.0904	0.0986	0.1068
6	0.0069	0.0082	0.0100	0.0083	0.0084	0.0086	0.0096	0.0109	0.0111	0.0107	0.0102
7	0.0475	0.0201	0.0504	0.0469	0.0466	0.0465	0.0463	0.0469	0.0495	0.0549	0.0571
8	0.0065	0.0062	0.0066	0.0068	0.0068	0.0070	0.0072	0.0088	0.0094	0.0083	0.0087
9	0.0333	0.0519	0.0310	0.0421	0.0417	0.0411	0.0403	0.0402	0.0404	0.0426	0.0420
10	0.0047	0.0089	0.0055	0.0059	0.0059	0.0062	0.0064	0.0073	0.0068	0.0067	0.0080
11	0.0235	0.0420	0.0202	0.0372	0.0367	0.0367	0.0358	0.0364	0.0375	0.0381	0.0358
12	0.0045	0.0060	0.0064	0.0061	0.0062	0.0065	0.0070	0.0074	0.0070	0.0074	0.0078
13	0.0178	0.0187	0.0209	0.0330	0.0326	0.0334	0.0331	0.0343	0.0354	0.0353	0.0337
14	0.0043	0.0070	0.0067	0.0062	0.0065	0.0067	0.0066	0.0064	0.0067	0.0068	0.0075
15	0.0135	0.0172	0.0248	0.0294	0.0293	0.0317	0.0325	0.0334	0.0331	0.0343	0.0332
16	0.0041	0.0072	0.0068	0.0059	0.0061	0.0061	0.0062	0.0062	0.0064	0.0069	0.0072

17	0.0095	0.0211	0.0233	0.0262	0.0259	0.0296	0.0318	0.0325	0.0315	0.0317	0.0319
18	0.0041	0.0056	0.0070	0.0059	0.0063	0.0063	0.0063	0.0060	0.0066	0.0074	0.0074
19	0.0070	0.0171	0.0204	0.0238	0.0237	0.0273	0.0297	0.0295	0.0299	0.0307	0.0311
20	0.0042	0.0052	0.0062	0.0061	0.0062	0.0065	0.0063	0.0063	0.0068	0.0070	0.0071
21	0.0049	0.0088	0.0148	0.0217	0.0218	0.0266	0.0286	0.0283	0.0296	0.0308	0.0307
22	0.0044	0.0057	0.0060	0.0058	0.0059	0.0059	0.0065	0.0067	0.0068	0.0070	0.0071
23	0.0042	0.0104	0.0118	0.0204	0.0206	0.0246	0.0257	0.0265	0.0284	0.0300	0.0305
24	0.0048	0.0058	0.0061	0.0060	0.0061	0.0065	0.0065	0.0067	0.0068	0.0071	0.0071
25	0.0041	0.0089	0.0114	0.0185	0.0182	0.0217	0.0219	0.0240	0.0262	0.0273	0.0289
26	0.0047	0.0051	0.0057	0.0060	0.0061	0.0066	0.0066	0.0070	0.0069	0.0072	0.0072
27	0.0042	0.0060	0.0123	0.0164	0.0165	0.0196	0.0201	0.0234	0.0258	0.0266	0.0281
28	0.0045	0.0047	0.0055	0.0062	0.0063	0.0065	0.0067	0.0069	0.0071	0.0074	0.0076
29	0.0046	0.0071	0.0124	0.0149	0.0148	0.0162	0.0194	0.0223	0.0240	0.0266	0.0274
30	0.0043	0.0046	0.0053	0.0063	0.0066	0.0071	0.0074	0.0075	0.0074	0.0077	0.0078
31	0.0050	0.0076	0.0105	0.0116	0.0119	0.0130	0.0170	0.0203	0.0217	0.0238	0.0258
32	0.0042	0.0046	0.0052	0.0065	0.0066	0.0066	0.0073	0.0077	0.0076	0.0080	0.0084
33	0.0056	0.0064	0.0083	0.0097	0.0098	0.0115	0.0153	0.0179	0.0199	0.0216	0.0239
34	0.0034	0.0042	0.0049	0.0066	0.0064	0.0070	0.0077	0.0079	0.0081	0.0083	0.0087
35	0.0060	0.0062	0.0064	0.0081	0.0082	0.0103	0.0151	0.0170	0.0192	0.0210	0.0226
36	0.0030	0.0038	0.0048	0.0063	0.0063	0.0069	0.0073	0.0080	0.0086	0.0086	0.0096
37	0.0059	0.0058	0.0046	0.0068	0.0067	0.0088	0.0123	0.0147	0.0168	0.0182	0.0203
38	0.0029	0.0040	0.0041	0.0064	0.0063	0.0069	0.0077	0.0086	0.0095	0.0091	0.0108
39	0.0066	0.0052	0.0041	0.0069	0.0067	0.0093	0.0121	0.0139	0.0164	0.0181	0.0210
40	0.0031	0.0040	0.0037	0.0063	0.0061	0.0068	0.0079	0.0087	0.0094	0.0094	0.0113

Remark:

<b>Harmonics-EA6KSI</b>											
<i>Oberschwingungen</i>											
<b>Active power</b> P/P <sub>n</sub> [%] <i>Wirkleistung P/P<sub>n</sub></i> [%]	0	10	20	30	40	50	60	70	80	90	100
<b>Harmonic number</b> <i>Ordnungszahl</i>	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2	0.0093	0.0118	0.0177	0.0242	0.0232	0.0281	0.0296	0.0365	0.0377	0.0499	0.0560
3	0.0666	0.1217	0.1201	0.1254	0.1280	0.1451	0.1645	0.1865	0.2137	0.2519	0.2970
4	0.0059	0.0066	0.0075	0.0123	0.0098	0.0111	0.0098	0.0147	0.0133	0.0160	0.0166
5	0.0521	0.0551	0.0601	0.0618	0.0642	0.0712	0.0814	0.0915	0.1015	0.1166	0.1396
6	0.0043	0.0051	0.0062	0.0064	0.0079	0.0092	0.0079	0.0104	0.0102	0.0122	0.0120
7	0.0427	0.0119	0.0499	0.0476	0.0459	0.0449	0.0458	0.0487	0.0553	0.0623	0.0698
8	0.0039	0.0049	0.0053	0.0060	0.0067	0.0075	0.0069	0.0085	0.0097	0.0086	0.0092
9	0.0269	0.0344	0.0387	0.0426	0.0409	0.0390	0.0380	0.0376	0.0405	0.0431	0.0464
10	0.0040	0.0049	0.0053	0.0058	0.0064	0.0064	0.0063	0.0068	0.0081	0.0085	0.0084
11	0.0197	0.0427	0.0294	0.0369	0.0362	0.0348	0.0345	0.0348	0.0354	0.0363	0.0379
12	0.0041	0.0050	0.0052	0.0053	0.0059	0.0060	0.0064	0.0075	0.0079	0.0075	0.0074
13	0.0140	0.0320	0.0218	0.0321	0.0328	0.0315	0.0313	0.0333	0.0334	0.0331	0.0332
14	0.0040	0.0051	0.0052	0.0054	0.0057	0.0058	0.0063	0.0069	0.0072	0.0070	0.0073

15	0.0103	0.0161	0.0179	0.0288	0.0306	0.0310	0.0318	0.0321	0.0320	0.0325	0.0324
16	0.0040	0.0053	0.0052	0.0055	0.0057	0.0061	0.0060	0.0068	0.0072	0.0070	0.0069
17	0.0070	0.0159	0.0151	0.0240	0.0276	0.0293	0.0306	0.0303	0.0306	0.0308	0.0316
18	0.0039	0.0051	0.0052	0.0055	0.0057	0.0062	0.0060	0.0064	0.0070	0.0067	0.0069
19	0.0050	0.0192	0.0155	0.0220	0.0258	0.0282	0.0296	0.0281	0.0290	0.0299	0.0303
20	0.0041	0.0051	0.0055	0.0058	0.0060	0.0063	0.0062	0.0067	0.0069	0.0071	0.0067
21	0.0044	0.0133	0.0161	0.0199	0.0241	0.0276	0.0280	0.0282	0.0293	0.0302	0.0308
22	0.0041	0.0052	0.0053	0.0055	0.0059	0.0061	0.0064	0.0069	0.0067	0.0070	0.0070
23	0.0045	0.0081	0.0157	0.0177	0.0234	0.0259	0.0258	0.0271	0.0290	0.0297	0.0303
24	0.0044	0.0054	0.0052	0.0055	0.0061	0.0064	0.0069	0.0070	0.0072	0.0072	0.0075
25	0.0057	0.0090	0.0147	0.0167	0.0212	0.0233	0.0233	0.0258	0.0279	0.0292	0.0296
26	0.0044	0.0052	0.0053	0.0057	0.0062	0.0066	0.0066	0.0068	0.0069	0.0075	0.0072
27	0.0057	0.0100	0.0142	0.0153	0.0199	0.0210	0.0218	0.0245	0.0264	0.0281	0.0291
28	0.0042	0.0049	0.0053	0.0061	0.0065	0.0071	0.0068	0.0073	0.0074	0.0079	0.0076
29	0.0063	0.0080	0.0132	0.0138	0.0177	0.0186	0.0213	0.0242	0.0264	0.0283	0.0286
30	0.0040	0.0045	0.0056	0.0061	0.0068	0.0069	0.0072	0.0075	0.0076	0.0084	0.0077
31	0.0062	0.0071	0.0116	0.0116	0.0146	0.0163	0.0197	0.0231	0.0249	0.0270	0.0273
32	0.0037	0.0043	0.0055	0.0060	0.0068	0.0071	0.0074	0.0080	0.0081	0.0087	0.0081
33	0.0065	0.0078	0.0101	0.0092	0.0121	0.0141	0.0183	0.0199	0.0223	0.0241	0.0256
34	0.0033	0.0039	0.0056	0.0062	0.0070	0.0070	0.0076	0.0079	0.0086	0.0088	0.0084
35	0.0065	0.0070	0.0083	0.0077	0.0101	0.0137	0.0171	0.0191	0.0215	0.0230	0.0242
36	0.0031	0.0038	0.0056	0.0057	0.0066	0.0073	0.0079	0.0082	0.0086	0.0097	0.0090
37	0.0057	0.0045	0.0062	0.0062	0.0079	0.0122	0.0150	0.0170	0.0198	0.0215	0.0215
38	0.0029	0.0034	0.0054	0.0055	0.0066	0.0076	0.0083	0.0093	0.0094	0.0104	0.0095
39	0.0063	0.0039	0.0056	0.0061	0.0081	0.0120	0.0152	0.0171	0.0189	0.0222	0.0225
40	0.0033	0.0034	0.0052	0.0054	0.0065	0.0077	0.0085	0.0095	0.0098	0.0112	0.0102

Remark:

<b>Intern-harmonics-EA2KSI</b>											
<i>Oberschwingungen</i>											
<b>Active power</b> P/P <sub>n</sub> [%] <i>Wirkleistung</i> P/P <sub>n</sub> [%]	0	10	20	30	40	50	60	70	80	90	100
<b>Harmonic number</b> <i>Ordnungszahl</i>	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
75	0.0223	0.0228	0.0322	0.0430	0.0502	0.0584	0.0720	0.0785	0.0858	0.0964	0.1062
125	0.0100	0.0097	0.0134	0.0194	0.0244	0.0284	0.0316	0.0342	0.0372	0.0407	0.0443
175	0.0086	0.0089	0.0100	0.0121	0.0123	0.0130	0.0152	0.0169	0.0185	0.0213	0.0236
225	0.0083	0.0081	0.0085	0.0097	0.0119	0.0150	0.0174	0.0192	0.0211	0.0228	0.0246
275	0.0084	0.0064	0.0083	0.0090	0.0099	0.0102	0.0103	0.0110	0.0113	0.0122	0.0130
325	0.0081	0.0079	0.0101	0.0107	0.0105	0.0120	0.0141	0.0160	0.0170	0.0183	0.0193
375	0.0081	0.0079	0.0091	0.0097	0.0102	0.0109	0.0109	0.0110	0.0111	0.0117	0.0121
425	0.0068	0.0064	0.0086	0.0101	0.0097	0.0094	0.0108	0.0125	0.0135	0.0145	0.0156
475	0.0067	0.0061	0.0077	0.0084	0.0084	0.0090	0.0092	0.0093	0.0097	0.0096	0.0097
525	0.0064	0.0056	0.0071	0.0093	0.0098	0.0094	0.0094	0.0103	0.0115	0.0125	0.0131

575	0.0066	0.0055	0.0071	0.0080	0.0081	0.0085	0.0085	0.0086	0.0090	0.0088	0.0091
625	0.0064	0.0055	0.0078	0.0081	0.0096	0.0097	0.0090	0.0094	0.0102	0.0109	0.0119
675	0.0066	0.0054	0.0072	0.0082	0.0084	0.0085	0.0083	0.0084	0.0088	0.0087	0.0088
725	0.0065	0.0055	0.0077	0.0082	0.0089	0.0099	0.0089	0.0092	0.0097	0.0103	0.0109
775	0.0065	0.0053	0.0073	0.0081	0.0085	0.0087	0.0081	0.0085	0.0087	0.0087	0.0088
825	0.0066	0.0054	0.0072	0.0085	0.0085	0.0095	0.0089	0.0091	0.0093	0.0098	0.0102
875	0.0065	0.0055	0.0073	0.0081	0.0083	0.0089	0.0080	0.0084	0.0085	0.0087	0.0086
925	0.0066	0.0054	0.0073	0.0085	0.0083	0.0091	0.0089	0.0091	0.0093	0.0096	0.0098
975	0.0067	0.0055	0.0072	0.0083	0.0083	0.0090	0.0081	0.0084	0.0086	0.0087	0.0088
1025	0.0066	0.0056	0.0073	0.0082	0.0086	0.0088	0.0087	0.0091	0.0091	0.0092	0.0095
1075	0.0067	0.0055	0.0072	0.0082	0.0084	0.0090	0.0085	0.0085	0.0085	0.0088	0.0088
1125	0.0065	0.0054	0.0072	0.0081	0.0085	0.0089	0.0085	0.0089	0.0091	0.0093	0.0094
1175	0.0064	0.0053	0.0070	0.0080	0.0082	0.0087	0.0084	0.0084	0.0086	0.0089	0.0092
1225	0.0063	0.0053	0.0070	0.0082	0.0082	0.0086	0.0084	0.0087	0.0089	0.0091	0.0094
1275	0.0064	0.0052	0.0068	0.0079	0.0079	0.0084	0.0084	0.0085	0.0086	0.0090	0.0092
1325	0.0062	0.0052	0.0066	0.0078	0.0078	0.0084	0.0085	0.0086	0.0090	0.0090	0.0094
1375	0.0062	0.0051	0.0066	0.0075	0.0076	0.0081	0.0082	0.0086	0.0087	0.0090	0.0092
1425	0.0060	0.0050	0.0066	0.0074	0.0074	0.0081	0.0083	0.0087	0.0090	0.0092	0.0093
1475	0.0059	0.0050	0.0063	0.0072	0.0072	0.0077	0.0084	0.0086	0.0088	0.0092	0.0092
1525	0.0058	0.0049	0.0062	0.0070	0.0069	0.0074	0.0084	0.0087	0.0090	0.0093	0.0095
1575	0.0056	0.0048	0.0061	0.0067	0.0067	0.0073	0.0083	0.0088	0.0088	0.0092	0.0093
1625	0.0054	0.0047	0.0059	0.0066	0.0066	0.0070	0.0084	0.0087	0.0090	0.0092	0.0095
1675	0.0052	0.0046	0.0057	0.0063	0.0063	0.0068	0.0083	0.0084	0.0088	0.0090	0.0093
1725	0.0051	0.0044	0.0057	0.0061	0.0062	0.0066	0.0082	0.0085	0.0088	0.0091	0.0094
1775	0.0049	0.0043	0.0054	0.0059	0.0060	0.0063	0.0082	0.0083	0.0087	0.0088	0.0092
1825	0.0048	0.0043	0.0052	0.0057	0.0057	0.0061	0.0081	0.0084	0.0087	0.0088	0.0093
1875	0.0049	0.0044	0.0050	0.0055	0.0054	0.0058	0.0079	0.0081	0.0085	0.0088	0.0092
1925	0.0047	0.0043	0.0049	0.0052	0.0054	0.0056	0.0080	0.0082	0.0084	0.0090	0.0091
1975	0.0047	0.0043	0.0048	0.0050	0.0051	0.0054	0.0078	0.0079	0.0083	0.0087	0.0091

Remark:

<b>Intern-harmonics-EA2.5KSI</b>											
<i>Oberschwingungen</i>											
<b>Active power</b> P/P <sub>n</sub> [%] <i>Wirkleistung</i> P/P <sub>n</sub> [%]	0	10	20	30	40	50	60	70	80	90	100
<b>Harmonic number</b> <i>Ordnungszahl</i>	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
75	0.0262	0.0271	0.0336	0.0486	0.0576	0.0712	0.0836	0.0930	0.1066	0.1159	0.1289
125	0.0102	0.0106	0.0157	0.0233	0.0284	0.0330	0.0374	0.0397	0.0447	0.0474	0.0523
175	0.0093	0.0096	0.0102	0.0116	0.0128	0.0149	0.0176	0.0205	0.0233	0.0249	0.0286
225	0.0084	0.0086	0.0088	0.0111	0.0148	0.0178	0.0200	0.0224	0.0240	0.0261	0.0285
275	0.0083	0.0082	0.0085	0.0095	0.0102	0.0103	0.0112	0.0116	0.0137	0.0145	0.0160
325	0.0083	0.0088	0.0107	0.0105	0.0119	0.0143	0.0162	0.0178	0.0200	0.0209	0.0222
375	0.0080	0.0087	0.0095	0.0100	0.0111	0.0110	0.0114	0.0113	0.0120	0.0130	0.0138

425	0.0066	0.0069	0.0095	0.0102	0.0098	0.0113	0.0129	0.0142	0.0155	0.0167	0.0179
475	0.0069	0.0066	0.0081	0.0085	0.0093	0.0094	0.0096	0.0092	0.0098	0.0102	0.0107
525	0.0065	0.0069	0.0082	0.0099	0.0096	0.0096	0.0110	0.0119	0.0132	0.0144	0.0154
575	0.0064	0.0061	0.0079	0.0082	0.0086	0.0085	0.0087	0.0088	0.0093	0.0093	0.0094
625	0.0065	0.0063	0.0077	0.0092	0.0097	0.0091	0.0100	0.0109	0.0121	0.0131	0.0136
675	0.0065	0.0060	0.0077	0.0084	0.0085	0.0083	0.0084	0.0085	0.0087	0.0092	0.0092
725	0.0065	0.0062	0.0083	0.0086	0.0099	0.0090	0.0093	0.0102	0.0109	0.0119	0.0125
775	0.0067	0.0060	0.0077	0.0084	0.0087	0.0082	0.0083	0.0084	0.0087	0.0091	0.0091
825	0.0066	0.0061	0.0080	0.0084	0.0095	0.0089	0.0090	0.0094	0.0102	0.0111	0.0118
875	0.0066	0.0061	0.0077	0.0081	0.0088	0.0081	0.0084	0.0086	0.0090	0.0092	0.0091
925	0.0066	0.0061	0.0077	0.0085	0.0091	0.0088	0.0091	0.0092	0.0097	0.0105	0.0108
975	0.0066	0.0060	0.0077	0.0083	0.0087	0.0083	0.0085	0.0086	0.0089	0.0092	0.0093
1025	0.0066	0.0060	0.0077	0.0086	0.0088	0.0088	0.0089	0.0091	0.0096	0.0101	0.0105
1075	0.0066	0.0061	0.0076	0.0084	0.0087	0.0083	0.0084	0.0088	0.0089	0.0092	0.0094
1125	0.0065	0.0061	0.0077	0.0084	0.0087	0.0088	0.0089	0.0091	0.0093	0.0097	0.0103
1175	0.0065	0.0060	0.0077	0.0084	0.0086	0.0085	0.0086	0.0089	0.0091	0.0092	0.0096
1225	0.0064	0.0060	0.0077	0.0082	0.0087	0.0087	0.0090	0.0092	0.0094	0.0098	0.0103
1275	0.0064	0.0060	0.0073	0.0082	0.0084	0.0085	0.0087	0.0091	0.0091	0.0095	0.0098
1325	0.0063	0.0058	0.0072	0.0078	0.0083	0.0085	0.0088	0.0094	0.0094	0.0098	0.0102
1375	0.0062	0.0059	0.0071	0.0077	0.0081	0.0084	0.0087	0.0091	0.0091	0.0095	0.0101
1425	0.0059	0.0057	0.0069	0.0075	0.0080	0.0083	0.0090	0.0092	0.0095	0.0097	0.0104
1475	0.0058	0.0055	0.0068	0.0074	0.0076	0.0084	0.0087	0.0089	0.0094	0.0096	0.0102
1525	0.0056	0.0054	0.0066	0.0071	0.0076	0.0085	0.0088	0.0091	0.0095	0.0098	0.0104
1575	0.0056	0.0053	0.0063	0.0069	0.0073	0.0084	0.0088	0.0090	0.0092	0.0097	0.0102
1625	0.0054	0.0051	0.0062	0.0067	0.0069	0.0084	0.0087	0.0088	0.0095	0.0100	0.0104
1675	0.0053	0.0050	0.0060	0.0064	0.0066	0.0082	0.0086	0.0089	0.0093	0.0098	0.0101
1725	0.0051	0.0048	0.0058	0.0062	0.0064	0.0082	0.0087	0.0090	0.0093	0.0099	0.0104
1775	0.0049	0.0047	0.0056	0.0059	0.0061	0.0081	0.0085	0.0088	0.0093	0.0098	0.0102
1825	0.0049	0.0046	0.0054	0.0057	0.0060	0.0081	0.0086	0.0088	0.0094	0.0098	0.0104
1875	0.0046	0.0045	0.0052	0.0055	0.0058	0.0080	0.0082	0.0087	0.0094	0.0099	0.0103
1925	0.0045	0.0045	0.0050	0.0053	0.0056	0.0080	0.0083	0.0087	0.0093	0.0098	0.0104
1975	0.0044	0.0042	0.0048	0.0051	0.0054	0.0077	0.0081	0.0085	0.0093	0.0097	0.0102

Remark:

<b>Intern-harmonics-EA3KSI</b>											
<i>Oberschwingungen</i>											
<b>Active power</b> P/P <sub>n</sub> [%] <i>Wirkleistung</i> P/P <sub>n</sub> [%]	0	10	20	30	40	50	60	70	80	90	100
<b>Harmonic number</b> <i>Ordnungszahl</i>	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
75	0.0248	0.0291	0.0419	0.0504	0.0691	0.0803	0.0915	0.1039	0.1171	0.1305	0.1430
125	0.0105	0.0125	0.0195	0.0262	0.0319	0.0353	0.0395	0.0442	0.0490	0.0543	0.0568
175	0.0087	0.0097	0.0110	0.0120	0.0149	0.0179	0.0206	0.0243	0.0278	0.0311	0.0323
225	0.0082	0.0090	0.0093	0.0129	0.0172	0.0198	0.0223	0.0248	0.0276	0.0295	0.0312

275	0.0080	0.0077	0.0085	0.0097	0.0103	0.0112	0.0120	0.0134	0.0156	0.0171	0.0181
325	0.0083	0.0093	0.0106	0.0105	0.0137	0.0162	0.0180	0.0196	0.0216	0.0232	0.0244
375	0.0083	0.0084	0.0096	0.0106	0.0109	0.0110	0.0117	0.0124	0.0131	0.0140	0.0147
425	0.0068	0.0070	0.0100	0.0094	0.0106	0.0128	0.0144	0.0156	0.0170	0.0183	0.0193
475	0.0068	0.0071	0.0083	0.0086	0.0091	0.0092	0.0096	0.0096	0.0104	0.0109	0.0109
525	0.0065	0.0070	0.0091	0.0095	0.0094	0.0107	0.0123	0.0134	0.0148	0.0159	0.0165
575	0.0065	0.0066	0.0080	0.0080	0.0084	0.0086	0.0091	0.0089	0.0094	0.0098	0.0099
625	0.0065	0.0069	0.0080	0.0097	0.0090	0.0096	0.0111	0.0122	0.0135	0.0143	0.0148
675	0.0065	0.0066	0.0081	0.0083	0.0082	0.0086	0.0090	0.0089	0.0090	0.0092	0.0093
725	0.0066	0.0066	0.0080	0.0094	0.0089	0.0093	0.0104	0.0111	0.0123	0.0130	0.0134
775	0.0066	0.0066	0.0079	0.0086	0.0082	0.0084	0.0092	0.0089	0.0090	0.0093	0.0095
825	0.0065	0.0069	0.0085	0.0090	0.0090	0.0093	0.0102	0.0107	0.0112	0.0119	0.0124
875	0.0066	0.0067	0.0081	0.0089	0.0084	0.0089	0.0092	0.0093	0.0091	0.0095	0.0095
925	0.0065	0.0068	0.0086	0.0090	0.0092	0.0094	0.0099	0.0103	0.0108	0.0116	0.0118
975	0.0065	0.0068	0.0086	0.0091	0.0088	0.0089	0.0091	0.0094	0.0093	0.0094	0.0097
1025	0.0064	0.0067	0.0084	0.0091	0.0091	0.0093	0.0094	0.0099	0.0106	0.0110	0.0114
1075	0.0065	0.0067	0.0084	0.0088	0.0087	0.0086	0.0089	0.0091	0.0093	0.0097	0.0098
1125	0.0064	0.0066	0.0084	0.0087	0.0088	0.0090	0.0092	0.0096	0.0102	0.0108	0.0110
1175	0.0064	0.0065	0.0081	0.0085	0.0085	0.0085	0.0088	0.0090	0.0096	0.0100	0.0099
1225	0.0063	0.0064	0.0080	0.0084	0.0084	0.0088	0.0092	0.0096	0.0102	0.0106	0.0107
1275	0.0062	0.0063	0.0079	0.0083	0.0085	0.0088	0.0089	0.0092	0.0096	0.0101	0.0100
1325	0.0062	0.0063	0.0078	0.0080	0.0085	0.0086	0.0093	0.0095	0.0100	0.0106	0.0105
1375	0.0061	0.0061	0.0075	0.0078	0.0084	0.0086	0.0090	0.0092	0.0098	0.0103	0.0102
1425	0.0060	0.0060	0.0074	0.0077	0.0084	0.0090	0.0092	0.0095	0.0102	0.0105	0.0105
1475	0.0058	0.0059	0.0072	0.0075	0.0083	0.0086	0.0090	0.0093	0.0098	0.0103	0.0104
1525	0.0057	0.0057	0.0069	0.0073	0.0084	0.0089	0.0093	0.0095	0.0101	0.0105	0.0107
1575	0.0054	0.0055	0.0067	0.0070	0.0084	0.0087	0.0091	0.0095	0.0099	0.0106	0.0106
1625	0.0054	0.0055	0.0064	0.0069	0.0084	0.0087	0.0092	0.0097	0.0102	0.0105	0.0108
1675	0.0052	0.0053	0.0061	0.0065	0.0083	0.0086	0.0091	0.0095	0.0100	0.0106	0.0108
1725	0.0050	0.0052	0.0061	0.0064	0.0084	0.0088	0.0093	0.0098	0.0102	0.0108	0.0110
1775	0.0049	0.0050	0.0058	0.0062	0.0084	0.0089	0.0093	0.0098	0.0101	0.0108	0.0110
1825	0.0047	0.0048	0.0057	0.0060	0.0086	0.0090	0.0095	0.0100	0.0104	0.0110	0.0111
1875	0.0046	0.0048	0.0054	0.0058	0.0083	0.0090	0.0092	0.0101	0.0104	0.0111	0.0111
1925	0.0045	0.0045	0.0053	0.0056	0.0083	0.0090	0.0094	0.0100	0.0103	0.0110	0.0112
1975	0.0043	0.0044	0.0050	0.0053	0.0080	0.0085	0.0095	0.0099	0.0103	0.0112	0.0113
Remark:											

<b>Intern-harmonics-EA3KSI-D</b>											
<i>Oberschwingungen</i>											
<b>Active power</b> P/P <sub>n</sub> [%] <i>Wirkleistung</i> P/P <sub>n</sub> [%]	0	10	20	30	40	50	60	70	80	90	100
<b>Harmonic number</b> <i>Ordnungszahl</i>	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
75	0.0244	0.0301	0.0407	0.0564	0.0691	0.0831	0.0980	0.1098	0.1256	0.1401	0.1534

125	0.0099	0.0122	0.0187	0.0263	0.0325	0.0364	0.0413	0.0451	0.0508	0.0558	0.0610
175	0.0083	0.0106	0.0120	0.0129	0.0147	0.0183	0.0215	0.0241	0.0281	0.0312	0.0344
225	0.0079	0.0098	0.0098	0.0141	0.0174	0.0201	0.0230	0.0253	0.0279	0.0298	0.0326
275	0.0074	0.0078	0.0093	0.0096	0.0096	0.0110	0.0123	0.0137	0.0165	0.0172	0.0188
325	0.0078	0.0104	0.0110	0.0106	0.0137	0.0164	0.0181	0.0196	0.0219	0.0233	0.0251
375	0.0077	0.0091	0.0093	0.0102	0.0100	0.0104	0.0116	0.0123	0.0139	0.0145	0.0154
425	0.0066	0.0076	0.0106	0.0093	0.0107	0.0128	0.0148	0.0159	0.0177	0.0187	0.0198
475	0.0066	0.0080	0.0084	0.0087	0.0089	0.0093	0.0095	0.0100	0.0108	0.0110	0.0115
525	0.0065	0.0081	0.0093	0.0093	0.0092	0.0108	0.0126	0.0137	0.0153	0.0160	0.0170
575	0.0064	0.0075	0.0084	0.0081	0.0084	0.0085	0.0090	0.0090	0.0094	0.0098	0.0102
625	0.0064	0.0078	0.0081	0.0097	0.0088	0.0099	0.0114	0.0124	0.0137	0.0145	0.0153
675	0.0063	0.0077	0.0081	0.0083	0.0081	0.0083	0.0087	0.0090	0.0092	0.0093	0.0095
725	0.0064	0.0074	0.0082	0.0094	0.0088	0.0092	0.0103	0.0114	0.0125	0.0134	0.0139
775	0.0064	0.0074	0.0080	0.0085	0.0082	0.0083	0.0088	0.0089	0.0093	0.0093	0.0094
825	0.0064	0.0077	0.0086	0.0089	0.0090	0.0091	0.0099	0.0107	0.0116	0.0122	0.0129
875	0.0065	0.0075	0.0083	0.0086	0.0082	0.0083	0.0086	0.0090	0.0095	0.0095	0.0095
925	0.0066	0.0078	0.0087	0.0088	0.0089	0.0089	0.0094	0.0101	0.0110	0.0115	0.0119
975	0.0065	0.0078	0.0085	0.0085	0.0082	0.0082	0.0088	0.0089	0.0095	0.0094	0.0098
1025	0.0065	0.0075	0.0084	0.0085	0.0086	0.0088	0.0094	0.0099	0.0106	0.0109	0.0117
1075	0.0064	0.0076	0.0081	0.0085	0.0083	0.0084	0.0087	0.0090	0.0095	0.0098	0.0098
1125	0.0064	0.0075	0.0081	0.0085	0.0085	0.0088	0.0091	0.0097	0.0104	0.0108	0.0114
1175	0.0063	0.0074	0.0079	0.0083	0.0082	0.0083	0.0088	0.0090	0.0095	0.0098	0.0103
1225	0.0062	0.0072	0.0081	0.0083	0.0084	0.0088	0.0090	0.0096	0.0101	0.0107	0.0114
1275	0.0061	0.0073	0.0078	0.0082	0.0082	0.0086	0.0088	0.0091	0.0096	0.0102	0.0104
1325	0.0060	0.0070	0.0076	0.0080	0.0083	0.0087	0.0091	0.0094	0.0100	0.0107	0.0112
1375	0.0059	0.0069	0.0075	0.0079	0.0084	0.0085	0.0089	0.0093	0.0097	0.0104	0.0109
1425	0.0059	0.0067	0.0074	0.0076	0.0083	0.0088	0.0094	0.0097	0.0101	0.0108	0.0110
1475	0.0057	0.0065	0.0071	0.0074	0.0083	0.0084	0.0091	0.0095	0.0099	0.0105	0.0108
1525	0.0056	0.0064	0.0068	0.0073	0.0083	0.0085	0.0094	0.0097	0.0102	0.0107	0.0110
1575	0.0055	0.0062	0.0067	0.0071	0.0083	0.0084	0.0092	0.0095	0.0102	0.0105	0.0108
1625	0.0053	0.0060	0.0065	0.0068	0.0084	0.0086	0.0093	0.0098	0.0102	0.0107	0.0111
1675	0.0050	0.0057	0.0061	0.0065	0.0082	0.0084	0.0091	0.0094	0.0102	0.0107	0.0113
1725	0.0049	0.0055	0.0060	0.0062	0.0084	0.0084	0.0091	0.0099	0.0105	0.0108	0.0112
1775	0.0047	0.0054	0.0057	0.0060	0.0082	0.0083	0.0089	0.0096	0.0104	0.0107	0.0112
1825	0.0047	0.0053	0.0056	0.0059	0.0082	0.0082	0.0091	0.0098	0.0105	0.0108	0.0112
1875	0.0047	0.0052	0.0055	0.0057	0.0079	0.0082	0.0088	0.0096	0.0109	0.0110	0.0114
1925	0.0047	0.0051	0.0054	0.0056	0.0078	0.0082	0.0088	0.0099	0.0104	0.0115	0.0113
1975	0.0047	0.0051	0.0054	0.0054	0.0076	0.0080	0.0089	0.0098	0.0104	0.0110	0.0117

Remark:

<b>Intern-harmonics-EA3.68KSI</b>											
<i>Oberschwingungen</i>											
<b>Active power</b> <b>P/P<sub>n</sub> [%]</b> <i>Wirkleistung</i> <i>P/P<sub>n</sub> [%]</i>	0	10	20	30	40	50	60	70	80	90	100



Harmonic number <i>Ordnungszahl</i>	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
75	0.0256	0.0317	0.0465	0.0614	0.0804	0.1119	0.1122	0.1291	0.1463	0.1631	0.1757
125	0.0105	0.0135	0.0226	0.0300	0.0354	0.0462	0.0463	0.0523	0.0593	0.0637	0.0700
175	0.0089	0.0096	0.0116	0.0136	0.0175	0.0250	0.0252	0.0292	0.0330	0.0363	0.0408
225	0.0079	0.0086	0.0110	0.0164	0.0197	0.0256	0.0257	0.0287	0.0318	0.0340	0.0375
275	0.0077	0.0083	0.0094	0.0101	0.0106	0.0148	0.0150	0.0169	0.0191	0.0200	0.0234
325	0.0082	0.0099	0.0105	0.0128	0.0159	0.0204	0.0205	0.0227	0.0250	0.0261	0.0292
375	0.0083	0.0086	0.0099	0.0108	0.0109	0.0132	0.0131	0.0137	0.0159	0.0168	0.0192
425	0.0068	0.0077	0.0101	0.0101	0.0125	0.0164	0.0164	0.0178	0.0197	0.0210	0.0232
475	0.0069	0.0075	0.0083	0.0092	0.0092	0.0106	0.0101	0.0107	0.0115	0.0125	0.0143
525	0.0065	0.0070	0.0097	0.0093	0.0106	0.0142	0.0140	0.0152	0.0168	0.0176	0.0196
575	0.0065	0.0068	0.0083	0.0085	0.0087	0.0095	0.0092	0.0098	0.0101	0.0104	0.0120
625	0.0066	0.0074	0.0090	0.0095	0.0098	0.0129	0.0125	0.0139	0.0149	0.0157	0.0171
675	0.0065	0.0070	0.0083	0.0086	0.0086	0.0092	0.0093	0.0094	0.0098	0.0100	0.0107
725	0.0065	0.0072	0.0084	0.0097	0.0095	0.0121	0.0117	0.0128	0.0137	0.0144	0.0155
775	0.0065	0.0071	0.0084	0.0089	0.0086	0.0091	0.0093	0.0094	0.0098	0.0097	0.0103
825	0.0066	0.0070	0.0085	0.0101	0.0092	0.0112	0.0111	0.0121	0.0130	0.0134	0.0146
875	0.0065	0.0070	0.0085	0.0092	0.0086	0.0092	0.0095	0.0097	0.0099	0.0099	0.0104
925	0.0065	0.0074	0.0090	0.0099	0.0092	0.0105	0.0105	0.0114	0.0124	0.0128	0.0138
975	0.0065	0.0074	0.0088	0.0092	0.0085	0.0091	0.0093	0.0098	0.0101	0.0100	0.0107
1025	0.0065	0.0074	0.0092	0.0094	0.0089	0.0098	0.0100	0.0108	0.0118	0.0123	0.0132
1075	0.0064	0.0073	0.0087	0.0091	0.0086	0.0093	0.0092	0.0096	0.0102	0.0101	0.0109
1125	0.0065	0.0072	0.0085	0.0089	0.0090	0.0098	0.0099	0.0106	0.0114	0.0117	0.0125
1175	0.0064	0.0069	0.0082	0.0087	0.0086	0.0094	0.0093	0.0096	0.0103	0.0105	0.0110
1225	0.0062	0.0069	0.0081	0.0090	0.0088	0.0097	0.0097	0.0103	0.0110	0.0115	0.0124
1275	0.0061	0.0067	0.0080	0.0086	0.0086	0.0094	0.0093	0.0096	0.0103	0.0108	0.0110
1325	0.0061	0.0068	0.0080	0.0084	0.0089	0.0097	0.0098	0.0103	0.0109	0.0114	0.0120
1375	0.0060	0.0065	0.0076	0.0083	0.0086	0.0094	0.0094	0.0098	0.0104	0.0109	0.0113
1425	0.0058	0.0063	0.0075	0.0081	0.0087	0.0098	0.0098	0.0102	0.0107	0.0114	0.0121
1475	0.0056	0.0062	0.0073	0.0078	0.0088	0.0097	0.0096	0.0100	0.0106	0.0111	0.0115
1525	0.0056	0.0061	0.0070	0.0077	0.0087	0.0097	0.0100	0.0102	0.0108	0.0114	0.0121
1575	0.0055	0.0059	0.0068	0.0074	0.0087	0.0097	0.0097	0.0103	0.0108	0.0114	0.0117
1625	0.0054	0.0058	0.0067	0.0072	0.0088	0.0101	0.0100	0.0104	0.0111	0.0115	0.0120
1675	0.0051	0.0055	0.0063	0.0069	0.0086	0.0098	0.0099	0.0105	0.0110	0.0114	0.0120
1725	0.0050	0.0055	0.0062	0.0068	0.0088	0.0100	0.0101	0.0107	0.0114	0.0115	0.0121
1775	0.0048	0.0053	0.0060	0.0065	0.0086	0.0100	0.0101	0.0110	0.0115	0.0118	0.0123
1825	0.0047	0.0052	0.0060	0.0064	0.0089	0.0101	0.0102	0.0110	0.0118	0.0118	0.0124
1875	0.0046	0.0050	0.0058	0.0061	0.0086	0.0103	0.0104	0.0114	0.0118	0.0120	0.0130
1925	0.0044	0.0049	0.0056	0.0060	0.0088	0.0103	0.0102	0.0114	0.0122	0.0119	0.0128
1975	0.0043	0.0046	0.0052	0.0055	0.0084	0.0097	0.0100	0.0110	0.0121	0.0123	0.0132

Remark:

<i>Oberschwingungen</i>											
<b>Active power</b> P/P <sub>n</sub> [%] <i>Wirkleistung</i> P/P <sub>n</sub> [%]	0	10	20	30	40	50	60	70	80	90	100
<b>Harmonic number</b> <i>Ordnungszahl</i>	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
75	0.0226	0.0301	0.0621	0.0798	0.0833	0.0996	0.1160	0.1332	0.1524	0.1735	0.1913
125	0.0098	0.0137	0.0183	0.0332	0.0375	0.0431	0.0494	0.0549	0.0625	0.0704	0.0735
175	0.0085	0.0096	0.0105	0.0153	0.0188	0.0234	0.0276	0.0316	0.0363	0.0410	0.0434
225	0.0076	0.0086	0.0154	0.0175	0.0207	0.0243	0.0275	0.0305	0.0341	0.0368	0.0401
275	0.0074	0.0084	0.0145	0.0103	0.0120	0.0137	0.0160	0.0178	0.0205	0.0227	0.0242
325	0.0081	0.0100	0.0100	0.0139	0.0171	0.0195	0.0218	0.0238	0.0263	0.0283	0.0306
375	0.0080	0.0087	0.0119	0.0109	0.0112	0.0126	0.0139	0.0152	0.0169	0.0186	0.0196
425	0.0064	0.0083	0.0130	0.0107	0.0136	0.0156	0.0173	0.0190	0.0208	0.0224	0.0239
475	0.0064	0.0076	0.0087	0.0094	0.0092	0.0100	0.0109	0.0116	0.0128	0.0138	0.0145
525	0.0061	0.0070	0.0111	0.0094	0.0113	0.0134	0.0151	0.0163	0.0181	0.0192	0.0205
575	0.0062	0.0069	0.0066	0.0086	0.0090	0.0090	0.0096	0.0104	0.0111	0.0116	0.0125
625	0.0062	0.0076	0.0117	0.0090	0.0103	0.0121	0.0135	0.0146	0.0162	0.0173	0.0182
675	0.0063	0.0071	0.0116	0.0083	0.0088	0.0089	0.0091	0.0100	0.0106	0.0107	0.0116
725	0.0063	0.0075	0.0097	0.0092	0.0099	0.0109	0.0124	0.0134	0.0148	0.0157	0.0165
775	0.0062	0.0070	0.0081	0.0081	0.0086	0.0092	0.0091	0.0098	0.0099	0.0104	0.0111
825	0.0064	0.0071	0.0091	0.0091	0.0095	0.0104	0.0115	0.0125	0.0135	0.0148	0.0153
875	0.0063	0.0070	0.0085	0.0082	0.0087	0.0092	0.0094	0.0099	0.0098	0.0107	0.0108
925	0.0063	0.0071	0.0072	0.0090	0.0091	0.0100	0.0107	0.0118	0.0126	0.0141	0.0145
975	0.0064	0.0071	0.0084	0.0084	0.0086	0.0090	0.0095	0.0101	0.0101	0.0111	0.0109
1025	0.0064	0.0072	0.0085	0.0088	0.0092	0.0098	0.0106	0.0116	0.0123	0.0132	0.0137
1075	0.0063	0.0071	0.0067	0.0085	0.0087	0.0093	0.0097	0.0102	0.0104	0.0108	0.0110
1125	0.0063	0.0070	0.0087	0.0085	0.0091	0.0095	0.0102	0.0114	0.0117	0.0127	0.0131
1175	0.0063	0.0069	0.0110	0.0085	0.0089	0.0092	0.0097	0.0102	0.0107	0.0111	0.0109
1225	0.0063	0.0068	0.0136	0.0086	0.0091	0.0095	0.0102	0.0110	0.0116	0.0120	0.0127
1275	0.0062	0.0066	0.0056	0.0084	0.0089	0.0094	0.0100	0.0104	0.0111	0.0109	0.0114
1325	0.0061	0.0066	0.0069	0.0084	0.0091	0.0095	0.0102	0.0109	0.0116	0.0121	0.0126
1375	0.0060	0.0064	0.0070	0.0085	0.0090	0.0093	0.0098	0.0105	0.0113	0.0113	0.0116
1425	0.0058	0.0064	0.0064	0.0084	0.0091	0.0098	0.0104	0.0109	0.0120	0.0120	0.0126
1475	0.0057	0.0062	0.0104	0.0084	0.0091	0.0095	0.0102	0.0108	0.0120	0.0117	0.0123
1525	0.0056	0.0060	0.0091	0.0086	0.0091	0.0099	0.0105	0.0112	0.0119	0.0118	0.0124
1575	0.0054	0.0059	0.0076	0.0084	0.0091	0.0096	0.0107	0.0117	0.0119	0.0118	0.0126
1625	0.0053	0.0056	0.0058	0.0083	0.0092	0.0101	0.0109	0.0112	0.0121	0.0123	0.0125
1675	0.0051	0.0054	0.0054	0.0084	0.0090	0.0100	0.0108	0.0112	0.0122	0.0124	0.0128
1725	0.0050	0.0053	0.0071	0.0083	0.0094	0.0098	0.0107	0.0113	0.0120	0.0126	0.0130
1775	0.0049	0.0052	0.0062	0.0081	0.0092	0.0098	0.0106	0.0114	0.0123	0.0135	0.0135
1825	0.0048	0.0050	0.0067	0.0082	0.0092	0.0097	0.0107	0.0116	0.0121	0.0137	0.0133
1875	0.0045	0.0049	0.0056	0.0080	0.0088	0.0099	0.0107	0.0118	0.0124	0.0143	0.0140
1925	0.0044	0.0048	0.0048	0.0080	0.0090	0.0099	0.0109	0.0121	0.0122	0.0142	0.0140
1975	0.0042	0.0046	0.0039	0.0076	0.0087	0.0098	0.0108	0.0119	0.0124	0.0145	0.0145

Remark:

<b>Intern-harmonics-EA4.6KSI</b>											
<i>Oberschwingungen</i>											
<b>Active power</b> P/P <sub>n</sub> [%] <i>Wirkleistung</i> P/P <sub>n</sub> [%]	0	10	20	30	40	50	60	70	80	90	100
<b>Harmonic number</b> <i>Ordnungszahl</i>	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
75	0.0215	0.0318	0.0530	0.0757	0.0947	0.1119	0.1330	0.1551	0.1768	0.1965	0.2220
125	0.0096	0.0149	0.0270	0.0338	0.0411	0.0469	0.0550	0.0633	0.0720	0.0785	0.0843
175	0.0087	0.0100	0.0121	0.0165	0.0217	0.0257	0.0313	0.0376	0.0430	0.0483	0.0521
225	0.0075	0.0087	0.0137	0.0188	0.0230	0.0262	0.0302	0.0346	0.0383	0.0419	0.0458
275	0.0073	0.0085	0.0100	0.0107	0.0127	0.0143	0.0175	0.0211	0.0234	0.0249	0.0290
325	0.0080	0.0102	0.0109	0.0153	0.0184	0.0206	0.0234	0.0267	0.0291	0.0314	0.0351
375	0.0080	0.0092	0.0106	0.0106	0.0116	0.0128	0.0148	0.0170	0.0179	0.0200	0.0229
425	0.0065	0.0090	0.0096	0.0119	0.0145	0.0164	0.0189	0.0212	0.0224	0.0244	0.0265
475	0.0065	0.0079	0.0089	0.0092	0.0093	0.0098	0.0115	0.0123	0.0132	0.0146	0.0162
525	0.0061	0.0075	0.0097	0.0101	0.0126	0.0145	0.0164	0.0178	0.0194	0.0207	0.0223
575	0.0062	0.0075	0.0082	0.0087	0.0091	0.0092	0.0104	0.0104	0.0118	0.0123	0.0132
625	0.0061	0.0077	0.0099	0.0096	0.0113	0.0130	0.0148	0.0160	0.0173	0.0185	0.0196
675	0.0061	0.0074	0.0085	0.0086	0.0091	0.0091	0.0101	0.0099	0.0110	0.0119	0.0120
725	0.0062	0.0081	0.0096	0.0092	0.0105	0.0121	0.0136	0.0144	0.0159	0.0171	0.0179
775	0.0061	0.0078	0.0088	0.0084	0.0089	0.0090	0.0098	0.0101	0.0103	0.0112	0.0117
825	0.0062	0.0079	0.0090	0.0090	0.0100	0.0111	0.0124	0.0134	0.0146	0.0157	0.0166
875	0.0063	0.0078	0.0089	0.0082	0.0088	0.0090	0.0100	0.0103	0.0105	0.0107	0.0121
925	0.0064	0.0078	0.0090	0.0089	0.0095	0.0104	0.0120	0.0130	0.0138	0.0147	0.0159
975	0.0065	0.0077	0.0087	0.0084	0.0089	0.0091	0.0100	0.0103	0.0107	0.0111	0.0118
1025	0.0064	0.0078	0.0089	0.0088	0.0095	0.0100	0.0115	0.0124	0.0136	0.0142	0.0150
1075	0.0064	0.0075	0.0087	0.0084	0.0090	0.0093	0.0100	0.0104	0.0107	0.0111	0.0119
1125	0.0064	0.0076	0.0088	0.0089	0.0093	0.0098	0.0111	0.0119	0.0125	0.0136	0.0144
1175	0.0062	0.0075	0.0087	0.0085	0.0090	0.0095	0.0101	0.0105	0.0108	0.0113	0.0117
1225	0.0061	0.0073	0.0087	0.0088	0.0092	0.0099	0.0108	0.0116	0.0122	0.0134	0.0138
1275	0.0060	0.0072	0.0084	0.0086	0.0091	0.0097	0.0105	0.0106	0.0112	0.0119	0.0120
1325	0.0058	0.0072	0.0083	0.0087	0.0095	0.0100	0.0110	0.0114	0.0123	0.0133	0.0134
1375	0.0057	0.0069	0.0081	0.0089	0.0094	0.0101	0.0105	0.0110	0.0115	0.0123	0.0125
1425	0.0056	0.0068	0.0081	0.0091	0.0098	0.0106	0.0109	0.0114	0.0120	0.0135	0.0134
1475	0.0055	0.0066	0.0078	0.0091	0.0098	0.0105	0.0106	0.0112	0.0115	0.0130	0.0130
1525	0.0053	0.0065	0.0075	0.0090	0.0096	0.0106	0.0111	0.0115	0.0121	0.0134	0.0133
1575	0.0053	0.0063	0.0073	0.0087	0.0095	0.0102	0.0109	0.0116	0.0120	0.0134	0.0136
1625	0.0051	0.0061	0.0071	0.0086	0.0093	0.0102	0.0110	0.0114	0.0122	0.0134	0.0138
1675	0.0050	0.0059	0.0067	0.0085	0.0091	0.0100	0.0110	0.0117	0.0122	0.0134	0.0137
1725	0.0049	0.0058	0.0065	0.0084	0.0093	0.0101	0.0111	0.0118	0.0123	0.0134	0.0140
1775	0.0048	0.0056	0.0062	0.0084	0.0094	0.0107	0.0113	0.0121	0.0127	0.0135	0.0146
1825	0.0046	0.0056	0.0060	0.0085	0.0093	0.0103	0.0116	0.0121	0.0126	0.0139	0.0153

1875	0.0045	0.0054	0.0058	0.0085	0.0092	0.0102	0.0119	0.0125	0.0130	0.0143	0.0157
1925	0.0044	0.0051	0.0057	0.0085	0.0090	0.0101	0.0116	0.0125	0.0130	0.0144	0.0157
1975	0.0042	0.0049	0.0055	0.0081	0.0089	0.0101	0.0116	0.0128	0.0134	0.0149	0.0164
Remark:											

<b>Intern-harmonics-EA5KSI</b>											
<i>Oberschwingungen</i>											
<b>Active power</b> P/P <sub>n</sub> [%] <i>Wirkleistung</i> P/P <sub>n</sub> [%]	0	10	20	30	40	50	60	70	80	90	100
<b>Harmonic number</b> <i>Ordnungszahl</i>	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
75	0.0227	0.0372	0.0592	0.1031	0.1029	0.1209	0.1440	0.1706	0.1916	0.2171	0.2316
125	0.0100	0.0158	0.0282	0.0442	0.0441	0.0510	0.0592	0.0704	0.0773	0.0871	0.0885
175	0.0095	0.0111	0.0132	0.0236	0.0234	0.0292	0.0344	0.0407	0.0463	0.0522	0.0550
225	0.0079	0.0094	0.0149	0.0241	0.0242	0.0282	0.0318	0.0372	0.0400	0.0456	0.0487
275	0.0072	0.0085	0.0105	0.0140	0.0139	0.0159	0.0187	0.0219	0.0254	0.0277	0.0294
325	0.0080	0.0108	0.0120	0.0196	0.0194	0.0220	0.0248	0.0281	0.0311	0.0341	0.0359
375	0.0079	0.0094	0.0111	0.0124	0.0123	0.0138	0.0155	0.0178	0.0195	0.0223	0.0233
425	0.0064	0.0098	0.0096	0.0155	0.0156	0.0174	0.0196	0.0223	0.0241	0.0255	0.0275
475	0.0063	0.0081	0.0092	0.0098	0.0097	0.0109	0.0115	0.0130	0.0139	0.0164	0.0173
525	0.0060	0.0082	0.0095	0.0132	0.0132	0.0154	0.0172	0.0190	0.0200	0.0222	0.0234
575	0.0059	0.0080	0.0086	0.0095	0.0094	0.0095	0.0104	0.0112	0.0126	0.0141	0.0149
625	0.0060	0.0079	0.0098	0.0121	0.0122	0.0138	0.0153	0.0167	0.0181	0.0198	0.0209
675	0.0060	0.0077	0.0084	0.0091	0.0092	0.0095	0.0099	0.0106	0.0116	0.0127	0.0136
725	0.0061	0.0085	0.0099	0.0112	0.0113	0.0127	0.0139	0.0152	0.0167	0.0180	0.0190
775	0.0062	0.0079	0.0089	0.0089	0.0089	0.0095	0.0098	0.0103	0.0106	0.0120	0.0128
825	0.0062	0.0082	0.0095	0.0102	0.0105	0.0117	0.0130	0.0143	0.0154	0.0171	0.0180
875	0.0062	0.0079	0.0090	0.0090	0.0093	0.0095	0.0100	0.0103	0.0109	0.0116	0.0125
925	0.0063	0.0079	0.0093	0.0099	0.0103	0.0112	0.0125	0.0136	0.0145	0.0159	0.0166
975	0.0061	0.0077	0.0090	0.0092	0.0093	0.0098	0.0101	0.0105	0.0112	0.0116	0.0126
1025	0.0062	0.0078	0.0089	0.0098	0.0099	0.0109	0.0121	0.0130	0.0142	0.0152	0.0160
1075	0.0061	0.0079	0.0091	0.0092	0.0091	0.0099	0.0103	0.0109	0.0110	0.0116	0.0123
1125	0.0061	0.0079	0.0090	0.0096	0.0096	0.0106	0.0116	0.0124	0.0136	0.0145	0.0153
1175	0.0059	0.0078	0.0087	0.0092	0.0093	0.0098	0.0105	0.0109	0.0110	0.0117	0.0122
1225	0.0059	0.0077	0.0087	0.0095	0.0096	0.0104	0.0114	0.0120	0.0129	0.0142	0.0146
1275	0.0058	0.0076	0.0087	0.0093	0.0094	0.0103	0.0105	0.0111	0.0114	0.0122	0.0125
1325	0.0057	0.0075	0.0086	0.0096	0.0096	0.0107	0.0112	0.0120	0.0129	0.0137	0.0143
1375	0.0056	0.0072	0.0082	0.0093	0.0096	0.0103	0.0108	0.0115	0.0118	0.0127	0.0131
1425	0.0056	0.0071	0.0082	0.0098	0.0098	0.0108	0.0114	0.0121	0.0128	0.0136	0.0141
1475	0.0053	0.0070	0.0080	0.0097	0.0096	0.0105	0.0115	0.0119	0.0121	0.0129	0.0134
1525	0.0053	0.0070	0.0076	0.0098	0.0102	0.0105	0.0114	0.0126	0.0127	0.0134	0.0143
1575	0.0051	0.0068	0.0074	0.0096	0.0099	0.0106	0.0115	0.0125	0.0127	0.0134	0.0140
1625	0.0051	0.0064	0.0072	0.0098	0.0100	0.0105	0.0114	0.0123	0.0129	0.0135	0.0146
1675	0.0049	0.0061	0.0070	0.0097	0.0097	0.0106	0.0115	0.0126	0.0131	0.0135	0.0149

1725	0.0048	0.0058	0.0066	0.0102	0.0099	0.0108	0.0117	0.0124	0.0134	0.0139	0.0154
1775	0.0047	0.0056	0.0065	0.0098	0.0097	0.0108	0.0116	0.0130	0.0138	0.0141	0.0159
1825	0.0045	0.0055	0.0063	0.0098	0.0098	0.0109	0.0118	0.0129	0.0143	0.0141	0.0164
1875	0.0045	0.0053	0.0061	0.0097	0.0095	0.0109	0.0122	0.0134	0.0148	0.0145	0.0173
1925	0.0043	0.0051	0.0059	0.0099	0.0096	0.0108	0.0120	0.0135	0.0149	0.0148	0.0174
1975	0.0042	0.0050	0.0056	0.0098	0.0095	0.0108	0.0123	0.0136	0.0153	0.0152	0.0183
Remark:											

<b>Intern-harmonics-EA6KSI</b>											
<i>Oberschwingungen</i>											
<b>Active power</b> <b>P/P<sub>n</sub> [%]</b> <i>Wirkleistung</i> <i>P/P<sub>n</sub> [%]</i>	0	10	20	30	40	50	60	70	80	90	100
<b>Harmonic number</b> <i>Ordnungszahl</i>	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
75	0.0256	0.0395	0.0770	0.0923	0.1236	0.1520	0.1757	0.1996	0.2245	0.2573	0.2848
125	0.0104	0.0187	0.0322	0.0398	0.0500	0.0607	0.0688	0.0797	0.0877	0.0997	0.1096
175	0.0090	0.0111	0.0157	0.0215	0.0275	0.0339	0.0394	0.0483	0.0548	0.0624	0.0678
225	0.0077	0.0096	0.0174	0.0245	0.0276	0.0325	0.0364	0.0420	0.0471	0.0520	0.0559
275	0.0078	0.0087	0.0101	0.0120	0.0161	0.0197	0.0218	0.0268	0.0290	0.0318	0.0351
325	0.0080	0.0106	0.0142	0.0175	0.0218	0.0255	0.0282	0.0324	0.0362	0.0388	0.0423
375	0.0082	0.0097	0.0106	0.0114	0.0141	0.0168	0.0179	0.0212	0.0233	0.0257	0.0284
425	0.0065	0.0099	0.0108	0.0139	0.0175	0.0203	0.0223	0.0248	0.0272	0.0293	0.0316
475	0.0066	0.0083	0.0094	0.0093	0.0111	0.0125	0.0131	0.0148	0.0171	0.0186	0.0199
525	0.0063	0.0090	0.0095	0.0118	0.0151	0.0173	0.0191	0.0211	0.0231	0.0251	0.0268
575	0.0061	0.0081	0.0085	0.0089	0.0099	0.0106	0.0115	0.0127	0.0149	0.0154	0.0167
625	0.0062	0.0081	0.0091	0.0106	0.0138	0.0154	0.0171	0.0187	0.0207	0.0220	0.0232
675	0.0063	0.0080	0.0082	0.0086	0.0093	0.0098	0.0107	0.0123	0.0134	0.0144	0.0150
725	0.0063	0.0079	0.0089	0.0100	0.0126	0.0142	0.0154	0.0173	0.0189	0.0199	0.0212
775	0.0062	0.0079	0.0080	0.0087	0.0092	0.0100	0.0105	0.0117	0.0126	0.0130	0.0138
825	0.0064	0.0085	0.0090	0.0097	0.0116	0.0131	0.0145	0.0161	0.0174	0.0187	0.0195
875	0.0064	0.0082	0.0081	0.0086	0.0092	0.0099	0.0104	0.0113	0.0123	0.0125	0.0132
925	0.0063	0.0083	0.0088	0.0093	0.0109	0.0123	0.0137	0.0148	0.0163	0.0172	0.0182
975	0.0063	0.0084	0.0084	0.0087	0.0095	0.0102	0.0105	0.0112	0.0119	0.0128	0.0129
1025	0.0062	0.0081	0.0087	0.0090	0.0105	0.0119	0.0129	0.0141	0.0154	0.0164	0.0171
1075	0.0062	0.0081	0.0084	0.0087	0.0095	0.0102	0.0107	0.0116	0.0120	0.0127	0.0130
1125	0.0062	0.0080	0.0086	0.0091	0.0101	0.0116	0.0126	0.0143	0.0149	0.0158	0.0164
1175	0.0062	0.0079	0.0083	0.0088	0.0096	0.0104	0.0111	0.0119	0.0124	0.0130	0.0132
1225	0.0063	0.0081	0.0084	0.0091	0.0102	0.0113	0.0124	0.0133	0.0145	0.0152	0.0158
1275	0.0063	0.0079	0.0082	0.0087	0.0099	0.0107	0.0111	0.0118	0.0124	0.0134	0.0134
1325	0.0062	0.0079	0.0082	0.0090	0.0101	0.0113	0.0119	0.0131	0.0138	0.0152	0.0154
1375	0.0060	0.0077	0.0082	0.0089	0.0100	0.0111	0.0114	0.0122	0.0124	0.0136	0.0138
1425	0.0059	0.0074	0.0083	0.0092	0.0106	0.0113	0.0120	0.0129	0.0136	0.0151	0.0150
1475	0.0057	0.0071	0.0083	0.0090	0.0102	0.0110	0.0117	0.0125	0.0129	0.0143	0.0141
1525	0.0055	0.0068	0.0084	0.0091	0.0104	0.0114	0.0119	0.0130	0.0139	0.0152	0.0147

1575	0.0053	0.0065	0.0082	0.0089	0.0102	0.0113	0.0122	0.0129	0.0135	0.0148	0.0144
1625	0.0052	0.0063	0.0082	0.0093	0.0107	0.0113	0.0123	0.0132	0.0138	0.0154	0.0148
1675	0.0050	0.0061	0.0082	0.0091	0.0105	0.0115	0.0124	0.0132	0.0138	0.0154	0.0146
1725	0.0048	0.0059	0.0083	0.0091	0.0104	0.0117	0.0127	0.0133	0.0141	0.0158	0.0148
1775	0.0047	0.0057	0.0079	0.0090	0.0103	0.0116	0.0128	0.0138	0.0145	0.0160	0.0153
1825	0.0045	0.0055	0.0082	0.0088	0.0104	0.0116	0.0128	0.0140	0.0146	0.0163	0.0154
1875	0.0045	0.0052	0.0079	0.0088	0.0101	0.0119	0.0133	0.0142	0.0152	0.0170	0.0158
1925	0.0043	0.0051	0.0080	0.0088	0.0104	0.0119	0.0132	0.0147	0.0153	0.0175	0.0158
1975	0.0042	0.0049	0.0080	0.0086	0.0103	0.0122	0.0135	0.0152	0.0159	0.0183	0.0168
Remark:											

<b>Higher frequencies-EA2KSI</b>											
<i>Oberschwingungen</i>											
<b>Active power</b> P/P <sub>n</sub> [%] <i>Wirkleistung</i> P/P <sub>n</sub> [%]	0	10	20	30	40	50	60	70	80	90	100
<b>Harmonic number</b> <i>Ordnungszahl</i>	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2.1	0.0036	0.0031	0.0038	0.0032	0.0033	0.0032	0.0050	0.0051	0.0054	0.0056	0.0059
2.3	0.0042	0.0032	0.0028	0.0030	0.0028	0.0027	0.0048	0.0051	0.0052	0.0055	0.0059
2.5	0.0037	0.0030	0.0026	0.0026	0.0026	0.0027	0.0048	0.0050	0.0048	0.0050	0.0053
2.7	0.0022	0.0021	0.0022	0.0025	0.0030	0.0032	0.0048	0.0045	0.0043	0.0046	0.0047
2.9	0.0019	0.0021	0.0027	0.0028	0.0025	0.0026	0.0038	0.0037	0.0039	0.0044	0.0044
3.1	0.0028	0.0029	0.0027	0.0025	0.0022	0.0018	0.0034	0.0037	0.0040	0.0038	0.0038
3.3	0.0029	0.0027	0.0021	0.0018	0.0016	0.0020	0.0037	0.0035	0.0034	0.0034	0.0036
3.5	0.0022	0.0019	0.0017	0.0019	0.0022	0.0023	0.0032	0.0031	0.0030	0.0032	0.0035
3.7	0.0017	0.0021	0.0026	0.0028	0.0027	0.0026	0.0029	0.0029	0.0030	0.0034	0.0033
3.9	0.0019	0.0021	0.0023	0.0022	0.0018	0.0016	0.0026	0.0028	0.0030	0.0030	0.0029
4.1	0.0038	0.0034	0.0029	0.0023	0.0019	0.0016	0.0025	0.0026	0.0027	0.0028	0.0030
4.3	0.0027	0.0018	0.0012	0.0013	0.0013	0.0015	0.0022	0.0022	0.0022	0.0022	0.0022
4.5	0.0016	0.0012	0.0013	0.0016	0.0019	0.0015	0.0018	0.0019	0.0020	0.0021	0.0021
4.7	0.0015	0.0012	0.0014	0.0014	0.0013	0.0016	0.0022	0.0021	0.0020	0.0020	0.0021
4.9	0.0012	0.0011	0.0013	0.0013	0.0013	0.0013	0.0017	0.0016	0.0016	0.0018	0.0018
5.1	0.0010	0.0012	0.0010	0.0008	0.0008	0.0009	0.0013	0.0012	0.0013	0.0013	0.0013
5.3	0.0008	0.0009	0.0009	0.0009	0.0010	0.0009	0.0011	0.0012	0.0013	0.0013	0.0013
5.5	0.0009	0.0009	0.0010	0.0010	0.0010	0.0009	0.0012	0.0012	0.0012	0.0012	0.0013
5.7	0.0009	0.0007	0.0008	0.0008	0.0008	0.0008	0.0010	0.0010	0.0009	0.0010	0.0010
5.9	0.0011	0.0008	0.0007	0.0008	0.0008	0.0008	0.0009	0.0009	0.0009	0.0009	0.0009
6.1	0.0010	0.0008	0.0007	0.0008	0.0008	0.0007	0.0008	0.0008	0.0009	0.0009	0.0009
6.3	0.0009	0.0008	0.0009	0.0007	0.0007	0.0006	0.0008	0.0008	0.0008	0.0008	0.0008
6.5	0.0008	0.0007	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0009	0.0009	0.0008
6.7	0.0008	0.0008	0.0008	0.0008	0.0008	0.0009	0.0009	0.0009	0.0009	0.0010	0.0009
6.9	0.0007	0.0007	0.0007	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
7.1	0.0007	0.0006	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
7.3	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0007	0.0007	0.0007	0.0007

7.5	0.0007	0.0006	0.0006	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
7.7	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008
7.9	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
8.1	0.0007	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0007	0.0007	0.0006	0.0007	0.0007
8.3	0.0007	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
8.5	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
8.7	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006
8.9	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0007	0.0008	0.0007	0.0008
Remark:												

<b>Higher frequencies-EA2.5KSI</b>												
<i>Oberschwingungen</i>												
<b>Active power</b> P/P <sub>n</sub> [%] <i>Wirkleistung</i> P/P <sub>n</sub> [%]	0	10	20	30	40	50	60	70	80	90	100	
<b>Harmonic number</b> <i>Ordnungszahl</i>	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2.1	0.0033	0.0030	0.0033	0.0033	0.0032	0.0051	0.0052	0.0055	0.0060	0.0065	0.0067	
2.3	0.0041	0.0032	0.0029	0.0030	0.0028	0.0047	0.0052	0.0054	0.0055	0.0058	0.0064	
2.5	0.0038	0.0029	0.0025	0.0026	0.0026	0.0047	0.0049	0.0051	0.0050	0.0056	0.0061	
2.7	0.0023	0.0022	0.0025	0.0029	0.0033	0.0048	0.0047	0.0046	0.0048	0.0049	0.0056	
2.9	0.0019	0.0023	0.0028	0.0027	0.0026	0.0038	0.0039	0.0040	0.0044	0.0045	0.0050	
3.1	0.0027	0.0029	0.0027	0.0025	0.0020	0.0036	0.0037	0.0037	0.0038	0.0041	0.0044	
3.3	0.0028	0.0026	0.0020	0.0017	0.0019	0.0035	0.0034	0.0032	0.0035	0.0039	0.0040	
3.5	0.0022	0.0018	0.0018	0.0020	0.0023	0.0033	0.0030	0.0031	0.0034	0.0036	0.0037	
3.7	0.0016	0.0022	0.0026	0.0028	0.0026	0.0029	0.0029	0.0031	0.0033	0.0033	0.0035	
3.9	0.0019	0.0023	0.0024	0.0020	0.0017	0.0027	0.0029	0.0029	0.0028	0.0028	0.0032	
4.1	0.0037	0.0032	0.0026	0.0018	0.0016	0.0025	0.0028	0.0030	0.0029	0.0029	0.0030	
4.3	0.0025	0.0017	0.0012	0.0013	0.0015	0.0022	0.0021	0.0021	0.0022	0.0023	0.0024	
4.5	0.0015	0.0012	0.0014	0.0017	0.0015	0.0019	0.0019	0.0020	0.0021	0.0023	0.0022	
4.7	0.0016	0.0014	0.0016	0.0015	0.0014	0.0022	0.0019	0.0020	0.0021	0.0020	0.0020	
4.9	0.0011	0.0012	0.0013	0.0013	0.0013	0.0017	0.0016	0.0017	0.0018	0.0018	0.0017	
5.1	0.0010	0.0011	0.0009	0.0009	0.0009	0.0013	0.0012	0.0013	0.0013	0.0014	0.0014	
5.3	0.0008	0.0009	0.0009	0.0009	0.0009	0.0011	0.0013	0.0013	0.0013	0.0013	0.0013	
5.5	0.0009	0.0010	0.0010	0.0009	0.0009	0.0012	0.0013	0.0012	0.0012	0.0013	0.0013	
5.7	0.0008	0.0007	0.0008	0.0007	0.0008	0.0010	0.0009	0.0009	0.0010	0.0010	0.0010	
5.9	0.0011	0.0008	0.0007	0.0008	0.0008	0.0009	0.0009	0.0009	0.0009	0.0010	0.0010	
6.1	0.0010	0.0007	0.0007	0.0008	0.0007	0.0008	0.0008	0.0008	0.0010	0.0010	0.0009	
6.3	0.0008	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0009	0.0008	0.0008	
6.5	0.0008	0.0007	0.0008	0.0007	0.0007	0.0008	0.0008	0.0009	0.0008	0.0009	0.0009	
6.7	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0009	0.0009	0.0009	0.0009	0.0010	
6.9	0.0007	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	
7.1	0.0007	0.0007	0.0006	0.0006	0.0006	0.0008	0.0007	0.0007	0.0007	0.0008	0.0007	
7.3	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0007	0.0007	0.0008	0.0008	0.0008	
7.5	0.0007	0.0006	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	

7.7	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008
7.9	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
8.1	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007
8.3	0.0007	0.0006	0.0007	0.0007	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
8.5	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
8.7	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006
8.9	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0007	0.0008	0.0008	0.0008
Remark:											

Higher frequencies-EA3KSI <i>Oberschwingungen</i>											
Active power P/P <sub>n</sub> [%] <i>Wirkleistung P/P<sub>n</sub> [%]</i>	0	10	20	30	40	50	60	70	80	90	100
Harmonic number <i>Ordnungszahl</i>	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2.1	0.0033	0.0033	0.0032	0.0035	0.0052	0.0053	0.0060	0.0062	0.0066	0.0069	0.0072
2.3	0.0038	0.0030	0.0028	0.0027	0.0048	0.0052	0.0055	0.0056	0.0060	0.0069	0.0074
2.5	0.0031	0.0023	0.0024	0.0028	0.0049	0.0048	0.0048	0.0052	0.0059	0.0065	0.0067
2.7	0.0021	0.0023	0.0026	0.0028	0.0048	0.0043	0.0044	0.0049	0.0054	0.0058	0.0060
2.9	0.0022	0.0026	0.0028	0.0025	0.0037	0.0039	0.0044	0.0045	0.0049	0.0053	0.0053
3.1	0.0029	0.0028	0.0021	0.0017	0.0035	0.0037	0.0038	0.0039	0.0046	0.0046	0.0048
3.3	0.0025	0.0021	0.0016	0.0021	0.0035	0.0033	0.0034	0.0037	0.0041	0.0042	0.0043
3.5	0.0016	0.0016	0.0021	0.0023	0.0030	0.0029	0.0034	0.0035	0.0035	0.0038	0.0039
3.7	0.0022	0.0030	0.0031	0.0026	0.0030	0.0033	0.0036	0.0036	0.0035	0.0037	0.0038
3.9	0.0023	0.0025	0.0021	0.0016	0.0028	0.0028	0.0028	0.0029	0.0032	0.0033	0.0032
4.1	0.0036	0.0028	0.0018	0.0016	0.0027	0.0027	0.0026	0.0028	0.0030	0.0032	0.0031
4.3	0.0021	0.0012	0.0012	0.0015	0.0021	0.0020	0.0021	0.0023	0.0025	0.0026	0.0027
4.5	0.0011	0.0014	0.0017	0.0014	0.0018	0.0018	0.0019	0.0021	0.0022	0.0023	0.0024
4.7	0.0014	0.0018	0.0021	0.0023	0.0035	0.0031	0.0031	0.0022	0.0021	0.0021	0.0022
4.9	0.0009	0.0013	0.0013	0.0013	0.0017	0.0016	0.0018	0.0018	0.0018	0.0019	0.0019
5.1	0.0009	0.0009	0.0008	0.0009	0.0012	0.0013	0.0013	0.0013	0.0014	0.0015	0.0015
5.3	0.0008	0.0009	0.0009	0.0008	0.0012	0.0013	0.0012	0.0013	0.0014	0.0014	0.0014
5.5	0.0011	0.0010	0.0009	0.0008	0.0012	0.0012	0.0012	0.0014	0.0014	0.0015	0.0014
5.7	0.0009	0.0008	0.0007	0.0008	0.0010	0.0010	0.0010	0.0011	0.0011	0.0011	0.0011
5.9	0.0011	0.0007	0.0007	0.0009	0.0010	0.0009	0.0009	0.0010	0.0010	0.0010	0.0011
6.1	0.0009	0.0007	0.0008	0.0008	0.0008	0.0008	0.0009	0.0009	0.0009	0.0009	0.0010
6.3	0.0007	0.0008	0.0008	0.0007	0.0008	0.0008	0.0008	0.0008	0.0009	0.0009	0.0009
6.5	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0009	0.0009	0.0009	0.0009
6.7	0.0007	0.0008	0.0008	0.0008	0.0008	0.0009	0.0009	0.0009	0.0010	0.0010	0.0010
6.9	0.0007	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008
7.1	0.0007	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008
7.3	0.0008	0.0007	0.0006	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008
7.5	0.0007	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008
7.7	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008



7.9	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0007	0.0008	0.0008	0.0008
8.1	0.0006	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
8.3	0.0007	0.0007	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
8.5	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0007
8.7	0.0006	0.0006	0.0006	0.0006	0.0007	0.0006	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007
8.9	0.0007	0.0007	0.0007	0.0007	0.0008	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008
Remark:												

<b>Higher frequencies-EA3KSI-D</b>												
<i>Oberschwingungen</i>												
<b>Active power</b> P/P <sub>n</sub> [%] <i>Wirkleistung</i> P/P <sub>n</sub> [%]	0	10	20	30	40	50	60	70	80	90	100	
<b>Harmonic number</b> <i>Ordnungszahl</i>	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2.1	0.0031	0.0033	0.0039	0.0039	0.0050	0.0052	0.0054	0.0060	0.0065	0.0070	0.0074	
2.3	0.0039	0.0029	0.0030	0.0033	0.0043	0.0049	0.0053	0.0057	0.0094	0.0069	0.0074	
2.5	0.0040	0.0026	0.0026	0.0026	0.0044	0.0048	0.0051	0.0053	0.0089	0.0066	0.0073	
2.7	0.0029	0.0020	0.0024	0.0026	0.0047	0.0047	0.0047	0.0047	0.0082	0.0061	0.0071	
2.9	0.0019	0.0028	0.0027	0.0026	0.0042	0.0039	0.0041	0.0045	0.0073	0.0053	0.0057	
3.1	0.0021	0.0034	0.0033	0.0027	0.0034	0.0033	0.0039	0.0040	0.0066	0.0048	0.0050	
3.3	0.0028	0.0034	0.0024	0.0018	0.0029	0.0032	0.0035	0.0036	0.0060	0.0042	0.0044	
3.5	0.0029	0.0023	0.0017	0.0017	0.0031	0.0031	0.0030	0.0034	0.0054	0.0038	0.0039	
3.7	0.0016	0.0016	0.0020	0.0025	0.0033	0.0029	0.0029	0.0035	0.0053	0.0034	0.0037	
3.9	0.0014	0.0023	0.0023	0.0020	0.0024	0.0024	0.0028	0.0029	0.0046	0.0033	0.0034	
4.1	0.0029	0.0020	0.0021	0.0023	0.0023	0.0026	0.0029	0.0028	0.0040	0.0031	0.0032	
4.3	0.0026	0.0018	0.0012	0.0011	0.0021	0.0023	0.0022	0.0022	0.0036	0.0025	0.0026	
4.5	0.0019	0.0013	0.0012	0.0014	0.0021	0.0021	0.0019	0.0020	0.0033	0.0022	0.0023	
4.7	0.0019	0.0016	0.0017	0.0015	0.0019	0.0017	0.0019	0.0020	0.0030	0.0020	0.0021	
4.9	0.0013	0.0021	0.0018	0.0013	0.0017	0.0016	0.0016	0.0018	0.0025	0.0018	0.0018	
5.1	0.0008	0.0013	0.0010	0.0008	0.0013	0.0012	0.0012	0.0013	0.0021	0.0015	0.0015	
5.3	0.0007	0.0011	0.0008	0.0008	0.0012	0.0011	0.0013	0.0013	0.0019	0.0013	0.0014	
5.5	0.0008	0.0008	0.0007	0.0009	0.0011	0.0012	0.0013	0.0012	0.0017	0.0013	0.0013	
5.7	0.0009	0.0009	0.0009	0.0008	0.0009	0.0009	0.0009	0.0010	0.0015	0.0010	0.0011	
5.9	0.0009	0.0008	0.0007	0.0007	0.0010	0.0010	0.0009	0.0010	0.0014	0.0010	0.0011	
6.1	0.0010	0.0007	0.0007	0.0007	0.0009	0.0008	0.0009	0.0009	0.0014	0.0009	0.0009	
6.3	0.0009	0.0007	0.0007	0.0007	0.0008	0.0007	0.0008	0.0008	0.0014	0.0009	0.0009	
6.5	0.0009	0.0008	0.0008	0.0007	0.0008	0.0007	0.0009	0.0009	0.0012	0.0010	0.0009	
6.7	0.0009	0.0009	0.0009	0.0008	0.0008	0.0008	0.0009	0.0009	0.0012	0.0010	0.0010	
6.9	0.0006	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0011	0.0007	0.0008	
7.1	0.0006	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0011	0.0007	0.0008	
7.3	0.0006	0.0007	0.0006	0.0007	0.0007	0.0008	0.0007	0.0007	0.0011	0.0008	0.0008	
7.5	0.0007	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0011	0.0007	0.0007	
7.7	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0010	0.0008	0.0008	
7.9	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0011	0.0007	0.0007	
8.1	0.0007	0.0006	0.0006	0.0006	0.0007	0.0006	0.0006	0.0006	0.0010	0.0007	0.0007	

8.3	0.0007	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0010	0.0007	0.0007
8.5	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0010	0.0007	0.0008
8.7	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0010	0.0006	0.0007
8.9	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0010	0.0008	0.0008

Remark:

<b>Higher frequencies-EA3.68KSI</b>											
<i>Oberschwingungen</i>											
<b>Active power</b> P/P <sub>n</sub> [%] <i>Wirkleistung</i> P/P <sub>n</sub> [%]	0	10	20	30	40	50	60	70	80	90	100
<b>Harmonic number</b> <i>Ordnungszahl</i>	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2.1	0.0030	0.0032	0.0035	0.0033	0.0052	0.0062	0.0063	0.0066	0.0075	0.0079	0.0085
2.3	0.0037	0.0031	0.0029	0.0028	0.0052	0.0058	0.0058	0.0063	0.0070	0.0083	0.0088
2.5	0.0034	0.0024	0.0024	0.0027	0.0049	0.0053	0.0054	0.0061	0.0067	0.0081	0.0092
2.7	0.0021	0.0022	0.0026	0.0029	0.0045	0.0050	0.0049	0.0054	0.0063	0.0075	0.0083
2.9	0.0018	0.0026	0.0028	0.0025	0.0038	0.0046	0.0046	0.0052	0.0058	0.0064	0.0072
3.1	0.0027	0.0029	0.0022	0.0019	0.0036	0.0042	0.0041	0.0045	0.0049	0.0053	0.0060
3.3	0.0028	0.0023	0.0017	0.0020	0.0034	0.0040	0.0039	0.0041	0.0044	0.0047	0.0052
3.5	0.0021	0.0016	0.0020	0.0025	0.0032	0.0038	0.0038	0.0039	0.0041	0.0043	0.0047
3.7	0.0018	0.0026	0.0031	0.0027	0.0032	0.0037	0.0036	0.0039	0.0040	0.0040	0.0042
3.9	0.0018	0.0024	0.0020	0.0017	0.0029	0.0031	0.0030	0.0032	0.0037	0.0038	0.0040
4.1	0.0035	0.0029	0.0020	0.0017	0.0029	0.0029	0.0028	0.0030	0.0032	0.0033	0.0036
4.3	0.0022	0.0013	0.0012	0.0015	0.0021	0.0023	0.0023	0.0024	0.0026	0.0028	0.0030
4.5	0.0012	0.0012	0.0016	0.0014	0.0019	0.0022	0.0022	0.0023	0.0024	0.0026	0.0027
4.7	0.0015	0.0020	0.0023	0.0023	0.0037	0.0022	0.0022	0.0022	0.0023	0.0022	0.0024
4.9	0.0009	0.0013	0.0013	0.0014	0.0017	0.0018	0.0018	0.0018	0.0019	0.0020	0.0021
5.1	0.0010	0.0010	0.0008	0.0009	0.0012	0.0013	0.0013	0.0014	0.0015	0.0016	0.0017
5.3	0.0008	0.0009	0.0009	0.0009	0.0012	0.0013	0.0013	0.0013	0.0014	0.0015	0.0016
5.5	0.0009	0.0010	0.0010	0.0009	0.0013	0.0013	0.0013	0.0014	0.0014	0.0014	0.0015
5.7	0.0008	0.0007	0.0007	0.0008	0.0009	0.0010	0.0010	0.0011	0.0011	0.0011	0.0012
5.9	0.0011	0.0008	0.0008	0.0008	0.0010	0.0011	0.0011	0.0010	0.0011	0.0011	0.0012
6.1	0.0009	0.0008	0.0008	0.0007	0.0009	0.0010	0.0009	0.0009	0.0010	0.0010	0.0011
6.3	0.0007	0.0009	0.0007	0.0007	0.0008	0.0008	0.0009	0.0009	0.0009	0.0009	0.0010
6.5	0.0007	0.0008	0.0008	0.0007	0.0008	0.0009	0.0009	0.0009	0.0009	0.0009	0.0010
6.7	0.0007	0.0008	0.0008	0.0008	0.0009	0.0009	0.0009	0.0010	0.0010	0.0010	0.0010
6.9	0.0007	0.0006	0.0006	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008
7.1	0.0007	0.0007	0.0006	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
7.3	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
7.5	0.0008	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008
7.7	0.0008	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
7.9	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
8.1	0.0006	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
8.3	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007
8.5	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008

8.7	0.0006	0.0006	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0006	0.0007
8.9	0.0007	0.0008	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
Remark:											

<b>Higher frequencies-EA4KSI</b>											
<i>Oberschwingungen</i>											
<b>Active power</b> P/P <sub>n</sub> [%] <i>Wirkleistung</i> P/P <sub>n</sub> [%]	0	10	20	30	40	50	60	70	80	90	100
<b>Harmonic number</b> <i>Ordnungszahl</i>	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2.1	0.0030	0.0035	0.0032	0.0050	0.0055	0.0061	0.0066	0.0073	0.0082	0.0087	0.0092
2.3	0.0037	0.0030	0.0028	0.0045	0.0053	0.0057	0.0063	0.0071	0.0083	0.0091	0.0097
2.5	0.0034	0.0026	0.0025	0.0048	0.0049	0.0053	0.0063	0.0068	0.0079	0.0090	0.0101
2.7	0.0021	0.0021	0.0032	0.0046	0.0043	0.0047	0.0053	0.0059	0.0070	0.0083	0.0097
2.9	0.0018	0.0026	0.0024	0.0038	0.0040	0.0047	0.0051	0.0058	0.0065	0.0073	0.0085
3.1	0.0028	0.0027	0.0022	0.0031	0.0037	0.0040	0.0046	0.0051	0.0054	0.0062	0.0070
3.3	0.0028	0.0022	0.0016	0.0033	0.0034	0.0038	0.0044	0.0045	0.0048	0.0053	0.0058
3.5	0.0021	0.0015	0.0021	0.0032	0.0034	0.0037	0.0038	0.0042	0.0045	0.0049	0.0051
3.7	0.0017	0.0024	0.0027	0.0030	0.0031	0.0033	0.0034	0.0038	0.0041	0.0046	0.0045
3.9	0.0016	0.0022	0.0019	0.0024	0.0027	0.0028	0.0030	0.0033	0.0036	0.0038	0.0042
4.1	0.0035	0.0028	0.0019	0.0026	0.0028	0.0029	0.0029	0.0031	0.0032	0.0033	0.0036
4.3	0.0023	0.0013	0.0012	0.0023	0.0021	0.0022	0.0025	0.0026	0.0029	0.0029	0.0031
4.5	0.0012	0.0016	0.0016	0.0020	0.0019	0.0020	0.0022	0.0024	0.0026	0.0027	0.0028
4.7	0.0011	0.0013	0.0017	0.0020	0.0026	0.0026	0.0023	0.0022	0.0024	0.0026	0.0026
4.9	0.0009	0.0013	0.0013	0.0018	0.0017	0.0019	0.0019	0.0020	0.0020	0.0021	0.0022
5.1	0.0011	0.0010	0.0008	0.0012	0.0013	0.0013	0.0014	0.0015	0.0017	0.0018	0.0019
5.3	0.0008	0.0008	0.0009	0.0011	0.0013	0.0013	0.0014	0.0014	0.0015	0.0016	0.0017
5.5	0.0009	0.0010	0.0009	0.0011	0.0012	0.0012	0.0013	0.0014	0.0014	0.0014	0.0015
5.7	0.0008	0.0007	0.0007	0.0010	0.0009	0.0011	0.0010	0.0011	0.0012	0.0013	0.0013
5.9	0.0010	0.0008	0.0008	0.0010	0.0009	0.0010	0.0010	0.0011	0.0011	0.0012	0.0012
6.1	0.0010	0.0007	0.0008	0.0009	0.0009	0.0009	0.0010	0.0010	0.0010	0.0010	0.0011
6.3	0.0007	0.0007	0.0008	0.0009	0.0008	0.0008	0.0009	0.0009	0.0009	0.0010	0.0010
6.5	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0009	0.0009	0.0009	0.0010	0.0010
6.7	0.0007	0.0008	0.0008	0.0009	0.0009	0.0009	0.0010	0.0010	0.0010	0.0010	0.0010
6.9	0.0007	0.0007	0.0006	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008
7.1	0.0007	0.0006	0.0006	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008
7.3	0.0007	0.0007	0.0007	0.0008	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
7.5	0.0007	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008
7.7	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
7.9	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0009	0.0008
8.1	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0007
8.3	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0007
8.5	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008
8.7	0.0006	0.0006	0.0006	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007
8.9	0.0008	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008

Remark:

<b>Higher frequencies-EA4.6KSI</b>											
<i>Oberschwingungen</i>											
<b>Active power</b> <b>P/P<sub>n</sub> [%]</b> <i>Wirkleistung</i> <i>P/P<sub>n</sub> [%]</i>	0	10	20	30	40	50	60	70	80	90	100
<b>Harmonic number</b> <i>Ordnungszahl</i>	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2.1	0.0028	0.0032	0.0034	0.0052	0.0057	0.0066	0.0073	0.0081	0.0084	0.0103	0.0103
2.3	0.0036	0.0029	0.0029	0.0050	0.0054	0.0062	0.0072	0.0081	0.0093	0.0113	0.0112
2.5	0.0033	0.0024	0.0026	0.0050	0.0049	0.0057	0.0067	0.0078	0.0095	0.0114	0.0125
2.7	0.0021	0.0023	0.0028	0.0046	0.0044	0.0050	0.0060	0.0073	0.0084	0.0109	0.0126
2.9	0.0019	0.0026	0.0026	0.0038	0.0043	0.0050	0.0058	0.0064	0.0072	0.0098	0.0107
3.1	0.0027	0.0028	0.0020	0.0034	0.0037	0.0043	0.0048	0.0055	0.0062	0.0078	0.0085
3.3	0.0028	0.0021	0.0017	0.0034	0.0034	0.0040	0.0043	0.0048	0.0054	0.0065	0.0068
3.5	0.0021	0.0016	0.0022	0.0031	0.0033	0.0041	0.0042	0.0043	0.0047	0.0057	0.0058
3.7	0.0018	0.0026	0.0027	0.0030	0.0034	0.0035	0.0042	0.0041	0.0043	0.0050	0.0052
3.9	0.0018	0.0021	0.0017	0.0026	0.0027	0.0028	0.0034	0.0038	0.0038	0.0043	0.0047
4.1	0.0033	0.0025	0.0016	0.0027	0.0027	0.0028	0.0031	0.0033	0.0036	0.0037	0.0038
4.3	0.0020	0.0011	0.0014	0.0024	0.0023	0.0026	0.0026	0.0028	0.0030	0.0035	0.0034
4.5	0.0010	0.0012	0.0015	0.0019	0.0020	0.0023	0.0024	0.0025	0.0027	0.0030	0.0030
4.7	0.0016	0.0022	0.0021	0.0028	0.0027	0.0022	0.0022	0.0023	0.0024	0.0026	0.0029
4.9	0.0008	0.0013	0.0013	0.0017	0.0018	0.0018	0.0019	0.0020	0.0021	0.0024	0.0025
5.1	0.0010	0.0009	0.0009	0.0012	0.0013	0.0014	0.0015	0.0017	0.0017	0.0020	0.0020
5.3	0.0008	0.0009	0.0009	0.0012	0.0013	0.0013	0.0014	0.0015	0.0016	0.0018	0.0018
5.5	0.0010	0.0010	0.0009	0.0012	0.0012	0.0013	0.0013	0.0014	0.0014	0.0016	0.0016
5.7	0.0008	0.0008	0.0008	0.0009	0.0010	0.0010	0.0011	0.0012	0.0012	0.0013	0.0014
5.9	0.0009	0.0007	0.0008	0.0009	0.0009	0.0010	0.0011	0.0011	0.0012	0.0013	0.0013
6.1	0.0008	0.0007	0.0007	0.0008	0.0009	0.0009	0.0009	0.0010	0.0011	0.0011	0.0012
6.3	0.0006	0.0007	0.0007	0.0009	0.0009	0.0008	0.0009	0.0009	0.0010	0.0011	0.0011
6.5	0.0006	0.0007	0.0007	0.0008	0.0009	0.0009	0.0009	0.0010	0.0010	0.0010	0.0011
6.7	0.0007	0.0008	0.0008	0.0009	0.0009	0.0009	0.0010	0.0010	0.0010	0.0010	0.0010
6.9	0.0007	0.0006	0.0006	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0009
7.1	0.0006	0.0006	0.0006	0.0007	0.0008	0.0007	0.0008	0.0008	0.0008	0.0009	0.0009
7.3	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0009
7.5	0.0007	0.0006	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0009
7.7	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0009
7.9	0.0007	0.0007	0.0007	0.0007	0.0008	0.0007	0.0008	0.0008	0.0009	0.0009	0.0008
8.1	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0009	0.0008
8.3	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0007	0.0007	0.0008
8.5	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008
8.7	0.0006	0.0006	0.0006	0.0007	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007
8.9	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008

Remark:

<b>Higher frequencies-EA5KSI</b>											
<i>Oberschwingungen</i>											
<b>Active power</b> <b>P/P<sub>n</sub> [%]</b> <i>Wirkleistung</i> <i>P/P<sub>n</sub> [%]</i>	0	10	20	30	40	50	60	70	80	90	100
<b>Harmonic number</b> <i>Ordnungszahl</i>	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2.1	0.0032	0.0034	0.0032	0.0063	0.0062	0.0070	0.0079	0.0093	0.0099	0.0104	0.0117
2.3	0.0036	0.0028	0.0028	0.0057	0.0058	0.0069	0.0078	0.0092	0.0104	0.0115	0.0127
2.5	0.0029	0.0024	0.0028	0.0052	0.0054	0.0064	0.0078	0.0092	0.0105	0.0129	0.0131
2.7	0.0020	0.0027	0.0033	0.0047	0.0049	0.0057	0.0068	0.0084	0.0100	0.0121	0.0120
2.9	0.0023	0.0029	0.0023	0.0044	0.0044	0.0054	0.0063	0.0074	0.0088	0.0100	0.0100
3.1	0.0031	0.0023	0.0019	0.0040	0.0041	0.0049	0.0054	0.0063	0.0071	0.0080	0.0076
3.3	0.0027	0.0017	0.0022	0.0038	0.0037	0.0043	0.0048	0.0053	0.0060	0.0066	0.0064
3.5	0.0017	0.0020	0.0024	0.0038	0.0035	0.0039	0.0043	0.0050	0.0053	0.0056	0.0056
3.7	0.0025	0.0030	0.0023	0.0033	0.0034	0.0037	0.0041	0.0043	0.0048	0.0048	0.0052
3.9	0.0021	0.0022	0.0015	0.0028	0.0027	0.0032	0.0034	0.0038	0.0042	0.0042	0.0046
4.1	0.0034	0.0020	0.0017	0.0028	0.0028	0.0030	0.0032	0.0035	0.0037	0.0038	0.0040
4.3	0.0017	0.0012	0.0015	0.0022	0.0022	0.0025	0.0027	0.0030	0.0032	0.0033	0.0034
4.5	0.0011	0.0017	0.0013	0.0021	0.0020	0.0022	0.0025	0.0027	0.0029	0.0029	0.0031
4.7	0.0021	0.0018	0.0017	0.0027	0.0024	0.0023	0.0023	0.0024	0.0027	0.0026	0.0030
4.9	0.0011	0.0013	0.0014	0.0019	0.0019	0.0019	0.0020	0.0021	0.0023	0.0023	0.0025
5.1	0.0011	0.0008	0.0009	0.0014	0.0013	0.0015	0.0016	0.0018	0.0019	0.0019	0.0019
5.3	0.0009	0.0009	0.0008	0.0013	0.0012	0.0014	0.0015	0.0016	0.0017	0.0018	0.0018
5.5	0.0010	0.0009	0.0009	0.0012	0.0013	0.0014	0.0014	0.0014	0.0015	0.0016	0.0016
5.7	0.0007	0.0007	0.0009	0.0010	0.0010	0.0011	0.0012	0.0012	0.0013	0.0014	0.0014
5.9	0.0009	0.0007	0.0008	0.0010	0.0010	0.0010	0.0011	0.0012	0.0012	0.0013	0.0013
6.1	0.0007	0.0007	0.0007	0.0009	0.0009	0.0009	0.0010	0.0010	0.0011	0.0011	0.0012
6.3	0.0007	0.0007	0.0006	0.0008	0.0008	0.0009	0.0009	0.0010	0.0010	0.0011	0.0011
6.5	0.0007	0.0007	0.0007	0.0009	0.0009	0.0009	0.0009	0.0009	0.0010	0.0010	0.0011
6.7	0.0007	0.0008	0.0008	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0010	0.0011
6.9	0.0008	0.0008	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0009	0.0009	0.0009
7.1	0.0007	0.0007	0.0006	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0009	0.0009
7.3	0.0007	0.0007	0.0007	0.0008	0.0007	0.0008	0.0008	0.0008	0.0008	0.0009	0.0009
7.5	0.0007	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0009
7.7	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0009	0.0009
7.9	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0009	0.0009	0.0009
8.1	0.0007	0.0007	0.0006	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0009	0.0008
8.3	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008
8.5	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0007	0.0008	0.0008	0.0008	0.0008
8.7	0.0006	0.0006	0.0006	0.0006	0.0006	0.0007	0.0006	0.0007	0.0007	0.0007	0.0007
8.9	0.0008	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
Remark:											

<b>Higher frequencies-EA6KSI</b>											
<i>Oberschwingungen</i>											
<b>Active power</b> <b>P/P<sub>n</sub> [%]</b> <i>Wirkleistung</i> <i>P/P<sub>n</sub> [%]</i>	0	10	20	30	40	50	60	70	80	90	100
<b>Harmonic number</b> <i>Ordnungszahl</i>	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]	[%]
2.1	0.0031	0.0030	0.0051	0.0056	0.0067	0.0077	0.0090	0.0101	0.0105	0.0122	0.0112
2.3	0.0033	0.0026	0.0049	0.0053	0.0064	0.0076	0.0094	0.0111	0.0117	0.0141	0.0133
2.5	0.0027	0.0025	0.0050	0.0049	0.0058	0.0072	0.0096	0.0124	0.0144	0.0143	0.0166
2.7	0.0022	0.0031	0.0042	0.0042	0.0053	0.0067	0.0086	0.0119	0.0153	0.0129	0.0193
2.9	0.0022	0.0025	0.0036	0.0040	0.0051	0.0058	0.0076	0.0105	0.0138	0.0112	0.0161
3.1	0.0026	0.0018	0.0035	0.0035	0.0043	0.0055	0.0072	0.0086	0.0115	0.0086	0.0119
3.3	0.0020	0.0017	0.0034	0.0034	0.0041	0.0048	0.0062	0.0070	0.0091	0.0070	0.0090
3.5	0.0014	0.0022	0.0028	0.0033	0.0039	0.0043	0.0048	0.0058	0.0071	0.0061	0.0074
3.7	0.0026	0.0028	0.0027	0.0032	0.0036	0.0039	0.0044	0.0052	0.0058	0.0055	0.0064
3.9	0.0022	0.0016	0.0027	0.0025	0.0029	0.0034	0.0039	0.0045	0.0047	0.0048	0.0059
4.1	0.0031	0.0016	0.0027	0.0027	0.0028	0.0032	0.0035	0.0039	0.0041	0.0042	0.0052
4.3	0.0013	0.0014	0.0020	0.0021	0.0024	0.0026	0.0029	0.0035	0.0036	0.0038	0.0045
4.5	0.0011	0.0015	0.0019	0.0021	0.0022	0.0024	0.0027	0.0031	0.0033	0.0035	0.0041
4.7	0.0015	0.0016	0.0022	0.0020	0.0023	0.0022	0.0025	0.0027	0.0030	0.0030	0.0038
4.9	0.0009	0.0014	0.0016	0.0017	0.0019	0.0020	0.0022	0.0024	0.0026	0.0026	0.0034
5.1	0.0009	0.0009	0.0012	0.0013	0.0014	0.0016	0.0018	0.0020	0.0022	0.0022	0.0028
5.3	0.0009	0.0009	0.0012	0.0012	0.0013	0.0015	0.0016	0.0019	0.0020	0.0019	0.0025
5.5	0.0012	0.0009	0.0012	0.0012	0.0013	0.0014	0.0015	0.0017	0.0017	0.0017	0.0022
5.7	0.0007	0.0008	0.0009	0.0010	0.0011	0.0011	0.0013	0.0015	0.0015	0.0015	0.0018
5.9	0.0009	0.0008	0.0009	0.0010	0.0010	0.0011	0.0012	0.0014	0.0014	0.0014	0.0016
6.1	0.0007	0.0008	0.0008	0.0010	0.0010	0.0010	0.0011	0.0012	0.0013	0.0013	0.0015
6.3	0.0007	0.0008	0.0009	0.0008	0.0009	0.0009	0.0010	0.0011	0.0012	0.0011	0.0013
6.5	0.0008	0.0007	0.0008	0.0008	0.0009	0.0010	0.0010	0.0010	0.0011	0.0011	0.0012
6.7	0.0008	0.0008	0.0009	0.0009	0.0010	0.0010	0.0010	0.0011	0.0011	0.0011	0.0012
6.9	0.0007	0.0006	0.0007	0.0007	0.0007	0.0008	0.0008	0.0009	0.0009	0.0009	0.0010
7.1	0.0007	0.0006	0.0007	0.0007	0.0007	0.0008	0.0008	0.0009	0.0009	0.0009	0.0010
7.3	0.0008	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0009	0.0009	0.0009	0.0010
7.5	0.0007	0.0006	0.0007	0.0007	0.0008	0.0008	0.0008	0.0009	0.0009	0.0009	0.0009
7.7	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0009	0.0009	0.0009	0.0009
7.9	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0009	0.0009	0.0010	0.0009
8.1	0.0006	0.0006	0.0006	0.0006	0.0007	0.0007	0.0007	0.0008	0.0008	0.0009	0.0008
8.3	0.0006	0.0006	0.0007	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008
8.5	0.0007	0.0007	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008
8.7	0.0006	0.0006	0.0006	0.0006	0.0006	0.0007	0.0006	0.0007	0.0007	0.0007	0.0007
8.9	0.0008	0.0007	0.0007	0.0008	0.0008	0.0008	0.0008	0.0008	0.0008	0.0009	0.0009
Remark:											

## F.4 Anforderungen an den Prüfbericht zum NA-Schutz F.4 Requirement for the test report for the NS protection

**Auszug aus dem Prüfbericht zum Einheiten-Zertifikat** 50185159 001

Extract from the test report on the certificate of units

**“Bestimmung der elektrischen Eigenschaften”**

“Determination of electrical properties”

**NA-Schutz als Zentraler NA-Schutz**  
NS Protection as Central NA Protection

**Typ NA-Schutz:**

Type of NS protection:

**Weitere Herstellerangaben**

Other manufacturer's data

**Software version:**

Software Version:

**Hersteller:**

Manufacturer:

**Messzeitraum:**

Measuring period:

Schutzfunktion Protection function	Einstellwert Setting value	Auslösewert Tripping value	Auslösewert NA-Schutz <sup>a</sup> Tripping time NS protection <sup>a</sup>
<b>Spannungsrückgangsschutz U&lt;</b> Voltage decrease protection U <	0,8 * U <sub>n</sub>		
<b>Spannungssteigerungsschutz U&gt;</b> Voltage increase protection U >	1,1 * U <sub>n</sub>		
<b>Spannungssteigerungsschutz U&gt;&gt;</b> Voltage increase protection U >>	1,15 * U <sub>n</sub>		
<b>Frequenzrückgangsschutz f&lt;</b> Frequency decrease protection f <	47,5Hz		
<b>Frequenzsteigerungsschutz f&gt;</b> Frequency increase protection f >	51,5Hz		

<sup>a</sup> Die Auslösezeit umfasst den Zeitraum von der Grenzwertverletzung U/f bis zum Auslösesignal an den Kuppelschalter,

<sup>a</sup> The tripping time comprises the period before limit violation U/f until tripping signal to interface switch,

Bei der Planung der Erzeugungsanlage ist die Eigenzeit des Kuppelschalters zum höchsten oben ermittelten Zeitwert zu addieren,

Die Abschaltzeit (Summe der Auslösezeit NA-Schutz zzgl. Eigenzeit des Kuppelschalters) darf 200ms nicht überschreiten,

During planning of power generation system the proper time of interface switch shall be added to the highest value of time determined above,

The break time (sum of tripping time NS protection plus proper time of interface switch) should not exceed 200 ms.

**NA-Schutz als Integrierter NA-Schutz**  
NS Protection as integrated NS Protection

**Hinweis zur NA-Schutz-Einheit: Der Wechselrichter integrierten NA-Schutz erfüllt alle Anforderungen der VDE-AR-N 4105.**

**Aber es wird empfohlen, dass ein zentralen NA-Schutz bei EZA < 30kVA installieren.**

Note for NS-Protection: The inverter integrated NS-protection fulfill all requirements of VDE-AR-N 4105. However, it's recommended that a central NS-protection shall be installed in a PGS < 30kVA.

**Typ NA-Schutz:**

Type of NS protection:

Integrierten NA-Schutz

**Weitere Herstellerangaben**

Other manufacturer's data

**Software version:**

Software Version:

V009

**Zugeordnet zu Erzeugungseinheit Typ:**

Assigned to PGU type:

Wechselrichter

[Transformatorlos]

**Hersteller:**

Manufacturer:

EAST Group Co., Ltd.

**Integrierter Kuppelschalter**

Integrated interface switch

**Typ Schalteinrichtung 1:**

Type of switching equipment 1:

Leistungsrelais

**Typ Schalteinrichtung 2:**

Type of switching equipment 2:

Leistungsrelais

**Messzeitraum: Vom 2018-08-10 bis 2018-09-10**

Measuring period:

Schutzfunktion Protection function	Einstellwert Setting value	Auslösewert Tripping value	Abschaltzeit Break time
<b>Spannungsrückgangsschutz U&lt;</b> Voltage decrease protection U <	0,8 * U <sub>n</sub>	183.6V	115ms
<b>Spannungssteigerungsschutz U&gt;</b> Voltage increase protection U >	1,1 * U <sub>n</sub>	253.3V	478s*
<b>Spannungssteigerungsschutz U&gt;&gt;</b> Voltage increase protection U >>	1,15 * U <sub>n</sub>	264.3V	127ms
<b>Frequenzrückgangsschutz f&lt;</b> Frequency decrease protection f <	47,5Hz	47.50Hz	135ms
<b>Frequenzsteigerungsschutz f&gt;</b> Frequency increase protection f >	51,5Hz	51.49Hz	75ms

**Davon Eigenzeit des Kuppelschalters**

Proper time of interface switch

< 20 ms

Die Abschaltzeit (Summe der Auslöse NA-Schutz zzgl. Eigenzeit des Kuppelschalters) darf 200ms nicht überschreiten,

Die Überprüfung der Gesamtwirkungskette “NA-Schutz-Kuppelschalter” führte zu einer erfolgreichen Abschaltung,

The break time (sum of tripping time NS protection plus proper time of interface switch) should not exceed 200 ms,

The verification of the full function chain “NS protection- Interface switch” has yield to intended disconnection