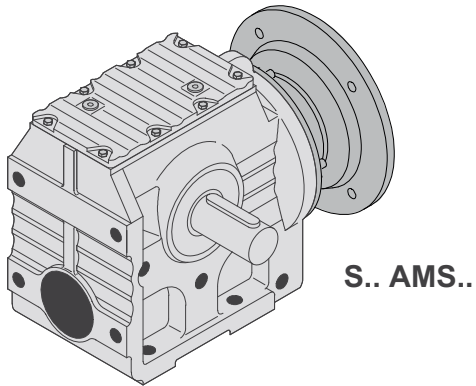
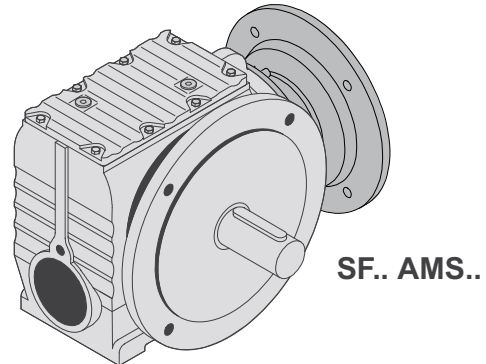


11 S.. helical-worm gear units

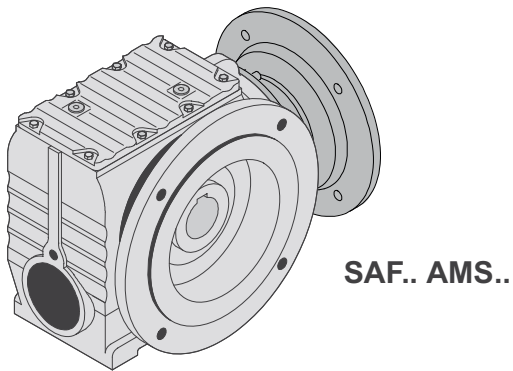
11.1 Selection tables for adapters for mounting IEC/NEMA motors (AMS..)



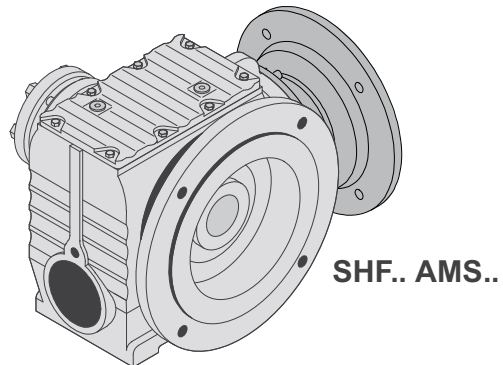
S.. AMS..



SF.. AMS..

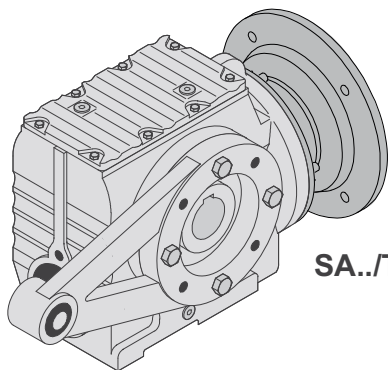
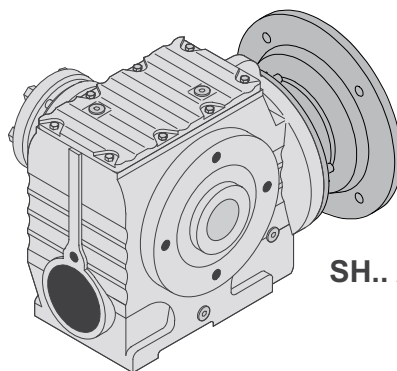
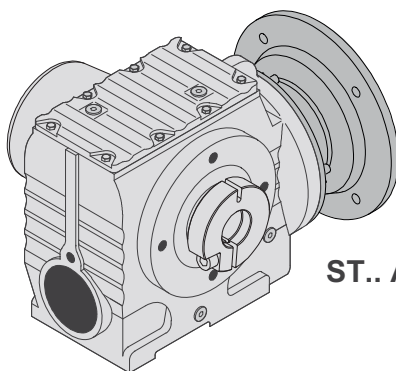
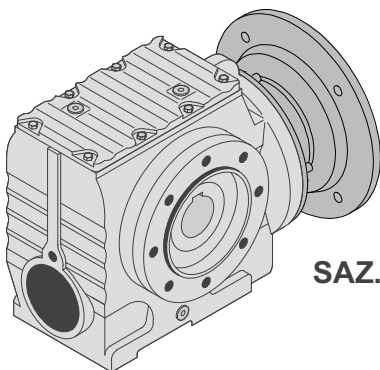
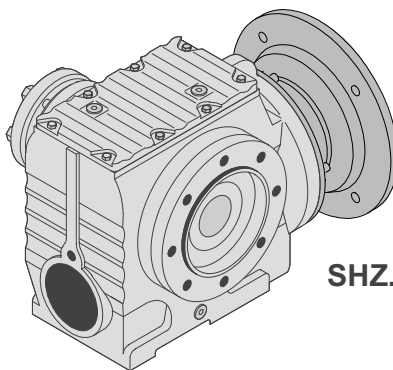


SAF.. AMS..



SHF.. AMS..

9007220696342155

**SA../T AMS..****SH.. AMS..****ST.. AMS..****SAZ.. AMS..****SHZ.. AMS..**

9007220696344587

27797880/EN – 03/2023

S37, $n_e = 1400 \text{ min}^{-1}$, $M_{a \text{ max}}/\text{Nm}$					92 Nm			
i	n_a min^{-1}	$M_{a \text{ max G}}$ Nm	$F_{Ra}^{1)}$ N	$\varphi_{(R)}$ °	AMS			
					63	71	80	90
 2								
3.97 ²⁾	353	32	1400	-	24	24	32	32
4.86 ²⁾	288	33	1520	-	29	29	33	33
5.38 ²⁾	260	34	1570	-	32	32	34	34
6.33 ²⁾	221	35	1670	-	35	35	35	35
6.80 ²⁾	206	43	1630	-	40	40	43	43
8.00 ²⁾	175	45	1730	-	45	45	45	45
9.02 ²⁾	155	46	1810	-	46	46	46	46
10.23 ²⁾	137	47	1900	-	47	47	47	47
10.91 ²⁾	128	48	1940	-	48	48	48	48
12.48 ²⁾	112	48	2060	-	48	48	48	48
13.39 ²⁾	105	49	2110	-	49	49	49	49
15.53	90	50	2240	-	50	50	50	
18.24	77	52	2380	-	52	52		
19.13 ²⁾	73	71	2380	-	71	71	71	71
19.89	70	52	2470	-	52	52		
22.50 ²⁾	62	73	2530	-	73	73	73	73
25.38 ²⁾	55	74	2660	-	74	74	74	74
28.76 ²⁾	49	75	2800	-	75	75	75	75
30.68 ²⁾	46	76	2860	-	76	76	76	76
35.10 ²⁾	40	78	3000	-	78	78	78	78
37.66 ²⁾	37	79	3000	-	79	79	79	79
43.68	32	81	3000	-	81	81	81	
51.30	27	81	3000	-	81	81		
53.83 ²⁾	26	80	3000	-	80	80	80	80
55.93	25	81	3000	-	81	81		
63.33 ²⁾	22	82	3000	-	82	82	82	82
71.44 ²⁾	20	84	3000	-	84	84	84	84
80.96 ²⁾	17	85	3000	-	85	85	85	85
86.36 ²⁾	16	86	3000	-	86	86	86	86
98.80 ²⁾	14	87	3000	-	87	87	87	87
106.00 ²⁾	13	88	3000	-	88	88	88	88
122.94 ²⁾	11	91	3000	-	91	91	91	
144.40	9.7	92	3000	-	92	92		
157.43	8.9	92	3000	-	92	92		

S37, m /kg			AMS			
S	IEC	s	63	71	80	90
		 2	8.6	8.9	11	11
	NEMA	s	-	56	143	145
		 2	-	9.8	10	11
SF: + 1.3 kg / SA: + -0.25 kg / SAF: + 1.3 kg						

S37p, $n_e = 1400 \text{ min}^{-1}$, $M_{a \text{ max}}/\text{Nm}$					105 Nm			
i	n_a min^{-1}	$M_{a \text{ max G}}$ Nm	$F_{Ra}^{(1)}$ N	$\varphi_{(R)}$ °	AMS			
					63	71	80	90
 2								
3.97	353	44	1070	-	25	25	44	44
4.86	288	48	1140	-	30	30	48	48
5.38	260	51	1130	-	34	34	51	51
6.33	221	56	1120	-	40	40	56	56
6.80	206	60	1210	-	42	42	60	60
8.00	175	66	1200	-	50	50	66	66
9.02	155	70	1210	-	57	57	70	70
10.23	137	73	1280	-	64	64	73	73
10.91	128	73	1380	-	69	69	73	73
12.48	112	74	1560	-	74	74	74	74
13.39	105	75	1640	-	75	75	75	75
15.53	90	76	1860	-	76	76	76	
18.24	77	78	2040	-	78	78		
19.13	73	89	2170	-	89	89	89	89
19.89	70	78	2130	-	78	78		
22.50	62	95	2280	-	95	95	95	95
25.38	55	100	2360	-	100	100	100	100
28.76	49	105	2450	-	105	105	105	105
30.68	46	105	2530	-	105	105	105	105
35.10	40	105	2700	-	105	105	105	105
37.66	37	105	2800	-	105	105	105	105
43.68	32	105	3000	-	105	105	105	
51.30	27	104	3000	-	104	104		
53.83	26	92	3000	-	92	92	92	92
55.93	25	104	3000	-	104	104		
63.33	22	98	3000	-	98	98	98	98
71.44	20	100	3000	-	100	100	100	100
80.96	17	99	3000	-	99	99	99	99
86.36	16	98	3000	-	98	98	98	98
98.80	14	97	3000	-	97	97	97	97
106.00	13	97	3000	-	97	97	97	97
122.94	11	96	3000	-	96	96	96	
144.40	9.7	95	3000	-	95	95		
157.43	8.9	94	3000	-	94	94		

S37p, m / kg			AMS			
S	IEC	s	63	71	80	90
		 2	8.6	8.9	11	11
	NEMA	s	-	56	143	145
		 2	-	9.8	10	11

SF: + 1.3 kg / SA: + -0.25 kg / SAF: + 1.3 kg

S47, $n_e = 1400 \text{ min}^{-1}$, $M_{a \text{ max}}/\text{Nm}$					170 Nm			
i	n_a min^{-1}	$M_{a \text{ max G}}$ Nm	$F_{Ra}^{1)}$ N	$\varphi_{(R)}$ °	AMS			
					63	71	80	90
 2								
4.00 ²⁾	350	61	1980	-	24	24	61	61
4.76 ²⁾	294	72	2010	-	28	28	72	72
5.39 ²⁾	260	74	2110	-	32	32	74	74
6.40 ²⁾	219	76	2260	-	38	38	76	76
6.83 ²⁾	205	78	2300	-	41	41	78	78
7.28 ²⁾	192	103	2110	-	43	43	103	103
8.64 ²⁾	162	109	2230	-	51	51	109	109
9.23 ²⁾	152	109	2310	-	54	54	109	109
10.80 ²⁾	130	109	2500	-	64	64	109	109
12.10 ²⁾	116	109	2650	-	72	72	109	109
14.24 ²⁾	98	110	2850	-	84	84	110	110
16.47	85	110	3060	-	97	97	110	110
17.62	79	110	3160	-	104	104	110	110
19.54 ²⁾	72	144	3370	-			144	144
20.33	69	110	3370	-	110	110	110	
23.20 ²⁾	60	152	3570	-	126	126	152	152
24.77 ²⁾	57	155	3650	-	134	134	155	155
29.00 ²⁾	48	155	3920	-	155	155	155	155
32.48 ²⁾	43	155	4120	-	155	155	155	155
38.23 ²⁾	37	155	4420	-	155	155	155	155
44.22 ²⁾	32	155	4710	-	155	155	155	155
47.32 ²⁾	30	155	4850	-	155	155	155	155
54.59	26	155	5150	-	155	155	155	
56.61 ²⁾	25	165	5320	-			165	165
63.80	22	155	5370	-	155	155		
67.20 ²⁾	21	167	5360	-	167	167	167	167
69.39	20	155	5370	-	155	155		
71.75 ²⁾	20	167	5360	-	167	167	167	167
84.00 ²⁾	17	167	5360	-	167	167	167	167
94.08 ²⁾	15	168	5350	-	168	168	168	168
110.73 ²⁾	13	168	5350	-	168	168	168	168
128.10 ²⁾	11	168	5350	-	168	168	168	168
137.05 ²⁾	10	168	5350	-	168	168	168	168
158.12 ²⁾	8.9	170	5340	-	170	170	170	
184.80	7.6	170	5340	-	170	170		
201.00	7.0	170	5340	-	170	170		

S47, m /kg			AMS			
S	IEC	s	63	71	80	90
		 2	12	12	14	14
	NEMA	s	-	56	143	145
		 2	-	13	14	14
SF: + 3.6 kg / SA: + 1.1 kg / SAF: + 2.8 kg						

S47p, $n_e = 1400 \text{ min}^{-1}$, $M_{a \text{ max}}/\text{Nm}$					200 Nm			
i	n_a min^{-1}	$M_{a \text{ max G}}$ Nm	$F_{Ra}^{(1)}$ N	$\varphi_{(R)}$ °	AMS			
					63	71	80	90
 2								
4.00	350	75	1860	-	24	24	71	75
4.76	294	91	1740	-	29	29	84	91
5.39	260	104	1540	-	33	33	95	104
6.40	219	118	1420	-	40	40	114	118
6.83	205	120	1490	-	42	42	120	120
7.28	192	109	2110	-	45	45	109	109
8.64	162	131	1820	-	53	53	131	131
9.23	152	134	1870	-	57	57	134	134
10.80	130	142	1990	-	67	67	142	142
12.10	116	146	2130	-	75	75	146	146
14.24	98	152	2350	-	89	89	152	152
16.47	85	155	2630	-	103	103	155	155
17.62	79	156	2720	-	110	110	156	156
19.54	72	156	3280	-			156	156
20.33	69	160	2890	-	128	128	160	
23.20	60	165	3480	-	137	137	165	165
24.77	57	169	3550	-	146	146	169	169
29.00	48	179	3730	-	172	172	179	179
32.48	43	186	3880	-	186	186	186	186
38.23	37	196	4090	-	196	196	196	196
44.22	32	200	4350	-	200	200	200	200
47.32	30	200	4480	-	200	200	200	200
54.59	26	200	4790	-	200	200	200	
56.61	25	179	5220	-			179	179
63.80	22	200	5130	-	200	200		
67.20	21	189	5250	-	189	189	189	189
69.39	20	200	5130	-	200	200		
71.75	20	194	5220	-	194	194	194	194
84.00	17	199	5190	-	199	199	199	199
94.08	15	198	5200	-	198	198	198	198
110.73	13	197	5200	-	197	197	197	197
128.10	11	196	5210	-	196	196	196	196
137.05	10	195	5210	-	195	195	195	195
158.12	8.9	194	5220	-	194	194	194	
184.80	7.6	193	5220	-	193	193		
201.00	7.0	192	5230	-	192	192		

S47p, m /kg			AMS			
S	IEC	s	63	71	80	90
		 2	12	12	14	14
	NEMA	s	-	56	143	145
		 2	-	13	14	14

SF: + 3.6 kg / SA: + 1.1 kg / SAF: + 2.8 kg

S57, $n_e = 1400 \text{ min}^{-1}$, $M_{a \text{ max}}/\text{Nm}$					295 Nm			
i	n_a min^{-1}	$M_{a \text{ max G}}$ Nm	$F_{Ra}^{1)}$ N	$\varphi_{(R)}$ °	AMS			
					63	71	80	90
 2								
4.00 ²⁾	350	88	3380	-	24	24	68	88
4.76 ²⁾	294	93	3590	-	28	28	82	93
5.39 ²⁾	260	95	3760	-	32	32	92	95
6.40 ²⁾	219	98	4010	-	38	38	98	98
6.83 ²⁾	205	100	4100	-	41	41	100	100
7.28 ²⁾	192	146	3790	-	43	43	123	146
8.64 ²⁾	162	166	3900	-	51	51	146	166
9.23 ²⁾	152	169	3990	-	55	55	156	169
10.80 ²⁾	130	169	4290	-	64	64	169	169
12.10 ²⁾	116	169	4520	-	72	72	169	169
14.24	98	169	4860	-	84	84	169	169
16.47	85	168	5200	-	98	98	168	168
17.62	79	168	5350	-	104	104	168	168
19.54 ²⁾	72	215	5720	-			215	215
20.33	69	168	5690	-	118	118	168	
23.20 ²⁾	60	245	5930	-	127	127	245	245
24.77 ²⁾	57	245	6100	-	135	135	245	245
29.00 ²⁾	48	245	6520	-	158	158	245	245
32.48 ²⁾	43	245	6840	-	176	176	245	245
38.23 ²⁾	37	245	7320	-	205	205	245	245
44.22 ²⁾	32	245	7520	-	235	235	245	245
47.32 ²⁾	30	245	7520	-	245	245	245	245
54.59	26	245	7520	-	245	245	245	
56.61 ²⁾	25	265	7370	-			265	265
63.80	22	245	7520	-	245	245		
67.20 ²⁾	21	285	7220	-	285	285	285	285
69.39	20	245	7520	-	245	245		
71.75 ²⁾	20	290	7170	-	290	290	290	290
84.00 ²⁾	17	295	7130	-	295	295	295	295
94.08 ²⁾	15	295	7130	-	295	295	295	295
110.73 ²⁾	13	295	7130	-	295	295	295	295
128.10 ²⁾	11	295	7130	-	295	295	295	295
137.05 ²⁾	10	295	7130	-	295	295	295	295
158.12	8.9	295	7130	-	295	295	295	
184.80	7.6	295	7130	-	295	295		
201.00	7.0	295	7130	-	295	295		

S57, m /kg			AMS			
S	IEC	s	63	71	80	90
		 2	15	16	17	18
	NEMA	s	-	56	143	145
		 2	-	17	17	17
SF: + 3.8 kg / SA: + -0.30 kg / SAF: + 2.6 kg						

S57p, $n_e = 1400 \text{ min}^{-1}$, $M_{a \text{ max}}/\text{Nm}$					370 Nm			
i	n_a min^{-1}	$M_{a \text{ max G}}$ Nm	$F_{Ra}^{(1)}$ N	$\varphi_{(R)}$ °	AMS			
					63	71	80	90
 2								
4.00	350	108	3240	-	24	24	70	93
4.76	294	129	3290	-	29	29	84	110
5.39	260	147	3300	-	33	33	95	125
6.40	219	156	3490	-	40	40	113	139
6.83	205	162	3550	-	42	42	121	142
7.28	192	155	3790	-	45	45	128	155
8.64	162	187	3800	-	53	53	152	186
9.23	152	199	3800	-	57	57	163	191
10.80	130	225	3860	-	67	67	186	200
12.10	116	225	4090	-	75	75	200	210
14.24	98	225	4440	-	89	89	210	215
16.47	85	225	4760	-	103	103	225	225
17.62	79	225	4920	-	111	111	225	225
19.54	72	250	5500	-			250	250
20.33	69	225	5260	-	125	125	225	
23.20	60	270	5780	-	137	137	270	270
24.77	57	275	5910	-	147	147	275	275
29.00	48	290	6230	-	172	172	290	290
32.48	43	300	6480	-	193	193	300	300
38.23	37	320	6820	-	225	225	320	320
44.22	32	335	6740	-	260	260	335	335
47.32	30	345	6640	-	280	280	345	345
54.59	26	360	6470	-	315	315	360	
56.61	25	295	7130	-			295	295
63.80	22	370	6350	-	325	325		
67.20	21	310	6990	-	310	310	310	310
69.39	20	370	6350	-	330	330		
71.75	20	320	6900	-	320	320	320	320
84.00	17	335	6740	-	335	335	335	335
94.08	15	350	6580	-	350	350	350	350
110.73	13	365	6410	-	365	365	365	365
128.10	11	365	6410	-	365	365	365	365
137.05	10	360	6470	-	360	360	360	360
158.12	8.9	360	6470	-	360	360	360	
184.80	7.6	355	6530	-	355	355		
201.00	7.0	355	6530	-	355	355		

S57p, m /kg			AMS			
S	IEC	s	63	71	80	90
		 2	15	16	17	18
	NEMA	s	-	56	143	145
		 2	-	17	17	17

SF: + 3.8 kg / SA: + -0.30 kg / SAF: + 2.6 kg

S67, $n_e = 1400 \text{ min}^{-1}$, $M_{a \text{ max}}/\text{Nm}$					520 Nm						
i	n_a min^{-1}	$M_{a \text{ max G}}$ Nm	$F_{Ra}^{(1)}$ N	$\varphi_{(R)}$ °	63	71	80	AMS 90	100	112	132S/M
 2											
7.56 ⁽²⁾	185	295	3220	-			127	167	295	295	295
8.69 ⁽²⁾	161	335	2860	-	49	49	146	192	335	335	335
10.03 ⁽²⁾	140	340	3290	-	57	57	169	220	340	340	340
11.03 ⁽²⁾	127	340	3660	-	63	63	186	240	340	340	340
12.96 ⁽²⁾	108	340	4310	-	75	75	215	265	340	340	340
13.73 ⁽²⁾	102	340	4510	-	80	80	230	270	340	340	340
15.60	90	340	4820	-	91	91	255	275	340	340	
17.28	81	340	5080	-	101	101	275	285	340	340	
20.30 ⁽²⁾	69	425	5760	-						425	425
20.37	69	340	5520	-	120	120	290	295	340		
23.22	60	340	5890	-	136	136	300	310			
23.33 ⁽²⁾	60	480	5810	-					480	480	480
24.44	57	340	6040	-	144	144	300	310			
26.93 ⁽²⁾	52	480	6240	-	143	143	415	480	480	480	480
29.63 ⁽²⁾	47	480	6540	-	158	158	455	480	480	480	480
34.80 ⁽²⁾	40	480	7060	-	185	185	480	480	480	480	480
36.85 ⁽²⁾	38	480	7250	-	196	196	480	480	480	480	480
41.89 ⁽²⁾	33	480	7690	-	220	220	480	480	480	480	
46.40 ⁽²⁾	30	480	8060	-	245	245	480	480	480	480	
54.70	26	480	8670	-	290	290	480	480	480		
58.80 ⁽²⁾	24	500	8850	-						500	500
62.35	22	480	9020	-	330	330	480	480			
65.63	21	480	9020	-	345	345	480	480			
67.57 ⁽²⁾	21	520	8680	-					520	520	520
75.06	19	480	9020	-	390	390	480				
78.00 ⁽²⁾	18	520	8680	-			520	520	520	520	520
85.83 ⁽²⁾	16	520	8680	-	370	370	520	520	520	520	520
100.80 ⁽²⁾	14	520	8680	-	435	435	520	520	520	520	520
106.75 ⁽²⁾	13	520	8680	-	460	460	520	520	520	520	520
121.33 ⁽²⁾	12	520	8680	-	520	520	520	520	520	520	
134.40 ⁽²⁾	10	520	8680	-	520	520	520	520	520	520	
158.45 ⁽²⁾	8.8	520	8680	-	520	520	520	520	520		
180.60 ⁽²⁾	7.8	520	8680	-	520	520	520	520			
190.11 ⁽²⁾	7.4	520	8680	-	520	520	520	520			
217.41	6.4	520	8680	-	520	520	520				

S67, m /kg			AMS						
S	IEC	s	63	71	80	90	100	112	132S/M
		 2	27	27	29	30	34	34	39
	NEMA	s	-	56	143	145	182	184	213/215
		 2	-	28	29	29	32	32	36
SF: + 6.5 kg / SA: + 1.0 kg / SAF: + 5.5 kg									

SF: + 6.5 kg / SA: + 1.0 kg / SAF: + 5.5 kg

S67p, $n_e = 1400 \text{ min}^{-1}$, $M_{a \text{ max}}/\text{Nm}$											720 Nm
i	n_a min^{-1}	$M_{a \text{ max G}}$ Nm	$F_{Ra}^{(1)}$ N	$\varphi_{(R)}$ °	63	71	80	AMS 90	100	112	132S/M
 2											
7.56	185	330	2680	-			131	173	330	330	330
8.69	161	350	2780	-	51	51	151	199	350	350	350
10.03	140	365	3020	-	60	60	175	230	365	365	365
11.03	127	375	3190	-	66	66	193	250	375	375	375
12.96	108	390	3550	-	78	78	225	275	390	390	390
13.73	102	395	3690	-	83	83	240	280	395	395	395
15.60	90	410	3960	-	95	95	265	290	410	410	
17.28	81	415	4320	-	106	106	285	300	415	415	
20.30	69	450	5490	-						450	450
20.37	69	435	4700	-	126	126	305	310	435		
23.22	60	420	5300	-	144	144	320	325			
23.33	60	525	5440	-					525	525	525
24.44	57	415	5480	-	152	152	320	325			
26.93	52	600	5410	-	153	153	450	590	600	600	600
29.63	47	620	5580	-	170	170	495	620	620	620	620
34.80	40	640	5970	-	200	200	580	640	640	640	640
36.85	38	655	6070	-	210	210	615	655	655	655	655
41.89	33	670	6420	-	240	240	670	670	670	670	
46.40	30	680	6720	-	270	270	680	680	680	680	
54.70	26	705	7170	-	320	320	705	705	705		
58.80	24	625	8320	-						625	625
62.35	22	720	7580	-	365	365	720	720			
65.63	21	720	7790	-	385	385	720	720			
67.57	21	650	8740	-					650	650	650
75.06	19	720	8340	-	435	435	720				
78.00	18	660	9280	-			660	660	660	660	660
85.83	16	660	9700	-	435	435	660	660	660	660	660
100.80	14	645	10100	-	515	515	645	645	645	645	645
106.75	13	645	10100	-	545	545	645	645	645	645	645
121.33	12	645	10100	-	625	625	645	645	645	645	
134.40	10	645	10100	-	645	645	645	645	645	645	
158.45	8.8	645	10100	-	645	645	645	645	645		
180.60	7.8	645	10100	-	645	645	645	645			
190.11	7.4	640	10100	-	640	640	640	640			
217.41	6.4	640	10100	-	640	640	640				

S67p, m /kg			AMS						
S	IEC	s	63	71	80	90	100	112	132S/M
		 2	27	27	29	30	34	34	39
	NEMA	s	-	56	143	145	182	184	213/215
		 2	-	28	29	29	32	32	36
SF: + 6.5 kg / SA: + 1.0 kg / SAF: + 5.5 kg									

SF: + 6.5 kg / SA: + 1.0 kg / SAF: + 5.5 kg

S77, n _e = 1400 min ⁻¹ , M _{a max} /Nm											1270 Nm	
i	n _a min ⁻¹	M _{a max G} Nm	F _{Ra} ¹⁾ N	Φ _(/R) '	63	71	80	AMS		112	132S/M	132ML
 2												
8.06 ²⁾	174	680	440	-			133	177	385	445	680	680
9.44 ²⁾	148	725	415	-			157	205	440	525	725	725
10.65 ²⁾	131	720	1130	-			178	235	490	590	720	720
12.07 ²⁾	116	720	1800	-	66	66	200	265	540	670	720	720
13.76 ²⁾	102	710	2710	-	77	77	230	305	600	710	710	710
15.28	92	710	3320	-	86	86	255	335	650	710	710	
17.45	80	710	4120	-	99	99	290	370	710	710	710	
18.42	76	705	4550	-	105	105	310	375	705	705	705	
18.97 ²⁾	74	930	6390	-							930	930
20.99	67	705	5380	-	121	121	350	385	705	705		
22.22 ²⁾	63	980	6740	-							980	980
22.89	61	705	5960	-	132	132	380	390	705	705		
25.07 ²⁾	56	1020	7010	-			395	525	1020	1020	1020	1020
28.41 ²⁾	49	1050	7370	-	149	149	450	595	1050	1050	1050	1050
32.38 ²⁾	43	1090	7720	-	172	172	515	680	1090	1090	1090	1090
35.94 ²⁾	39	1100	8140	-	192	192	570	755	1100	1100	1100	
41.07 ²⁾	34	1100	8750	-	220	220	655	820	1100	1100	1100	
43.33 ²⁾	32	1100	9010	-	230	230	690	830	1100	1100	1100	
49.38	28	1100	9650	-	265	265	785	860	1100	1100		
53.87	26	1100	10100	-	290	290	850	860	1100	1100		
56.92 ²⁾	25	990	11600	-			765	990	990	990	990	990
63.03	22	1100	10900	-	345	345	870	890	1100			
66.67 ²⁾	21	1040	12300	-			890	1040	1040	1040	1040	1040
71.33	20	1100	11600	-	390	390	920	930				
75.09	19	1100	11900	-	410	410	920	930				
75.20 ²⁾	19	1070	12800	-					1070	1070	1070	1070
85.22 ²⁾	16	1100	13100	-	375	375	1100	1100	1100	1100	1100	1100
97.14 ²⁾	14	1140	12800	-	430	430	1140	1140	1140	1140	1140	1140
107.83 ²⁾	13	1170	12600	-	475	475	1170	1170	1170	1170	1170	
123.20 ²⁾	11	1200	12300	-	545	545	1200	1200	1200	1200	1200	
130.00 ²⁾	11	1210	12200	-	575	575	1210	1210	1210	1210	1210	
148.15 ²⁾	9.4	1240	12000	-	655	655	1240	1240	1240	1240		
161.60 ²⁾	8.7	1260	11800	-	715	715	1260	1260	1260	1260		
189.09 ²⁾	7.4	1270	11700	-	830	830	1270	1270	1270			
214.00	6.5	1270	11700	-	940	940	1270	1270				
225.26	6.2	1270	11700	-	990	990	1270	1270				
256.47	5.5	1270	11700	-	1120	1120	1270					

S77, m /kg			AMS							
S	IEC	s	63	71	80	90	100	112	132S/M	132ML
		 2	47	47	49	49	54	54	59	59
	NEMA	s	-	56	143	145	182	184	213/215	-
		 2	-	48	49	49	53	53	56	-
SF: + 9.7 kg / SA: + -0.55 kg / SAF: + 6.2 kg										

S77p, n _e = 1400 min ⁻¹ , M _{a max} /Nm												1500 Nm			
i	n _a min ⁻¹	M _{a max} G Nm	F _{Ra} ¹⁾ N	Φ _(/R) °	63	71	80	AMS					112	132S/M	132ML
 2															
8.06	174	680	920	-			137	182	395	460	680	680			
9.44	148	725	940	-			162	210	455	540	725	725			
10.65	131	720	1650	-			183	240	505	610	720	720			
12.07	116	720	2330	-	68	68	205	275	560	690	720	720			
13.76	102	745	2650	-	79	79	235	315	620	745	745	745			
15.28	92	765	2930	-	89	89	265	350	675	765	765				
17.45	80	795	3240	-	103	103	305	385	745	795	795				
18.42	76	800	3490	-	109	109	320	390	775	800	800				
18.97	74	1010	5960	-							1010	1010			
20.99	67	820	4010	-	126	126	365	400	820	820					
22.22	63	1070	6260	-							1070	1070			
22.89	61	840	4260	-	138	138	395	405	840	840					
25.07	56	1100	6580	-			420	555	1100	1100	1100	1100			
28.41	49	1140	6890	-	157	157	475	630	1140	1140	1140	1140			
32.38	43	1180	7250	-	182	182	545	720	1180	1180	1180	1180			
35.94	39	1210	7560	-	200	200	605	800	1210	1210	1210				
41.07	34	1240	8020	-	235	235	695	880	1240	1240	1240				
43.33	32	1250	8220	-	250	250	735	890	1250	1250	1250				
49.38	28	1280	8710	-	285	285	840	920	1280	1280					
53.87	26	1300	9050	-	315	315	910	930	1300	1300					
56.92	25	1230	10400	-			850	1130	1230	1230	1230	1230			
63.03	22	1320	9770	-	370	370	940	960	1320						
66.67	21	1290	11000	-			1000	1290	1290	1290	1290	1290			
71.33	20	1350	10300	-	420	420	990	1010							
75.09	19	1360	10500	-	445	445	990	1010							
75.20	19	1340	11500	-					1340	1340	1340	1340			
85.22	16	1390	12000	-	425	425	1290	1390	1390	1390	1390	1390			
97.14	14	1440	12600	-	490	490	1440	1440	1440	1440	1440	1440			
107.83	13	1470	12500	-	545	545	1470	1470	1470	1470	1470				
123.20	11	1500	12400	-	630	630	1500	1500	1500	1500	1500				
130.00	11	1500	12400	-	670	670	1500	1500	1500	1500	1500				
148.15	9.4	1500	12400	-	765	765	1500	1500	1500	1500					
161.60	8.7	1500	12400	-	840	840	1500	1500	1500	1500					
189.09	7.4	1500	12400	-	990	990	1500	1500	1500						
214.00	6.5	1500	12400	-	1120	1120	1500	1500							
225.26	6.2	1500	12400	-	1180	1180	1500	1500							
256.47	5.5	1500	12400	-	1340	1340	1500								

S77p, m /kg			AMS									
S	IEC	s	63	71	80	90	100	112	132S/M	132ML		
		 2	47	47	49	49	54	54	59	59		
	NEMA	s	-	56	143	145	182	184	213/215	-		
		 2	-	48	49	49	53	53	56	-		

SF: + 9.7 kg / SA: + -0.55 kg / SAF: + 6.2 kg

S87, $n_e = 1400 \text{ min}^{-1}$, $M_{a \text{ max}}/\text{Nm}$					2280 Nm						
i	n_a min^{-1}	$M_{a \text{ max G}}$ Nm	$F_{Ra}^{1)}$ N	$\varphi_{(R)}$ °	80	90	100	AMS 112	132S/M	132ML	160
 2											
7.88 ²⁾	178	1010	15700	-					820	1010	1010
9.07 ²⁾	154	1140	15900	-			455	500	940	1140	1140
10.93 ²⁾	128	1240	16400	-			540	605	1130	1240	1240
12.21 ²⁾	115	1240	17400	-	199	265	595	675	1240	1240	1240
14.06 ²⁾	100	1240	18500	-	230	305	675	780	1240	1240	1240
15.64 ²⁾	90	1240	19300	-	255	340	740	860	1240	1240	1240
17.49	80	1240	20200	-	290	385	810	970	1240	1240	1240
19.70	71	1240	21100	-	325	430	890	1050	1240	1240	1240
20.27 ²⁾	69	1600	22100	-						1600	1600
21.43	65	1240	21800	-	355	470	950	1070	1240		
24.43 ²⁾	57	1600	23700	-						1600	1600
25.50	55	1240	23400	-	425	525	1080	1120	1240		
27.28 ²⁾	51	1600	24700	-	425	570	1280	1450	1600	1600	1600
31.43 ²⁾	45	1600	26000	-	495	660	1450	1600	1600	1600	1600
34.96 ²⁾	40	1600	27100	-	550	735	1580	1600	1600	1600	1600
39.10 ²⁾	36	1600	28200	-	620	820	1600	1600	1600	1600	1600
44.03 ²⁾	32	1600	29000	-	700	930	1600	1600	1600	1600	1600
47.91	29	1600	29000	-	765	1010	1600	1600	1600		
57.00	25	1600	29000	-	910	1120	1600	1600	1600		
64.00 ²⁾	22	1700	28900	-					1700	1700	1700
64.27	22	1600	29000	-	1020	1140	1600	1600			
70.43	20	1600	29000	-	1120	1160	1600	1600			
77.14 ²⁾	18	1820	28700	-			1820	1820	1820	1820	1820
81.76	17	1600	29000	-	1140	1190	1600				
86.15 ²⁾	16	1880	28600	-	1150	1540	1880	1880	1880	1880	1880
91.20	15	1510	29100	-	1190	1210					
99.26 ²⁾	14	1960	28500	-	1330	1770	1960	1960	1960	1960	1960
110.40 ²⁾	13	2000	28400	-	1480	1970	2000	2000	2000	2000	2000
123.48 ²⁾	11	2060	28300	-	1650	2060	2060	2060	2060	2060	2060
139.05 ²⁾	10	2100	28300	-	1860	2100	2100	2100	2100	2100	2100
151.30 ²⁾	9.3	2150	28200	-	2020	2150	2150	2150	2150		
180.00 ²⁾	7.8	2210	28100	-	2210	2210	2210	2210	2210		
202.96	6.9	2260	28000	-	2260	2260	2260	2260			
222.40	6.3	2280	27900	-	2280	2280	2280	2280			
258.18	5.4	2280	27900	-	2280	2280	2280				
288.00	4.9	2280	27900	-	2280	2280					

S87, m /kg			AMS						
S	IEC	s	80	90	100	112	132S/M	132ML	160
		 2	85	85	90	90	96	96	110
	NEMA	s	143	145	182	184	213/215	-	254/256
		 2	85	85	89	89	93	-	105
SF: + 22 kg / SA: + -2.4 kg / SAF: + 14 kg									

S87p, $n_e = 1400 \text{ min}^{-1}$, $M_{a \text{ max}}/\text{Nm}$											3000 Nm
i	n_a min^{-1}	$M_{a \text{ max G}}$ Nm	$F_{Ra}^{(1)}$ N	$\varphi_{(R)}$ °	80	90	100	AMS 112	132S/M	132ML	160
 2											
7.88	178	1010	16100	-					830	1010	1010
9.07	154	1140	16300	-			465	510	960	1140	1140
10.93	128	1240	16800	-			555	620	1160	1240	1240
12.21	115	1240	17800	-	200	270	610	695	1240	1240	1240
14.06	100	1240	18900	-	235	315	695	800	1240	1240	1240
15.64	90	1260	19600	-	265	350	760	890	1260	1260	1260
17.49	80	1310	20200	-	295	395	830	1000	1310	1310	1310
19.70	71	1370	20900	-	335	445	920	1080	1370	1370	1370
20.27	69	1760	21600	-						1760	1760
21.43	65	1420	21400	-	370	490	980	1110	1420		
24.43	57	1890	22700	-						1890	1890
25.50	55	1440	22800	-	440	545	1120	1160	1440		
27.28	51	1970	23400	-	445	595	1340	1520	1970	1970	1970
31.43	45	2040	24500	-	520	690	1520	1750	2040	2040	2040
34.96	40	2090	25400	-	580	770	1660	1950	2090	2090	2090
39.10	36	2160	26200	-	655	860	1830	2160	2160	2160	2160
44.03	32	2210	27300	-	740	980	2010	2210	2210	2210	2210
47.91	29	2260	28000	-	800	1070	2150	2260	2260		
57.00	25	2330	27800	-	960	1190	2330	2330	2330		
64.00	22	2160	28200	-					2160	2160	2160
64.27	22	2380	27700	-	1090	1220	2380	2380			
70.43	20	2400	27700	-	1190	1240	2400	2400			
77.14	18	2280	27900	-			2280	2280	2280	2280	2280
81.76	17	2460	27500	-	1220	1270	2460				
86.15	16	2360	27800	-	1280	1710	2360	2360	2360	2360	2360
91.20	15	2490	27500	-	1270	1300					
99.26	14	2440	27600	-	1490	1980	2440	2440	2440	2440	2440
110.40	13	2510	27500	-	1660	2210	2510	2510	2510	2510	2510
123.48	11	2580	27300	-	1870	2480	2580	2580	2580	2580	2580
139.05	10	2670	27100	-	2110	2670	2670	2670	2670	2670	2670
151.30	9.3	2680	27100	-	2310	2680	2680	2680	2680		
180.00	7.8	2780	26200	-	2750	2780	2780	2780	2780		
202.96	6.9	2820	25500	-	2820	2820	2820	2820			
222.40	6.3	2860	24400	-	2860	2860	2860	2860			
258.18	5.4	2920	22600	-	2920	2920	2920				
288.00	4.9	3000	19800	-	3000	3000					

S87p, m /kg			AMS						
S	IEC	s	80	90	100	112	132S/M	132ML	160
		 2	85	85	90	90	96	96	110
	NEMA	s	143	145	182	184	213/215	-	254/256
		 2	85	85	89	89	93	-	105
SF: + 22 kg / SA: + -2.4 kg / SAF: + 14 kg									

S97, $n_e = 1400 \text{ min}^{-1}$, $M_{a \text{ max}}/\text{Nm}$					4000 Nm							
i	n_a min^{-1}	$M_{a \text{ max G}}$ Nm	$F_{Ra}^{1)}$ N	$\Phi_{(R)}$ °	AMS							
					100	112	132S/M	132ML	160	180	200	225
 2												
8.26 ²⁾	169	1770	18800	-			860	1310	1440	1770	1770	1770
9.55 ²⁾	147	2040	18200	-			990	1510	1670	2040	2040	2040
11.41 ²⁾	123	2210	18400	-			1190	1810	2000	2210	2210	2210
13.07 ²⁾	107	2330	18800	-	640	720	1360	1890	2290	2330	2330	2330
15.42 ²⁾	91	2470	19400	-	740	850	1610	2020	2470	2470	2470	2470
17.05 ²⁾	82	2570	19700	-	810	940	1780	2080	2570	2570	2570	2570
19.23	73	2600	21200	-	890	1070	2010	2140	2600	2600		
21.23	66	2600	22800	-	960	1180	2200	2200	2600	2600		
23.59	59	2600	24500	-	1050	1310	2250	2250	2600			
24.13 ²⁾	58	2870	28000	-						2870	2870	2870
26.39	53	2600	26100	-	1140	1390	2310	2310	2600			
27.63 ²⁾	51	3010	29000	-						3010	3010	3010
32.60 ²⁾	43	3200	30400	-	1510	1740	3200	3200	3200	3200	3200	3200
36.05 ²⁾	39	3300	31300	-	1650	1930	3300	3300	3300	3300	3300	3300
40.65 ²⁾	34	3300	32800	-	1820	2180	3300	3300	3300	3300		
44.89 ²⁾	31	3300	34100	-	1970	2400	3300	3300	3300	3300		
49.87	28	3300	34500	-	2130	2670	3300	3300	3300			
55.79	25	3300	34500	-	2320	2830	3300	3300	3300			
60.59	23	3300	34500	-	2460	2890	3300					
65.45 ²⁾	21	2900	35100	-			2900	2900	2900	2900	2900	2900
71.43	20	3300	34500	-	2750	2970	3300					
78.26 ²⁾	18	3080	34800	-			3080	3080	3080	3080	3080	3080
80.85	17	3230	34600	-	3020	3030						
89.60 ²⁾	16	3240	34600	-	3240	3240	3240	3240	3240	3240	3240	3240
105.71 ²⁾	13	3440	34300	-	3440	3440	3440	3440	3440	3440	3440	3440
116.92 ²⁾	12	3510	34100	-	3510	3510	3510	3510	3510	3510	3510	3510
131.85 ²⁾	11	3650	33900	-	3650	3650	3650	3650	3650	3650		
145.60 ²⁾	9.6	3730	33700	-	3730	3730	3730	3730	3730	3730		
161.74 ²⁾	8.7	3840	33500	-	3840	3840	3840	3840	3840			
180.95 ²⁾	7.7	3920	33400	-	3920	3920	3920	3920	3920			
196.52 ²⁾	7.1	4000	33200	-	4000	4000	4000					
231.67 ²⁾	6.0	4000	33200	-	4000	4000	4000					
262.22	5.3	4000	33200	-	4000	4000						
286.40	4.9	4000	33200	-	4000	4000						

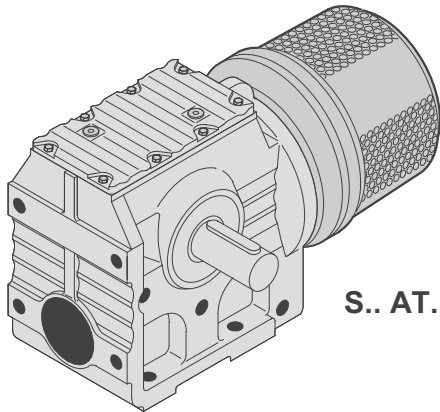
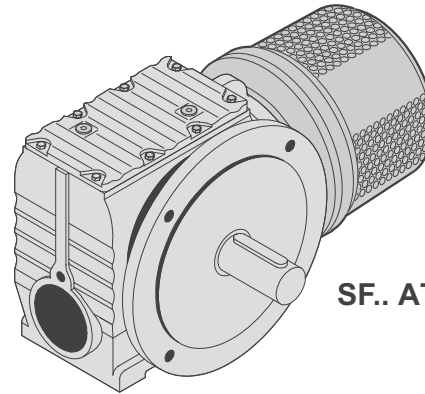
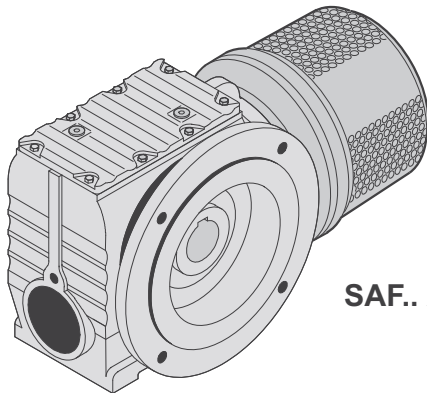
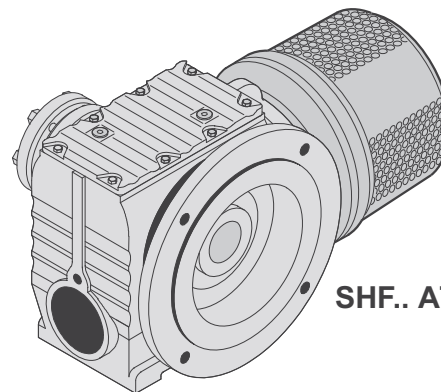
S97, m /kg			AMS							
S	IEC	s	100	112	132S/M	132ML	160	180	200	225
		 2	150	150	155	155	170	170	190	195
	NEMA	s	182	184	213/215	-	254/256	284/286	324/326	364/365
		 2	150	150	150	-	165	170	190	190

SF: + 33 kg / SA: + -5.4 kg / SAF: + 21 kg

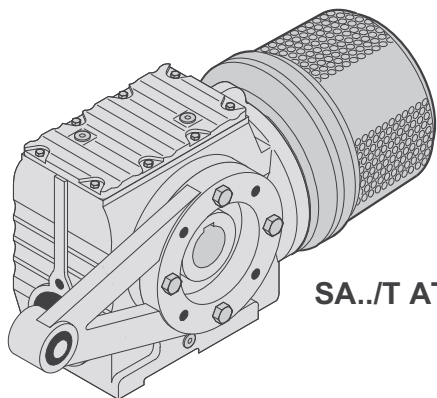
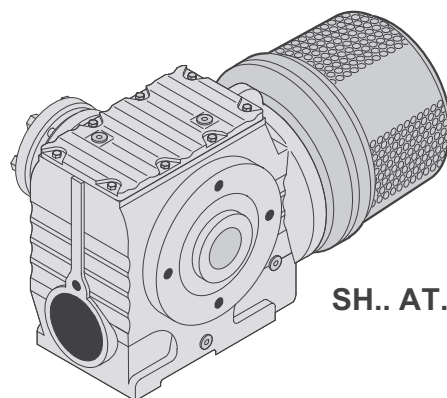
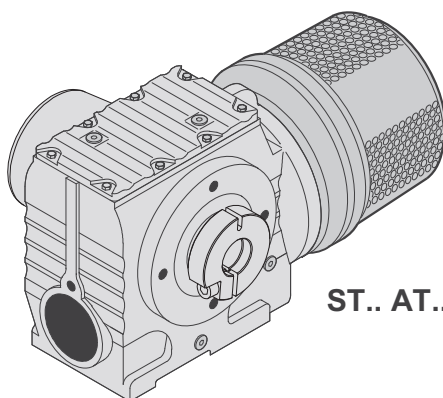
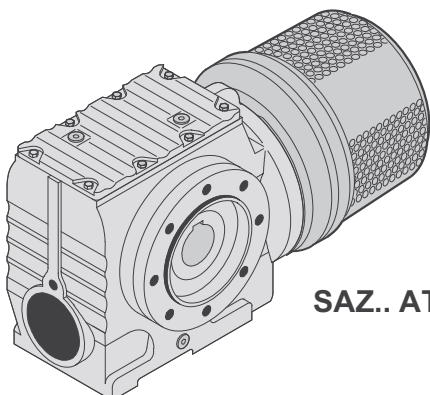
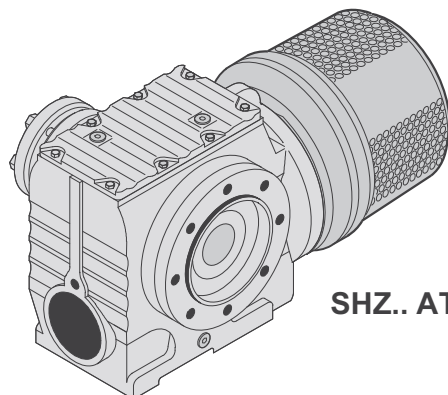
S97p, $n_e = 1400 \text{ min}^{-1}$, $M_{a \max}/\text{Nm}$					4300 Nm							
i	n_a min^{-1}	$M_{a \max G}$ Nm	$F_{Ra}^{(1)}$ N	$\varphi_{(R)}$ °	AMS							
					100	112	132S/M	132ML	160	180	200	225
 2												
8.26	169	1770	19200	-			870	1330	1470	1770	1770	1770
9.55	147	2040	18600	-			1010	1540	1700	2040	2040	2040
11.41	123	2210	18900	-			1210	1850	2040	2210	2210	2210
13.07	107	2330	19300	-	650	735	1390	1930	2330	2330	2330	2330
15.42	91	2470	20000	-	755	870	1640	2060	2470	2470	2470	2470
17.05	82	2570	20300	-	820	970	1820	2130	2570	2570	2570	2570
19.23	73	2600	21900	-	910	1090	2060	2200	2600	2600		
21.23	66	2600	23500	-	990	1210	2260	2260	2600	2600		
23.59	59	2600	25300	-	1080	1350	2320	2320	2600			
24.13	58	3080	27500	-						3080	3080	3080
26.39	53	2600	26800	-	1170	1430	2380	2380	2600			
27.63	51	3230	28600	-						3230	3230	3230
32.60	43	3390	30000	-	1570	1810	3390	3390	3390	3390	3390	3390
36.05	39	3500	30900	-	1710	2010	3500	3500	3500	3500	3500	3500
40.65	34	3600	32200	-	1890	2270	3600	3600	3600	3600		
44.89	31	3710	33100	-	2050	2510	3710	3710	3710	3710		
49.87	28	3810	33600	-	2230	2800	3810	3810	3810			
55.79	25	3910	33400	-	2430	2970	3910	3910	3910			
60.59	23	3980	33200	-	2590	3040	3980					
65.45	21	3520	34100	-			3520	3520	3520	3520	3520	3520
71.43	20	4100	33000	-	2900	3130	4100					
78.26	18	3910	33400	-			3910	3910	3910	3910	3910	3910
80.85	17	3700	33800	-	3200	3200						
89.60	16	4070	33000	-	4010	4070	4070	4070	4070	4070	4070	4070
105.71	13	4290	32600	-	4290	4290	4290	4290	4290	4290	4290	4290
116.92	12	4300	32500	-	4300	4300	4300	4300	4300	4300	4300	4300
131.85	11	4300	32500	-	4300	4300	4300	4300	4300	4300		
145.60	9.6	4300	32500	-	4300	4300	4300	4300	4300	4300		
161.74	8.7	4300	32500	-	4300	4300	4300	4300	4300			
180.95	7.7	4300	32500	-	4300	4300	4300	4300	4300			
196.52	7.1	4300	32500	-	4300	4300	4300					
231.67	6.0	4300	32500	-	4300	4300	4300					
262.22	5.3	4300	32500	-	4300	4300						
286.40	4.9	4300	32500	-	4300	4300						

S97p, m / kg			AMS							
S	IEC	s	100	112	132S/M	132ML	160	180	200	225
		 2	150	150	155	155	170	170	190	195
	NEMA	s	182	184	213/215	-	254/256	284/286	324/326	364/365
		 2	150	150	150	-	165	170	190	190

SF: + 33 kg / SA: + -5.4 kg / SAF: + 21 kg

11.2 Selection tables for adapters with hydraulic start-up coupling (AT..)**S.. AT..****SF.. AT..****SAF.. AT..****SHF.. AT..**

21441543051

**SA../T AT..****SH.. AT..****ST.. AT..****SAZ.. AT..****SHZ.. AT..**

21441545483

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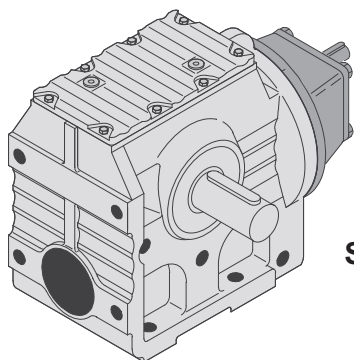
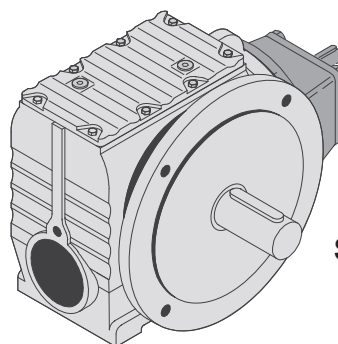
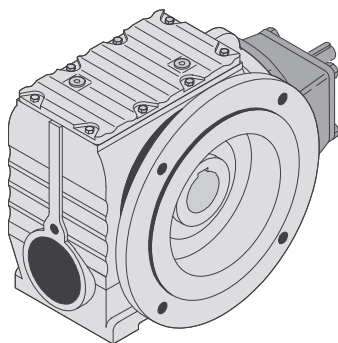
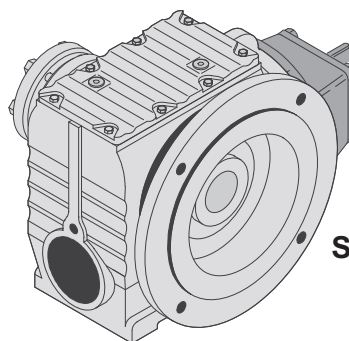
11.2.1 S..AT/DRN..4

		P_{Mot} kW				Sn %	
S67	DRN71M4	0.37	AT311	T11	0.42	12	(→ 662)
	DRN80MK4	0.55	AT312	T11D	0.55	11	
	DRN80M4	0.75	AT312	T11D	0.7	11	
	DRN90S4	1.1	AT312	T11D	0.72	15	
	DRN90L4	1.5	AT321	T21	0.85	9	
	DRN100LS4	2.2	AT321	T21	0.9	13	
	DRN100L4	3	AT322	T21D	1.53	11	
S77	DRN71M4	0.37	AT311	T11	0.42	12	
	DRN80MK4	0.55	AT312	T11D	0.55	11	
	DRN80M4	0.75	AT312	T11D	0.7	11	
	DRN90S4	1.1	AT312	T11D	0.72	15	
	DRN90L4	1.5	AT421	T21	0.85	9	
	DRN100LS4	2.2	AT421	T21	0.9	13	
	DRN100L4	3	AT422	T21D	1.53	11	
	DRN112M4	4	AT422	T21D	1.6	12	
S87	DRN90S4	1.1	AT312	T11D	0.72	15	
	DRN90L4	1.5	AT421	T21	0.85	9	
	DRN100LS4	2.2	AT421	T21	0.9	13	
	DRN100L4	3	AT422	T21D	1.53	11	
	DRN112M4	4	AT422	T21D	1.6	12	
	DRN132S4	5.5	AT541	T41	2	6	
	DRN132M4	7.5	AT541	T41	2.4	8	
	DRN132L4	9.2	AT541	T41	2.5	10	
	DRN160M4	11	AT541	T41	2.5	13	
	DRN160L4	15	AT542	T41D	4.2	8	

		P_{Mot} kW				Sn %	
S97	DRN90S4	1.1	AT312	T11D	0.72	15	(→  662)
	DRN90L4	1.5	AT421	T21	0.85	9	
	DRN100LS4	2.2	AT421	T21	0.9	13	
	DRN100L4	3	AT422	T21D	1.53	11	
	DRN112M4	4	AT422	T21D	1.6	12	
	DRN132S4	5.5	AT541	T41	2	6	
	DRN132M4	7.5	AT541	T41	2.4	8	
	DRN132L4	9.2	AT541	T41	2.5	10	
	DRN160M4	11	AT541	T41	2.5	13	
	DRN160L4	15	AT542	T41D	4.2	8	
	DRN180M4	18.5	AT542	T41D	4.3	10	
	DRN180L4	22	AT542	T41D	4.3	14	

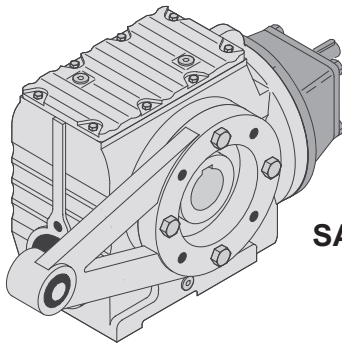
11.2.2 S..AT/DRN..2

		P _{Mot} kW				Sn	
S67	DRN71M2	0.55	AT311	T11	0.19	3	(→ 662)
	DRN80MS2	0.75	AT311	T11	0.22	4.5	
	DRN80M2	1.1	AT311	T11	0.27	6	
	DRN90S2	1.5	AT311	T11	0.29	8.5	
	DRN90L2	2.2	AT311	T11	0.31	11.5	
	DRN100LM2	3	AT311	T11	0.4	12	
	DRN112M2	4	AT312	T11D	0.52	10	
S77	DRN71M2	0.55	AT311	T11	0.19	3	
	DRN80MS2	0.75	AT311	T11	0.22	4.5	
	DRN80M2	1.1	AT311	T11	0.27	6	
	DRN90S2	1.5	AT311	T11	0.29	8.5	
	DRN90L2	2.2	AT311	T11	0.31	11.5	
	DRN100LM2	3	AT311	T11	0.4	12	
	DRN112M2	4	AT312	T11D	0.52	10	
	DRN132S2	5.5	AT321	T21	0.6	8	
	DRN132S2	5.5	AT421	T21	0.6	8	
S87	DRN90S2	1.5	AT311	T11	0.29	8.5	
	DRN90L2	2.2	AT311	T11	0.31	11.5	
	DRN100LM2	3	AT311	T11	0.4	12	
	DRN112M2	4	AT312	T11D	0.52	10	
	DRN132S2	5.5	AT321	T21	0.6	8	
	DRN132S2	5.5	AT421	T21	0.6	8	
S97	DRN90S2	1.5	AT311	T11	0.29	8.5	
	DRN90L2	2.2	AT311	T11	0.31	11.5	
	DRN100LM2	3	AT311	T11	0.4	12	
	DRN112M2	4	AT312	T11D	0.52	10	
	DRN132S2	5.5	AT321	T21	0.6	8	
	DRN132S2	5.5	AT421	T21	0.6	8	

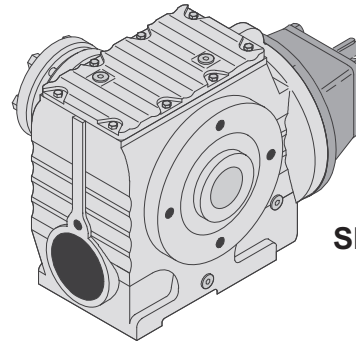
11.3 Selection tables for input shaft assembly (AD..)**S.. AD..****SF.. AD..****SAF.. AD..****SHF.. AD..**

21460891787

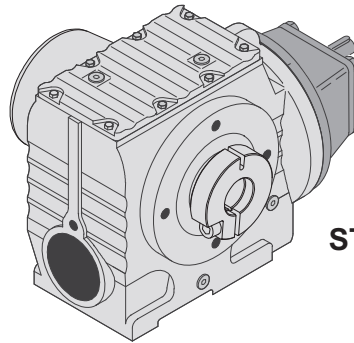
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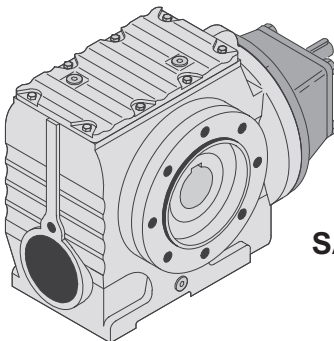
SA../T AD..



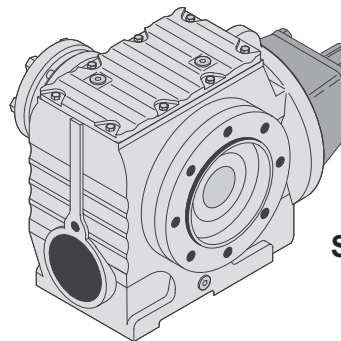
SH.. AD..



ST.. AD..



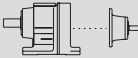
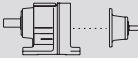
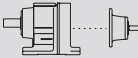
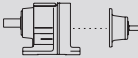
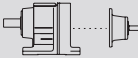
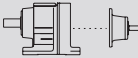
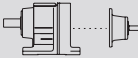
SAZ.. AD..

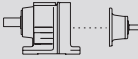
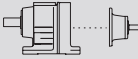
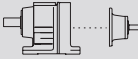


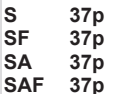
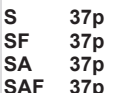
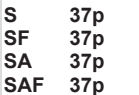
SHZ.. AD..

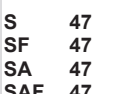
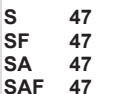
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S37 AD.. , $n_e = 1400 \text{ min}^{-1}$										92 Nm
i	n_a min^{-1}	$M_{a\max}$ Nm	P_e kW	$F_{Ra}^{1)}$ N	F_{Re} N	$\Phi_{(R)}$			m kg	
157.43	8.9	92	0.18	3000	745	-	-			
144.40*	9.7	92	0.19	3000	745	-	-			
122.94	11	91	0.22	3000	740	-	-			
106.00*	13	88	0.24	3000	745	-	-			
98.80*	14	87	0.25	3000	745	-	-			
86.36	16	86	0.27	3000	740	-	-			
80.96	17	85	0.29	3000	740	-	-			
71.44*	20	84	0.31	3000	740	-	-			
63.33	22	82	0.34	3000	740	-	-			
55.93	25	81	0.31	3000	575	-	-			
53.83	26	80	0.39	3000	1820	-	-			
51.30*	27	81	0.33	3000	565	-	-			
43.68	32	81	0.38	3000	555	-	-			
37.66	37	79	0.43	3000	555	-	-			
35.10*	40	78	0.45	3000	550	-	-			
30.68	46	76	0.49	2860	550	-	-			
28.76	49	75	0.52	2800	545	-	-			
25.38*	55	74	0.57	2660	535	-	-			
22.50*	62	73	0.63	2530	520	-	-			
19.89	70	52	0.47	2470	330	-	-			
19.13*	73	71	0.72	2380	1740	-	-			
18.24*	77	52	0.51	2380	320	-	-			
15.53	90	50	0.57	2240	320	-	-			
13.39	105	49	0.65	2110	1500	-	-			
12.48*	112	48	0.68	2060	1500	-	-			
10.91	128	48	0.78	1940	1470	-	-			
10.23	137	47	0.81	1900	1470	-	-			
9.02*	155	46	0.89	1810	1460	-	-			
8.00*	175	45	0.98	1730	1440	-	-			
6.80*	206	43	1.1	1630	1660	-	-			
6.33	221	35	0.95	1670	1670	-	-			
5.38	260	34	1.1	1570	1660	-	-			
4.86*	288	33	1.1	1520	1650	-	-			
3.97	353	32	1.4	1400	1630	-	-			

S37p AD.. , $n_e = 1400 \text{ min}^{-1}$										105 Nm
i	n_a min^{-1}	$M_{a\max}$ Nm	P_e kW	$F_{Ra}^{1)}$ N	F_{Re} N	$\Phi_{(R)}$			m kg	
157.43	8.9	94	0.14	3000	770	-	-			
144.40*	9.7	95	0.15	3000	765	-	-			
122.94	11	96	0.17	3000	765	-	-			
106.00*	13	97	0.20	3000	765	-	-			
98.80*	14	97	0.21	3000	760	-	-			
86.36	16	98	0.24	3000	760	-	-			
80.96	17	99	0.26	3000	755	-	-			
71.44*	20	100	0.29	3000	750	-	-			
63.33	22	98	0.32	3000	750	-	-			
55.93	25	104	0.33	3000	555	-	-			
53.83	26	92	0.35	3000	1840	-	-			

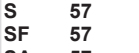
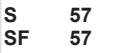
S37p AD.. , n _e = 1400 min ⁻¹								105 Nm			
i	n _a min ⁻¹	M _{amax} Nm	P _e kW	F _{Ra} ¹⁾ N	F _{Re} N	Φ _(R)			m kg		
51.30*	27	104	0.36	3000	545	-	-		S 37p AD1 SF 37p AD1 SA 37p AD1 SAF 37p AD1	8.3 9.6 8.0 9.5	666 666 666 666
43.68	32	105	0.42	3000	530	-	-				
37.66	37	105	0.49	2800	510	-	-				
35.10*	40	105	0.52	2700	500	-	-				
30.68	46	105	0.59	2530	480	-	-				
28.76	49	105	0.63	2450	470	-	-				
25.38*	55	100	0.68	2360	475	-	-				
22.50*	62	95	0.73	2280	475	-	-				
19.89	70	78	0.64	2130	133	-	-				
19.13*	73	89	0.80	2170	1740	-	-		S 37p AD2 SF 37p AD2 SA 37p AD2 SAF 37p AD2	9.4 11 9.1 11	666 666 666 666
18.24*	77	78	0.69	2040	118	-	-				
15.53	90	76	0.79	1860	109	-	-				
13.39	105	75	0.90	1640	1190	-	-				
12.48*	112	74	0.95	1560	1180	-	-		S 37p AD2 SF 37p AD2 SA 37p AD2 SAF 37p AD2	9.4 11 9.1 11	666 666 666 666
10.91	128	69	1.0	1540	1220	-	-				
10.23	137	64	1.0	1640	1280	-	-				
9.02*	155	57	1.0	1680	1350	-	-				
8.00*	175	50	1.0	1690	1440	-	-				
6.80*	206	60	1.4	1210	1610	-	-				
6.33	221	56	1.4	1120	1580	-	-				
5.38	260	51	1.5	1130	1590	-	-				
4.86*	288	48	1.6	1140	1590	-	-				
3.97	353	44	1.8	1070	1580	-	-				

S47 AD.. , n _e = 1400 min ⁻¹								170 Nm				
i	n _a min ⁻¹	M _{amax} Nm	P _e kW	F _{Ra} ¹⁾ N	F _{Re} N	Φ _(R)			m kg			
201.00*	7.0	170	0.25	5340	680	-	-		S 47 AD1	11 666		
184.80*	7.6	170	0.27	5340	680	-	-					
158.12	8.8	170	0.30	5340	670	-	-					
137.05	10	168	0.34	5350	670	-	-					
128.10*	11	168	0.36	5350	665	-	-					
110.73	13	168	0.40	5350	655	-	-					
94.08*	15	168	0.46	5350	645	-	-					
84.00*	17	167	0.51	5360	640	-	-					
71.75*	20	167	0.58	5360	625	-	-					
69.39	20	155	0.46	5370	385	-	-					
67.20*	21	167	0.62	5360	615	-	-		SF 47 AD1	15 666		
63.80*	22	155	0.50	5370	380	-	-					
56.61	25	165	0.72	5320	1780	-	-				SA 47 AD1	12 666
											SAF 47 AD1	14 666
								S 47 AD2	12 666			
								SF 47 AD2	16 666			
54.59	26	155	0.57	5150	360	-	-		SA 47 AD2	14 666		
47.32	30	155	0.65	4850	345	-	-		SAF 47 AD2	15 666		
44.22*	32	155	0.69	4710	335	-	-		S 47 AD1	11 666		
									SF 47 AD1	15 666		
								SA 47 AD1	12 666			
								SAF 47 AD1	14 666			

S47 AD.. , $n_e = 1400 \text{ min}^{-1}$								170 Nm		
i	n_a min^{-1}	M_{amax} Nm	P_e kW	$F_{Ra}^{(1)}$ N	F_{Re} N	$\Phi_{(R)}$			m kg	
38.23	37	155	0.80	4420	1480	-	-			
32.48*	43	155	0.93	4120	1460	-	-			
29.00*	48	155	1.0	3920	1430	-	-			
24.77	57	155	1.2	3650	1660	-	-			
23.20*	60	152	1.2	3570	1660	-	-			
20.33	69	110	0.95	3370	990	-	-			
19.54	72	144	1.4	3370	1650	-	-			
17.62	79	110	1.1	3160	1560	-	-			
16.47*	85	110	1.2	3060	1550	-	-			
14.24	98	110	1.3	2850	1530	-	-			
12.10*	116	109	1.6	2650	1520	-	M1-6			
10.80*	130	109	1.7	2500	1510	-	M1-6			
9.23*	152	109	2.0	2310	1480	-	M1-6			
8.64*	162	109	2.1	2230	1470	-	M1-6			
7.28	192	103	2.4	2110	1460	-	M1-6			
6.83	205	78	1.9	2300	1500	-	M1-6			
6.40*	219	76	2.0	2260	1500	-	M1-6			
5.39	260	74	2.3	2110	1480	-	M1-6			
4.76	294	72	2.5	2010	1460	-	M1-6			
4.00*	350	61	2.5	1980	1500	-	M1-6			
								S 47	AD2	12 666
								SF 47	AD2	16 666
								SA 47	AD2	14 666
								SAF 47	AD2	15 666

S47p AD.. , $n_e = 1400 \text{ min}^{-1}$								200 Nm		
i	n_a min^{-1}	M_{amax} Nm	P_e kW	$F_{Ra}^{(1)}$ N	F_{Re} N	$\Phi_{(R)}$			m kg	
201.00*	7.0	192	0.21	5230	710	-	-			
184.80*	7.6	193	0.23	5220	705	-	-			
158.12	8.8	194	0.27	5220	700	-	-			
137.05	10	195	0.30	5210	695	-	-			
128.10*	11	196	0.32	5210	685	-	-			
110.73	13	197	0.37	5200	670	-	-			
94.08*	15	198	0.43	5200	660	-	-			
84.00*	17	199	0.48	5190	645	-	-			
71.75*	20	194	0.55	5220	640	-	-			
69.39	20	200	0.51	5130	300	-	-			
67.20*	21	189	0.57	5250	640	-	-			
63.80*	22	200	0.55	5130	290	-	-			
56.61	25	179	0.64	5220	1790	-	-	S 47p	AD2	12 666
								SF 47p	AD2	16 666
								SA 47p	AD2	14 666
								SAF 47p	AD2	15 666
54.59	26	200	0.64	4790	270	-	-	S 47p	AD1	11 666
47.32	30	200	0.73	4480	250	-	-	SF 47p	AD1	15 666
44.22*	32	200	0.78	4350	235	-	-	SA 47p	AD1	12 666
								SAF 47p	AD1	14 666
38.23	37	196	0.88	4090	1360	-	-			
32.48*	43	186	0.98	3880	1380	-	-			
29.00*	48	172	1.0	3790	1420	-	-			
24.77	57	169	1.2	3550	1660	-	-			
23.20*	60	165	1.2	3480	1660	-	-			
20.33	69	128	1.0	3260	860	-	-			
19.54	72	156	1.4	3280	1650	-	-			
17.62	79	156	1.4	2720	1440	-	-			
16.47*	85	155	1.5	2630	1440	-	-			
14.24	98	152	1.7	2350	1420	-	-			
12.10*	116	146	1.9	2130	1420	-	-			
10.80*	130	142	2.1	1990	1410	-	-			
9.23*	152	134	2.3	1870	1410	-	-			
8.64*	162	131	2.4	1820	1410	-	-			
7.28	192	109	2.4	2110	1460	-	-			
6.83	205	120	2.8	1490	1310	-	-			
6.40*	219	118	2.9	1420	1300	-	-			
5.39	260	104	3.0	1540	1330	-	-			
4.76	294	91	3.0	1740	1370	-	-			
4.00*	350	75	3.0	1860	1420	-	-			
								S 47p	AD2	12 666
								SF 47p	AD2	16 666
								SA 47p	AD2	14 666
								SAF 47p	AD2	15 666

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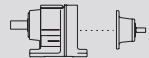
S57 AD.. , n _e = 1400 min ⁻¹								295 Nm			
i	n _a min ⁻¹	M _{amax} Nm	P _e kW	F _{Ra} ¹⁾ N	F _{Re} N	Φ _(/R)			m kg		
201.00*	7.0	295	0.40	7130	455	-	-		15	666	
184.80*	7.6	295	0.43	7130	455	-	-				
158.12	8.8	295	0.49	7130	450	-	-				
137.05	10	295	0.55	7130	440	-	-				
128.10*	11	295	0.58	7130	435	-	-				
110.73	13	295	0.66	7130	410	-	-				
94.08*	15	295	0.76	7130	395	-	-				
84.00*	17	295	0.84	7130	380	-	-				
71.75*	20	290	0.96	7170	1570	-	-		16	666	
69.39	20	245	0.71	7520	1120	-	-				
67.20*	21	285	1.0	7220	1570	-	-				
63.80*	22	245	0.77	7520	1100	-	-				
56.61	25	265	1.1	7370	1700	-	-				
54.59	26	245	0.88	7520	1080	-	-				
47.32	30	245	1.0	7520	1050	-	-				
44.22*	32	245	1.1	7520	1570	-	-				
38.23	37	245	1.2	7320	1560	-	-				
32.48*	43	245	1.4	6840	1540	-	-				
29.00*	48	245	1.6	6520	1530	-	-				
24.77	57	245	1.8	6100	1510	-	-				
23.20*	60	245	1.9	5930	1500	-	-				
20.33	69	168	1.4	5690	1380	-	-				
19.54	72	215	2.0	5720	1520	-	-				
17.62	79	168	1.6	5350	1360	-	-				
16.47*	85	168	1.8	5200	1350	-	-				
14.24	98	169	2.0	4860	1320	-	-				
12.10*	116	169	2.4	4520	1300	-	-				
10.80*	130	169	2.6	4290	1270	-	-				
9.23*	152	169	3.1	3990	1230	-	M1-6				
8.64*	162	166	3.2	3900	1230	-	M1-6				
7.28	192	146	3.3	3790	1260	-	M1-6				
6.83	205	100	2.4	4100	1380	-	M1-6				
6.40*	219	98	2.5	4010	1370	-	M1-6				
5.39	260	95	2.9	3760	1340	-	M1-6				
4.76	294	93	3.2	3590	1320	-	M1-6				
4.00*	350	88	3.6	3380	1300	-	M1-6				

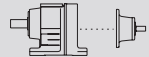
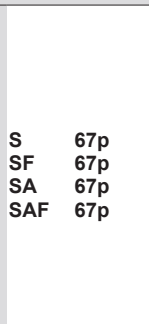
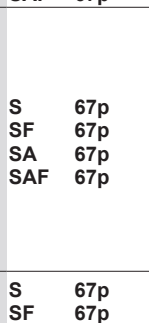
S57p AD.. , n _e = 1400 min ⁻¹										370 Nm	
i	n _a min ⁻¹	M _{amax} Nm	P _e kW	F _{Ra} ¹⁾ N	F _{Re} N	Φ _(R)			m kg		
201.00*	7.0	355	0.37	6530	475	-	-				
184.80*	7.6	355	0.40	6530	475	-	-				
158.12	8.8	360	0.47	6470	460	-	-		S 57p	AD1	15 666
137.05	10	360	0.53	6470	445	-	-		SF 57p	AD1	19 666
128.10*	11	365	0.57	6410	430	-	-		SA 57p	AD1	15 666
110.73	13	365	0.66	6410	405	-	-		SAF 57p	AD1	18 666
94.08*	15	350	0.73	6580	410	-	-				
84.00*	17	335	0.78	6740	415	-	-				

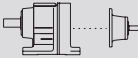
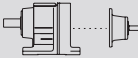
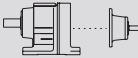
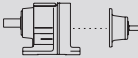
S57p AD.. , n _e = 1400 min ⁻¹								370 Nm					
i	n _a min ⁻¹	M _{amax} Nm	P _e kW	F _{Ra} ¹⁾ N	F _{Re} N	Φ _(/R)			m kg				
71.75*	20	320	0.87	6900	1620	-	-						
69.39	20	370	0.92	6350	690	-	-						
67.20*	21	310	0.90	6990	1630	-	-						
63.80*	22	370	1.00	6350	670	-	-						
56.61	25	295	1.0	7130	1710	-	-						
54.59	26	325	1.0	6850	840	-	-						
47.32	30	280	1.0	7260	1010	-	-						
44.22*	32	335	1.3	6740	1490	-	-						
38.23	37	320	1.4	6820	1490	-	-						
32.48*	43	300	1.6	6480	1500	-	-						
29.00*	48	290	1.7	6230	1500	-	-						
24.77	57	275	1.9	5910	1500	-	-						
23.20*	60	270	2.0	5780	1490	-	-						
20.33	69	225	1.8	5260	1240	-	-						
19.54	72	250	2.1	5500	1490	-	-						
17.62	79	225	2.0	4920	1220	-	-						
16.47*	85	225	2.2	4760	1210	-	-						
14.24	98	225	2.5	4440	1170	-	-						
12.10*	116	225	3.0	4090	1130	-	-						
10.80*	130	225	3.3	3860	1100	-	-						
9.23*	152	199	3.4	3800	1150	-	-						
8.64*	162	187	3.4	3800	1170	-	-						
7.28	192	155	3.4	3790	1250	-	-						
6.83	205	162	3.7	3550	1080	-	-						
6.40*	219	156	3.8	3490	1090	-	-						
5.39	260	147	4.3	3300	1070	-	-						
4.76	294	129	4.3	3290	1120	-	-						
4.00*	350	108	4.3	3240	1180	-	-						
											S 57p	AD2 16 666	
											SF 57p	AD2 20 666	
											SA 57p	AD2 16 666	
											SAF 57p	AD2 19 666	

S67 AD.. , n _e = 1400 min ⁻¹								520 Nm						
i	n _a min ⁻¹	M _{amax} Nm	P _e kW	F _{Ra} ¹⁾ N	F _{Re} N	Φ _(R)			m kg					
217.41	6.4	520	0.62	8680	1480	-	-							
190.11	7.4	520	0.70	8680	1470	-	-							
180.60*	7.8	520	0.73	8680	1470	-	-							
158.45	8.8	520	0.82	8680	1440	-	-							
134.40*	10	520	0.95	8680	1420	-	-							
121.33	12	520	1.0	8680	1400	-	-				S 67	AD2	27	666
106.75*	13	520	1.2	8680	1660	-	-				SF 67	AD2	34	666
100.80*	14	520	1.2	8680	1650	-	-				SA 67	AD2	28	666
85.83	16	520	1.4	8680	1640	-	-				SAF 67	AD2	33	666
78.00*	18	520	1.5	8680	1630	-	-							
75.06	19	480	1.2	9020	1460	-	-							
67.57	21	520	1.7	8680	1620	-	-							
65.63	21	480	1.4	9020	1450	-	-							
62.35*	22	480	1.5	9020	1450	-	-							
58.80*	24	500	1.9	8850	2620	-	-				S 67	AD3	30	666
								SF 67	AD3	37	666			
								SA 67	AD3	32	666			
								SAF 67	AD3	36	666			
54.70	26	480	1.7	8670	1420	-	-							
46.40*	30	480	1.9	8060	1410	-	-							
41.89	33	480	2.1	7690	1390	-	-							
36.85	38	480	2.4	7250	1380	-	-							
34.80*	40	480	2.5	7060	1370	-	-							
29.63	47	480	3.0	6540	1330	-	-							
26.93	52	480	3.2	6240	1310	-	-							
24.44	57	340	2.4	6040	1120	-	-							
23.33	60	480	3.7	5810	1280	-	-							
23.22*	60	340	2.5	5890	1120	-	-							
20.37	69	340	2.8	5520	1080	-	-							
20.30*	69	425	3.8	5760	2340	-	-	S 67	AD3	30	666			
								SF 67	AD3	37	666			
								SA 67	AD3	32	666			
								SAF 67	AD3	36	666			

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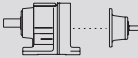
S67 AD.. , n _e = 1400 min ⁻¹										520 Nm			
i	n _a min ⁻¹	M _{amax} Nm	P _e kW	F _{Ra} ¹⁾ N	F _{Re} N	ϕ _(R)				m kg			
17.28*	81	340	3.3	5080	1050	-	-	S	67	AD2	27	666	
15.60*	90	340	3.6	4820	1020	-	-	SF	67	AD2	34	666	
13.73*	102	340	4.1	4510	1000	-	-	SA	67	AD2	28	666	
12.96*	108	340	4.4	4310	980	-	-	SAF	67	AD2	33	666	
11.03	127	340	5.1	3660	1940	-	-	S	67	AD3	30	666	
10.03	140	340	5.6	3290	1910	-	M1-6	SF	67	AD3	37	666	
8.69	161	335	6.4	2860	1860	-	M1-6	SA	67	AD3	32	666	
7.56*	185	295	6.4	3220	1930	-	M1-6	SAF	67	AD3	36	666	

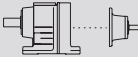
S67p AD.. , n _e = 1400 min ⁻¹										720 Nm		
i	n _a min ⁻¹	M _{amax} Nm	P _e kW	F _{Ra} ¹⁾ N	F _{Re} N	φ _(/R)				m kg		
217.41	6.4	640	0.60	10100	1480	-	-					
190.11	7.4	640	0.68	10100	1460	-	-					
180.60*	7.8	645	0.72	10100	1460	-	-					
158.45	8.8	645	0.81	10100	1420	-	-					
134.40*	10	645	0.95	10100	1390	-	-					
121.33	12	625	1.0	10200	1400	-	-					
106.75*	13	645	1.2	10100	1650	-	-					
100.80*	14	645	1.3	10100	1640	-	-					
85.83	16	660	1.5	9700	1620	-	-					
78.00*	18	660	1.6	9280	1610	-	-					
75.06	19	720	1.6	8340	1300	-	-					
67.57	21	650	1.9	8740	1590	-	-					
65.63	21	720	1.9	7790	1290	-	-					
62.35*	22	720	2.0	7580	1280	-	-					
58.80*	24	625	2.0	8320	2600	-	-	S	67p	AD3	30	666
								SF	67p	AD3	37	666
								SA	67p	AD3	32	666
								SAF	67p	AD3	36	666
54.70	26	705	2.2	7170	1270	-	-					
46.40*	30	680	2.5	6720	1260	-	-					
41.89	33	670	2.7	6420	1250	-	-					
36.85	38	655	3.0	6070	1250	-	-					
34.80*	40	640	3.1	5970	1250	-	-					
29.63	47	620	3.5	5580	1220	-	-					
26.93	52	600	3.7	5410	1220	-	-					
24.44	57	365	2.4	5860	1110	-	-					
23.33	60	525	3.8	5440	1260	-	-					
23.22*	60	355	2.4	5790	1130	-	-					
20.37	69	435	3.4	4700	910	-	-					
20.30*	69	450	3.7	5490	2340	-	-	S	67p	AD3	30	666
								SF	67p	AD3	37	666
								SA	67p	AD3	32	666
								SAF	67p	AD3	36	666
17.28*	81	415	3.8	4320	910	-	-	S	67p	AD2	27	666
15.60*	90	410	4.2	3960	890	-	-	SF	67p	AD2	34	666
13.73*	102	395	4.6	3690	900	-	-	SA	67p	AD2	28	666
12.96*	108	390	4.8	3550	890	-	-	SAF	67p	AD2	33	666
11.03	127	375	5.4	3190	1890	-	-	S	67p	AD3	30	666
10.03	140	365	5.8	3020	1870	-	-	SF	67p	AD3	37	666
8.69	161	350	6.4	2780	1850	-	-	SA	67p	AD3	32	666
7.56*	185	330	6.9	2680	1850	-	-	SAF	67p	AD3	36	666

S67pR37 AD.. , $n_e = 1400 \text{ min}^{-1}$								720 Nm		
i	n_a min^{-1}	M_{amax} Nm	P_e kW	$F_{Ra}^{(1)}$ N	F_{Re} N	$\Phi_{(R)}$			m kg	
21362	0.07	645	<0.05	10000	820	-	-			
19594	0.07	645	<0.05	10000	820	-	-			
18120	0.08	645	<0.05	10000	820	-	-			
16682	0.08	645	<0.05	10000	820	-	-			
14383	0.10	645	<0.05	10000	820	-	-			
12774	0.11	645	<0.05	10000	820	-	-			
11013	0.13	645	<0.05	10000	820	-	-			
9694	0.14	645	<0.05	10000	820	-	-			
8529	0.16	645	<0.05	10000	820	-	-			
7455	0.19	645	0.05	10000	820	-	-			
6531	0.21	645	0.06	10000	820	-	-			
5759	0.24	720	<0.05	9100	820	-	-			
4965	0.28	720	0.06	9100	820	-	-			
4410	0.32	720	0.06	9100	820	-	-			
3880	0.36	720	0.06	9100	810	-	-			
3432	0.41	720	0.07	9100	810	-	-			
2944	0.48	700	0.07	9220	810	-	-			
2630	0.53	720	0.08	9100	810	-	-			
2279	0.61	660	0.09	9460	810	-	-			
2014	0.70	720	0.10	9100	800	-	-			
1772	0.79	720	0.11	9100	795	-	-			
1559	0.90	700	0.12	9220	795	-	-			
1363	1.0	700	0.14	9220	795	-	-			
1194	1.2	720	0.16	9100	790	-	-			
1045	1.3	640	0.15	9580	780	-	-			
914	1.5	640	0.17	9580	780	-	-			
809	1.7	720	0.21	9100	755	-	-			
712	2.0	720	0.24	9100	745	-	-			
615	2.3	720	0.27	9100	755	-	-			
543	2.6	700	0.29	9230	735	-	-			
469	3.0	720	0.34	9130	750	-	-			
424	3.3	720	0.37	9140	740	-	-			
365	3.8	720	0.41	9150	630	-	-			
319	4.4	660	0.43	9530	685	-	-			
281	5.0	680	0.49	9420	685	-	-			
246	5.7	720	0.57	9190	480	-	-			
221	6.3	640	0.57	9670	635	-	-			
198	7.1	680	0.65	9440	405	-	-			
168	8.3	680	0.75	9450	390	-	-			
156	9.0	640	0.77	9690	1490	-	-			

S77 AD.. , $n_e = 1400 \text{ min}^{-1}$								1270 Nm		
i	n_a min^{-1}	M_{amax} Nm	P_e kW	$F_{Ra}^{(1)}$ N	F_{Re} N	$\Phi_{(R)}$			m kg	
256.47	5.5	1270	1.2	11700	1510	-	-			
225.26	6.2	1270	1.3	11700	1500	-	-			
214.00*	6.5	1270	1.4	11700	1510	-	-			
189.09	7.4	1270	1.5	11700	1480	-	-			
161.60*	8.7	1260	1.8	11800	1480	-	-			
148.15	9.4	1240	1.9	12000	1480	-	-			
130.00*	11	1210	2.0	12200	1480	-	-			
123.20*	11	1200	2.1	12300	1480	-	-			
107.83	13	1170	2.4	12600	1470	-	-			
97.14	14	1140	2.5	12800	1460	-	-			
85.22	16	1100	2.8	13100	1460	-	-			
75.20*	19	1070	3.0	12800	1450	-	-			
75.09	19	1100	2.6	11900	1090	-	-			
71.33	20	1100	2.8	11600	1090	-	-			
66.67	21	1040	3.3	12300	1440	-	-			
63.03	22	1100	3.1	10900	1040	-	-			
56.92	25	990	3.6	11600	1430	-	-			
53.87	26	1100	3.6	10100	1010	-	-			
49.38	28	1100	3.9	9650	1000	-	-			
43.33	32	1100	4.4	9010	970	-	-			
41.07	34	1100	4.7	8750	950	-	-			
35.94	39	1100	5.3	8140	1950	-	-			
32.38	43	1090	5.8	7720	1920	-	-			
28.41	49	1050	6.4	7370	1910	-	-			
25.07	56	1020	7.0	7010	1890	-	-			
22.89	61	705	5.1	5960	1680	-	-			
22.22	63	980	7.5	6740	1880	-	-			
20.99	67	705	5.6	5380	1660	-	-			
18.97	74	930	8.3	6390	1860	-	-			
18.42	76	705	6.3	4550	1620	-	-			
17.45	80	710	6.7	4120	1590	-	-			
15.28	92	710	7.6	3320	1540	-	-			
13.76	102	710	8.4	2710	1480	-	-			
12.07	116	720	9.7	1800	1390	-	M1-6			
10.65	131	720	11.0	1130	3300	-	M1-6			
9.44	148	725	12.4	415	3220	-	M1-6			
8.06	174	680	13.6	440	3210	-	M1-6			

S77p AD.. , $n_e = 1400 \text{ min}^{-1}$								1500 Nm		
i	n_a min^{-1}	M_{amax} Nm	P_e kW	$F_{Ra}^{(1)}$ N	F_{Re} N	$\Phi_{(R)}$			m kg	
256.47	5.5	1500	1.1	12400	1520	-	-			
225.26	6.2	1500	1.3	12400	1510	-	-			
214.00*	6.5	1500	1.3	12400	1510	-	-			
189.09	7.4	1500	1.5	12400	1480	-	-			
161.60*	8.7	1500	1.8	12400	1470	-	-			
148.15	9.4	1500	1.9	12400	1460	-	-			
130.00*	11	1500	2.2	12400	1450	-	-			
123.20*	11	1500	2.3	12400	1440	-	-			
107.83	13	1470	2.5	12500	1430	-	-			
97.14	14	1440	2.8	12600	1420	-	-			
85.22	16	1390	3.0	12000	1410	-	-			
75.20*	19	1340	3.3	11500	1400	-	-			
75.09	19	1260	2.8	11000	1040	-	-			
71.33	20	1220	2.8	10900	1070	-	-			
66.67	21	1290	3.6	11000	1400	-	-			
63.03	22	1320	3.4	9770	940	-	-			
56.92	25	1230	4.0	10400	1380	-	-			
53.87	26	1300	3.9	9050	920	-	-			
49.38	28	1280	4.2	8710	920	-	-			
43.33	32	1250	4.7	8220	910	-	-			
41.07	34	1240	4.9	8020	900	-	-			
										

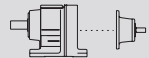
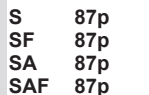
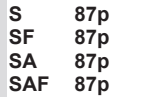
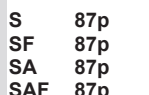
S77p AD.. , $n_e = 1400 \text{ min}^{-1}$										1500 Nm	
i	n_a min^{-1}	M_{amax} Nm	P_e kW	$F_{Ra}^{(1)}$ N	F_{Re} N	$\varphi_{(R)}$				m kg	
35.94	39	1210	5.5	7560	1920	-	-				
32.38	43	1180	5.9	7250	1900	-	-				
28.41	49	1140	6.5	6890	1880	-	-				
25.07	56	1100	7.1	6580	1870	-	-				
22.89	61	840	5.8	4260	1500	-	-				
22.22	63	1070	7.8	6260	1840	-	-		S 77p AD3	50	666
20.99	67	820	6.2	4010	1520	-	-		SF 77p AD3	60	666
18.97	74	1010	8.6	5960	1820	-	-		SA 77p AD3	50	666
18.42	76	800	6.8	3490	1510	-	-		SAF 77p AD3	57	666
17.45	80	795	7.2	3240	1490	-	-				
15.28	92	765	7.9	2930	1490	-	-				
13.76	102	745	8.5	2650	1460	-	-				
12.07	116	720	9.4	2330	1430	-	-				
10.65	131	720	10.6	1650	3360	-	-		S 77p AD4	57	666
9.44	148	725	12.0	940	3280	-	-		SF 77p AD4	66	666
8.06	174	680	13.2	920	3270	-	-		SA 77p AD4	56	666
									SAF 77p AD4	63	666

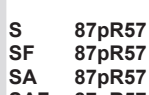
S77pR37 AD.. , $n_e = 1400 \text{ min}^{-1}$										1500 Nm	
i	n_a min^{-1}	M_{amax} Nm	P_e kW	$F_{Ra}^{(1)}$ N	F_{Re} N	$\varphi_{(R)}$				m kg	
25493	0.05	1500	<0.05	12200	820	-	-				
21787	0.06	1500	<0.05	12200	820	-	-				
19907	0.07	1500	<0.05	12200	820	-	-				
17013	0.08	1500	<0.05	12200	820	-	-				
14668	0.10	1500	0.05	12200	820	-	-				
13110	0.11	1500	0.06	12200	820	-	-				
11569	0.12	1500	0.06	12200	820	-	-				
9887	0.14	1500	0.07	12200	820	-	-				
8817	0.16	1500	0.07	12200	810	-	-				
7735	0.18	1500	0.07	12200	810	-	-				
6735	0.21	1500	0.09	12200	810	-	-				
5943	0.24	1500	0.10	12200	810	-	-		S 77pR37 AD1	56	666
5214	0.27	1500	0.10	12200	800	-	-		SF 77pR37 AD1	66	666
4618	0.30	1500	0.12	12200	810	-	-		SA 77pR37 AD1	56	666
3992	0.35	1500	0.13	12200	800	-	-		SAF 77pR37 AD1	62	666
3540	0.40	1500	0.14	12200	800	-	-				
3098	0.45	1500	0.16	12200	795	-	-				
2753	0.51	1440	0.12	11500	785	-	-				
2374	0.59	1440	0.14	11500	785	-	-				
2083	0.67	1440	0.16	11500	780	-	-				
1813	0.77	1440	0.18	11500	780	-	-				
1745	0.80	1450	0.19	11500	780	-	-				
1600	0.87	1440	0.20	11500	775	-	-				
1404	1.0	1440	0.23	11500	770	-	-				
1245	1.1	1440	0.26	11500	765	-	-				
1100	1.3	1440	0.28	11500	690	-	-				
954	1.5	1440	0.32	11500	680	-	-				
837	1.7	1440	0.36	11500	635	-	-				
714	2.0	1450	0.42	11500	670	-	-		S 77pR37 AD1	56	666
637	2.2	1450	0.47	11500	655	-	-		SF 77pR37 AD1	66	666
574	2.4	1440	0.51	11500	595	-	-		SA 77pR37 AD1	56	666
499	2.8	1440	0.58	11600	610	-	-		SAF 77pR37 AD1	62	666
438	3.2	1440	0.64	11600	565	-	-				
389	3.6	1400	0.70	11800	545	-	-				
327	4.3	1400	0.81	11800	520	-	-				
289	4.8	1440	0.93	11700	1300	-	-		S 77pR37 AD2	57	666
250	5.6	1440	1.1	11700	1650	-	-		SF 77pR37 AD2	67	666
219	6.4	1440	1.2	11700	1620	-	-		SA 77pR37 AD2	57	666
									SAF 77pR37 AD2	63	666

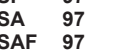
S87 AD.. , $n_e = 1400 \text{ min}^{-1}$								2280 Nm		
i	n_a min^{-1}	M_{amax} Nm	P_e kW	$F_{Ra}^{(1)}$ N	F_{Re} N	$\Phi_{(R)}$			m kg	
288.00*	4.9	2280	1.8	27900	1390	-	-		S 87	AD2
258.18	5.4	2280	1.9	27900	1380	-	-			
222.40*	6.3	2280	2.2	27900	1370	-	-			
202.96	6.9	2260	2.4	28000	1370	-	-			
180.00*	7.8	2210	2.6	28100	1370	-	-			
151.30	9.2	2150	3.0	28200	1360	-	-			
139.05	10	2100	3.2	28300	1360	-	-			
123.48	11	2060	3.5	28300	1360	-	-			
110.40*	13	2000	3.8	28400	1350	-	-			
99.26	14	1960	4.1	28500	1340	-	-			
91.20*	15	1510	2.9	29100	1040	-	-			
86.15	16	1880	4.5	28600	1340	-	-			
81.76	17	1600	3.4	29000	970	-	-			
77.14	18	1820	4.8	28700	1330	-	-			
70.43	20	1600	4.0	29000	950	-	-			
64.27	22	1600	4.3	29000	930	-	-			
64.00*	22	1700	5.3	28900	2250	-	-	S 87	AD3	87
57.00*	25	1600	4.9	29000	910	-	-	S 87	AD2	83
47.91	29	1600	5.8	29000	1820	-	-	S 87	AD3	87
44.03	32	1600	6.2	29000	1800	-	-			
39.10	36	1600	7.0	28200	1760	-	-			
34.96*	40	1600	7.8	27100	1720	-	-			
31.43	45	1600	8.6	26000	1680	-	-	SA 87	AD3	85
27.28	51	1600	9.9	24700	1620	-	-			
25.50*	55	1240	8.0	23400	3310	-	-	S 87	AD4	93
24.43	57	1600	11.1	23700	3590	-	-			
21.43	65	1240	9.5	21800	3260	-	-			
20.27	69	1600	13.2	22100	3490	-	-			
19.70	71	1240	10.3	21100	3200	-	-			
17.49	80	1240	11.5	20200	3150	-	-			
15.64*	90	1240	12.8	19300	3100	-	-			
14.06	100	1240	14.3	18500	3040	-	-			
12.21	115	1240	16.4	17400	2950	-	M1-6			
10.93	128	1240	18.2	16400	2870	-	M1-6			
9.07	154	1140	20	15900	2860	-	M1-6			
7.88	178	1010	21	15700	2980	-	M1-6			

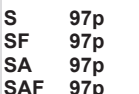
S87p AD.. , $n_e = 1400 \text{ min}^{-1}$								3000 Nm		
i	n_a min^{-1}	M_{amax} Nm	P_e kW	$F_{Ra}^{(1)}$ N	F_{Re} N	$\Phi_{(R)}$			m kg	
288.00*	4.9	2950	1.9	21600	1340	-	-		S 87p	AD2
258.18	5.4	2920	2.1	22600	1330	-	-			
222.40*	6.3	2860	2.4	24400	1330	-	-			
202.96	6.9	2820	2.6	25500	1330	-	-			
180.00*	7.8	2780	2.8	26200	1320	-	-			
151.30	9.2	2680	3.2	27100	1320	-	-			
139.05	10	2670	3.5	27100	1300	-	-			
123.48	11	2580	3.8	27300	1300	-	-			
110.40*	13	2510	4.1	27500	1290	-	-			
99.26	14	2440	4.5	27600	1280	-	-			
91.20*	15	1580	2.8	29000	1060	-	-			
86.15	16	2360	5.0	27800	1270	-	-			
81.76	17	2460	4.9	27500	235	-	-			
77.14	18	2280	5.4	27900	1260	-	-			
70.43	20	2400	5.5	27700	245	-	-			
64.27	22	2380	6.0	27700	200	-	-			
64.00*	22	2160	6.1	28200	2170	-	-	S 87p	AD3	87
								SF 87p	AD2	105
								SA 87p	AD2	80
								SAF 87p	AD2	97

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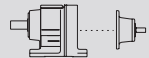
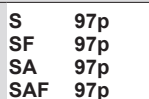
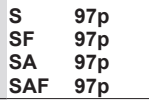
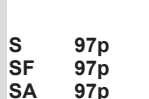
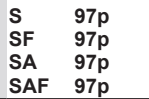
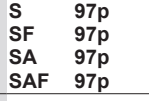
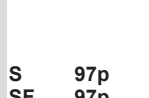
S87p AD.. , n _e = 1400 min ⁻¹										3000 Nm	
i	n _a min ⁻¹	M _{amax} Nm	P _e kW	F _{Ra} ⁽¹⁾ N	F _{Re} N	Φ _(/R)				m kg	
57.00*	25	2290	6.5	27900	280	-	-		S 87p AD2	83	666
									SF 87p AD2	105	666
									SA 87p AD2	80	666
									SAF 87p AD2	97	666
47.91	29	2260	7.6	28000	1500	-	-		S 87p AD3	87	666
44.03	32	2210	8.1	27300	1500	-	-		SF 87p AD3	110	666
39.10	36	2160	8.9	26200	1480	-	-		SA 87p AD3	85	666
34.96*	40	2090	9.6	25400	1470	-	-		SAF 87p AD3	100	666
31.43	45	2040	10.4	24500	1450	-	-				
27.28	51	1970	11.6	23400	1420	-	-				
25.50*	55	1440	8.8	22800	3150	-	-		S 87p AD4	93	666
24.43	57	1890	12.4	22700	3460	-	-		SF 87p AD4	115	666
21.43	65	1420	10.4	21400	3100	-	-		SA 87p AD4	91	666
20.27	69	1760	13.9	21600	3430	-	-		SAF 87p AD4	105	666
19.70	71	1370	10.9	20900	3120	-	-				
17.49	80	1310	11.7	20200	3130	-	-				
15.64*	90	1260	12.6	19600	3140	-	-				
14.06	100	1240	13.8	18900	3100	-	-				
12.21	115	1240	15.9	17800	3010	-	-				
10.93	128	1240	17.7	16800	2940	-	-				
9.07	154	1140	19.6	16300	2920	-	-				
7.88	178	1010	20	16100	3030	-	-				

S87pR57 AD.. , n _e = 1400 min ⁻¹										3000 Nm	
i	n _a min ⁻¹	M _{amax} Nm	P _e kW	F _{Ra} ⁽¹⁾ N	F _{Re} N	Φ _(/R)				m kg	
25987	0.05	3000	0.06	19800	1890	-	-		S 87pR57 AD2	105	666
23940	0.06	3000	0.07	19800	1890	-	-		SF 87pR57 AD2	130	666
20568	0.07	3000	0.07	19800	1890	-	-		SA 87pR57 AD2	105	666
18265	0.08	3000	0.08	19800	1890	-	-		SAF 87pR57 AD2	120	666
16774	0.08	3000	0.08	19800	1890	-	-				
14820	0.09	3000	0.09	19800	1890	-	-				
13160	0.11	3000	0.09	19800	1890	-	-				
11200	0.13	3000	0.11	19800	1890	-	-				
9904	0.14	2900	0.11	23200	1880	-	-				
8549	0.16	3000	0.12	19800	1880	-	-				
7643	0.18	2950	0.13	21600	1870	-	-				
6706	0.21	3000	0.15	19800	1880	-	-				
5875	0.24	2950	0.16	21600	1870	-	-				
5187	0.27	3000	0.19	19800	1870	-	-				
4606	0.30	3000	0.21	19800	1870	-	-				
3872	0.36	2950	0.24	21600	1860	-	-				
3475	0.40	3000	0.25	19800	1840	-	-		S 87pR57 AD2	105	666
2905	0.48	2950	0.29	21600	1820	-	-		SF 87pR57 AD2	130	666
2586	0.54	3000	0.33	19800	1830	-	-		SA 87pR57 AD2	105	666
2335	0.60	3000	0.36	19800	1830	-	-		SAF 87pR57 AD2	120	666
2054	0.68	3000	0.40	19800	1830	-	-				
1824	0.77	3000	0.44	19800	1820	-	-				
1631	0.86	2950	0.47	21600	1810	-	-				
1332	1.1	3000	0.56	19800	1810	-	-				
1191	1.2	2950	0.60	21600	1800	-	-				
1032	1.4	2950	0.67	21600	1800	-	-				
930	1.5	3000	0.73	19800	1760	-	-				
831	1.7	2950	0.78	21600	1750	-	-				
719	1.9	3000	0.90	19800	1750	-	-				
624	2.2	3000	1.0	19800	1740	-	-				
558	2.5	2950	1.1	21600	1730	-	-				
485	2.9	2950	1.2	21600	1720	-	-				
435	3.2	2900	1.3	23200	1690	-	-				
378	3.7	2900	1.5	23200	1680	-	-				
323	4.3	2900	1.7	23200	1620	-	-				
281	5.0	2900	2.0	23200	1610	-	-				
255	5.5	2590	1.8	27000	1610	-	-				
222	6.3	2660	2.1	26000	1560	-	-				
205	6.8	2590	2.2	27100	1460	-	-				

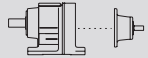
S97 AD.. , n _e = 1400 min ⁻¹								4000 Nm									
i	n _a min ⁻¹	M _{amax} Nm	P _e kW	F _{Ra} ¹⁾ N	F _{Re} N	Φ _(R)				m kg							
286.40*	4.9	4000	3.0	33200	2100	-	-		S 97 SF 97 SA 97 SAF 97	AD3 AD3 AD3 AD3	145 180 140 165	666 666 666 666					
262.22	5.3	4000	3.2	33200	2100	-	-										
231.67	6.0	4000	3.6	33200	2080	-	-										
196.52	7.1	4000	4.2	33200	2060	-	-										
180.95	7.7	3920	4.5	33400	2060	-	-										
161.74	8.7	3840	4.8	33500	2060	-	-										
145.60*	9.6	3730	5.2	33700	2060	-	-										
131.85	11	3650	5.6	33900	2060	-	-										
116.92	12	3510	6.0	34100	2060	-	-										
105.71	13	3440	6.5	34300	2060	-	-										
89.60*	16	3240	7.2	34600	2050	-	-		S 97 SF 97 SA 97 SAF 97	AD4 AD4 AD4 AD4	150 185 145 170	666 666 666 666					
80.85	17	3230	6.8	34600	1280	-	-										
78.26	18	3080	7.8	34800	2050	-	-										
71.43	20	3300	7.9	34500	3300	-	-										
65.45	21	2900	8.7	35100	2030	-	-						S 97	AD3	145	666	
													SF 97	AD3	180	666	
													SA 97	AD3	140	666	
													SAF 97	AD3	165	666	
60.59	23	3300	9.2	34500	3260	-	-							S 97 SF 97 SA 97 SAF 97	AD4 AD4 AD4 AD4	150 185 145 170	666 666 666 666
55.79	25	3300	10.0	34500	3210	-	-										
49.87	28	3300	11.1	34500	3180	-	-										
44.89	31	3300	12.3	34100	3130	-	-										
40.65	34	3300	13.6	32800	3090	-	-										
36.05	39	3300	15.3	31300	3040	-	-										
32.60	43	3200	16.3	30400	3030	-	-										
27.63	51	3010	18.1	29000	6220	-	-	S 97	AD5	170	666						
								SF 97	AD5	200	666						
								SA 97	AD5	165	666						
								SAF 97	AD5	190	666						
26.39	53	2600	15.8	26100	2040	-	-	S 97	AD4	150	666						
								SF 97	AD4	185	666						
								SA 97	AD4	145	666						
								SAF 97	AD4	170	666						
24.13	58	2870	19.7	28000	6220	-	-		S 97 SF 97 SA 97 SAF 97	AD5 AD5 AD5 AD5	170 200 165 190	666 666 666 666					
23.59	59	2600	17.7	24500	5470	-	-										
21.23	66	2600	19.6	22800	5410	-	-										
19.23	73	2600	22	21200	5350	-	-										
17.05	82	2570	24	19700	5300	-	M1-6										
15.42	91	2470	26	19400	5320	-	M1-6										
13.07	107	2330	28	18800	5300	-	M1-6										
11.41	123	2210	31	18400	5310	-	M1-6										
9.55	147	2040	34	18200	5310	-	M1-6										
8.26	169	1770	34	18800	5480	-	M1-6										

S97p AD.. , n _e = 1400 min ⁻¹								4300 Nm				
i	n _a min ⁻¹	M _{amax} Nm	P _e kW	F _{Ra} ¹⁾ N	F _{Re} N	Φ _(R)			m kg			
286.40*	4.9	4300	2.8	32500	2150	-	-		S 97p SF 97p SA 97p SAF 97p	AD3 AD3 AD3 AD3	145 180 140 165	666 666 666 666
262.22	5.3	4300	3.0	32500	2140	-	-					
231.67	6.0	4300	3.4	32500	2120	-	-					
196.52	7.1	4300	4.0	32500	2100	-	-					
180.95	7.7	4300	4.3	32500	2080	-	-					
161.74	8.7	4300	4.8	32500	2060	-	-					
145.60*	9.6	4300	5.3	32500	2040	-	-					
131.85	11	4300	5.9	32500	2020	-	-					
116.92	12	4300	6.6	32500	1990	-	-					
105.71	13	4290	7.3	32600	1960	-	-					
89.60*	16	4070	8.1	33000	1940	-	-		S 97p SF 97p SA 97p SAF 97p	AD3 AD3 AD3 AD3	145 180 140 165	666 666 666 666
80.85	17	3230	6.4	34600	1400	-	-					
78.26	18	3910	8.9	33400	1930	-	-					

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S97p AD.. , n _e = 1400 min ⁻¹									4300 Nm			
i	n _a min ⁻¹	M _{amax} Nm	P _e kW	F _{Ra} ⁽¹⁾ N	F _{Re} N	Φ _(R)				m kg		
71.43	20	4100	9.2	33000	3060	-	-	 S 97p AD4 SF 97p AD4 SA 97p AD4 SAF 97p AD4	150	666		
									185	666		
									145	666		
									170	666		
65.45	21	3520	9.6	34100	1940	-	-	 S 97p AD3 SF 97p AD3 SA 97p AD3 SAF 97p AD3	145	666		
									180	666		
									140	666		
									165	666		
60.59	23	3980	10.5	33200	3060	-	-	 S 97p AD4 SF 97p AD4 SA 97p AD4 SAF 97p AD4	150	666		
55.79	25	3910	11.2	33400	3040	-	-		185	666		
49.87	28	3810	12.2	33600	3040	-	-		145	666		
44.89	31	3710	13.2	33100	3040	-	-		170	666		
40.65	34	3600	14.1	32200	3040	-	-					
36.05	39	3500	15.5	30900	3020	-	-					
32.60	43	3390	16.6	30000	3020	-	-					
27.63	51	3230	18.6	28600	6180	-	-	 S 97p AD5 SF 97p AD5 SA 97p AD5 SAF 97p AD5	170	666		
									200	666		
									165	666		
									190	666		
26.39	53	2600	15.3	26800	2210	-	-	 S 97p AD4 SF 97p AD4 SA 97p AD4 SAF 97p AD4	150	666		
									185	666		
									145	666		
									170	666		
24.13	58	3080	20	27500	6180	-	-	 S 97p AD5 SF 97p AD5 SA 97p AD5 SAF 97p AD5	170	666		
23.59	59	2600	17.1	25300	5560	-	-		200	666		
21.23	66	2600	19.0	23500	5500	-	-		165	666		
19.23	73	2600	21	21900	5430	-	-		190	666		
17.05	82	2570	23	20300	5380	-	-					
15.42	91	2470	25	20000	5390	-	-					
13.07	107	2330	28	19300	5370	-	-					
11.41	123	2210	30	18900	5380	-	-					
9.55	147	2040	33	18600	5370	-	-					
8.26	169	1770	33	19200	5540	-	-					

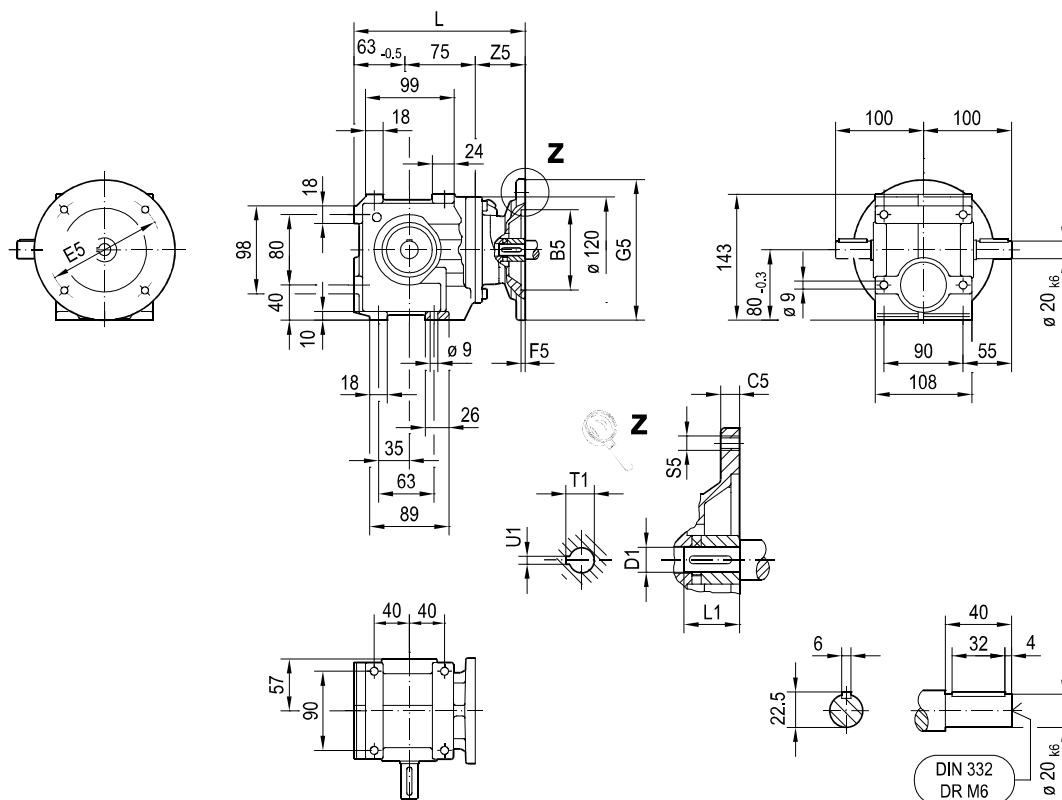
S97pR57 AD.. , n _e = 1400 min ⁻¹									4300 Nm			
i	n _a min ⁻¹	M _{amax} Nm	P _e kW	F _{Ra} ⁽¹⁾ N	F _{Re} N	Φ _(R)				m kg		
33818	0.04	4300	0.07	32500	1890	-	-	 S 97pR57 AD2 SF 97pR57 AD2 SA 97pR57 AD2 SAF 97pR57 AD2	165	666		
31154	0.04	4300	0.07	32500	1890	-	-		200	666		
27847	0.05	4300	0.07	32500	1890	-	-		160	666		
24641	0.06	4300	0.08	32500	1880	-	-		190	666		
21537	0.07	4300	0.08	32500	1890	-	-					
18749	0.07	4300	0.09	32500	1890	-	-					
16233	0.09	4300	0.10	32500	1890	-	-					
14576	0.10	4300	0.11	32500	1890	-	-					
12752	0.11	4300	0.12	32500	1880	-	-					
11267	0.12	4300	0.13	32500	1880	-	-					
10078	0.14	4300	0.14	32500	1870	-	-					
8608	0.16	4300	0.16	32500	1870	-	-					
7554	0.19	4300	0.18	32500	1860	-	-					
6640	0.21	4300	0.15	30200	1860	-	-					
5780	0.24	4300	0.17	30200	1860	-	-					
4937	0.28	4300	0.20	30200	1860	-	-					
4444	0.32	4300	0.22	30200	1850	-	-					
4017	0.35	4300	0.24	30200	1860	-	-					
3453	0.41	4300	0.27	30200	1830	-	-					
3108	0.45	4300	0.29	30200	1820	-	-					
2654	0.53	4300	0.34	30200	1820	-	-					
2329	0.60	4300	0.38	30200	1800	-	-					
2081	0.67	4300	0.43	30200	1820	-	-					
1860	0.75	4300	0.47	30200	1810	-	-					
1574	0.89	4300	0.55	30200	1800	-	-					

S97pR57 AD.. , $n_e = 1400 \text{ min}^{-1}$								4300 Nm		
i	n_a min^{-1}	M_{amax} Nm	P_e kW	$F_{Ra}^{1)}$ N	F_{Re} N	$\Phi_{(I/R)}$			m kg	
1394	1.0	4300	0.60	30200	1650	-	-			
1223	1.1	4300	0.68	30200	1620	-	-			
1070	1.3	4300	0.77	30200	1380	-	-			
928	1.5	4300	0.89	30200	1490	-	-			
824	1.7	4300	0.99	30200	1700	-	-			
714	2.0	4300	1.2	32500	1650	-	-			
626	2.2	4300	1.3	30300	1650	-	-	S	97pR57	AD2 165 666
538	2.6	4300	1.5	30400	1650	-	-	SF	97pR57	AD2 200 666
484	2.9	4300	1.6	30500	1620	-	-	SA	97pR57	AD2 160 666
420	3.3	4300	1.8	30500	1610	-	-	SAF	97pR57	AD2 185 666
376	3.7	4300	2.0	30600	1500	-	-			
327	4.3	4300	2.3	30600	1370	-	-			
287	4.9	4300	2.6	30700	1360	-	-			
252	5.6	4300	2.9	30700	1430	-	-			
219	6.4	4300	3.3	30700	1400	-	-			
205	6.8	4300	3.5	30700	1320	-	-			

11.4 Dimension sheets for adapters for mounting IEC motors (AMS..)

02 120 00 20

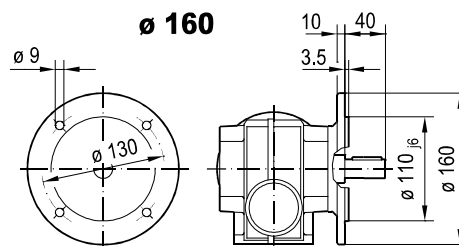
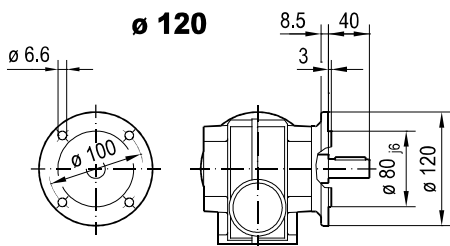
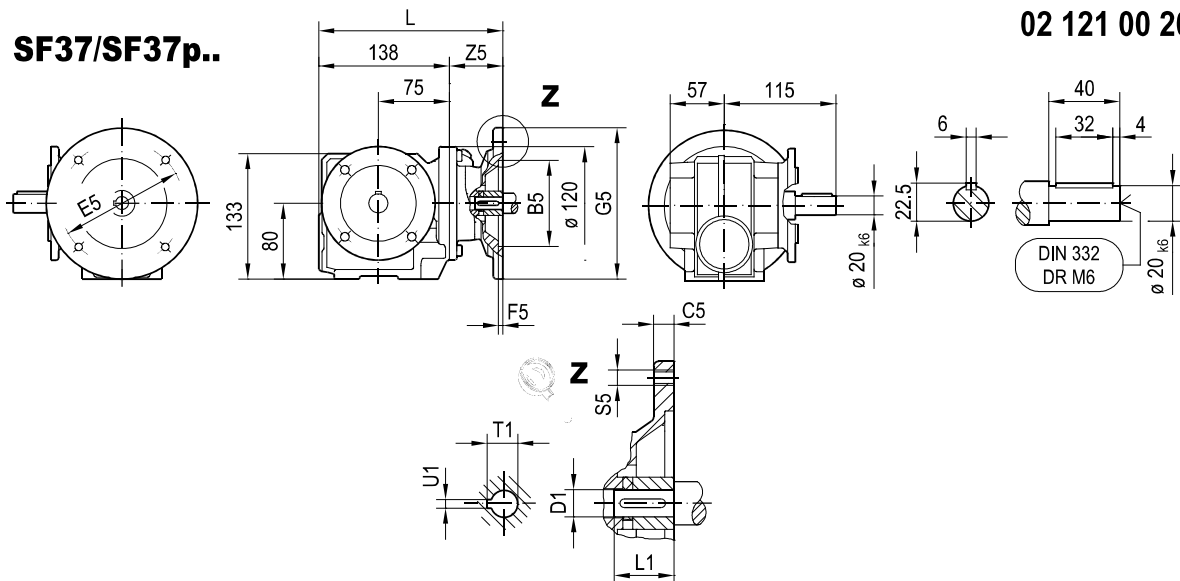
S37/S37p..



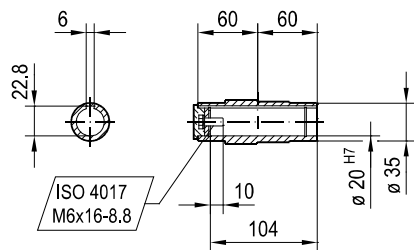
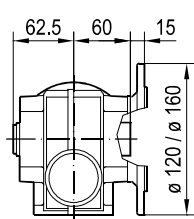
(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	195	M8	56.5	11	23	12.8	4
AMS71	110	10	130	4	160	195	M8	56.5	14	30	16.3	5
AMS80	130	12	165	4.5	200	212	M10	73.5	19	40	21.8	6
AMS90	130	12	165	4.5	200	225	M10	86.5	24	50	27.3	8

SF37/SF37p..

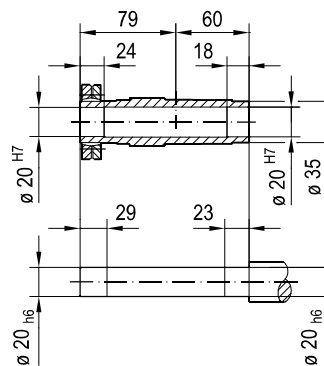
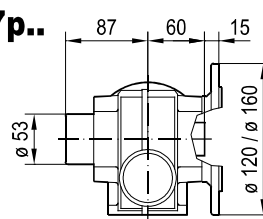
02 121 00 20



SAF37/SAF37p..

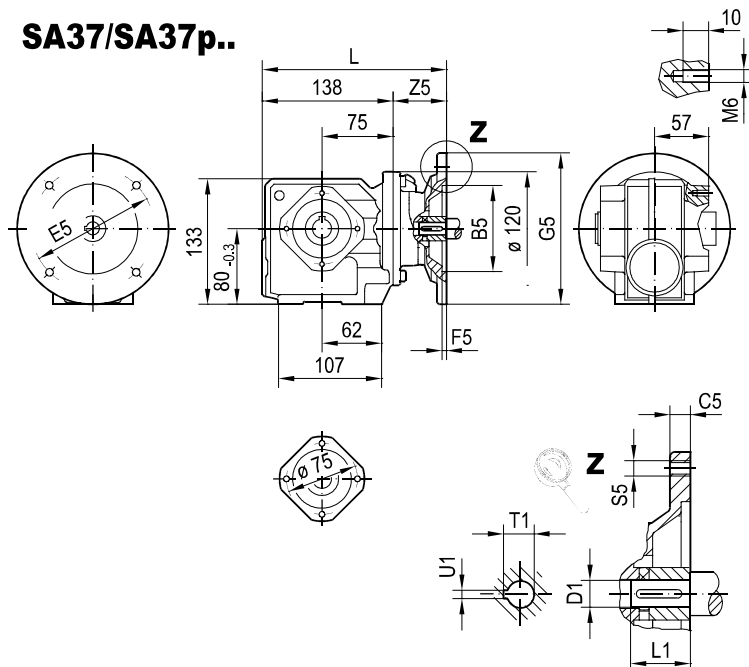


SHF37/SHF37p..



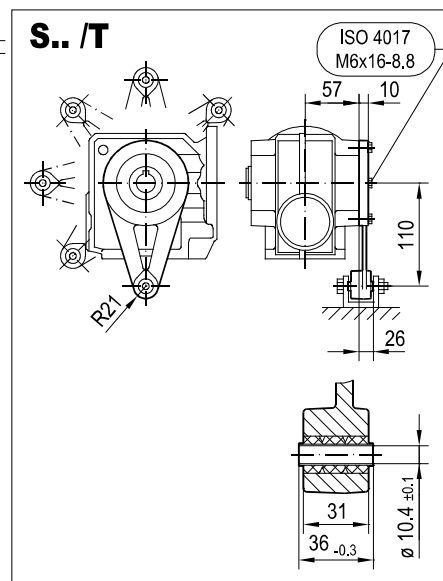
(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	195	M8	56.5	11	23	12.8	4
AMS71	110	10	130	4	160	195	M8	56.5	14	30	16.3	5
AMS80	130	12	165	4.5	200	212	M10	73.5	19	40	21.8	6
AMS90	130	12	165	4.5	200	225	M10	86.5	24	50	27.3	8

SA37/SA37p..

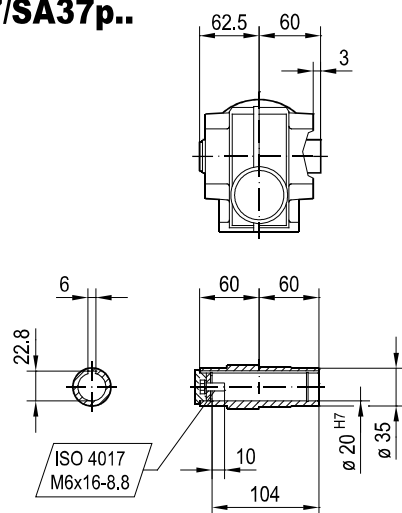


02 122 00 20

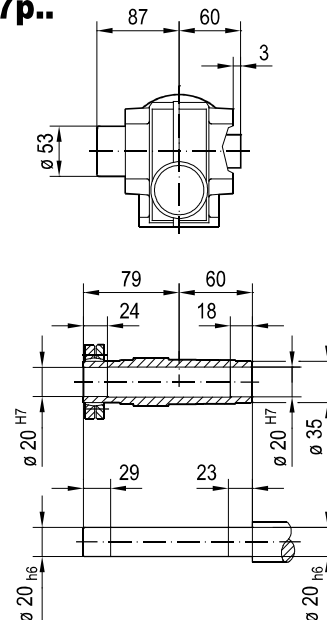
S.. / T



SA37/SA37p..



SH37/SH37p..

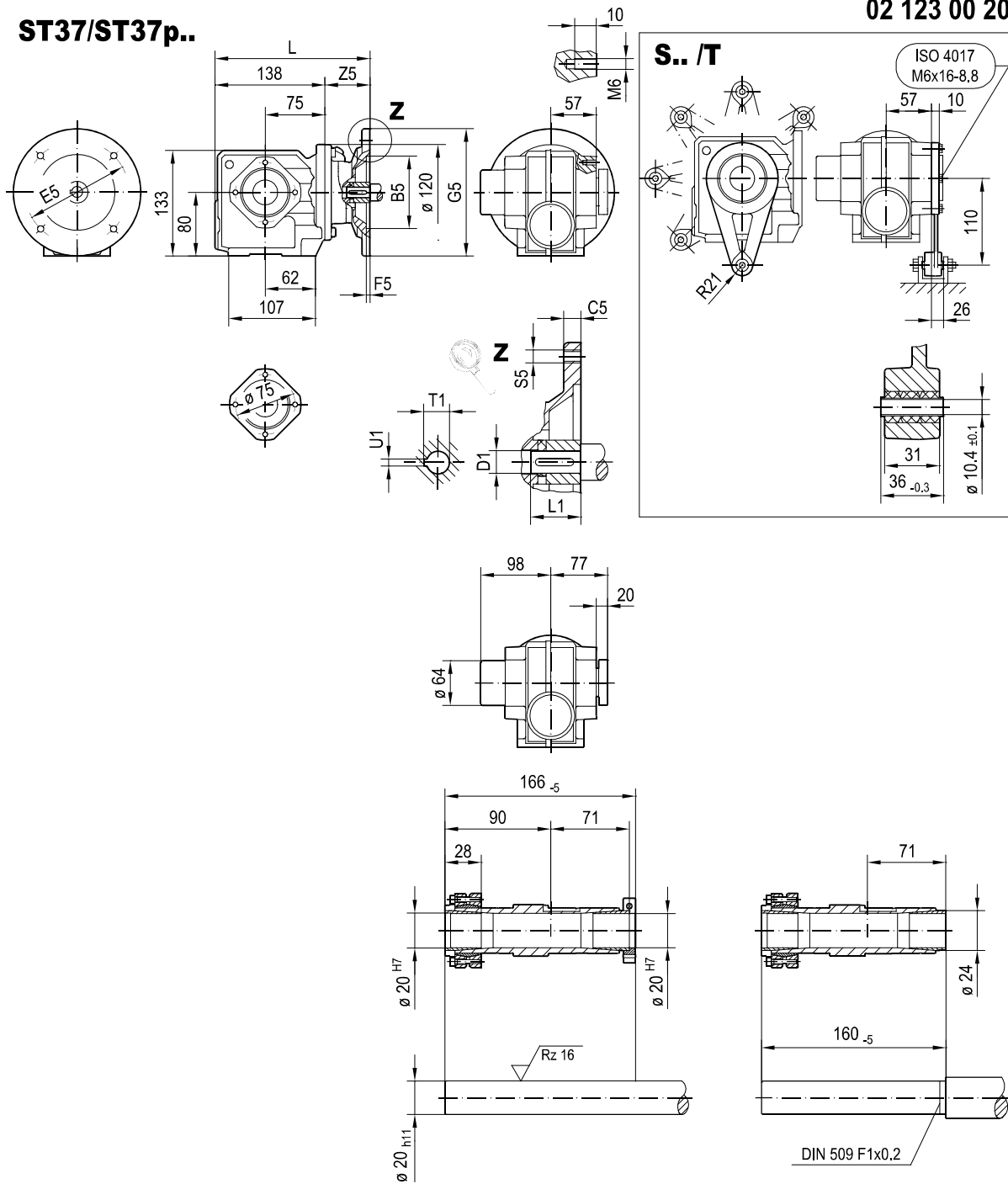


(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	195	M8	56.5	11	23	12.8	4
AMS71	110	10	130	4	160	195	M8	56.5	14	30	16.3	5
AMS80	130	12	165	4.5	200	212	M10	73.5	19	40	21.8	6
AMS90	130	12	165	4.5	200	225	M10	86.5	24	50	27.3	8

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ST37/ST37p..

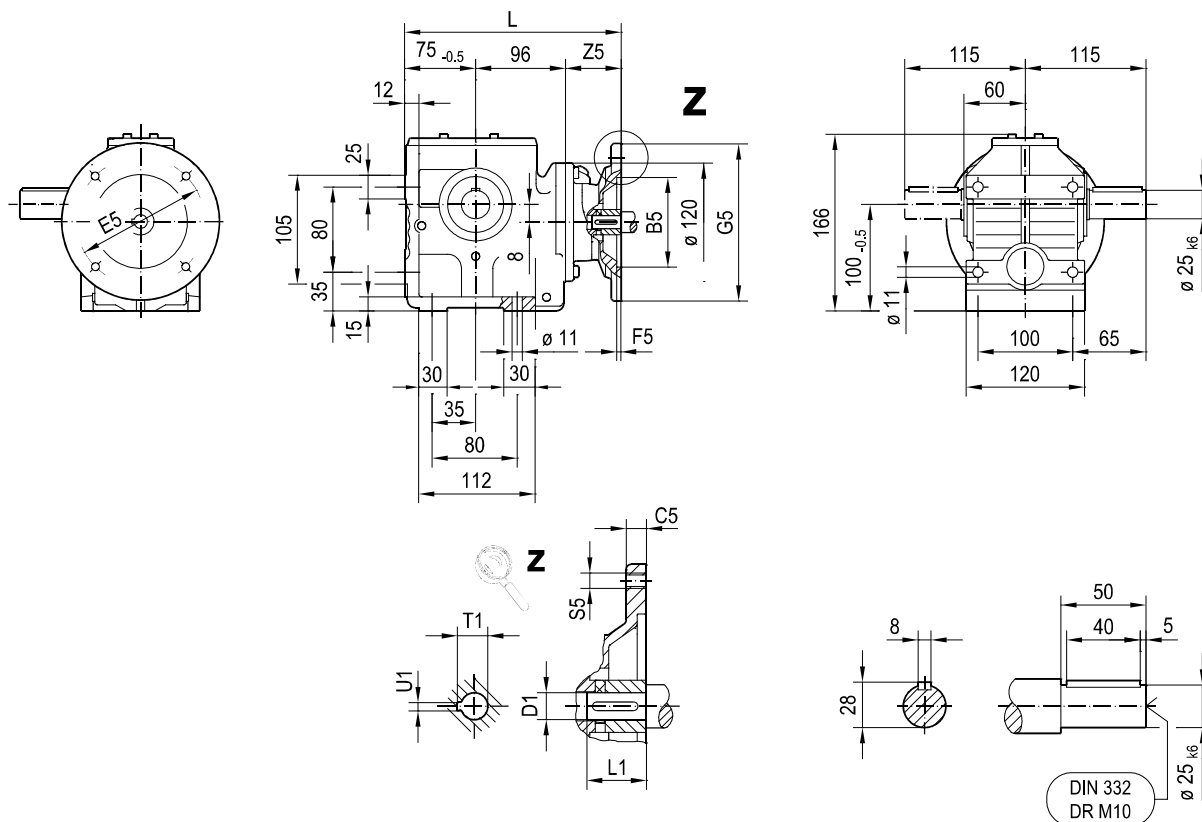
02 123 00 20



(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	195	M8	56.5	11	23	12.8	4
AMS71	110	10	130	4	160	195	M8	56.5	14	30	16.3	5
AMS80	130	12	165	4.5	200	212	M10	73.5	19	40	21.8	6
AMS90	130	12	165	4.5	200	225	M10	86.5	24	50	27.3	8

02 124 00 20

S47/S47p..

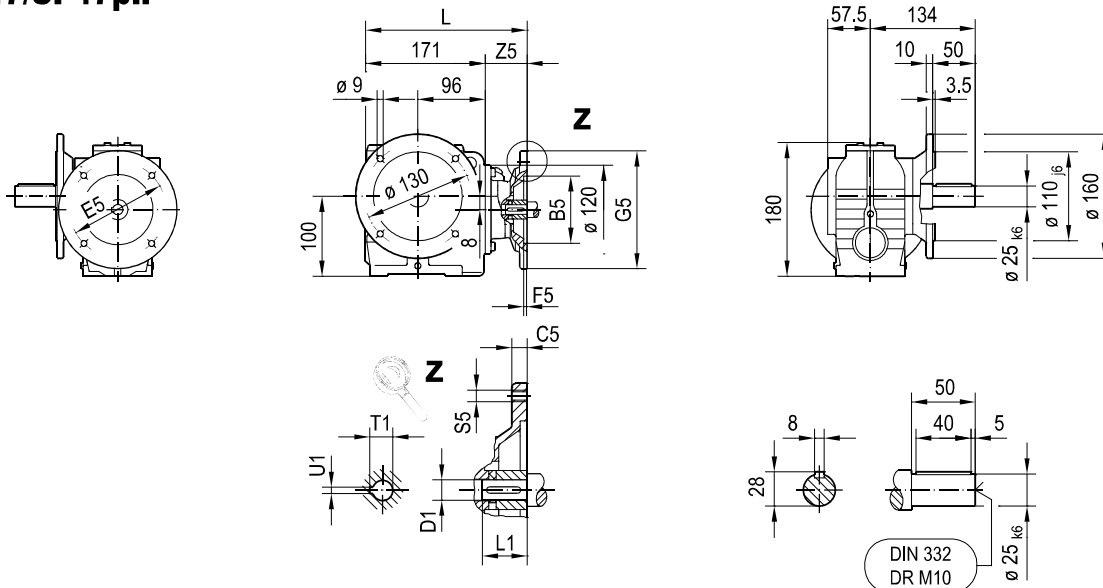


(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	228	M8	56.5	11	23	12.8	4
AMS71	110	10	130	4	160	228	M8	56.5	14	30	16.3	5
AMS80	130	12	165	4.5	200	245	M10	73.5	19	40	21.8	6
AMS90	130	12	165	4.5	200	258	M10	86.5	24	50	27.3	8

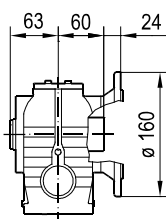
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02 125 00 20

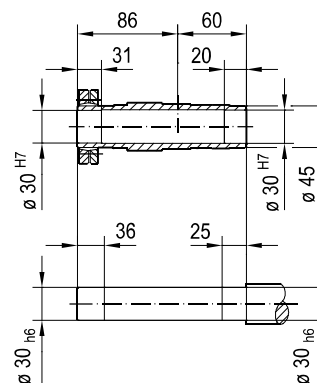
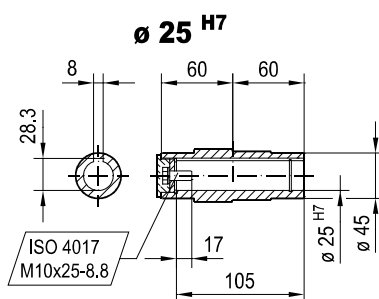
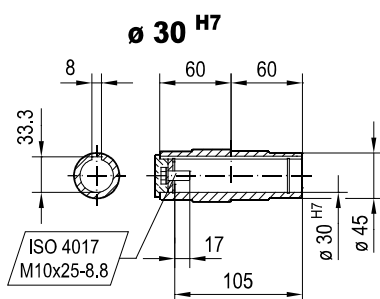
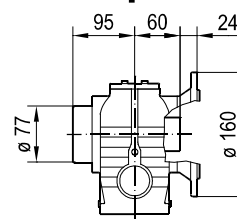
SF47/SF47p..



SAF47/SAF47p..

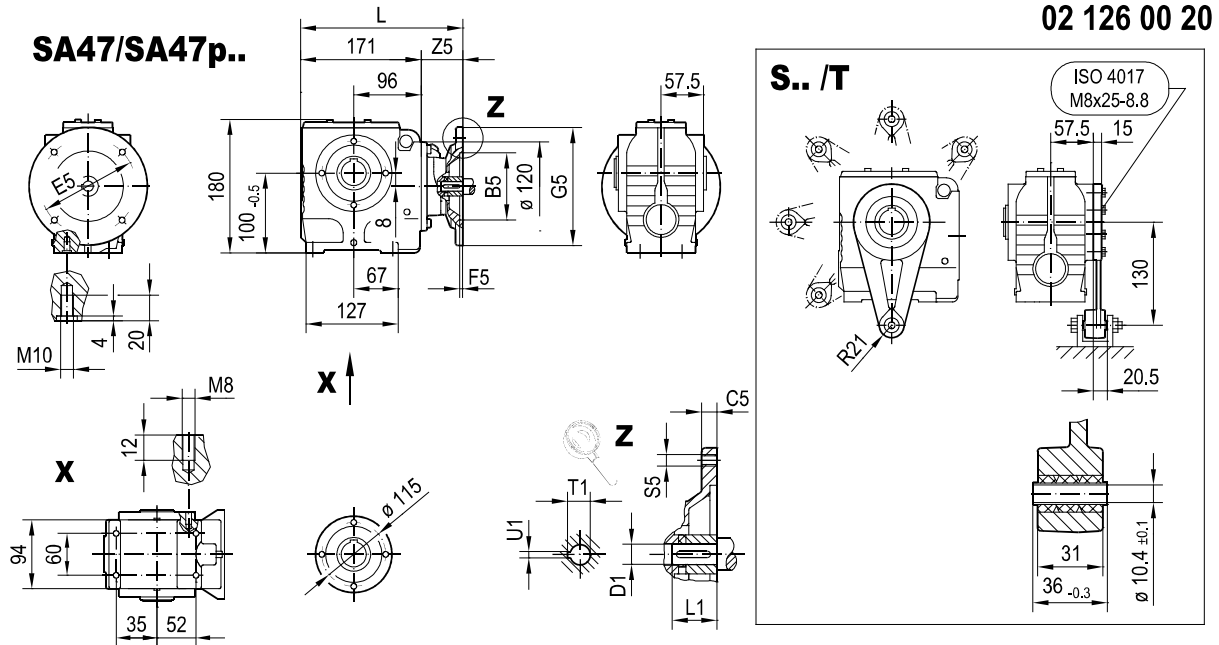


SHF47/SHF47p..

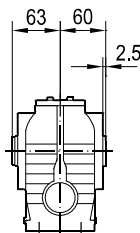


(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	228	M8	56.5	11	23	12.8	4
AMS71	110	10	130	4	160	228	M8	56.5	14	30	16.3	5
AMS80	130	12	165	4.5	200	245	M10	73.5	19	40	21.8	6
AMS90	130	12	165	4.5	200	258	M10	86.5	24	50	27.3	8

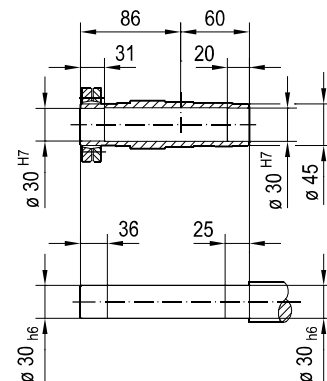
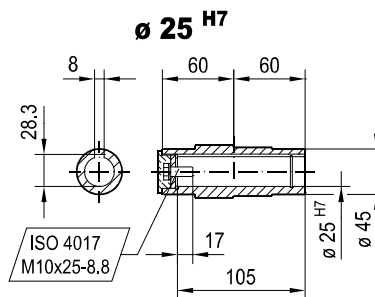
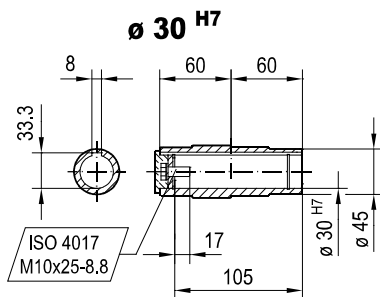
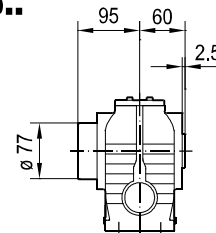
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SA47/SA47p..



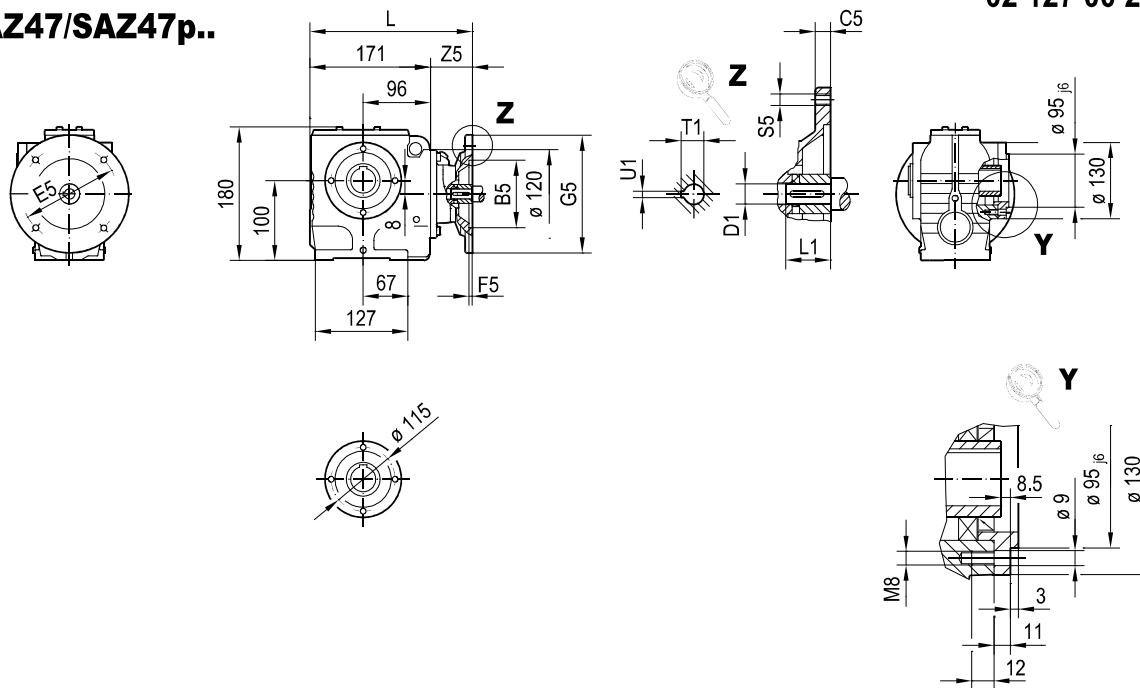
SH47/SH47p..



(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	228	M8	56.5	11	23	12.8	4
AMS71	110	10	130	4	160	228	M8	56.5	14	30	16.3	5
AMS80	130	12	165	4.5	200	245	M10	73.5	19	40	21.8	6
AMS90	130	12	165	4.5	200	258	M10	86.5	24	50	27.3	8

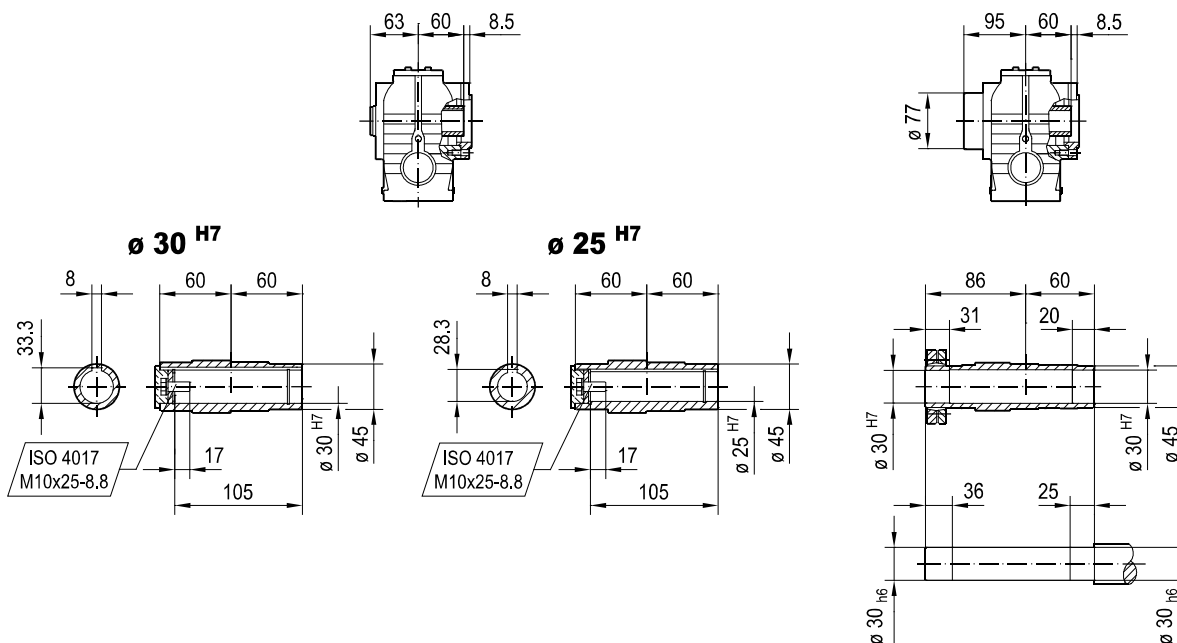
02 127 00 20

SAZ47/SAZ47p..



SAZ47/SAZ47p..

SHZ47/SHZ47p..

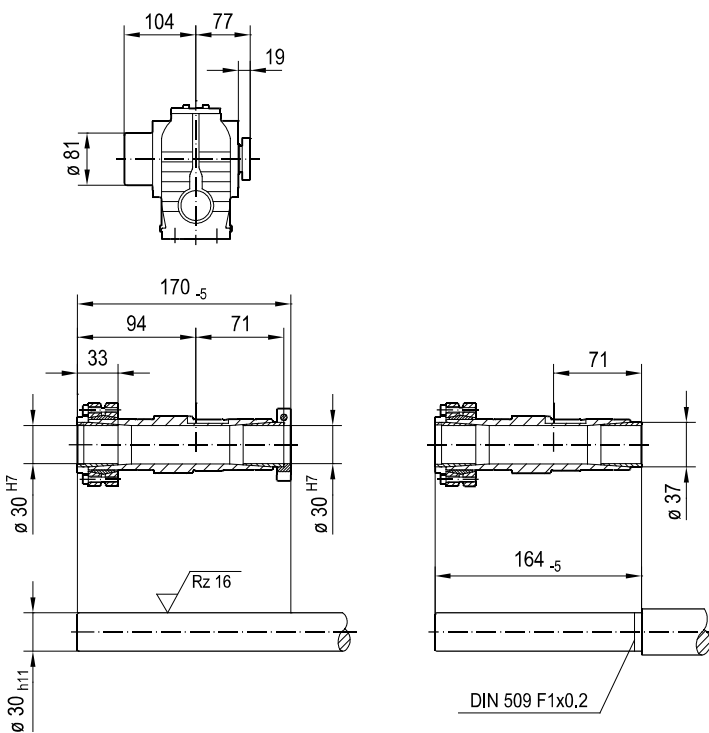
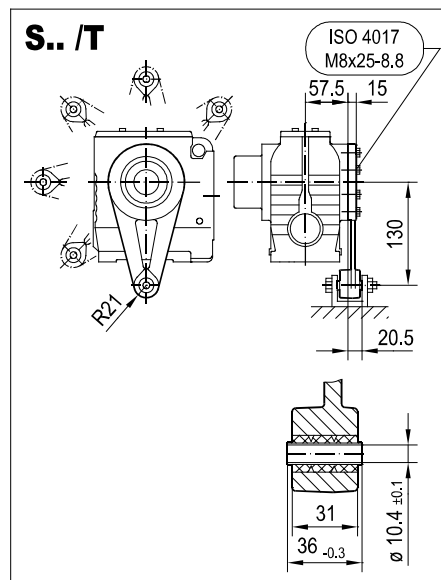
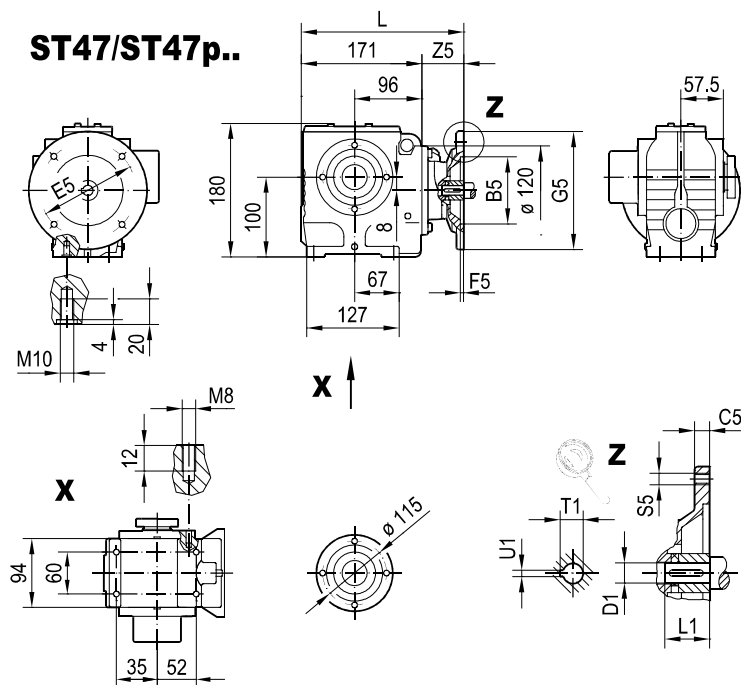


(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	228	M8	56.5	11	23	12.8	4
AMS71	110	10	130	4	160	228	M8	56.5	14	30	16.3	5
AMS80	130	12	165	4.5	200	245	M10	73.5	19	40	21.8	6
AMS90	130	12	165	4.5	200	258	M10	86.5	24	50	27.3	8

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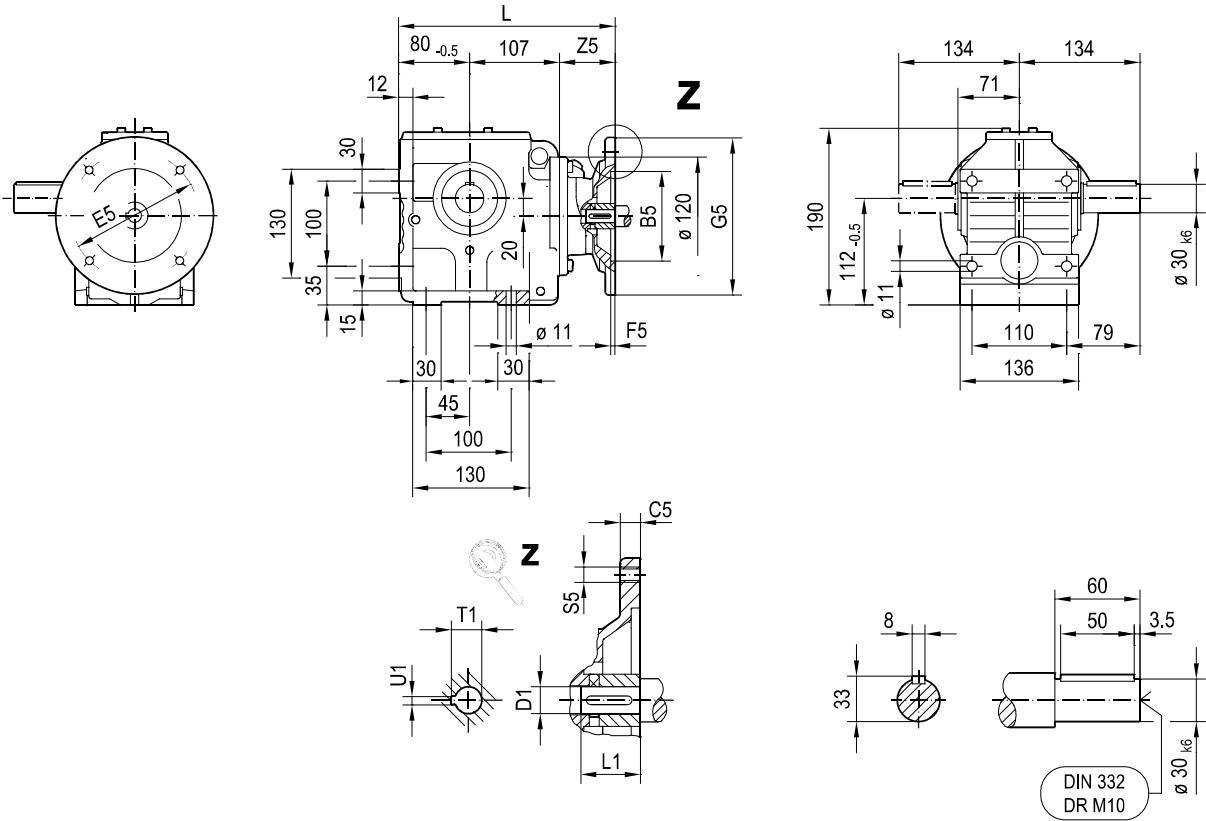
ST47/ST47p..



(→  7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	228	M8	56.5	11	23	12.8	4
AMS71	110	10	130	4	160	228	M8	56.5	14	30	16.3	5
AMS80	130	12	165	4.5	200	245	M10	73.5	19	40	21.8	6
AMS90	130	12	165	4.5	200	258	M10	86.5	24	50	27.3	8

02 129 00 20

S57/S57p..

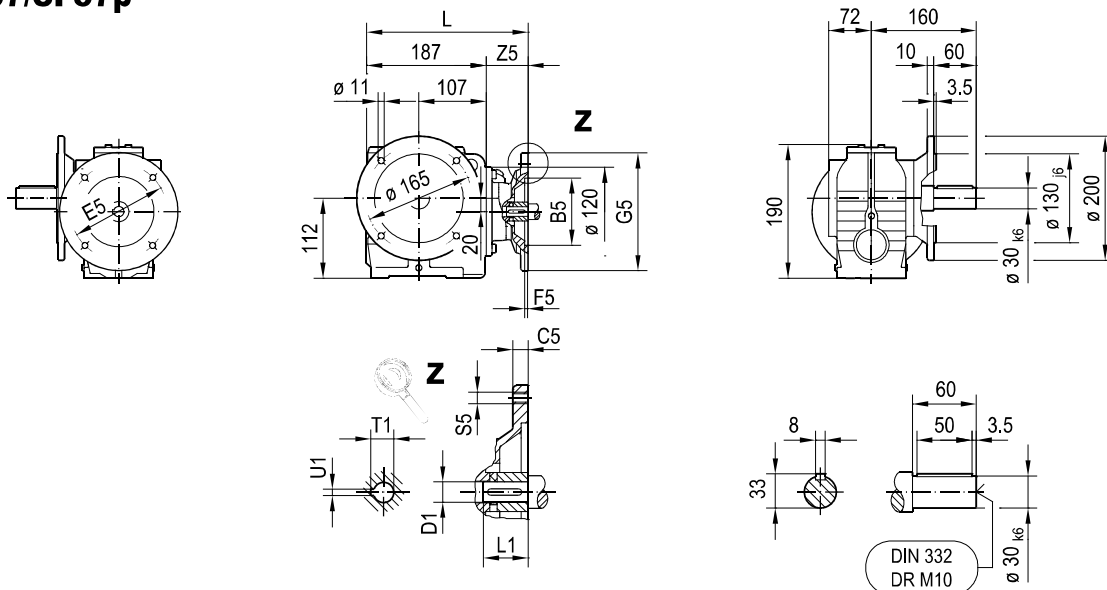


(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	244	M8	56.5	11	23	12.8	4
AMS71	110	10	130	4	160	244	M8	56.5	14	30	16.3	5
AMS80	130	12	165	4.5	200	261	M10	73.5	19	40	21.8	6
AMS90	130	12	165	4.5	200	274	M10	86.5	24	50	27.3	8

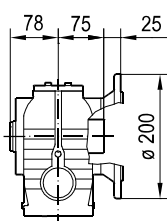
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02 130 00 20

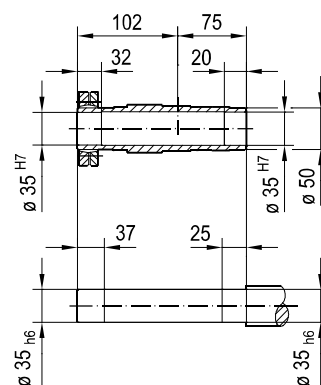
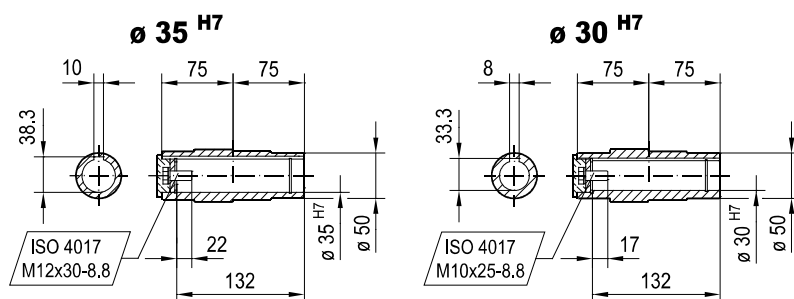
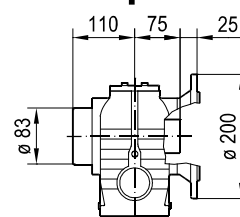
SF57/SF57p



SAF57/SAF57p..



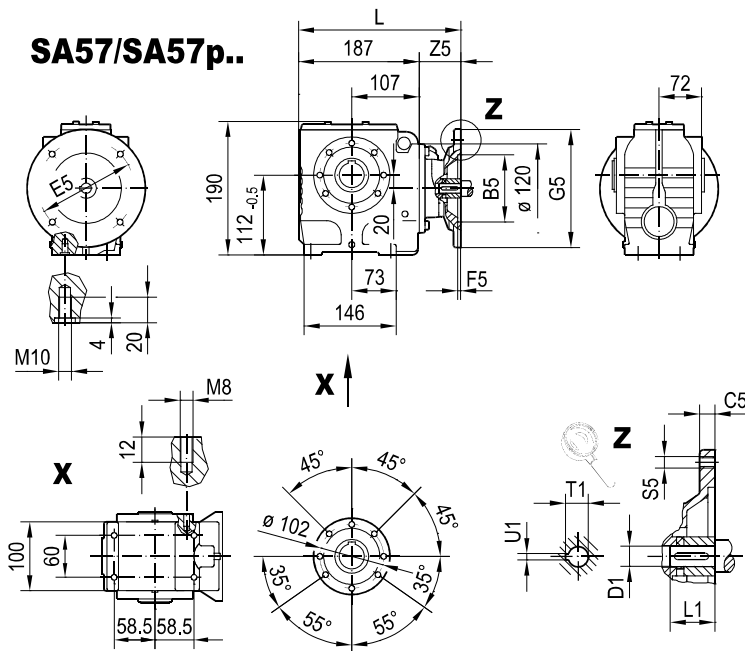
SHF57/SHF57p..



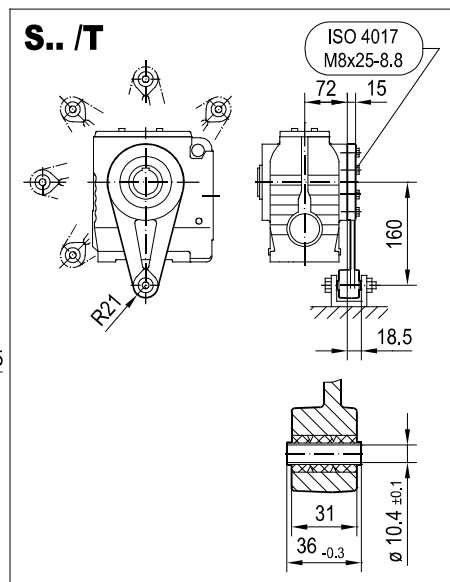
(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	244	M8	56.5	11	23	12.8	4
AMS71	110	10	130	4	160	244	M8	56.5	14	30	16.3	5
AMS80	130	12	165	4.5	200	261	M10	73.5	19	40	21.8	6
AMS90	130	12	165	4.5	200	274	M10	86.5	24	50	27.3	8

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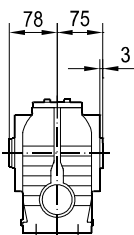
SA57/SA57p..



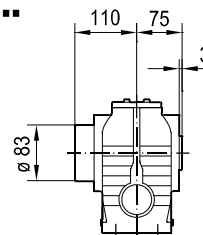
02 131 00 20



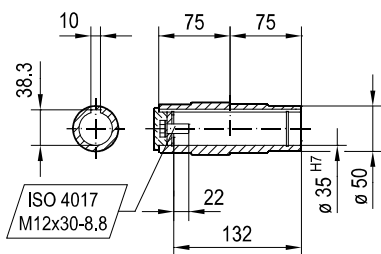
SA57/SA57p..



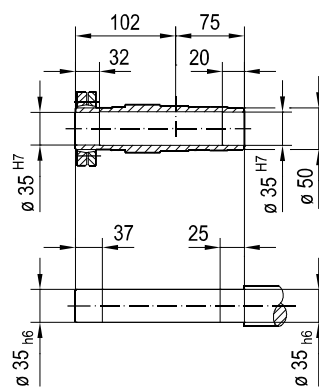
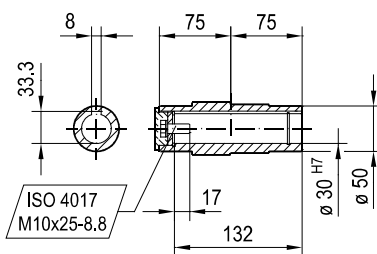
SH57/SH57p..



Ø 35 H7



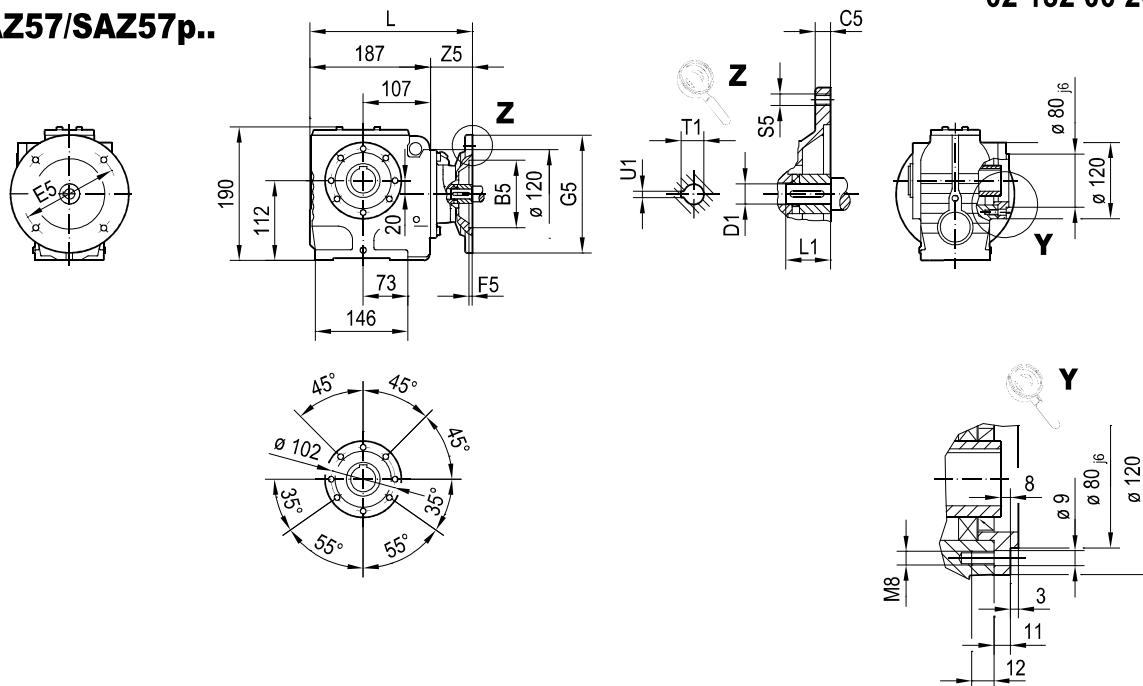
Ø 30 H7



(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	244	M8	56.5	11	23	12.8	4
AMS71	110	10	130	4	160	244	M8	56.5	14	30	16.3	5
AMS80	130	12	165	4.5	200	261	M10	73.5	19	40	21.8	6
AMS90	130	12	165	4.5	200	274	M10	86.5	24	50	27.3	8

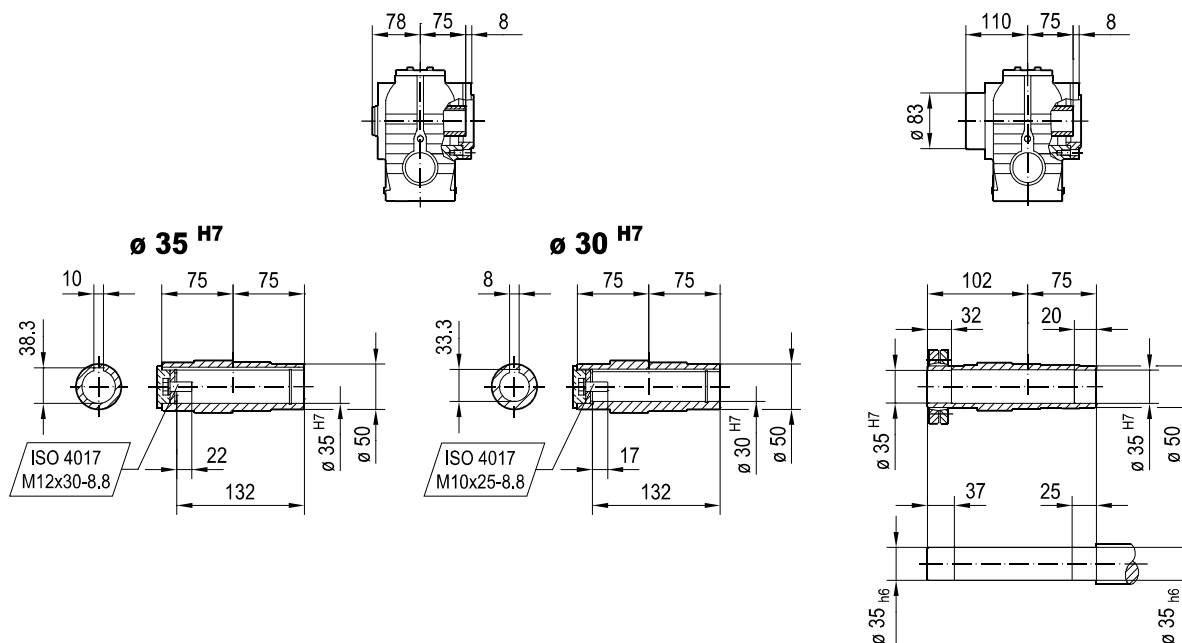
02 132 00 20

SAZ57/SAZ57p..



SAZ57/SAZ57p..

SHZ57/SHZ57p..

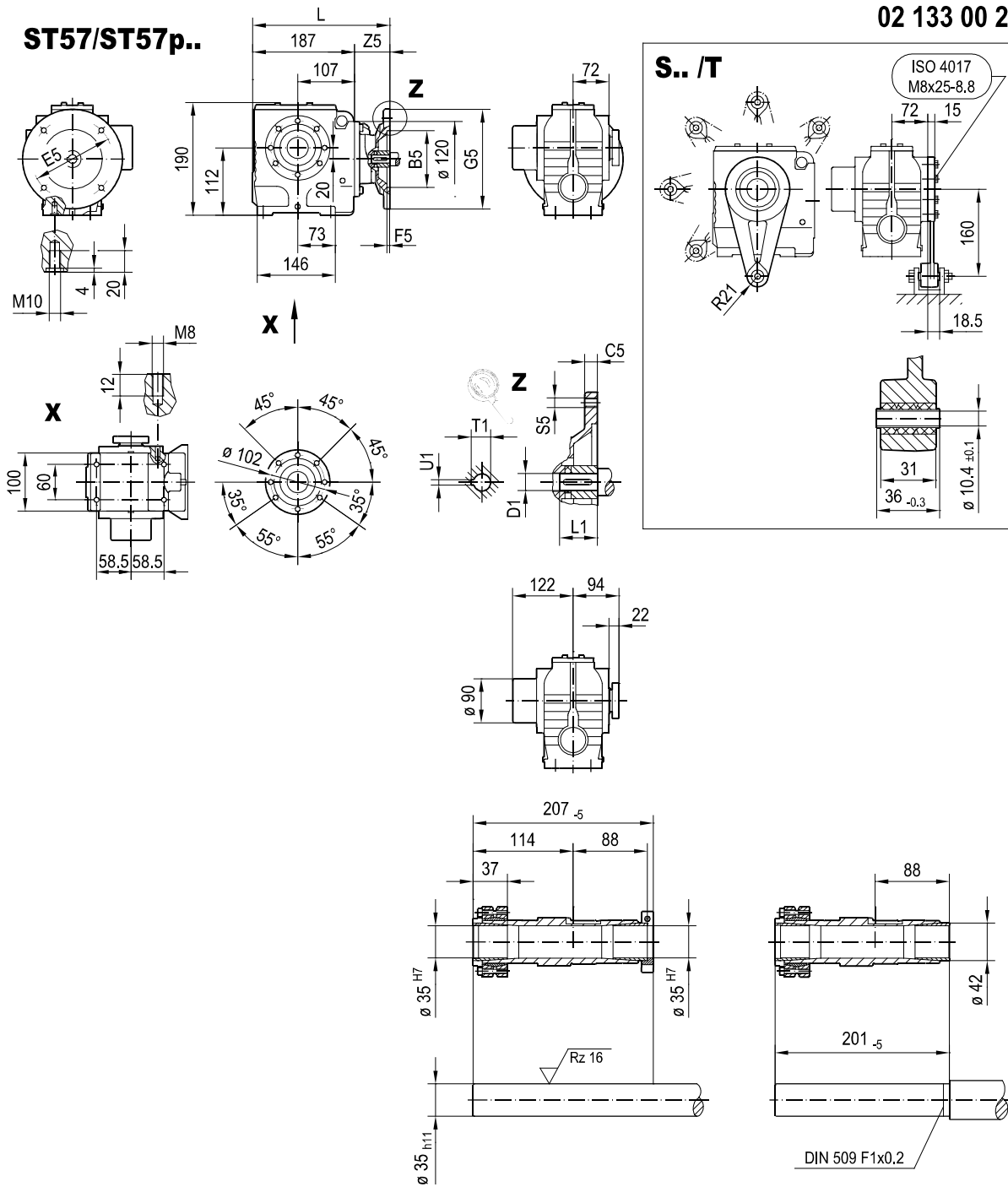


(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	244	M8	56.5	11	23	12.8	4
AMS71	110	10	130	4	160	244	M8	56.5	14	30	16.3	5
AMS80	130	12	165	4.5	200	261	M10	73.5	19	40	21.8	6
AMS90	130	12	165	4.5	200	274	M10	86.5	24	50	27.3	8

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ST57/ST57p..

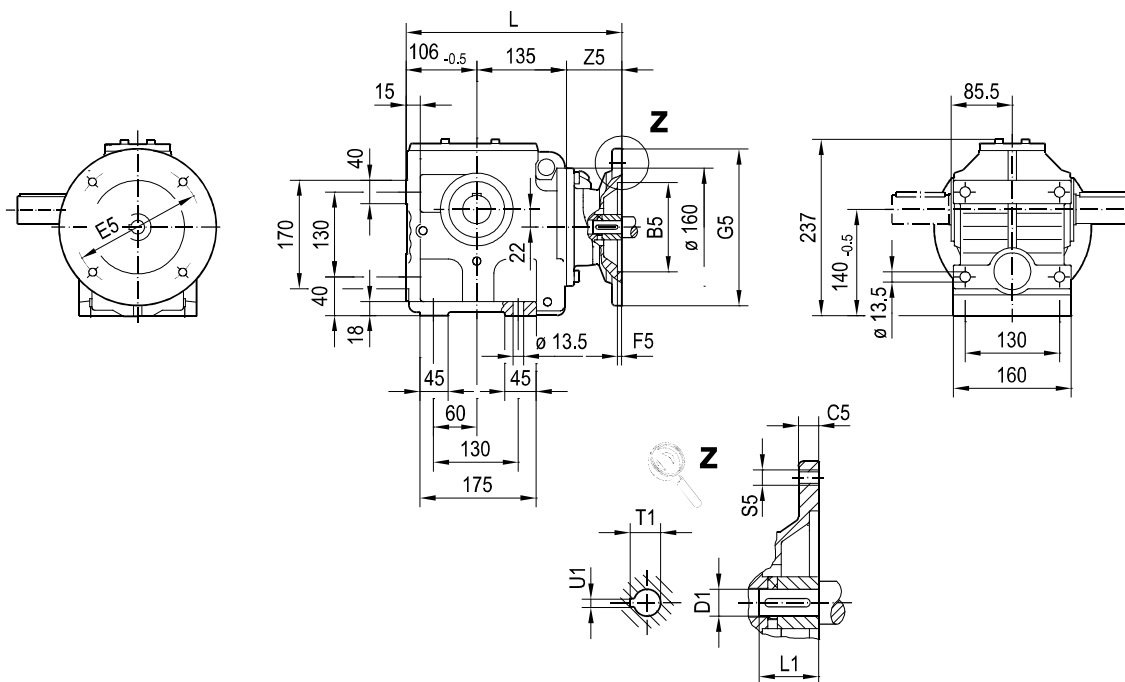
02 133 00 20



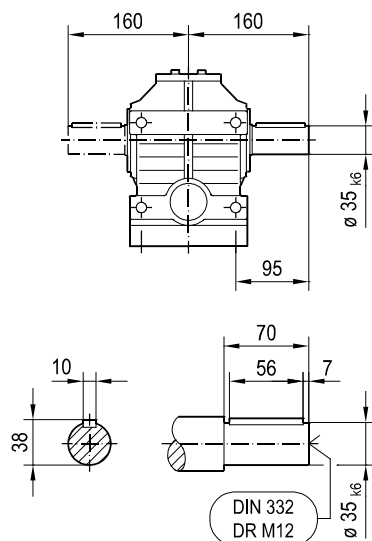
(→  7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	244	M8	56.5	11	23	12.8	4
AMS71	110	10	130	4	160	244	M8	56.5	14	30	16.3	5
AMS80	130	12	165	4.5	200	261	M10	73.5	19	40	21.8	6
AMS90	130	12	165	4.5	200	274	M10	86.5	24	50	27.3	8

S67/S67p..

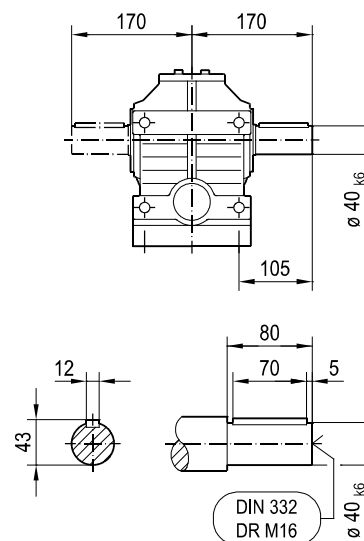
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S67..



S67/S67p..

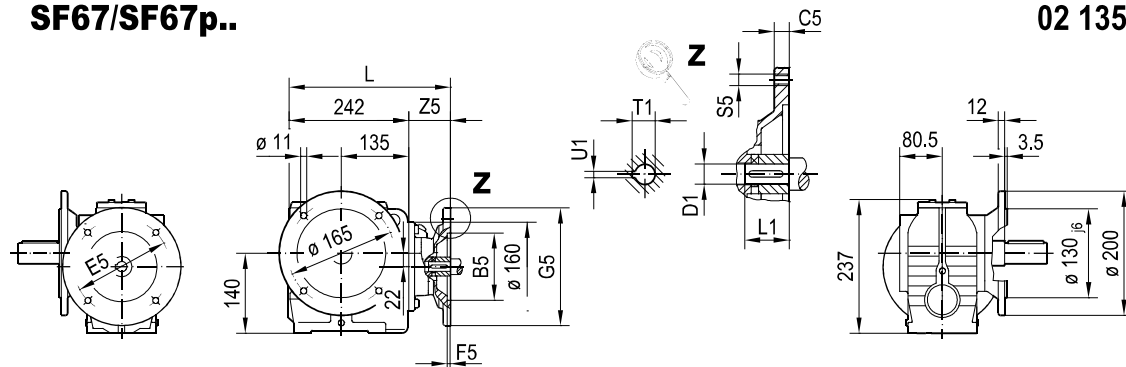


(→  7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	291	M8	50	11	23	12.8	4
AMS71	110	10	130	4	160	291	M8	50	14	30	16.3	5
AMS80	130	12	165	4.5	200	308	M10	67	19	40	21.8	6
AMS90	130	12	165	4.5	200	321	M10	80	24	50	27.3	8
AMS100	180	15	215	5	250	350	M12	108.5	28	60	31.3	8
AMS112	180	15	215	5	250	350	M12	108.5	28	60	31.3	8
AMS132S/M	230	16	265	5	300	375	M12	134	38	80	41.3	10

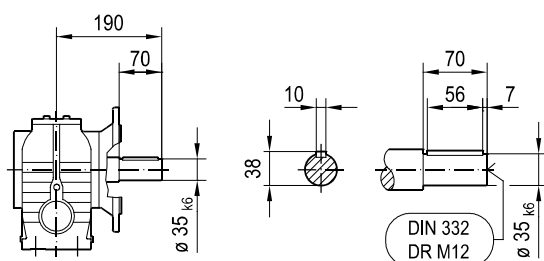
27797880/EN – 03/2023

SF67/SF67p..

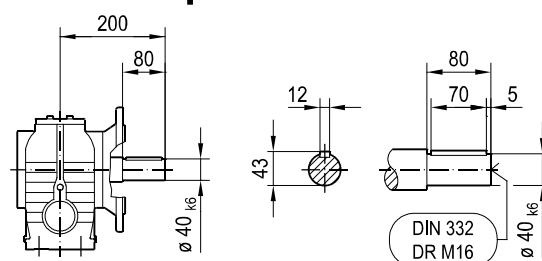
02 135 00 20



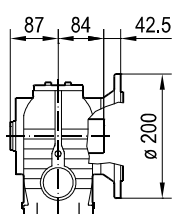
SF67..



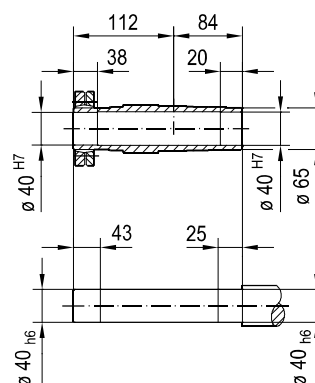
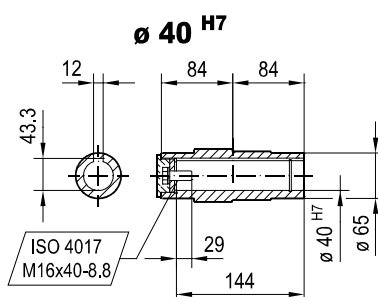
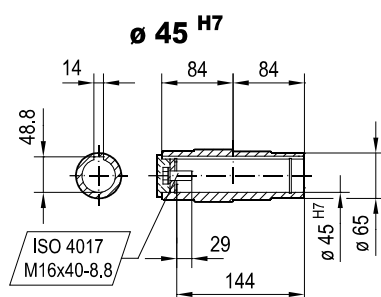
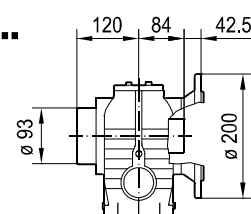
SF67/SF67p..



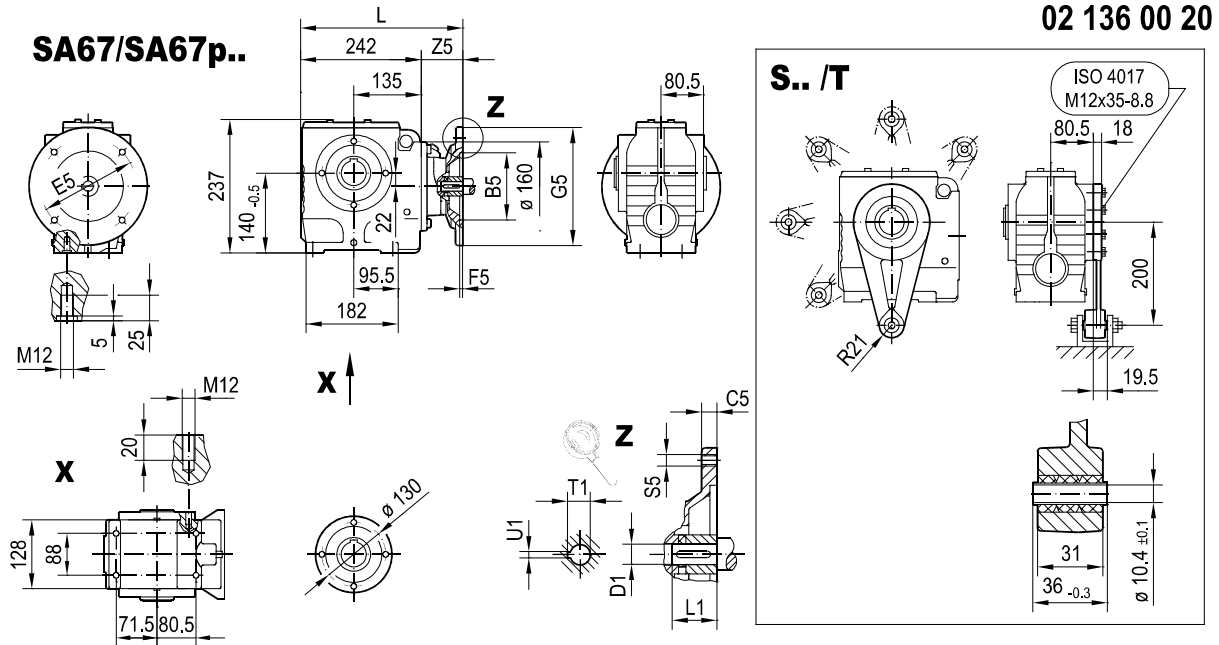
SAF67/SAF67p..



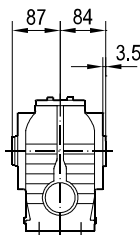
SHF67/SHF67p..



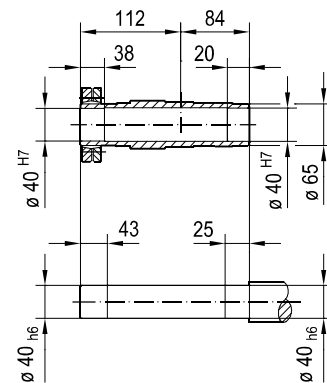
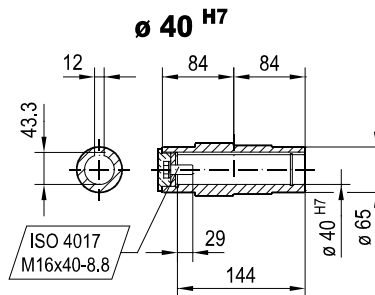
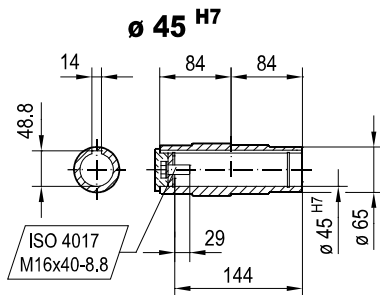
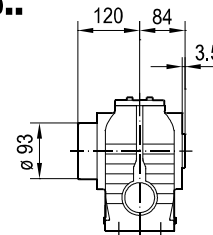
(→  7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	292	M8	50	11	23	12.8	4
AMS71	110	10	130	4	160	292	M8	50	14	30	16.3	5
AMS80	130	12	165	4.5	200	309	M10	67	19	40	21.8	6
AMS90	130	12	165	4.5	200	322	M10	80	24	50	27.3	8
AMS100	180	15	215	5	250	351	M12	108.5	28	60	31.3	8
AMS112	180	15	215	5	250	351	M12	108.5	28	60	31.3	8
AMS132S/M	230	16	265	5	300	376	M12	134	38	80	41.3	10



SA67/SA67p..



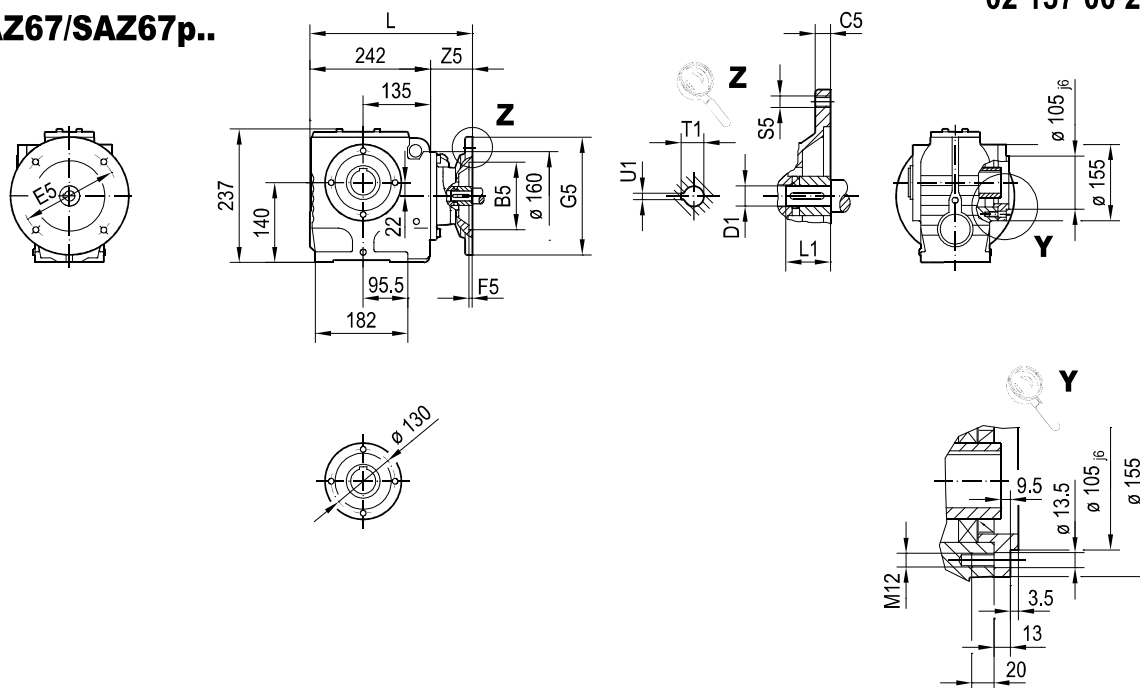
SH67/SH67p..



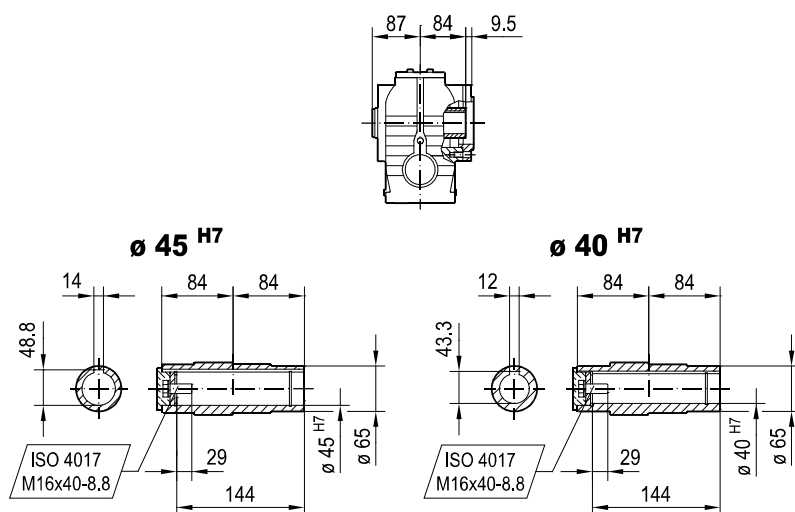
(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	292	M8	50	11	23	12.8	4
AMS71	110	10	130	4	160	292	M8	50	14	30	16.3	5
AMS80	130	12	165	4.5	200	309	M10	67	19	40	21.8	6
AMS90	130	12	165	4.5	200	322	M10	80	24	50	27.3	8
AMS100	180	15	215	5	250	351	M12	108.5	28	60	31.3	8
AMS112	180	15	215	5	250	351	M12	108.5	28	60	31.3	8
AMS132S/M	230	16	265	5	300	376	M12	134	38	80	41.3	10

02 137 00 20

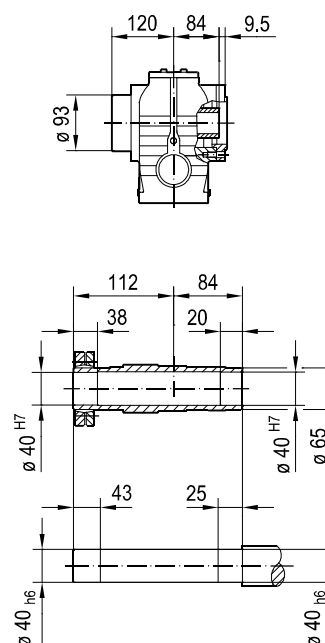
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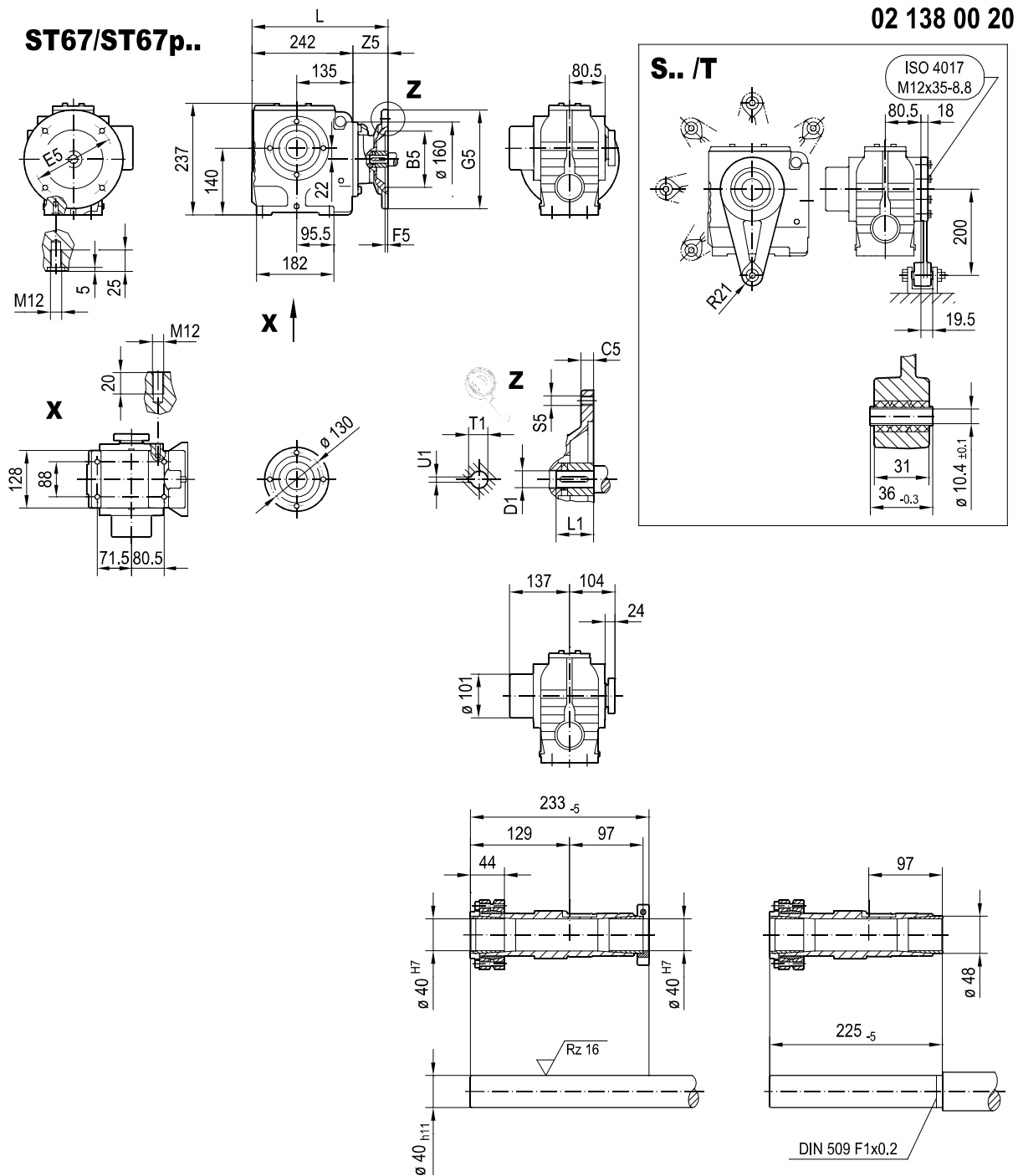
SAZ67/SAZ67p..



SHZ67/SHZ67p..



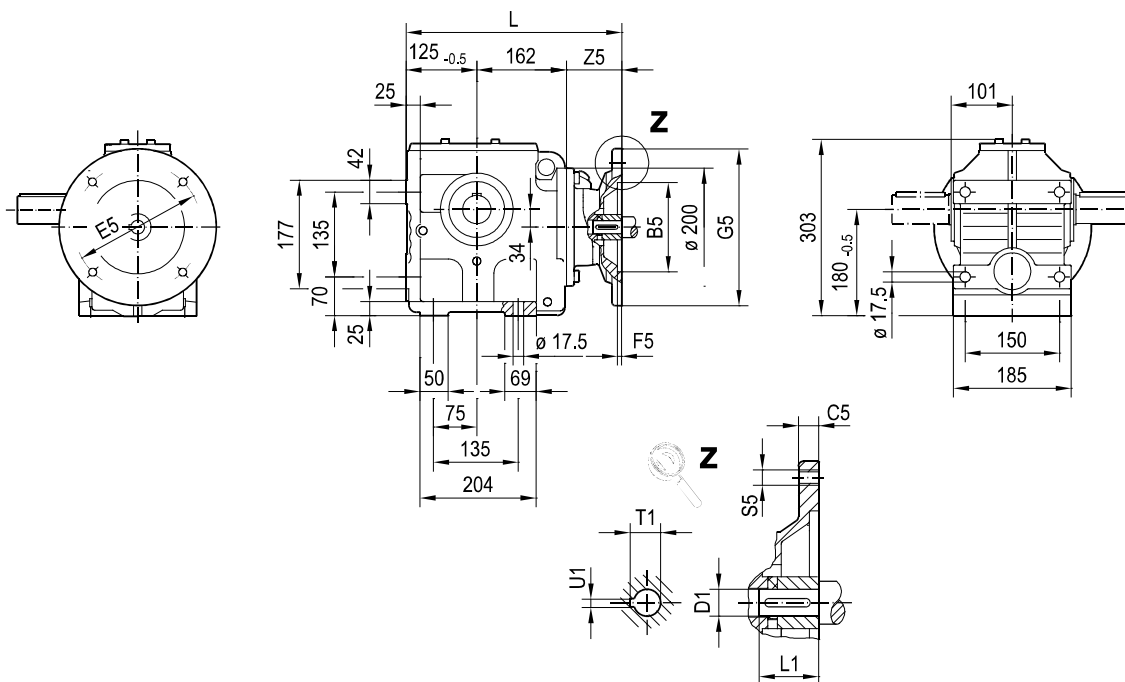
(→  7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	292	M8	50	11	23	12.8	4
AMS71	110	10	130	4	160	292	M8	50	14	30	16.3	5
AMS80	130	12	165	4.5	200	309	M10	67	19	40	21.8	6
AMS90	130	12	165	4.5	200	322	M10	80	24	50	27.3	8
AMS100	180	15	215	5	250	351	M12	108.5	28	60	31.3	8
AMS112	180	15	215	5	250	351	M12	108.5	28	60	31.3	8
AMS132S/M	230	16	265	5	300	376	M12	134	38	80	41.3	10



(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	292	M8	50	11	23	12.8	4
AMS71	110	10	130	4	160	292	M8	50	14	30	16.3	5
AMS80	130	12	165	4.5	200	309	M10	67	19	40	21.8	6
AMS90	130	12	165	4.5	200	322	M10	80	24	50	27.3	8
AMS100	180	15	215	5	250	351	M12	108.5	28	60	31.3	8
AMS112	180	15	215	5	250	351	M12	108.5	28	60	31.3	8
AMS132S/M	230	16	265	5	300	376	M12	134	38	80	41.3	10

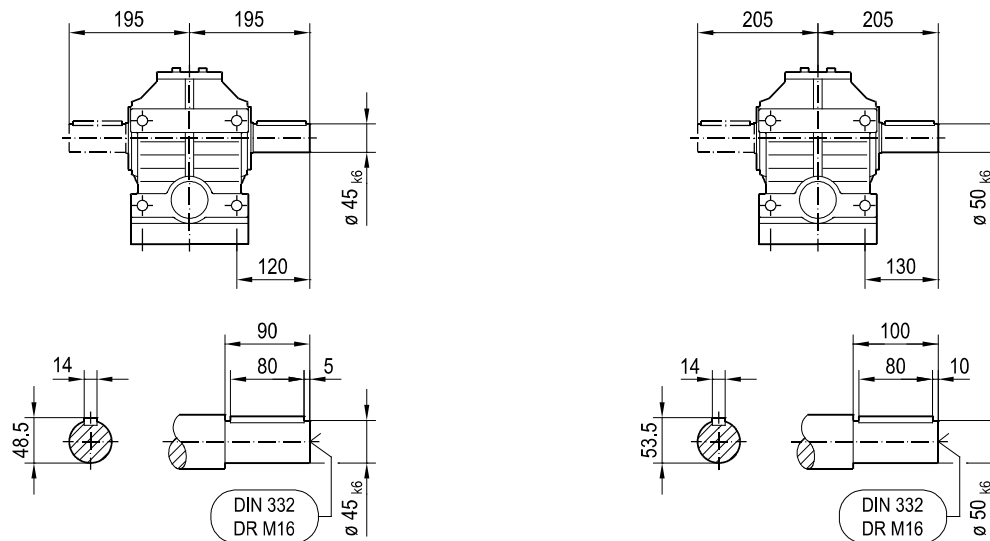
S77/S77p..

02 139 00 20



S77..

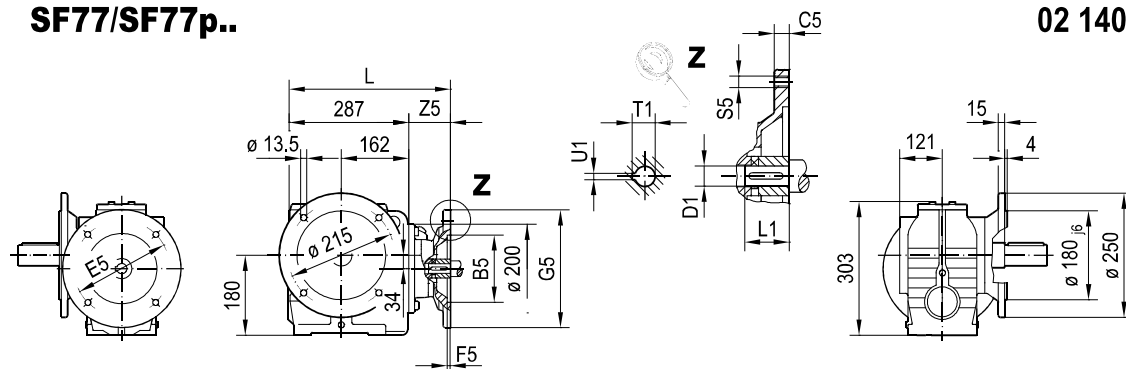
S77/S77p..



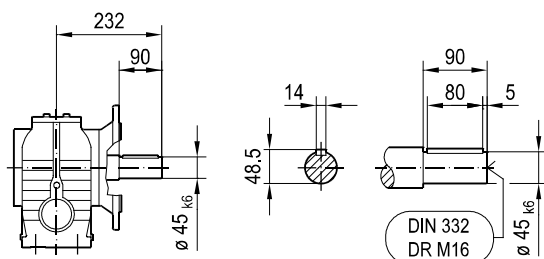
(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	331	M8	44	11	23	12.8	4
AMS71	110	10	130	4	160	331	M8	44	14	30	16.3	5
AMS80	130	12	165	4.5	200	347	M10	60	19	40	21.8	6
AMS90	130	12	165	4.5	200	360	M10	73	24	50	27.3	8
AMS100	180	15	215	5	250	388	M12	100.5	28	60	31.3	8
AMS112	180	15	215	5	250	388	M12	100.5	28	60	31.3	8
AMS132S/M	230	16	265	5	300	413	M12	126	38	80	41.3	10
AMS132ML	230	16	265	5	300	413	M12	126	38	80	41.3	10

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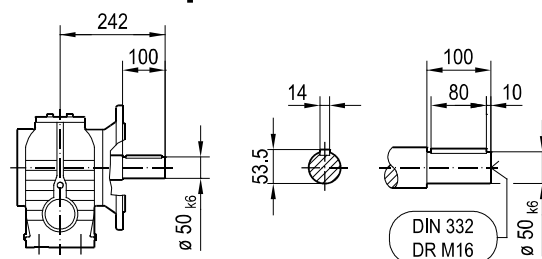
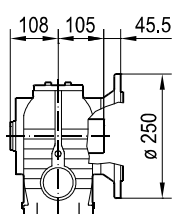
02 140 00 20



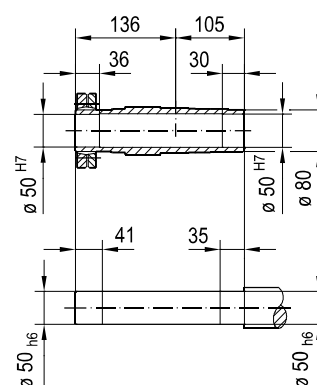
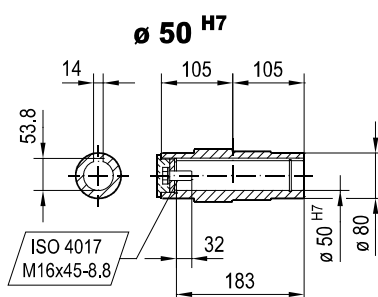
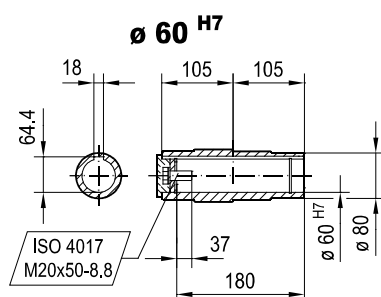
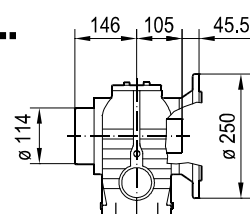
SF77..



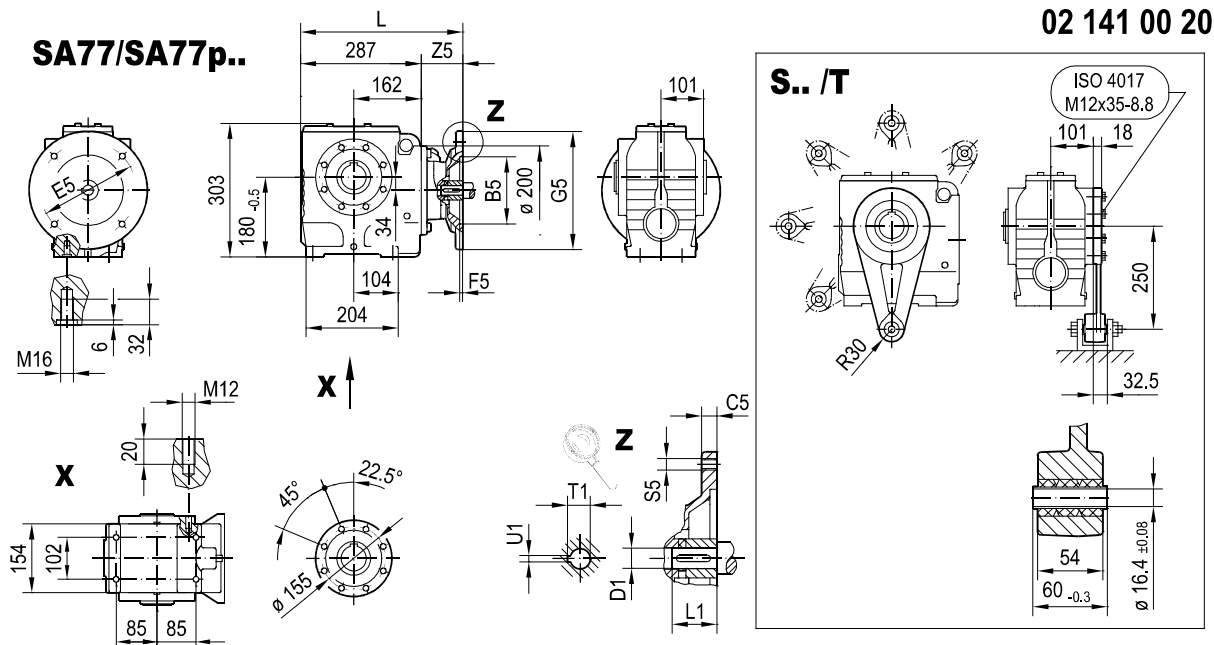
SF77/SF77p..

**SAF77/SAF77p..**

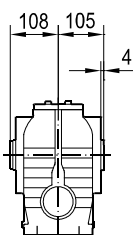
SHF77/SHF77p..



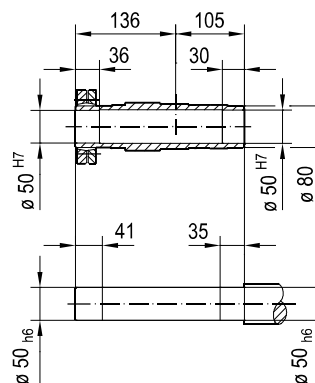
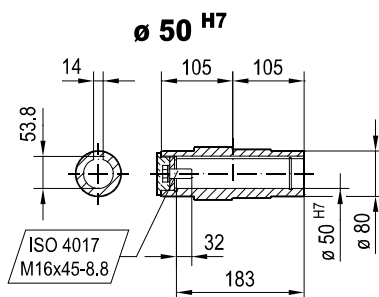
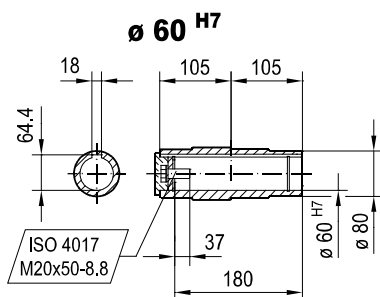
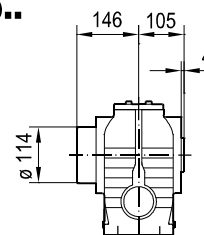
(→  7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	331	M8	44	11	23	12.8	4
AMS71	110	10	130	4	160	331	M8	44	14	30	16.3	5
AMS80	130	12	165	4.5	200	347	M10	60	19	40	21.8	6
AMS90	130	12	165	4.5	200	360	M10	73	24	50	27.3	8
AMS100	180	15	215	5	250	388	M12	100.5	28	60	31.3	8
AMS112	180	15	215	5	250	388	M12	100.5	28	60	31.3	8
AMS132S/M	230	16	265	5	300	413	M12	126	38	80	41.3	10
AMS132ML	230	16	265	5	300	413	M12	126	38	80	41.3	10



SA77/SA77p..



SH77/SH77p..

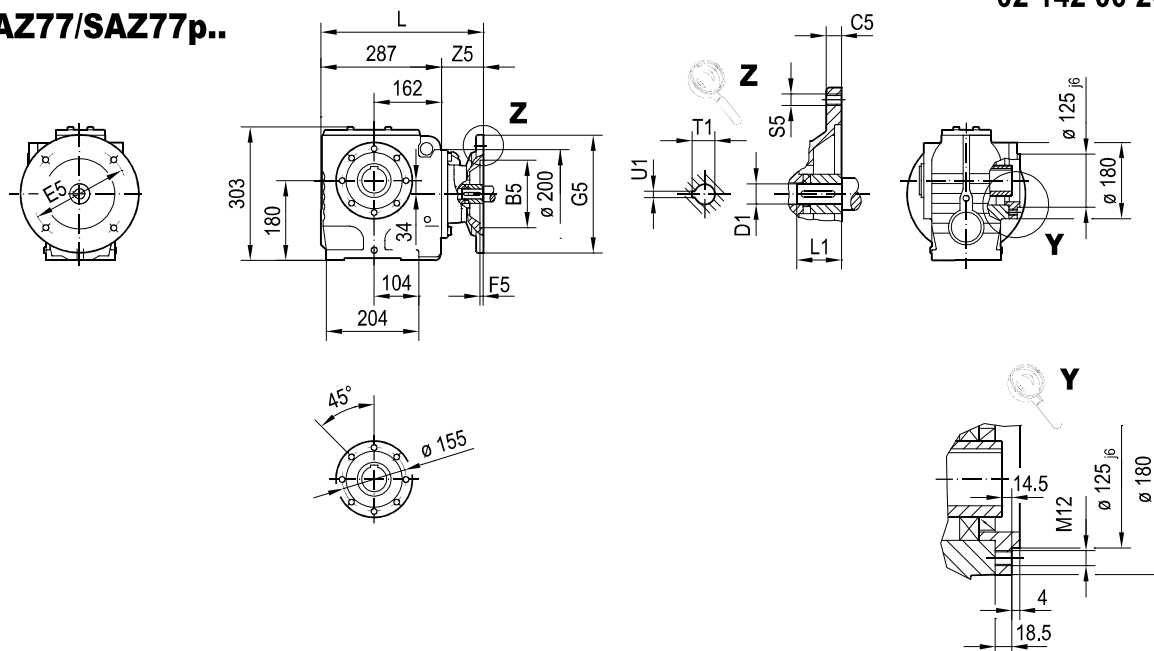


(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	331	M8	44	11	23	12.8	4
AMS71	110	10	130	4	160	331	M8	44	14	30	16.3	5
AMS80	130	12	165	4.5	200	347	M10	60	19	40	21.8	6
AMS90	130	12	165	4.5	200	360	M10	73	24	50	27.3	8
AMS100	180	15	215	5	250	388	M12	100.5	28	60	31.3	8
AMS112	180	15	215	5	250	388	M12	100.5	28	60	31.3	8
AMS132S/M	230	16	265	5	300	413	M12	126	38	80	41.3	10
AMS132ML	230	16	265	5	300	413	M12	126	38	80	41.3	10

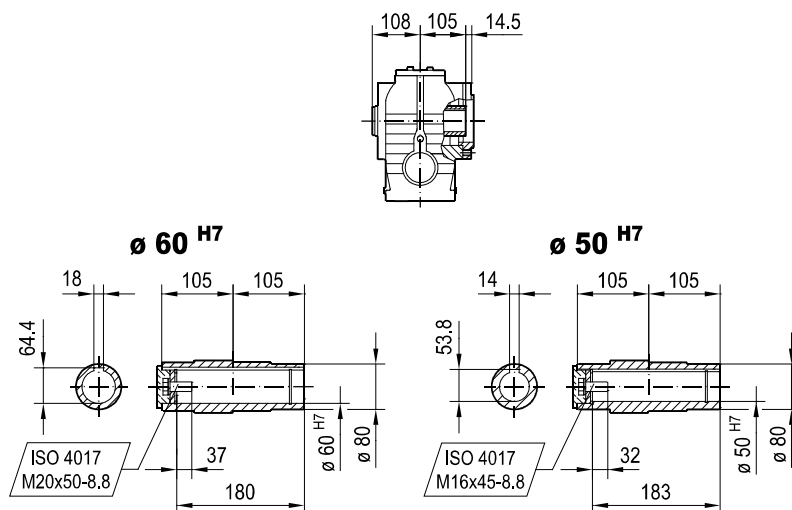
27797880/EN – 03/2023

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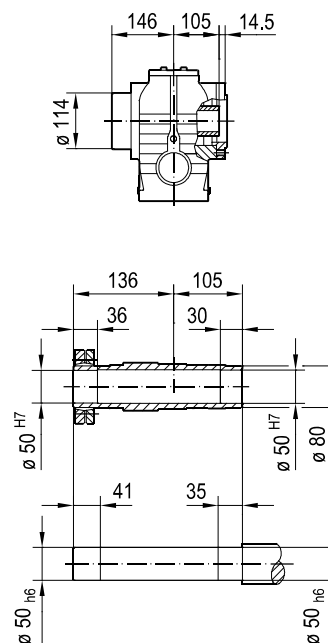
SAZ77/SAZ77p..



SAZ77/SAZ77p..

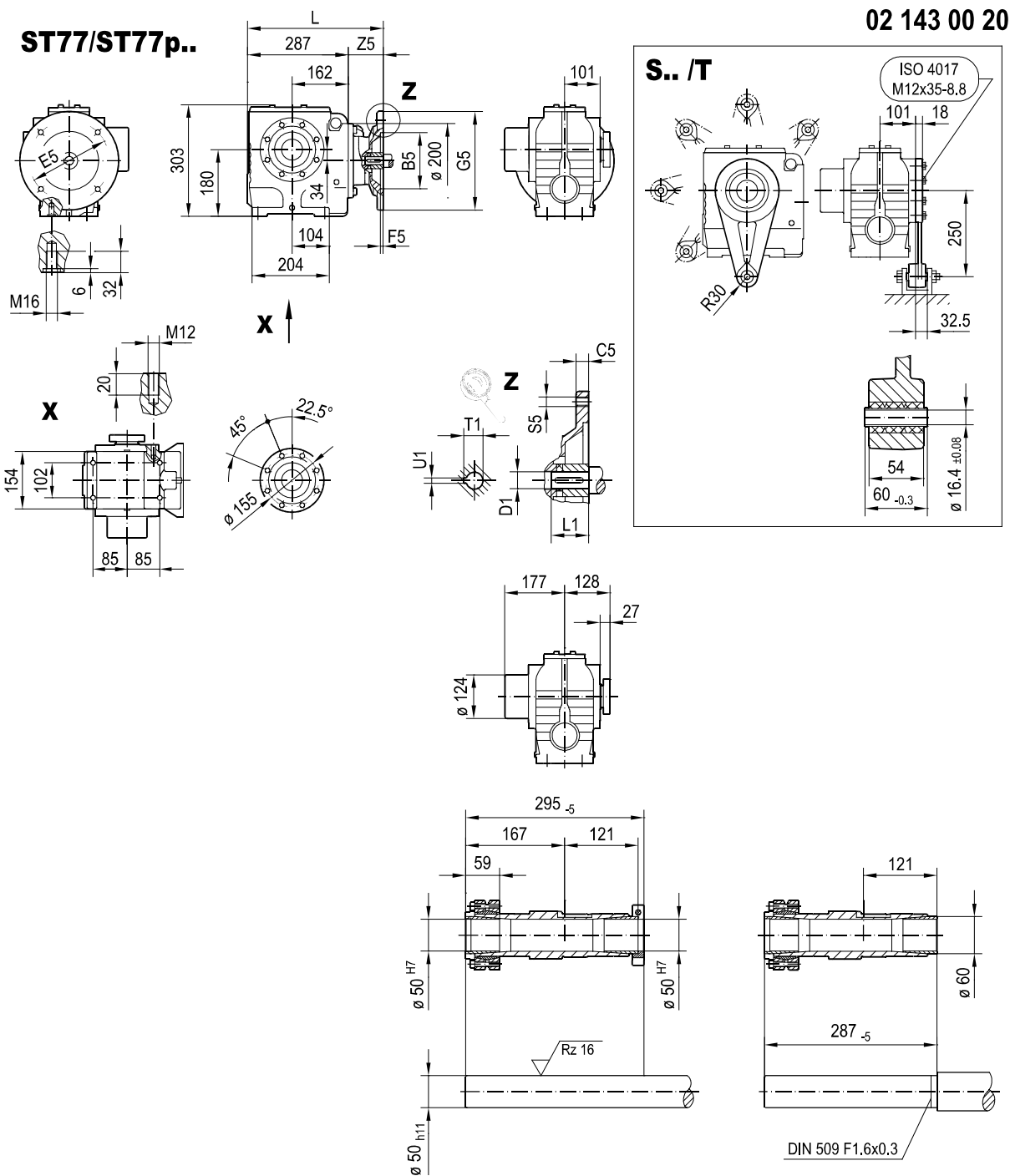


SHZ77/SHZ77p..



(→  7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	331	M8	44	11	23	12.8	4
AMS71	110	10	130	4	160	331	M8	44	14	30	16.3	5
AMS80	130	12	165	4.5	200	347	M10	60	19	40	21.8	6
AMS90	130	12	165	4.5	200	360	M10	73	24	50	27.3	8
AMS100	180	15	215	5	250	388	M12	100.5	28	60	31.3	8
AMS112	180	15	215	5	250	388	M12	100.5	28	60	31.3	8
AMS132S/M	230	16	265	5	300	413	M12	126	38	80	41.3	10
AMS132ML	230	16	265	5	300	413	M12	126	38	80	41.3	10

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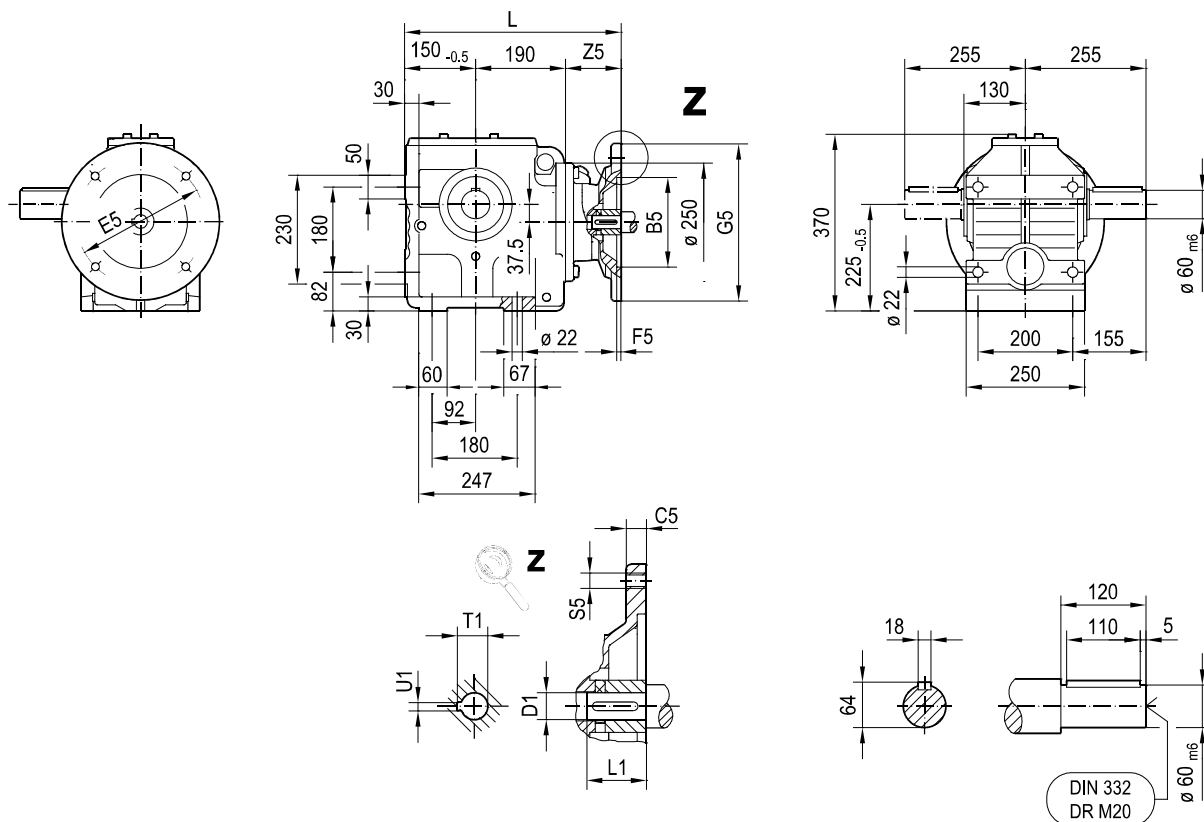


(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS63	95	10	115	3.5	140	331	M8	44	11	23	12.8	4
AMS71	110	10	130	4	160	331	M8	44	14	30	16.3	5
AMS80	130	12	165	4.5	200	347	M10	60	19	40	21.8	6
AMS90	130	12	165	4.5	200	360	M10	73	24	50	27.3	8
AMS100	180	15	215	5	250	388	M12	100.5	28	60	31.3	8
AMS112	180	15	215	5	250	388	M12	100.5	28	60	31.3	8
AMS132S/M	230	16	265	5	300	413	M12	126	38	80	41.3	10
AMS132ML	230	16	265	5	300	413	M12	126	38	80	41.3	10

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S87/S87p..

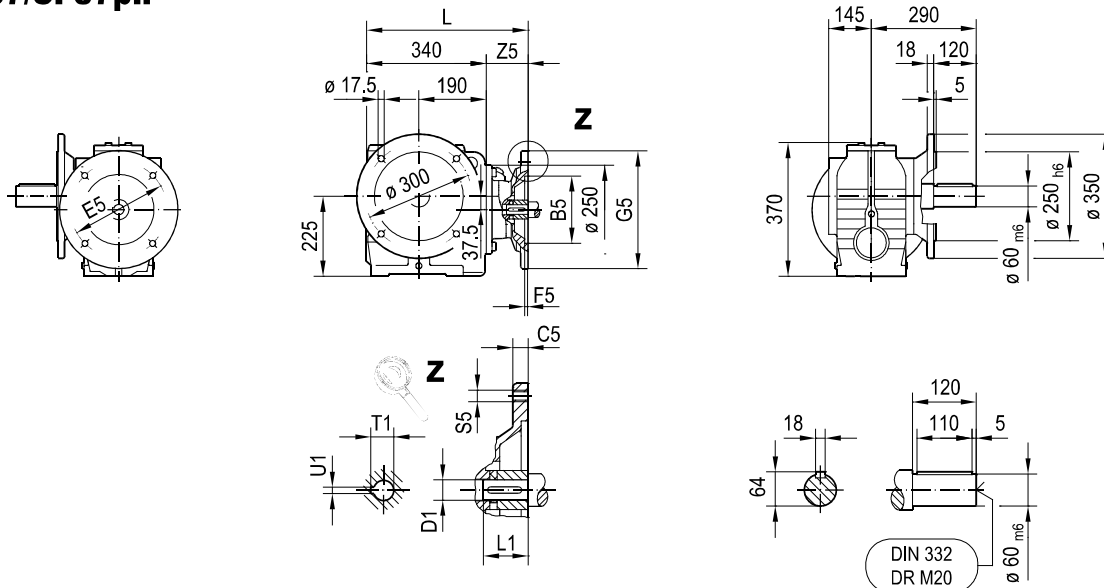


(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS80	130	12	165	4.5	200	395	M10	55	19	40	21.8	6
AMS90	130	12	165	4.5	200	408	M10	68	24	50	27.3	8
AMS100	180	15	215	5	250	436	M12	95.5	28	60	31.3	8
AMS112	180	15	215	5	250	436	M12	95.5	28	60	31.3	8
AMS132S/M	230	16	265	5	300	461	M12	121	38	80	41.3	10
AMS132ML	230	16	265	5	300	461	M12	121	38	80	41.3	10
AMS160	250	18	300	6	350	524	M16	184	42	110	45.3	12

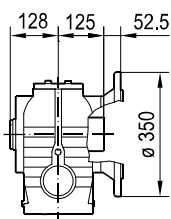
27797880/EN – 03/2023

02 145 00 20

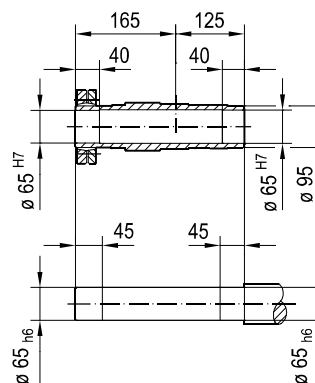
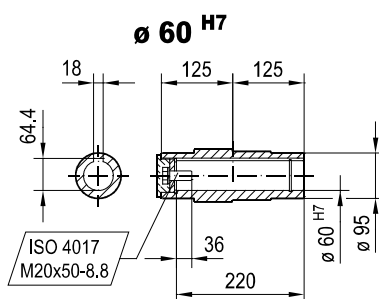
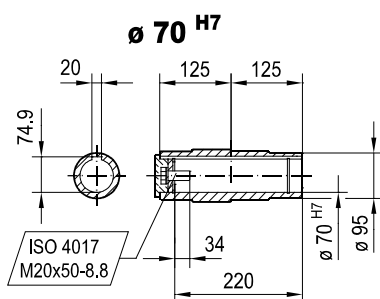
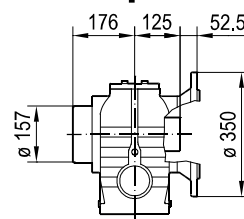
SF87/SF87p..



SAF87/SAF87p..

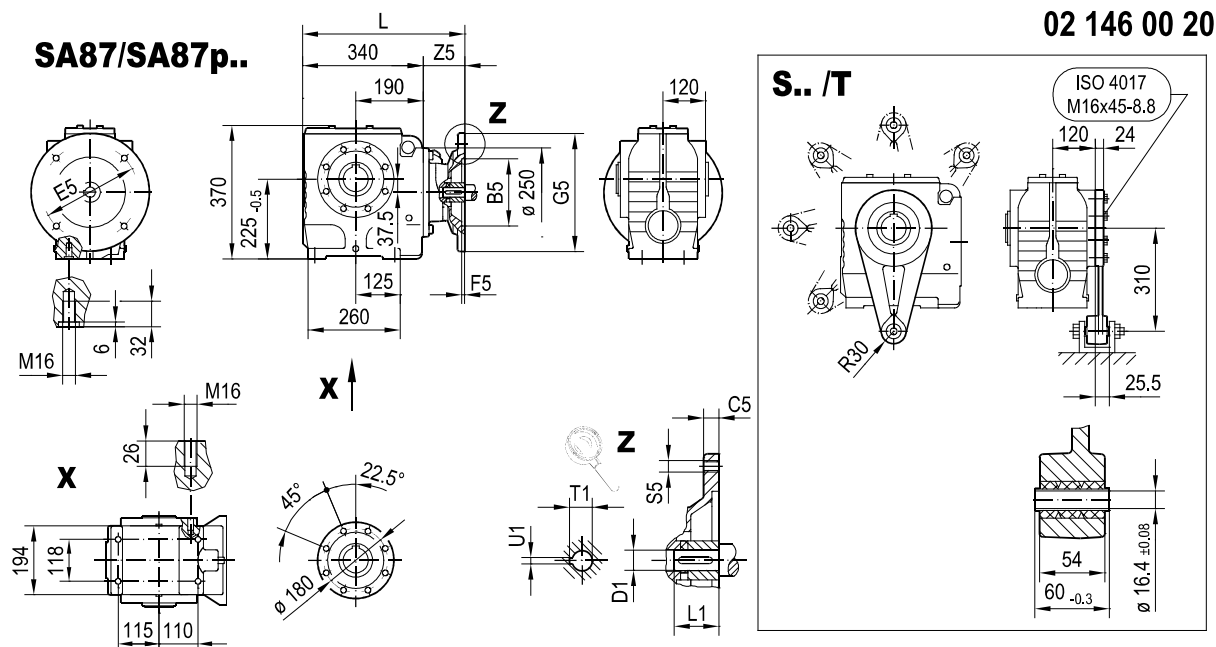


SHF87/SHF87p..

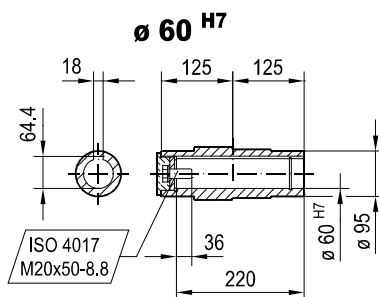
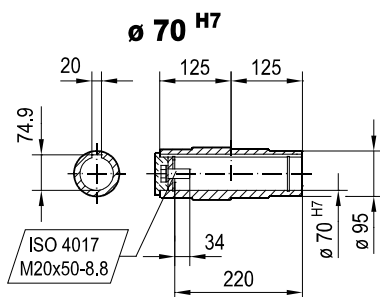
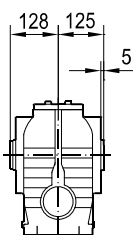


(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS80	130	12	165	4.5	200	395	M10	55	19	40	21.8	6
AMS90	130	12	165	4.5	200	408	M10	68	24	50	27.3	8
AMS100	180	15	215	5	250	436	M12	95.5	28	60	31.3	8
AMS112	180	15	215	5	250	436	M12	95.5	28	60	31.3	8
AMS132S/M	230	16	265	5	300	461	M12	121	38	80	41.3	10
AMS132ML	230	16	265	5	300	461	M12	121	38	80	41.3	10
AMS160	250	18	300	6	350	524	M16	184	42	110	45.3	12

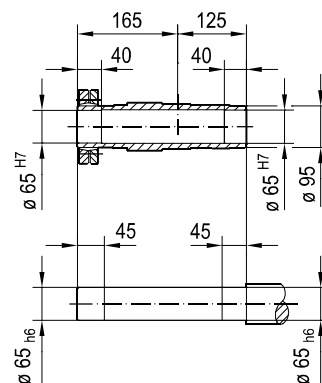
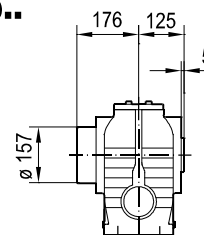
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SA87/SA87p..



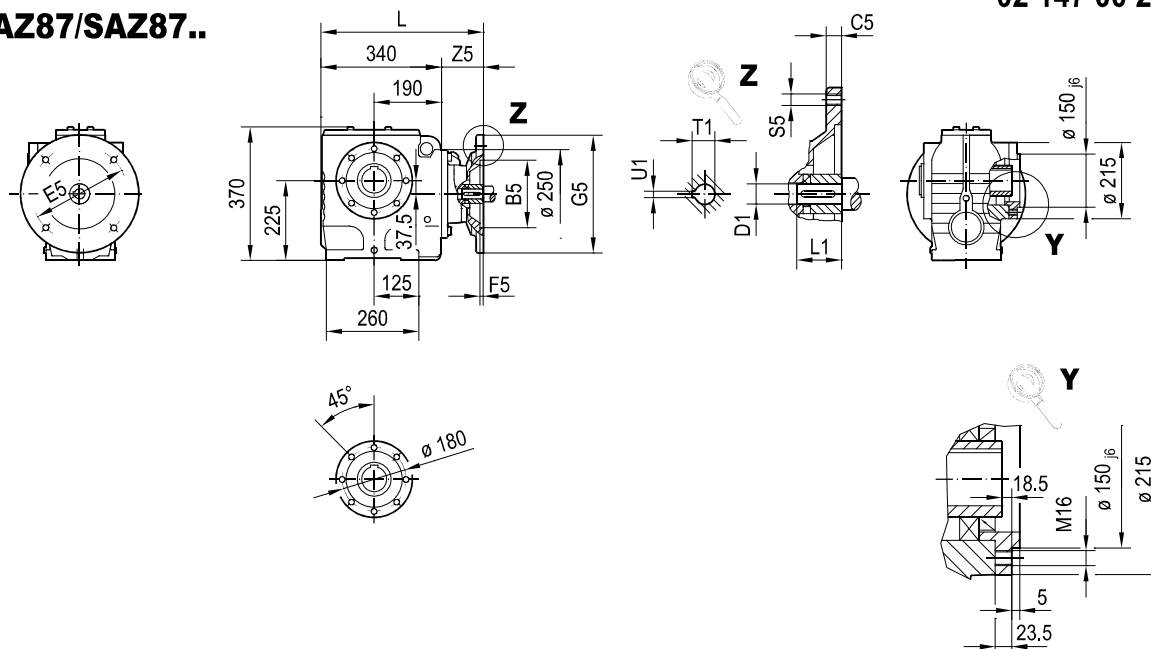
SH87/SH87p..



(→  7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS80	130	12	165	4.5	200	395	M10	55	19	40	21.8	6
AMS90	130	12	165	4.5	200	408	M10	68	24	50	27.3	8
AMS100	180	15	215	5	250	436	M12	95.5	28	60	31.3	8
AMS112	180	15	215	5	250	436	M12	95.5	28	60	31.3	8
AMS132S/M	230	16	265	5	300	461	M12	121	38	80	41.3	10
AMS132ML	230	16	265	5	300	461	M12	121	38	80	41.3	10
AMS160	250	18	300	6	350	524	M16	184	42	110	45.3	12

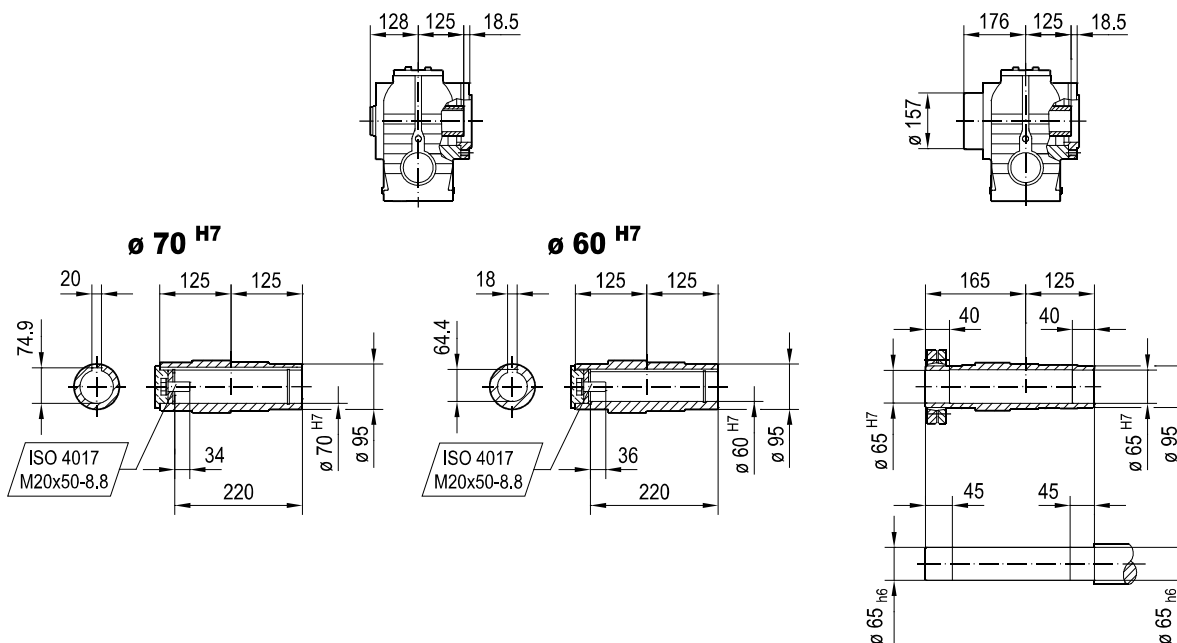
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SAZ87/SAZ87..



SAZ87/SAZ87..

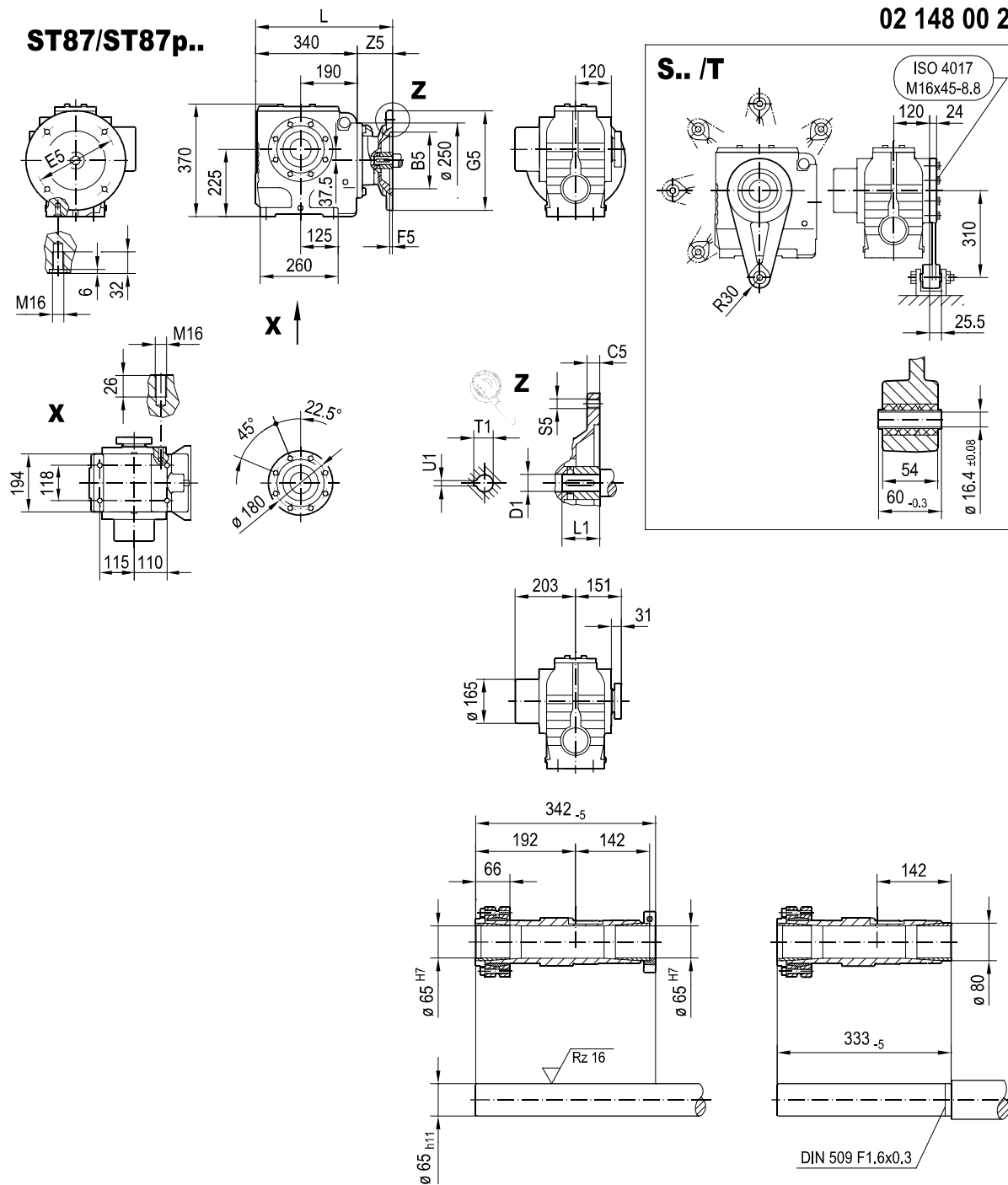
SHZ87/SHZ87..



(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS80	130	12	165	4.5	200	395	M10	55	19	40	21.8	6
AMS90	130	12	165	4.5	200	408	M10	68	24	50	27.3	8
AMS100	180	15	215	5	250	436	M12	95.5	28	60	31.3	8
AMS112	180	15	215	5	250	436	M12	95.5	28	60	31.3	8
AMS132S/M	230	16	265	5	300	461	M12	121	38	80	41.3	10
AMS132ML	230	16	265	5	300	461	M12	121	38	80	41.3	10
AMS160	250	18	300	6	350	524	M16	184	42	110	45.3	12

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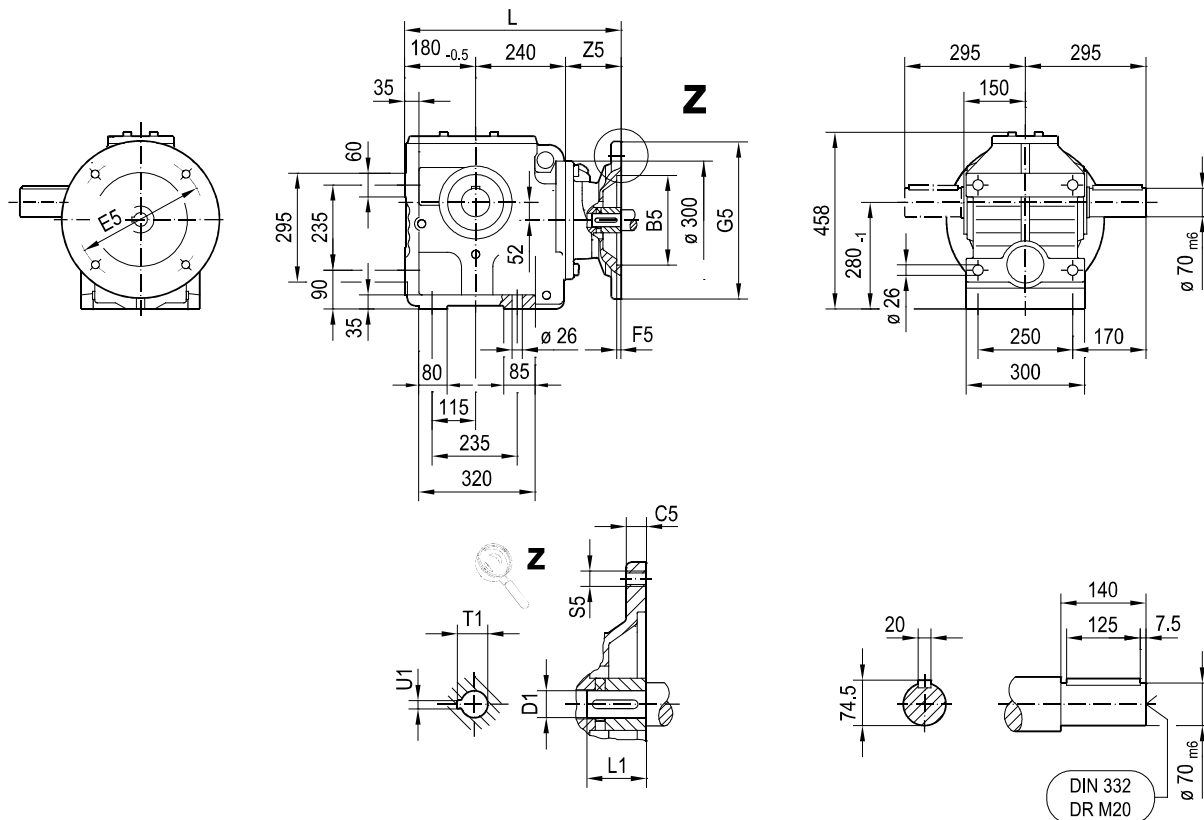
02 148 00 20



( 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS80	130	12	165	4.5	200	395	M10	55	19	40	21.8	6
AMS90	130	12	165	4.5	200	408	M10	68	24	50	27.3	8
AMS100	180	15	215	5	250	436	M12	95.5	28	60	31.3	8
AMS112	180	15	215	5	250	436	M12	95.5	28	60	31.3	8
AMS132S/M	230	16	265	5	300	461	M12	121	38	80	41.3	10
AMS132ML	230	16	265	5	300	461	M12	121	38	80	41.3	10
AMS160	250	18	300	6	350	524	M16	184	42	110	45.3	12

02 149 00 20

S97/S97p..

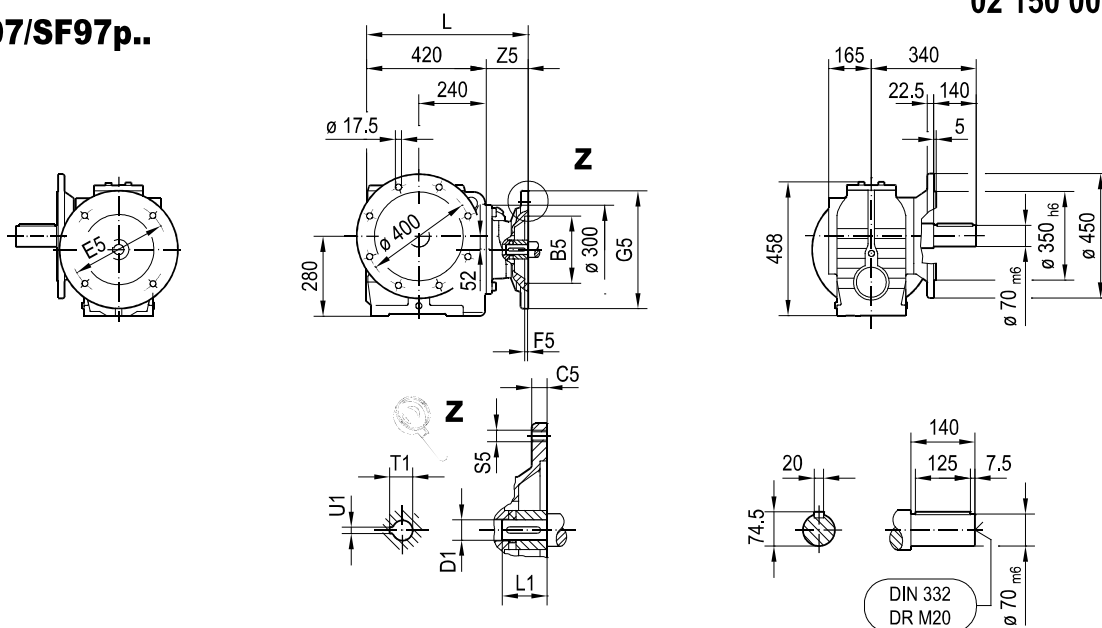


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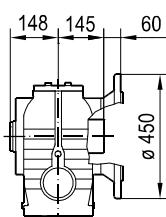
(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS100	180	15	215	5	250	511	M12	90.5	28	60	31.3	8
AMS112	180	15	215	5	250	511	M12	90.5	28	60	31.3	8
AMS132S/M	230	16	265	5	300	536	M12	116	38	80	41.3	10
AMS132ML	230	16	265	5	300	536	M12	116	38	80	41.3	10
AMS160	250	18	300	6	350	599	M16	179	42	110	45.3	12
AMS180	250	18	300	6	350	599	M16	179	48	110	51.8	14
AMS200	300	20	350	7	400	660	M16	240	55	110	59.3	16
AMS225	350	22	400	7	450	675	M16	255	60	140	64.4	18

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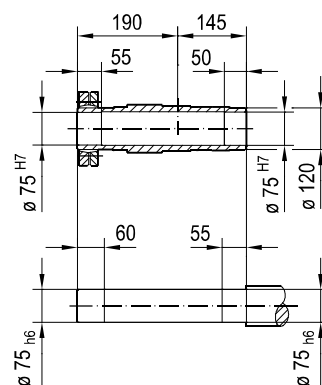
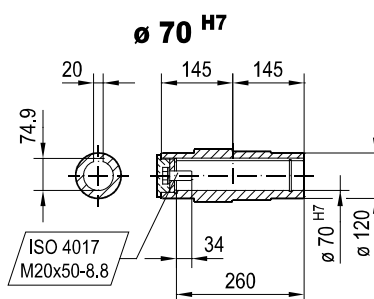
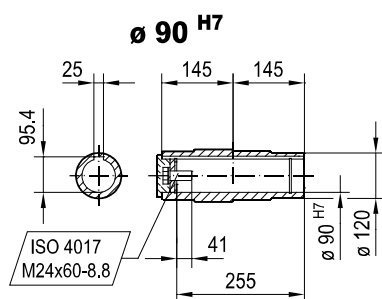
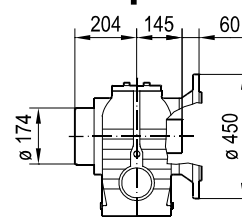
SF97/SF97p..



SAF97/SAF97p..



SHF97/SHF97p..



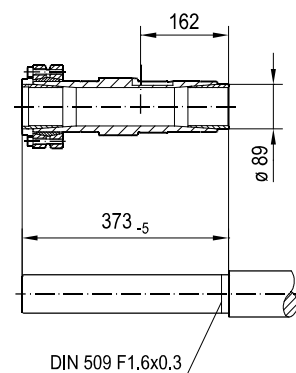
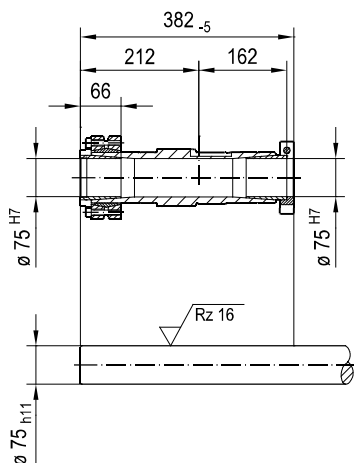
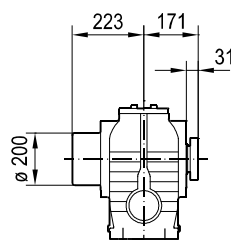
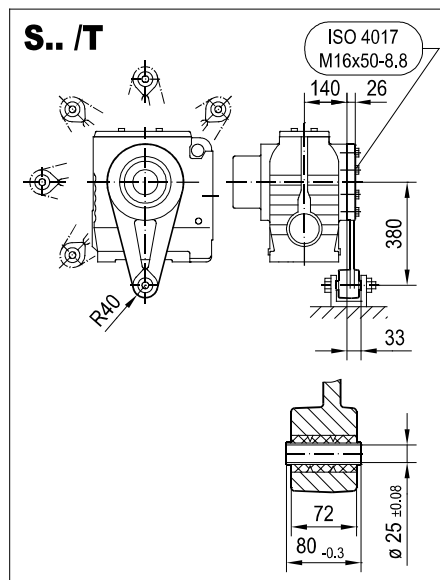
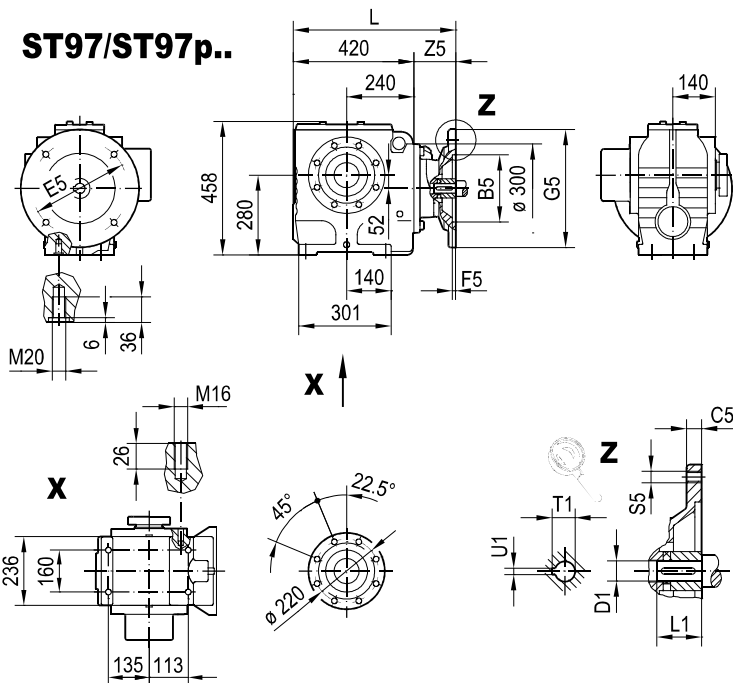
(→ 7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS100	180	15	215	5	250	511	M12	90.5	28	60	31.3	8
AMS112	180	15	215	5	250	511	M12	90.5	28	60	31.3	8
AMS132S/M	230	16	265	5	300	536	M12	116	38	80	41.3	10
AMS132ML	230	16	265	5	300	536	M12	116	38	80	41.3	10
AMS160	250	18	300	6	350	599	M16	179	42	110	45.3	12
AMS180	250	18	300	6	350	599	M16	179	48	110	51.8	14
AMS200	300	20	350	7	400	660	M16	240	55	110	59.3	16
AMS225	350	22	400	7	450	675	M16	255	60	140	64.4	18

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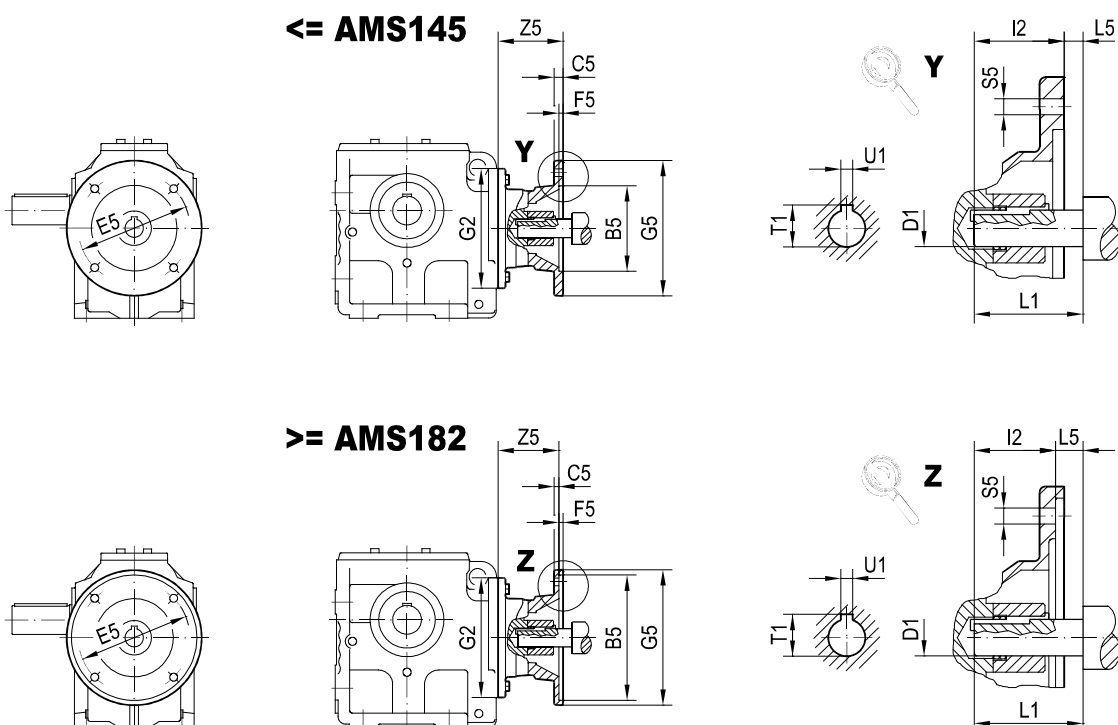
ST97/ST97p..



(→  7.2)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AMS100	180	15	215	5	250	511	M12	90.5	28	60	31.3	8
AMS112	180	15	215	5	250	511	M12	90.5	28	60	31.3	8
AMS132S/M	230	16	265	5	300	536	M12	116	38	80	41.3	10
AMS132ML	230	16	265	5	300	536	M12	116	38	80	41.3	10
AMS160	250	18	300	6	350	599	M16	179	42	110	45.3	12
AMS180	250	18	300	6	350	599	M16	179	48	110	51.8	14
AMS200	300	20	350	7	400	660	M16	240	55	110	59.3	16
AMS225	350	22	400	7	450	675	M16	255	60	140	64.4	18

11.5 Dimension sheets for adapters for mounting NEMA motors (AMS..)

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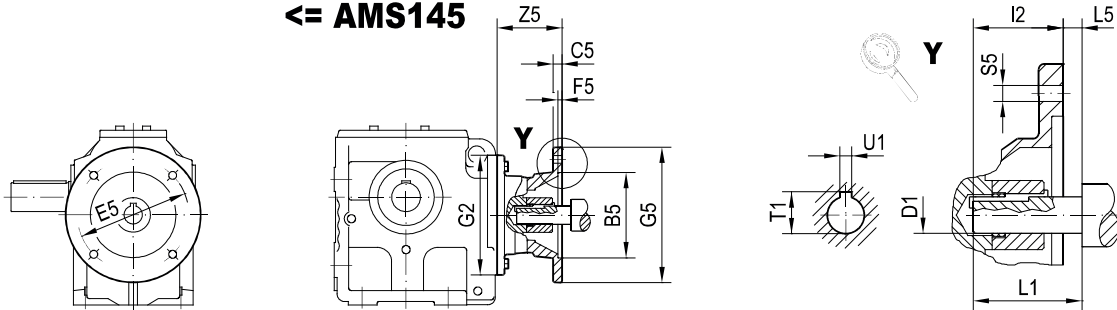


		B5	C5	E5	F5	G2	G5	I2	L5	S5	Z5	D1	L1	T1	U1
S..37 S..37p S..47 S..47p S..57 S..57p	AMS56	114.3	11	149.2	4.5	120	170	52.3	4.6	10.5	81.5	15.875	47.75	18.0	4.76
	AMS143	114.3	12	149.2	4.5	120	170	53.8	3.3	10.5	93.5	22.225	57.2	24.7	4.76
	AMS145	114.3	14	149.2	4.5	120	170	53.8	3.3	10.5	93.5	22.225	57.2	24.7	4.76
S..67 S..67p	AMS56	114.3	11	149.2	4.5	160	170	52.3	-4.6	10.5	75.0	15.875	47.8	18.1	4.76
	AMS143	114.3	12	149.2	4.5	160	170	53.8	3.3	10.5	85.0	22.225	57.2	24.7	4.76
	AMS145	114.3	14	149.2	4.5	160	170	53.8	3.3	10.5	85.0	22.225	57.2	24.7	4.76
	AMS182	215.9	10	184	5	160	228	66.6	3.3	15	115.0	28.575	69.9	31.7	6.35
	AMS184	215.9	10	184	5	160	228	66.6	3.3	15	115.0	28.575	69.9	31.7	6.35
	AMS213/215	215.9	11	184	5	160	228	79.2	6.6	15	140.0	34.925	85.9	38.7	7.94
S..77 S..77p	AMS56	114.3	11	149.2	4.5	200	170	52.3	-4.6	10.5	70.0	15.875	47.8	18.1	4.76
	AMS143	114.3	12	149.2	4.5	200	170	53.8	3.3	10.5	80.0	22.225	57.2	24.7	4.76
	AMS145	114.3	14	149.2	4.5	200	170	53.8	3.3	10.5	80.0	22.225	57.2	24.7	4.76
	AMS182	215.9	10	184	5	200	228	66.6	3.3	15	105.0	28.575	69.9	31.7	6.35
	AMS184	215.9	10	184	5	200	228	66.6	3.3	15	105.0	28.575	69.9	31.7	6.35
	AMS213/215	215.9	11	184	5	200	228	79.2	6.6	15	130.0	34.925	85.9	38.7	7.94
S..87 S..87p	AMS143	114.3	12	149.2	4.5	250	170	53.8	3.3	10.5	75.0	22.225	57.2	24.7	4.76
	AMS145	114.3	14	149.2	4.5	250	170	53.8	3.3	10.5	75.0	22.225	57.2	24.7	4.76
	AMS182	215.9	10	184	5	250	228	66.6	3.3	15	100.0	28.575	69.9	31.7	6.35
	AMS184	215.9	10	184	5	250	228	66.6	3.3	15	100.0	28.575	69.9	31.7	6.35
	AMS213/215	215.9	11	184	5	250	228	79.2	6.6	15	125.0	34.925	85.9	38.7	7.94
	AMS254/256	215.9	12	184	5	250	228	95.3	6.4	15	185.0	41.275	101.6	45.8	9.53

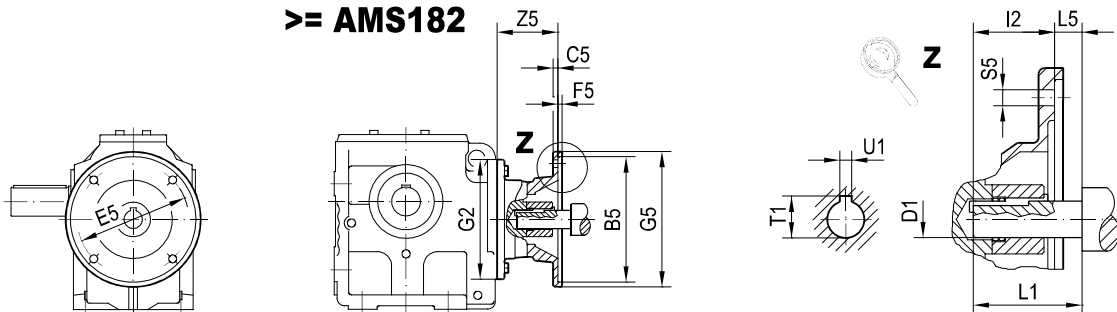
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<= AMS145



>= AMS182



		B5	C5	E5	F5	G2	G5	I2	L5	S5	Z5	D1	L1	T1	U1
S..97 S..97p	AMS182	215.9	10	184	5	300	228	66.6	3.3	15	95.0	28.575	69.9	31.7	6.35
	AMS184	215.9	10	184	5	300	228	66.6	3.3	15	95.0	28.575	69.9	31.7	6.35
	AMS213/215	215.9	11	184	5	300	228	79.2	6.6	15	120.0	34.925	85.9	38.7	7.94
	AMS254/256	215.9	12	184	5	300	228	95.3	6.4	15	180.0	41.275	101.6	45.8	9.53
	AMS284/286	266.7	15	228.6	5	300	286	111.3	6.1	15	185.0	47.625	117.3	53.4	12.7
	AMS324/326	317.5	17	279.4	5	300	356	127.0	6.4	17.5	252.5	53.975	133.4	60.0	12.7
	AMS364/365	317.5	17	279.4	5	300	356	142.7	6.6	17.5	252.5	60.325	149.4	67.6	15.88

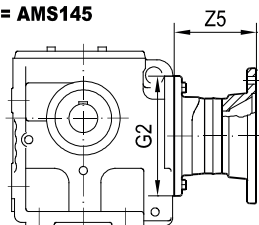
11.6 Dimension sheets for adapters with backstop (RS..) and drain hole (DH..)

02 162 01 20

AMS.. /RS

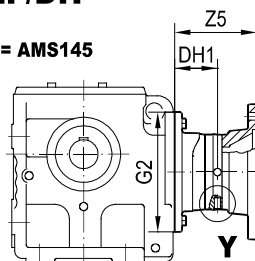
IEC

NEMA: <= AMS145

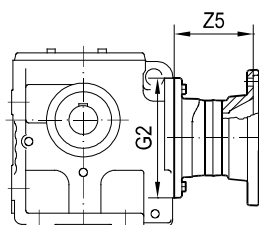
**AMS.. /DH**

IEC

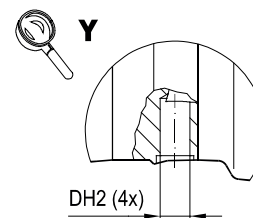
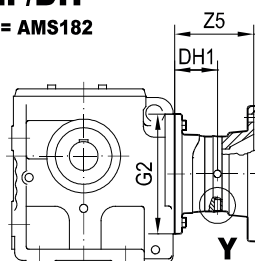
NEMA: <= AMS145

**AMS.. /RS**

NEMA: >= AMS182

**AMS.. /DH**

NEMA: >= AMS182



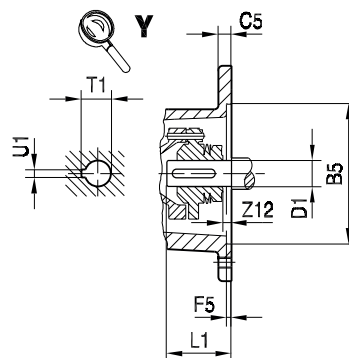
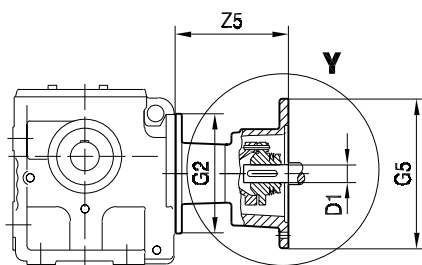
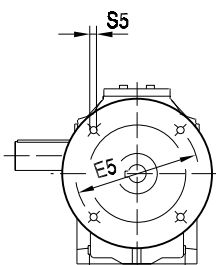
		/RS		/DH			
		G2	Z5	G2	Z5	DH1	DH2
S..37, S..37p S..47, S..47p S..57, S..57p	AMS56	–	–	120	105	60	9
	AMS63	–	–	120	78.5	46	9
	AMS71	–	–	120	78.5	46	9
	AMS80	120	121	120	97.5	60	9
	AMS90	120	121	120	109	64	9
	AMS143	120	128.5	120	116.5	64	9
	AMS145	120	128.5	120	116.5	64	9
S..67, S..67p	AMS56	–	–	160	98.5	54	9
	AMS63	–	–	160	72	40	9
	AMS71	–	–	160	72	40	9
	AMS80	160	114.5	160	91	54	9
	AMS90	160	114.5	160	102.5	57	9
	AMS100	160	153	160	153	97	9
	AMS112	160	153	160	153	97	9
	AMS132S/M	160	181.5	160	181.5	116	9
	AMS143	160	122	160	110	57	9
	AMS145	160	122	160	110	57	9
	AMS182	160	158.5	160	158.5	97	9
	AMS184	160	158.5	160	158.5	97	9
	AMS213/215	160	186	160	186	116	9

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		/RS		/DH			
		G2	Z5	G2	Z5	DH1	DH2
S..77, S..77p	AMS56	–	–	200	91.5	47	9
	AMS63	–	–	200	66	34	9
	AMS71	–	–	200	66	34	9
	AMS80	200	107.5	200	84	47	9
	AMS90	200	107.5	200	95.5	50	9
	AMS100	200	145	200	145	89	9
	AMS112	200	145	200	145	89	9
	AMS132ML	200	173.5	200	173.5	108	9
	AMS132S/M	200	173.5	200	173.5	108	9
	AMS143	200	115	200	103	50	9
	AMS145	200	115	200	103	50	9
	AMS182	200	150.5	200	150.5	89	9
	AMS184	200	150.5	200	150.5	89	9
	AMS213/215	200	178	200	178	108	9
S..87, S..87p	AMS80	250	102.5	250	79	42	9
	AMS90	250	102.5	250	90.5	45	9
	AMS100	250	140	250	140	84	9
	AMS112	250	140	250	140	84	9
	AMS132ML	250	168.5	250	168.5	103	9
	AMS132S/M	250	168.5	250	168.5	103	9
	AMS143	250	110	250	98	45	9
	AMS145	250	110	250	98	45	9
	AMS160	250	184	250	222	124	8
	AMS182	250	145.5	250	145.5	84	9
	AMS184	250	145.5	250	145.5	84	9
	AMS213/215	250	173	250	173	103	9
	AMS254/256	250	185	250	223.5	124	8
S..97, S..97p	AMS100	300	135	300	135	79	9
	AMS112	300	135	300	135	79	9
	AMS132ML	300	163.5	300	163.5	98	9
	AMS132S/M	300	163.5	300	163.5	98	9
	AMS160	300	179	300	217	119	8
	AMS180	300	179	300	217	119	8
	AMS182	300	140.5	300	140.5	79	9
	AMS184	300	140.5	300	140.5	79	9
	AMS200	300	240	300	240	141	8
	AMS213/215	300	168	300	168	98	9
	AMS225	300	255	300	255	141	8
	AMS254/256	300	180	300	218.5	119	8
	AMS284/286	300	186.5	300	225	119	8
	AMS324/326	300	252.5	300	252.5	152	8
	AMS364/365	300	252.5	300	252.5	152	8

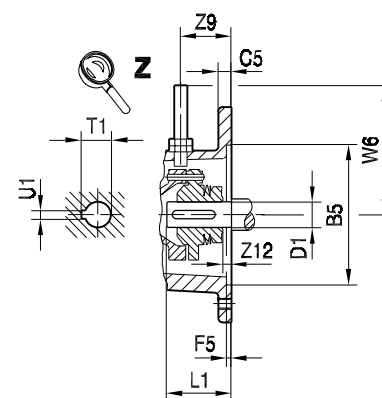
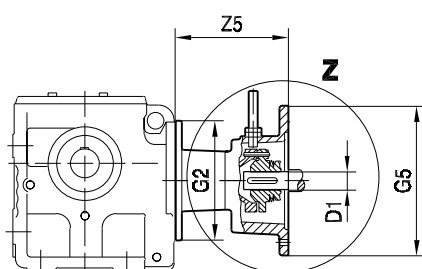
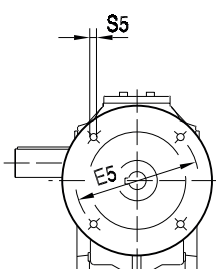
11.7 Dimension sheets for adapters with slip clutch (AR..)

S.. AR..



02 028 02 01

S.. AR../W



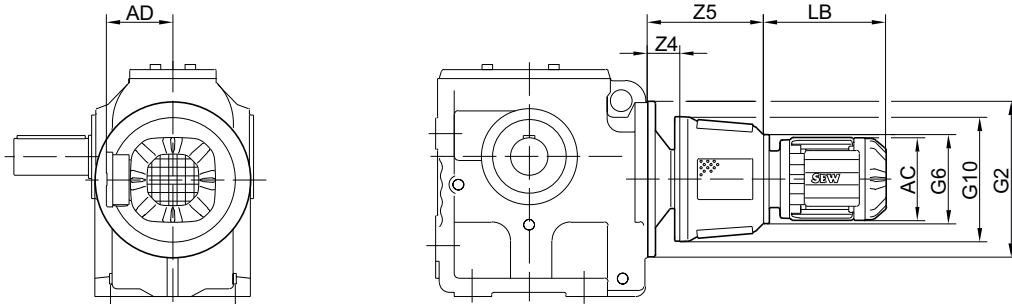
		B5	C5	E5	F5	G2	G5	S5	W6	Z5	Z9	Z12	D1	L1	T1	U1
S..37, S..37p S..47, S..47p S..57, S..57p	AR71	110	10	130	3.5	120	160	M8	120	104	37	0	14	30	16.3	5
	AR80	130	12	165	4.5		200	M10		140.5			19	40	21.8	6
	AR90												24	50	27.3	8
S..67, S..67p	AR71	110	10	130	3.5	160	160	M8	120	97.5	37	0	14	30	16.3	5
	AR80	130	12	165	4.5		200	M10		134			19	40	21.8	6
	AR90												24	50	27.3	8
	AR100	180	15	215	5		250	M12		174.5			28	60	31.3	8
	AR112															
S..77, S..77p	AR71	110	10	130	3.5	200	160	M8	120	91.5	37	0	14	30	16.3	5
	AR80	130	12	165	4.5		200	M10		127			19	40	21.8	6
	AR90												24	50	27.3	8
	AR100	180	15	215	5		250	M12		166.5			28	60	31.3	8
	AR132S/M	230	16	265	5		300	M12		234			38	80	41.3	10
	AR132ML															
S..87, S..87p	AR80	130	12	165	4.5	250	200	M10	120	122	37	0	19	40	21.8	6
	AR90												24	50	27.3	8
	AR100	180	15	215	5		250	M12		161.5			28	60	31.3	8
	AR112															
	AR132S/M	230	16	265	5		300	M12		229			38	80	41.3	10
	AR132ML															
	AR160	250	18	300	6		350	M16		306.5			42	110	45.3	12
	AR180												48	110	51.8	14

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		B5	C5	E5	F5	G2	G5	S5	W6	Z5	Z9	Z12	D1	L1	T1	U1
S..97, S..97p	AR100	180	15	215	5	300	250	M12	130	156.5	52	5.5	28	60	31.3	8
	AR112															
	AR132S/M	230	16	265	5		300	M12	145	224	72	5	38	80	41.3	10
	AR132ML															
	AR160	250	18	300	6		350	M16	165	301.5	105	35	42	110	45.3	12
	AR180												48	110	51.8	14

11.8 Dimension sheets for adapters with hydraulic start-up coupling (S..AT..)

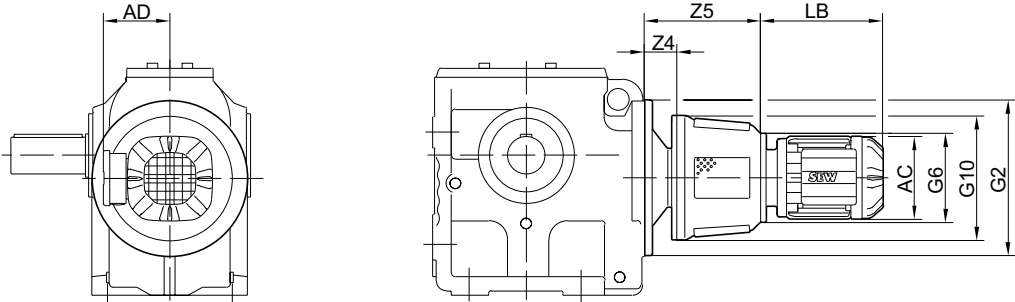
26 001 04 01



			AC	AD	G6	G10	LB	Z4	Z5	G2	
S..67, S..67p	AT311 AT312	DRN71M	139	118	200	280	222	97	286	160	
		DRN80MK	156	128			241				
		DRN80MS					259				
		DRN80M					287				
		DRN90S	179	140			281				
		DRN90L					313				
		DRN100LM	197	157			359				
		DRN112M	221	170			387				
	AT321 AT322	DRN90L	179	140	250	350	313	97	333		
		DRN100LS	197	157			309				
DRN100L		359									
S..77, S..77p	AT311 AT312	DRN71M	139	118	200	280	222	89	278	200	
		DRN80MK	156	128			241				
		DRN80MS					259				
		DRN80M					287				
		DRN90S	179	140			281				
		DRM90L					313				
		DRN100LM					359				
		DRN112M	221	170			387				
	AT321	DRN132S	221	170	250	350	437	93	328		
	AT421 AT422	DRN90L	179	140	250	350	313	133	368		
		DRN100LS	197	157			309				
		DRN100L					359				
		DRN112M					387				
		DRN132S	221	170			437				
S..87, S..87p	AT311 AT312	DRN90S	179	140	200	280	281	84	273	250	
		DRM90L					313				
		DRN100LM	197	157			359				
		DRN112M	221	170			387				
	AT321	DRN132S	221	170	250	350	437	84	320		
	AT421 AT422	DRN90L	179	140	250	350	313	128	363		
		DRN100LS	197	157			309				
		DRN100L					359				
		DRN112M					387				
		DRN132S	221	170			437				
	AT541 AT542	DRN132S	221	170	350	470	437	159	478		
		DRN132M	261	228			439				
		DRN132L					464				
		DRN160M					532				
DRN160L		316	253	532							

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26 002 04 01

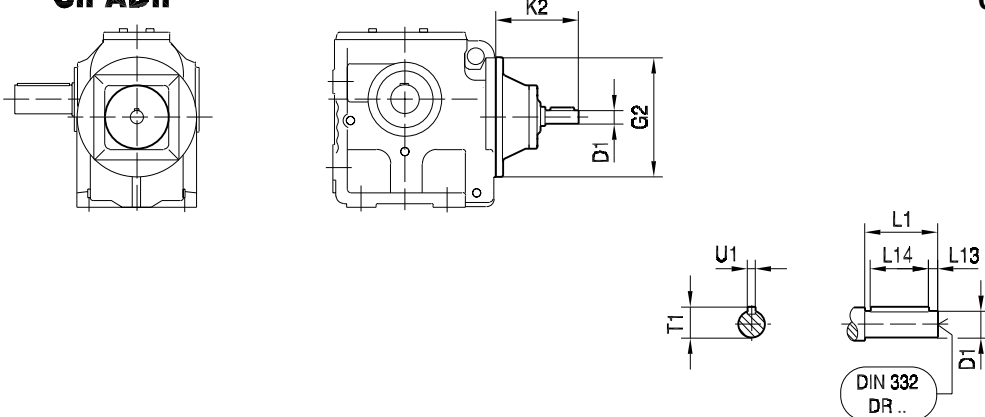


			AC	AD	G6	G10	LB	Z4	Z5	G2
S..97, S..97p	AT311 AT312	DRN90S	179	140	200	280	281	79	268	300
		DRM90L					313			
		DRN100LM	197	157			359			
		DRN112M	221	170			387			
	AT321	DRN132S	221	170	250	350	437	79	315	
	AT421 AT422	DRN90L	179	140	250	350	313	123	358	
		DRN100LS	197	157			309			
		DRN100L					359			
		DRN112M	221	170			387			
		DRN132S					437			
	AT541 AT542	DRN132S	221	170	350	470	437	154	473	
		DRN132M	261	228			439			
		DRN132L					464			
		DRN160M	316	253			532			
		DRN160L					532			
		DRN180M	357	268			557			
		DRN180L					557			

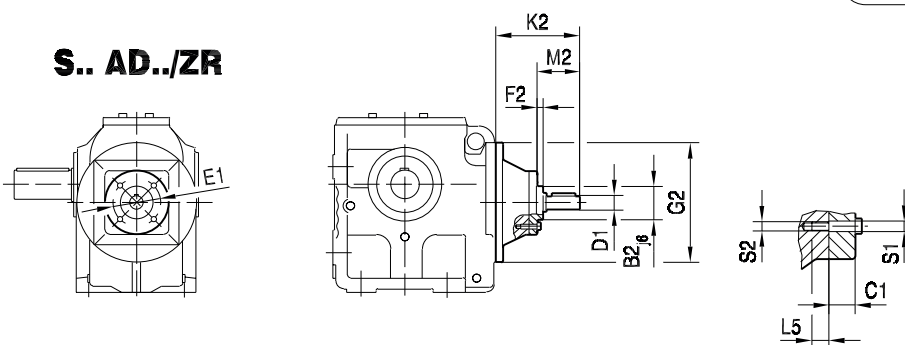
11.9 Dimension sheets for input shaft assembly (AD..)

S.. AD..

02 029 02 01



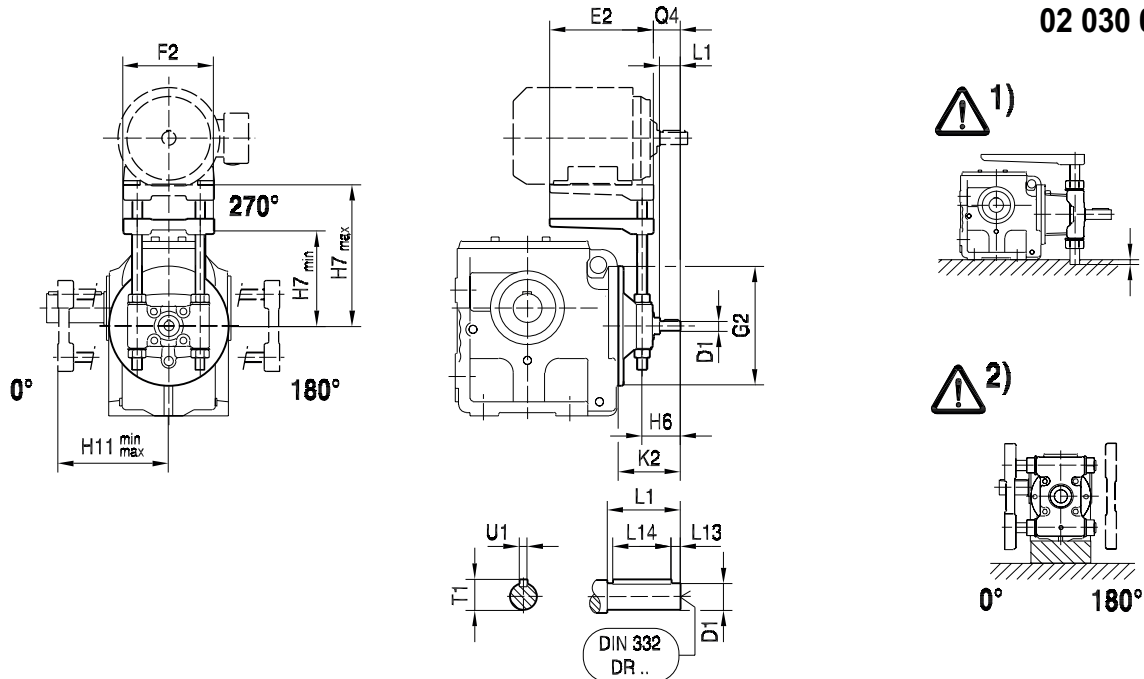
S.. AD../ZR



		B2	C1	E1	F2	G2	K2	L5	M2	S1	S2	D1	L1	L13	L14	T1	U1
S..37, S..37p S..47, S..47p S..57, S..57p	AD1	-	-	-	-	120	102	-	-	-	-	16	40	4	32	18	5
	AD2, AD2/ZR	55	13.5	80	8		130	12	50	9	M8	19	40	4	32	21.5	6
S..67, S..67p	AD2, AD2/ZR	55	13.5	80	8	160	123	12	50	9	M8	19	40	4	32	21.5	6
	AD3, AD3/ZR	70	15.5	105	8		159	16	60	11	M10	24	50	5	40	27	8
S..77, S..77p	AD2, AD2/ZR	55	13.5	80	8	200	116	12	50	9	M8	19	40	4	32	21.5	6
	AD3, AD3/ZR	70	15.5	105	8		151	16	60	11	M10	24	50	5	40	27	8
	AD4, AD4/ZR	100	16	130	13		224	20	95.5	13.5	M12	38	80	5	70	41	10
S..87, S..87p	AD2, AD2/ZR	55	13.5	80	8	250	111	12	50	9	M8	19	40	4	32	21.5	6
	AD3, AD3/ZR	70	15.5	105	8		156	16	70	11	M10	28	60	5	50	31	8
	AD4, AD4/ZR	100	16	130	13		219	20	95.5	13.5	M12	38	80	5	70	41	10
	AD5, AD5/ZR	120	24	180	11		292	20	126	13.5	M12	42	110	10	70	45	12
S..97, S..97p	AD3, AD3/ZR	70	15.5	105	8	300	151	16	70	11	M10	28	60	5	50	31	8
	AD4, AD4/ZR	100	16	130	13		214	20	95.5	13.5	M12	38	80	5	70	41	10
	AD5, AD5/ZR	120	24	180	11		287	20	126	13.5	M12	42	110	10	70	45	12
	AD6, AD6/ZR	130	22.5	200	11		327	26	130.5	17.5	M16	48	110	10	80	51.5	14

11.10 Dimension sheets for input shaft assembly with motor platform (AD../P)

02 030 02 01



		E2	F2	G2	H6	H7 min	H7 max	H11 min	H11 max	K2	Q4	D1	L1	L13	L14	T1	U1	Δ (→ 82)
S..37, S..37p	AD2/P	195	180	120	65	110	165	95	165	130	43	19	40	4	32	21.5	6	1), 2)
S..47, S..47p	AD2/P	195	180	120	65	140	200	110	165	130	43	19	40	4	32	21.5	6	1)
S..57, S..57p	AD2/P	195	180	160	65	140	200	125	165	123	43	19	40	4	32	21.5	6	1)
S..67, S..67p	AD3/P	230	240	160	80	145	175	130	175	159	54	24	50	5	40	27	8	2)
S..77, S..77p	AD2/P	195	180	200	65	175	260	145	200	116	43	19	40	4	32	21.5	6	
S..77, S..77p	AD3/P	230	240	200	80	180	230	150	230	151	54	24	50	5	40	27	8	
S..77, S..77p	AD4/P	345	291	200	118	190	280	150	210	224	83	38	80	5	70	41	10	1)
S..87, S..87p	AD2/P	195	180	250	65	215	260	165	200	111	43	19	40	4	32	21.5	6	
S..87, S..87p	AD3/P	230	240	250	90	230	320	170	230	156	64	28	60	5	50	31	8	
S..87, S..87p	AD4/P	345	291	250	118	250	360	170	210	219	83	38	80	5	70	41	10	1)
S..87, S..87p	AD5/P	430	355	250	153	260	325	185	250	292	113	42	110	10	70	45	12	1), 2)
S..97, S..97p	AD3/P	230	240	300	90	275	320	190	230	151	64	28	60	5	50	31	8	
S..97, S..97p	AD4/P	345	291	300	118	305	360	190	280	214	83	38	80	5	70	41	10	
S..97, S..97p	AD5/P	430	355	300	153	315	405	200	250	287	113	42	110	10	70	45	12	

For bore dimensions and weight of the motor platform, refer to the chapter "Bore dimensions and weight" (→ 81).

11.11 Technical data S..37

3400 – 2800 min⁻¹

i _{tot}	i _s	n _e = 3400 min ⁻¹				n _e = 3200 min ⁻¹				n _e = 2800 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
157.43	38/1	21	78	0.31	56	20	80	0.30	56	17	82	0.28	56
144.40		23	76	0.33	57	22	78	0.32	56	19	80	0.29	56
122.94		27	74	0.37	57	26	75	0.36	57	22	78	0.33	57
106.00		32	71	0.41	58	30	72	0.39	58	26	76	0.36	58
98.80		34	70	0.43	58	32	72	0.42	58	28	75	0.38	58
86.36		39	68	0.48	59	37	69	0.45	59	32	72	0.42	59
80.96		41	66	0.49	59	39	68	0.48	59	34	72	0.44	59
71.44		47	55	0.47	59	44	64	0.50	60	39	70	0.48	60
63.33		53	37	0.37	56	50	51	0.46	59	44	67	0.52	60
53.83		63	29	0.35	54	59	32	0.36	55	52	53	0.49	60
55.93	27/2	60	70	0.59	76	57	71	0.56	76	50	72	0.50	75
51.30		66	68	0.62	76	62	70	0.60	76	54	72	0.55	76
43.68		77	66	0.70	77	73	67	0.67	76	64	70	0.62	76
37.66		90	64	0.78	77	84	65	0.75	77	74	68	0.69	77
35.10		96	62	0.81	77	91	64	0.79	77	79	66	0.72	77
30.68		110	61	0.91	78	104	62	0.87	78	91	64	0.79	77
28.76		118	58	0.92	78	111	61	0.91	78	97	64	0.84	78
25.38		133	47	0.85	77	126	53	0.90	78	110	62	0.92	78
22.50		151	31	0.65	75	142	43	0.83	77	124	57	0.95	78
19.13		177	24	0.61	74	167	27	0.63	75	146	44	0.87	78
19.89	24/5	170	42	0.88	85	160	43	0.85	85	140	44	0.76	85
18.24		186	41	0.93	86	175	42	0.90	86	153	44	0.83	85
15.53		218	39	1.0	86	206	40	1.0	86	180	42	0.93	86
13.39		253	37	1.1	86	238	39	1.1	86	209	41	1.0	86
12.48		272	37	1.2*	86	256	38	1.2*	86	224	40	1.1	86
10.91		311	35	1.3*	86	293	36	1.3*	86	256	39	1.2*	86
10.23		332	35	1.4*	86	312	36	1.4*	86	273	38	1.3*	86
9.02		376	31	1.4*	85	354	34	1.5*	86	310	36	1.4*	86
8.00		425	20	1.0	85	400	29	1.4*	85	350	35	1.5*	86
6.80		500	16	1.0	84	470	18	1.0	85	411	29	1.5*	85
6.33	19/5	537	24	1.5*	87	505	27	1.6*	88	442	32	1.7*	88
5.38		631	20	1.5*	87	594	22	1.6*	87	520	26	1.6*	88
4.86		699	18	1.5*	87	658	19	1.5*	87	576	24	1.6*	88
3.97		856	14	1.5*	86	806	15	1.5*	87	705	19	1.6*	88

* P_{Mot_max} = 1.1 kW

2200 – 1400 min⁻¹

i _{tot}	i _s	n _e = 2200 min ⁻¹				n _e = 1700 min ⁻¹				n _e = 1400 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
157.43	38/1	13	87	0.23	54	10	91	0.19	53	8.8	92	0.16	52
144.40		15	86	0.25	55	11	90	0.21	54	9.6	92	0.18	53
122.94		17	83	0.28	56	13	87	0.23	55	11	91	0.20	54
106.00		20	81	0.31	57	16	86	0.26	56	13	88	0.22	55
98.80		22	80	0.33	57	17	85	0.27	56	14	87	0.23	55
86.36		25	78	0.36	58	19	82	0.30	57	16	86	0.26	56
80.96		27	77	0.38	58	20	82	0.31	57	17	85	0.27	56
71.44		30	75	0.41	59	23	80	0.34	58	19	84	0.30	57
63.33		34	73	0.44	60	26	79	0.38	59	22	82	0.33	58
53.83		40	69	0.49	60	31	76	0.42	60	26	80	0.37	59
55.93	27/2	39	77	0.43	74	30	81	0.35	73	25	81	0.29	73
51.30		42	76	0.46	75	33	80	0.38	74	27	81	0.32	73
43.68		50	74	0.52	76	38	78	0.43	75	32	81	0.37	74
37.66		58	72	0.58	76	45	76	0.48	75	37	79	0.41	75
35.10		62	71	0.61	76	48	75	0.50	76	39	78	0.43	75
30.68		71	70	0.68	77	55	73	0.56	76	45	76	0.48	76
28.76		76	68	0.71	77	59	73	0.59	77	48	75	0.50	76
25.38		86	67	0.78	78	66	71	0.65	77	55	74	0.56	76
22.50		97	66	0.86	78	75	70	0.71	78	62	73	0.62	77
19.13		115	63	0.96	79	88	68	0.81	78	73	71	0.70	78
19.89	24/5	110	48	0.66	85	85	50	0.53	84	70	52	0.46	84
18.24		120	47	0.70	85	93	49	0.57	84	76	52	0.50	84
15.53		141	45	0.78	85	109	48	0.65	85	90	50	0.56	84
13.39		164	44	0.88	86	126	47	0.73	85	104	49	0.63	85
12.48		176	43	0.92	86	136	46	0.77	86	112	48	0.66	85
10.91		201	42	1.0	86	155	45	0.85	86	128	48	0.75	86
10.23		215	41	1.1	86	166	45	0.91	86	136	47	0.79	86
9.02		243	40	1.2*	87	188	43	0.98	86	155	46	0.87	86
8.00		275	39	1.3*	86	212	43	1.1	87	175	45	0.95	86
6.80		323	37	1.5*	86	250	41	1.2*	87	205	43	1.1	87
6.33	19/5	347	35	1.4*	88	268	35	1.1	88	221	35	0.93	87
5.38		408	34	1.6*	88	315	34	1.3*	88	260	34	1.1	88
4.86		452	32	1.7*	89	349	33	1.4*	88	288	33	1.1	88
3.97		554	26	1.7*	88	428	32	1.6*	89	352	32	1.3*	88

* P_{Mot_max} = 1.1 kW

1100 – 700 min⁻¹

i _{tot}	i _s	n _e = 1100 min ⁻¹				n _e = 900 min ⁻¹				n _e = 700 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
157.43	38/1	6.9	92	0.13	51	5.7	92	0.11	50	4.4	92	0.09	48
144.40		7.6	92	0.14	51	6.2	92	0.12	50	4.8	92	0.10	49
122.94		8.9	92	0.17	52	7.3	92	0.14	51	5.6	92	0.11	50
106.00		10	92	0.19	53	8.4	92	0.16	52	6.6	92	0.13	51
98.80		11	92	0.20	54	9.1	92	0.17	53	7.0	92	0.13	51
86.36		12	90	0.22	55	10	92	0.19	54	8.1	92	0.15	52
80.96		13	89	0.23	55	11	92	0.20	54	8.6	92	0.16	53
71.44		15	87	0.25	56	12	91	0.22	55	9.7	92	0.18	53
63.33		17	86	0.28	57	14	89	0.24	56	11	92	0.20	54
53.83		20	84	0.31	58	16	87	0.27	57	13	91	0.22	56
55.93	27/2	19	87	0.25	72	16	91	0.22	71	12	92	0.17	69
51.30		21	87	0.27	72	17	90	0.23	71	13	92	0.19	70
43.68		25	84	0.30	73	20	87	0.26	72	16	92	0.22	71
37.66		29	82	0.34	74	23	86	0.30	73	18	89	0.24	72
35.10		31	82	0.36	74	25	84	0.31	73	19	88	0.26	72
30.68		35	80	0.40	75	29	82	0.34	74	22	87	0.29	73
28.76		38	79	0.42	75	31	82	0.36	74	24	86	0.30	73
25.38		43	78	0.47	76	35	81	0.40	75	27	84	0.33	74
22.50		48	77	0.52	76	40	79	0.44	75	31	82	0.36	74
19.13		57	75	0.59	77	47	78	0.50	76	36	81	0.41	75
19.89	24/5	55	55	0.38	83	45	58	0.33	82	35	60	0.27	81
18.24		60	54	0.41	83	49	56	0.35	83	38	60	0.30	82
15.53		70	53	0.47	84	57	55	0.40	83	45	58	0.33	82
13.39		82	52	0.53	84	67	54	0.45	84	52	56	0.37	83
12.48		88	51	0.56	85	72	53	0.48	84	56	55	0.39	83
10.91		100	50	0.62	85	82	52	0.53	84	64	54	0.43	84
10.23		107	49	0.65	85	87	51	0.56	85	68	54	0.46	84
9.02		121	48	0.72	86	99	50	0.61	85	77	53	0.51	84
8.00		137	47	0.79	86	112	49	0.68	85	87	52	0.56	85
6.80		161	46	0.90	86	132	48	0.77	86	102	51	0.64	85
6.33	19/5	173	45	0.94	87	142	45	0.77	87	110	45	0.61	86
5.38		204	43	1.1	88	167	43	0.86	87	130	43	0.68	87
4.86		226	42	1.1	88	185	42	0.93	88	144	42	0.73	87
3.97		277	40	1.3*	88	226	40	1.1	88	176	40	0.84	88

* P_{Mot_max} = 1.1 kW

500 – 10 min⁻¹

i _{tot}	i _s	n _e = 500 min ⁻¹				n _e = 250 min ⁻¹				n _e = 10 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
157.43	38/1	3.1	92	0.07	47	1.5	92	<0.05	46	0.06	92	<0.05	46
144.40		3.4	92	0.07	47	1.7	92	<0.05	46	0.06	92	<0.05	46
122.94		4.0	92	0.08	48	2.0	92	<0.05	46	0.08	92	<0.05	46
106.00		4.7	92	0.09	49	2.3	92	<0.05	46	0.09	92	<0.05	47
98.80		5.0	92	0.10	49	2.5	92	0.05	46	0.10	92	<0.05	47
86.36		5.7	92	0.11	50	2.8	92	0.06	47	0.11	92	<0.05	47
80.96		6.1	92	0.12	50	3.0	92	0.06	47	0.12	92	<0.05	47
71.44		6.9	92	0.13	51	3.4	92	0.07	48	0.13	92	<0.05	47
63.33		7.8	92	0.15	52	3.9	92	0.08	48	0.15	92	<0.05	47
53.83		9.2	92	0.17	53	4.6	92	0.09	49	0.18	92	<0.05	47
55.93	27/2	8.9	92	0.13	68	4.4	92	0.06	67	0.17	92	<0.05	67
51.30		9.7	92	0.14	68	4.8	92	0.07	67	0.19	92	<0.05	67
43.68		11	92	0.16	69	5.7	92	0.08	67	0.22	92	<0.05	67
37.66		13	92	0.18	70	6.6	92	0.10	67	0.26	92	<0.05	67
35.10		14	92	0.20	70	7.1	92	0.10	67	0.28	92	<0.05	67
30.68		16	92	0.22	71	8.1	92	0.12	68	0.32	92	<0.05	67
28.76		17	91	0.23	71	8.6	92	0.12	68	0.34	92	<0.05	67
25.38		19	89	0.25	72	9.8	92	0.14	69	0.39	92	<0.05	67
22.50		22	87	0.28	73	11	92	0.15	69	0.44	92	<0.05	67
19.13		26	85	0.32	74	13	92	0.18	70	0.52	92	<0.05	67
19.89	24/5	25	68	0.22	80	12	72	0.12	79	0.50	72	<0.05	79
18.24		27	66	0.23	81	13	72	0.13	79	0.54	72	<0.05	79
15.53		32	63	0.26	81	16	72	0.15	79	0.64	72	<0.05	79
13.39		37	61	0.29	82	18	72	0.18	80	0.74	72	<0.05	79
12.48		40	59	0.30	82	20	72	0.19	80	0.8	72	<0.05	79
10.91		45	58	0.34	83	22	71	0.21	80	0.91	71	<0.05	79
10.23		48	57	0.35	83	24	70	0.22	81	0.97	70	<0.05	79
9.02		55	56	0.39	83	27	66	0.24	81	1.1	66	<0.05	79
8.00		62	55	0.43	84	31	63	0.25	81	1.2	63	<0.05	79
6.80		73	54	0.49	84	36	61	0.29	82	1.4	61	<0.05	79
6.33	19/5	78	45	0.44	85	39	45	0.23	83	1.5	45	<0.05	80
5.38		92	43	0.49	86	46	43	0.25	83	1.8	43	<0.05	80
4.86		102	42	0.53	86	51	42	0.27	84	2.0	42	<0.05	80
3.97		125	40	0.61	87	62	40	0.31	84	0.06	92	<0.05	80

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3400 – 2800 min⁻¹

i _{tot}	i _s	n _e = 3400 min ⁻¹				n _e = 3200 min ⁻¹				n _e = 2800 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
201.00	42/1	16	150	0.46	57	15	150	0.44	57	13	150	0.39	56
184.80		18	150	0.50	58	17	150	0.47	58	15	150	0.42	57
158.12		21	150	0.58	59	20	150	0.54	58	17	150	0.48	58
137.05		24	150	0.65	60	23	150	0.62	59	20	150	0.55	59
128.10		26	150	0.69	60	24	150	0.66	60	21	150	0.58	59
110.73		30	138	0.73	60	28	148	0.74	61	25	150	0.66	60
94.08		36	113	0.71	60	34	123	0.73	60	29	146	0.75	61
84.00		40	95	0.68	59	38	107	0.71	60	33	130	0.75	61
71.75		47	58	0.52	56	44	82	0.65	59	39	107	0.72	61
67.20		50	53	0.51	55	47	68	0.59	58	41	99	0.72	60
56.61		60	40	0.48	53	56	46	0.50	54	49	75	0.66	59
69.39	29/2	48	140	0.94	77	46	140	0.88	77	40	140	0.78	76
63.80		53	140	1.0	77	50	140	0.96	77	43	140	0.84	76
54.59		62	140	1.2	78	58	140	1.1	78	51	140	0.98	77
47.32		71	139	1.3	78	67	140	1.3	78	59	140	1.1	78
44.22		76	129	1.3	78	72	139	1.3	78	63	140	1.2	78
38.23		88	112	1.3	78	83	120	1.3	79	73	139	1.4	79
32.48		104	91	1.3	78	98	100	1.3	78	86	117	1.3	79
29.00		117	76	1.2	77	110	86	1.3	78	96	104	1.3	79
24.77		137	47	0.91	75	129	66	1.2	77	113	87	1.3	78
23.20		146	42	0.87	74	137	54	1.0	76	120	79	1.3	78
19.54		174	32	0.81	72	163	37	0.86	74	143	59	1.1	77
20.33	27/5	167	100	2.0*	86	157	100	1.9*	86	137	100	1.7*	86
17.62		192	97	2.3*	86	181	100	2.2*	86	158	100	1.9*	86
16.47		206	90	2.3*	86	194	97	2.3*	86	170	100	2.1*	86
14.24		238	78	2.3*	86	224	83	2.3*	86	196	97	2.3*	86
12.10		280	63	2.2*	86	264	69	2.2*	86	231	82	2.3*	86
10.80		314	53	2.1*	85	296	60	2.2*	85	259	72	2.3*	86
9.23		368	32	1.5	85	346	45	1.9*	85	303	60	2.2*	86
8.64		393	29	1.4	84	370	37	1.7*	85	324	55	2.2*	86
7.28		467	22	1.3	83	439	25	1.4	84	384	41	1.9*	85
6.83		497	34	2.0*	87	468	37	2.1*	88	409	45	2.2*	88
6.4		531	31	2.0*	87	500	34	2.0*	87	437	42	2.2*	88
5.39	20/5	630	24	1.8*	86	593	27	1.9*	87	519	34	2.1*	88
4.76		714	20	1.8*	85	672	23	1.9*	86	588	29	2.0*	87
4		850	16	1.7*	85	800	18	1.8*	85	700	23	1.9*	87

* P_{Mot_max} = 1.5 kW

2200 – 1400 min⁻¹

i _{tot}	i _s	n _e = 2200 min ⁻¹				n _e = 1700 min ⁻¹				n _e = 1400 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
201.00	42/1	10	167	0.35	55	8.4	170	0.28	54	6.9	170	0.23	53
184.80		11	167	0.37	56	9.1	168	0.30	55	7.5	170	0.25	53
158.12		13	167	0.43	57	10	168	0.34	56	8.8	170	0.29	54
137.05		16	165	0.48	58	12	167	0.38	57	10	168	0.32	55
128.10		17	165	0.51	58	13	167	0.41	57	10	168	0.34	56
110.73		19	165	0.58	59	15	167	0.46	58	12	168	0.39	57
94.08		23	165	0.67	60	18	167	0.53	59	14	168	0.45	58
84.00		26	162	0.73	61	20	167	0.59	60	16	167	0.50	59
71.75		30	145	0.76	62	23	167	0.68	61	19	167	0.57	60
67.20		32	137	0.76	62	25	164	0.71	61	20	167	0.60	60
56.61	29/2	38	115	0.76	62	30	152	0.77	62	24	165	0.69	62
69.39		31	155	0.68	75	24	155	0.54	74	20	155	0.45	73
63.80		34	155	0.74	76	26	155	0.58	75	21	155	0.48	74
54.59		40	155	0.86	77	31	155	0.67	75	25	155	0.56	75
47.32		46	155	0.98	77	35	155	0.77	76	29	155	0.64	75
44.22		49	155	1.0	78	38	155	0.82	77	31	155	0.68	76
38.23		57	154	1.2	78	44	155	0.93	77	36	155	0.78	77
32.48		67	146	1.3	79	52	155	1.1	78	43	155	0.91	77
29.00		75	137	1.4	79	58	154	1.2	79	48	155	1.0	78
24.77		88	117	1.4	79	68	145	1.3	79	56	155	1.2	79
23.20	27/5	94	111	1.4	79	73	142	1.4	79	60	152	1.2	79
19.54		112	92	1.4	79	87	123	1.4	80	71	144	1.4	79
20.33		108	109	1.4	86	83	110	1.1	86	68	110	0.93	85
17.62		124	108	1.6*	87	96	109	1.3	86	79	110	1.1	86
16.47		133	108	1.7*	87	103	109	1.4	86	85	110	1.1	86
14.24		154	108	2.0*	87	119	109	1.6*	87	98	110	1.3	86
12.10		181	105	2.3*	87	140	109	1.8*	87	115	109	1.5	87
10.80		203	95	2.3*	87	157	108	2.1*	87	129	109	1.7*	87
9.23		238	82	2.4*	87	184	105	2.3*	87	151	109	2.0*	87
8.64		254	77	2.4*	86	196	100	2.4*	87	162	109	2.1*	87
7.28	20/5	302	64	2.3*	86	233	86	2.4*	87	192	103	2.4*	87
6.83		322	62	2.4*	89	248	78	2.3*	89	204	78	1.9*	89
6.40		343	58	2.3*	89	265	76	2.4*	89	218	76	2.0*	89
5.39		408	48	2.3*	89	315	65	2.4*	89	259	74	2.3*	89
4.76		462	42	2.3*	89	357	58	2.4*	89	294	72	2.5*	90
4.00		550	34	2.2*	88	425	48	2.4*	89	350	61	2.5*	90

* P_{Mot_max} = 1.5 kW

1100 – 700 min⁻¹

i _{tot}	i _s	n _e = 1100 min ⁻¹				n _e = 900 min ⁻¹				n _e = 700 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
201.00	42/1	5.4	176	0.20	52	4.4	180	0.17	50	3.4	185	0.14	49
184.80		5.9	174	0.21	52	4.8	178	0.18	51	3.7	183	0.15	50
158.12		6.9	172	0.24	53	5.6	176	0.20	52	4.4	180	0.17	51
137.05		8.0	171	0.27	54	6.5	172	0.22	53	5.1	178	0.19	51
128.10		8.5	171	0.28	55	7.0	172	0.24	53	5.4	176	0.19	52
110.73		9.9	169	0.32	56	8.1	171	0.27	54	6.3	174	0.22	53
94.08		11	169	0.37	57	9.5	171	0.31	55	7.4	172	0.25	54
84.00		13	169	0.40	58	10	169	0.34	56	8.3	171	0.27	55
71.75		15	169	0.46	59	12	169	0.39	57	9.7	171	0.31	56
67.20		16	169	0.49	59	13	169	0.41	58	10	171	0.33	56
56.61	29/2	19	169	0.57	60	15	169	0.48	59	12	171	0.38	58
69.39		15	173	0.40	72	12	176	0.33	71	10	180	0.27	70
63.80		17	173	0.43	73	14	175	0.36	72	10	180	0.29	71
54.59		20	171	0.49	74	16	173	0.41	73	12	176	0.33	72
47.32		23	171	0.56	74	19	173	0.47	74	14	175	0.38	72
44.22		24	171	0.60	75	20	171	0.49	74	15	175	0.40	73
38.23		28	169	0.67	76	23	171	0.56	75	18	173	0.45	73
32.48		33	169	0.78	76	27	171	0.66	76	21	171	0.52	74
29.00		37	170	0.88	77	31	171	0.73	76	24	171	0.58	75
24.77		44	169	1.0	78	36	170	0.84	77	28	171	0.67	76
23.20	27/5	47	164	1.0	78	38	170	0.89	77	30	171	0.71	76
19.54		56	154	1.2	79	46	165	1.0	78	35	170	0.83	77
20.33		54	112	0.75	84	44	114	0.63	84	34	116	0.51	83
17.62		62	112	0.86	85	51	113	0.72	84	39	115	0.57	83
16.47		66	112	0.92	85	54	113	0.77	84	42	114	0.61	84
14.24		77	111	1.1	86	63	112	0.87	85	49	113	0.69	84
12.10		90	111	1.2	86	74	111	1.0	86	57	113	0.81	85
10.80		101	111	1.4	86	83	111	1.1	86	64	112	0.89	85
9.23		119	110	1.6*	87	97	111	1.3	86	75	112	1.0	86
8.64		127	109	1.7*	87	104	111	1.4	87	81	112	1.1	86
7.28	20/5	151	109	2.0*	87	123	111	1.6*	87	96	111	1.3	87
6.83		161	95	1.8*	89	131	95	1.5*	88	102	95	1.2	88
6.40		171	93	1.9*	89	140	93	1.6*	88	109	93	1.2	88
5.39		204	89	2.1*	89	166	89	1.8*	89	129	89	1.4	88
4.76		231	87	2.4*	89	189	87	1.9*	89	147	87	1.5	89
4.00		275	78	2.5*	90	225	84	2.2*	89	175	84	1.7*	89

* P_{Mot_max} = 1.5 kW

500 – 10 min⁻¹

i _{tot}	i _s	n _e = 500 min ⁻¹				n _e = 250 min ⁻¹				n _e = 10 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
201.00	42/1	2.4	185	0.10	47	1.2	185	0.05	47	0.04	185	<0.05	47
184.80		2.7	185	0.11	48	1.3	185	0.06	47	0.05	185	<0.05	47
158.12		3.1	185	0.13	49	1.5	185	0.07	47	0.06	185	<0.05	47
137.05		3.6	185	0.14	50	1.8	185	0.08	47	0.07	185	<0.05	47
128.10		3.9	183	0.15	50	1.9	185	0.08	47	0.07	185	<0.05	47
110.73		4.5	181	0.17	51	2.2	185	0.09	47	0.09	185	<0.05	48
94.08		5.3	178	0.19	52	2.6	185	0.11	48	0.10	185	<0.05	48
84.00		5.9	176	0.21	53	2.9	185	0.12	49	0.11	185	<0.05	48
71.75		6.9	174	0.24	54	3.4	185	0.14	50	0.13	185	<0.05	48
67.20		7.4	172	0.25	54	3.7	185	0.14	50	0.14	185	<0.05	48
56.61		8.8	172	0.29	56	4.4	181	0.16	51	0.17	181	<0.05	48
69.39	29/2	7.2	185	0.20	69	3.6	185	0.10	67	0.14	185	<0.05	67
63.80		7.8	185	0.22	69	3.9	185	0.11	67	0.15	185	<0.05	67
54.59		9.1	185	0.25	70	4.5	185	0.13	67	0.18	185	<0.05	67
47.32		10	181	0.28	71	5.2	185	0.15	68	0.21	185	<0.05	68
44.22		11	180	0.30	71	5.6	185	0.16	68	0.22	185	<0.05	68
38.23		13	178	0.34	72	6.5	185	0.18	69	0.26	185	<0.05	68
32.48		15	174	0.39	73	7.6	185	0.22	69	0.30	185	<0.05	68
29.00		17	174	0.43	73	8.6	185	0.24	70	0.34	185	<0.05	68
24.77		20	172	0.49	74	10	183	0.27	71	0.40	183	<0.05	68
23.20		21	172	0.52	75	10	181	0.29	71	0.43	181	<0.05	68
19.54		25	172	0.61	76	12	178	0.33	72	0.51	178	<0.05	68
20.33	27/5	24	124	0.39	82	12	157	0.25	80	0.49	157	<0.05	79
17.62		28	120	0.43	82	14	149	0.28	80	0.56	149	<0.05	80
16.47		30	118	0.46	82	15	145	0.29	80	0.60	145	<0.05	80
14.24		35	116	0.51	83	17	138	0.31	81	0.70	138	<0.05	80
12.10		41	115	0.60	84	20	131	0.35	81	0.82	131	<0.05	80
10.80		46	114	0.66	84	23	127	0.38	82	0.92	127	<0.05	80
9.23		54	113	0.76	85	27	121	0.42	82	1.0	121	<0.05	80
8.64		57	113	0.81	85	28	120	0.44	83	1.1	120	<0.05	80
7.28		68	112	0.94	86	34	117	0.51	83	1.3	117	<0.05	80
6.83	20/5	73	95	0.84	87	36	95	0.43	84	1.4	95	<0.05	81
6.40		78	93	0.88	87	39	93	0.45	85	1.5	93	<0.05	81
5.39		92	89	0.99	87	46	89	0.51	85	1.8	89	<0.05	81
4.76		105	87	1.1	88	52	87	0.56	86	2.1	87	<0.05	81
4.00		125	84	1.2	88	62	84	0.64	86	2.5	84	<0.05	81

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3400 – 2800 min⁻¹

i _{tot}	i _s	n _e = 3400 min ⁻¹				n _e = 3200 min ⁻¹				n _e = 2800 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
201.00	42/1	16	270	0.78	61	15	270	0.74	61	13	270	0.66	60
184.80		18	270	0.84	62	17	270	0.79	62	15	270	0.70	61
158.12		21	270	0.97	63	20	270	0.92	63	17	270	0.81	62
137.05		24	255	1.0	64	23	270	1.0	63	20	270	0.92	63
128.10		26	245	1.1	64	24	255	1.0	64	21	270	0.98	63
110.73		30	215	1.1	64	28	230	1.1	64	25	255	1.1	64
94.08		36	184	1.1	64	34	196	1.1	64	29	225	1.1	64
84.00		40	165	1.1	64	38	175	1.1	64	33	200	1.1	64
71.75		47	139	1.1	64	44	149	1.1	64	39	174	1.1	65
67.20		50	128	1.1	64	47	139	1.1	64	41	164	1.1	65
56.61		60	103	1.0	63	56	114	1.1	64	49	138	1.1	65
69.39	29/2	48	220	1.4	79	46	220	1.4	79	40	220	1.2	78
63.80		53	220	1.5	79	50	220	1.5	79	43	220	1.3	79
54.59		62	220	1.8	80	58	220	1.7	80	51	220	1.5	79
47.32		71	210	2.0	80	67	220	1.9	80	59	220	1.7	80
44.22		76	197	2.0	80	72	205	1.9	80	63	220	1.8	80
38.23		88	174	2.0	81	83	184	2.0	81	73	205	2.0	81
32.48		104	148	2.0	81	98	157	2.0	81	86	180	2.0	81
29.00		117	131	2.0	81	110	141	2.0	81	96	162	2.0	81
24.77		137	111	2.0	80	129	120	2.0	81	113	139	2.0	81
23.20		146	102	2.0	80	137	111	2.0	81	120	131	2.0	81
19.54		174	81	1.9	80	163	90	1.9	80	143	109	2.0	81
20.33	27/5	167	160	3.2*	88	157	160	3.0	88	137	160	2.6	88
17.62		192	140	3.2*	88	181	149	3.2*	88	158	160	3.0	88
16.47		206	132	3.2*	88	194	140	3.2*	88	170	158	3.2*	88
14.24		238	116	3.3*	88	224	123	3.3*	88	196	139	3.2*	88
12.10		280	99	3.3*	88	264	105	3.3*	88	231	121	3.3*	88
10.80		314	88	3.3*	88	296	94	3.3*	88	259	108	3.3*	88
9.23		368	73	3.2*	88	346	79	3.3*	88	303	93	3.3*	88
8.64		393	68	3.2*	88	370	74	3.3*	88	324	87	3.3*	88
7.28		467	54	3.0	88	439	60	3.1*	88	384	72	3.3*	88
6.8	20/5	497	54	3.2*	89	468	58	3.2*	89	409	69	3.3*	90
6.4		531	50	3.1*	89	500	54	3.2*	89	437	64	3.3*	89
5.4		630	41	3.1*	89	593	44	3.1*	89	519	53	3.2*	89
4.8		714	35	3.0	88	672	38	3.0	89	588	46	3.2*	89
4.0		850	28	2.8	88	800	31	2.9	88	700	38	3.1*	89

* P_{Mot_max} = 3.0 kW

2200 – 1400 min⁻¹

i _{tot}	i _s	n _e = 2200 min ⁻¹				n _e = 1700 min ⁻¹				n _e = 1400 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
201.00	42/1	10	295	0.58	59	8.4	295	0.46	57	6.9	295	0.39	56
184.80		11	295	0.62	60	9.1	295	0.49	58	7.5	295	0.41	56
158.12		13	295	0.71	61	10	295	0.56	59	8.8	295	0.47	58
137.05		16	295	0.80	62	12	295	0.64	60	10	295	0.54	59
128.10		17	295	0.85	62	13	295	0.68	61	10	295	0.57	59
110.73		19	290	0.96	63	15	295	0.77	62	12	295	0.65	60
94.08		23	275	1.1	64	18	300	0.91	63	14	295	0.75	62
84.00		26	250	1.1	64	20	285	0.95	63	16	295	0.83	62
71.75		30	220	1.1	65	23	275	1.1	64	19	290	0.94	63
67.20		32	210	1.1	65	25	260	1.1	64	20	285	0.98	64
56.61	29/2	38	179	1.1	65	30	225	1.1	65	24	265	1.1	65
69.39		31	245	1.1	77	24	245	0.83	76	20	245	0.69	75
63.80		34	245	1.1	78	26	245	0.89	77	21	245	0.74	76
54.59		40	245	1.3	79	31	245	1.0	78	25	245	0.86	77
47.32		46	245	1.5	79	35	245	1.2	78	29	245	0.98	77
44.22		49	245	1.6	80	38	245	1.3	79	31	245	1.0	78
38.23		57	245	1.8	80	44	245	1.4	79	36	245	1.2	78
32.48		67	225	2.0	81	52	245	1.7	80	43	245	1.4	79
29.00		75	200	2.0	81	58	245	1.9	80	48	245	1.6	80
24.77		88	177	2.0	81	68	220	2.0	81	56	245	1.8	80
23.20	27/5	94	167	2.0	81	73	210	2.0	81	60	245	1.9	81
19.54		112	143	2.1	81	87	183	2.1	81	71	215	2.0	81
20.33		108	168	2.2	87	83	168	1.7	87	68	168	1.4	86
17.62		124	168	2.5	88	96	168	2.0	87	79	168	1.6	86
16.47		133	169	2.7	88	103	168	2.1	87	85	168	1.7	87
14.24		154	169	3.1*	88	119	169	2.4	88	98	169	2.0	87
12.10		181	150	3.2*	88	140	169	2.8	88	115	169	2.3	88
10.80		203	136	3.3*	88	157	169	3.2*	88	129	169	2.6	88
9.23		238	119	3.4*	88	184	149	3.3*	88	151	169	3.0	88
8.64		254	112	3.4*	89	196	141	3.3*	89	162	166	3.2*	88
7.28	20/5	302	96	3.4*	89	233	122	3.4*	89	192	146	3.3*	89
6.8		322	91	3.4*	90	248	100	2.9	90	204	100	2.4	89
6.4		343	85	3.4*	90	265	98	3.0	90	218	98	2.5	89
5.4		408	72	3.4*	90	315	95	3.5*	90	259	95	2.9	90
4.8		462	63	3.4*	90	357	84	3.5*	90	294	93	3.2*	90
4.0		550	53	3.4*	90	425	71	3.5*	90	350	88	3.6*	90

* P_{Mot_max} = 3.0 kW

1100 – 700 min⁻¹

i _{tot}	i _s	n _e = 1100 min ⁻¹				n _e = 900 min ⁻¹				n _e = 700 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
201.00	42/1	5.4	295	0.31	54	4.4	300	0.27	53	3.4	310	0.22	51
184.80		5.9	295	0.34	55	4.8	300	0.29	54	3.7	305	0.23	52
158.12		6.9	295	0.38	56	5.6	295	0.32	55	4.4	300	0.26	53
137.05		8.0	295	0.43	57	6.5	295	0.36	56	5.1	300	0.29	54
128.10		8.5	295	0.46	58	7.0	295	0.38	57	5.4	295	0.31	55
110.73		9.9	295	0.52	59	8.1	295	0.44	58	6.3	295	0.35	56
94.08		11	295	0.60	60	9.5	295	0.50	59	7.4	295	0.40	57
84.00		13	295	0.67	61	10	295	0.56	60	8.3	295	0.44	58
71.75		15	295	0.77	62	12	295	0.64	61	9.7	295	0.51	59
67.20		16	300	0.82	62	13	295	0.68	61	10	295	0.54	60
56.61	29/2	19	290	0.93	64	15	300	0.80	62	12	295	0.63	61
69.39		15	270	0.61	74	12	270	0.50	73	10	270	0.40	72
63.80		17	270	0.65	75	14	270	0.54	74	10	270	0.43	72
54.59		20	270	0.75	76	16	270	0.62	75	12	270	0.50	73
47.32		23	270	0.86	76	19	270	0.71	75	14	270	0.56	74
44.22		24	270	0.92	77	20	270	0.76	76	15	270	0.60	75
38.23		28	270	1.0	78	23	270	0.87	77	18	270	0.69	75
32.48		33	270	1.2	78	27	270	1.0	77	21	270	0.80	76
29.00		37	270	1.4	79	31	270	1.1	78	24	270	0.89	77
24.77		44	270	1.6	80	36	270	1.3	79	28	270	1.0	78
23.20	27/5	47	270	1.7	80	38	270	1.4	79	30	270	1.1	78
19.54		56	250	1.8	81	46	270	1.6	80	35	270	1.3	79
20.33		54	168	1.1	85	44	170	0.93	84	34	172	0.74	84
17.62		62	169	1.3	86	51	169	1.1	85	39	170	0.84	84
16.47		66	168	1.4	86	54	168	1.1	85	42	170	0.90	84
14.24		77	168	1.6	86	63	168	1.3	86	49	170	1.0	85
12.10		90	169	1.9	87	74	169	1.5	86	57	169	1.2	86
10.80		101	169	2.1	87	83	169	1.7	87	64	169	1.3	86
9.23		119	170	2.4	88	97	168	2.0	87	75	168	1.5	87
8.64		127	170	2.6	88	104	169	2.1	87	81	168	1.6	87
7.28		151	170	3.0	88	123	170	2.5	88	96	170	2.0	87
6.8	20/5	161	120	2.3	89	131	120	1.9	89	102	120	1.5	88
6.4		171	117	2.4	89	140	117	1.9	89	109	117	1.5	88
5.4		204	111	2.6	90	166	111	2.2	89	129	111	1.7	89
4.8		231	108	2.9	90	189	108	2.4	90	147	108	1.9	89
4.0		275	103	3.3*	90	225	103	2.7	90	175	103	2.1	89

* P_{Mot_max} = 3.0 kW

500 – 10 min⁻¹

i _{tot}	i _s	n _e = 500 min ⁻¹				n _e = 250 min ⁻¹				n _e = 10 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
201.00	42/1	2.4	330	0.17	50	1.2	330	0.09	48	0.04	330	<0.05	48
184.80		2.7	330	0.19	50	1.3	330	0.10	48	0.05	330	<0.05	48
158.12		3.1	315	0.20	51	1.5	330	0.11	48	0.06	330	<0.05	48
137.05		3.6	310	0.23	52	1.8	330	0.13	49	0.07	330	<0.05	48
128.10		3.9	305	0.24	53	1.9	330	0.14	49	0.07	330	<0.05	49
110.73		4.5	300	0.26	54	2.2	330	0.16	50	0.09	330	<0.05	49
94.08		5.3	300	0.30	55	2.6	330	0.18	51	0.10	330	<0.05	49
84.00		5.9	295	0.33	56	2.9	325	0.20	51	0.11	325	<0.05	49
71.75		6.9	295	0.38	57	3.4	310	0.22	52	0.13	310	<0.05	49
67.20		7.4	295	0.40	57	3.7	310	0.23	53	0.14	310	<0.05	49
56.61		8.8	295	0.47	59	4.4	300	0.26	54	0.17	300	<0.05	49
69.39	29/2	7.2	300	0.32	70	3.6	300	0.17	68	0.14	300	<0.05	68
63.80		7.8	300	0.35	71	3.9	300	0.18	68	0.15	300	<0.05	68
54.59		9.1	300	0.40	72	4.5	300	0.21	68	0.18	300	<0.05	68
47.32		10	300	0.46	73	5.2	300	0.24	69	0.21	300	<0.05	68
44.22		11	300	0.49	73	5.6	300	0.26	69	0.22	300	<0.05	68
38.23		13	295	0.55	74	6.5	300	0.29	70	0.26	300	<0.05	68
32.48		15	295	0.64	75	7.6	300	0.34	71	0.30	300	<0.05	68
29.00		17	295	0.71	75	8.6	300	0.38	72	0.34	300	<0.05	68
24.77		20	295	0.82	76	10	300	0.44	73	0.40	300	<0.05	68
23.20		21	295	0.87	76	10	300	0.46	73	0.43	300	<0.05	68
19.54		25	295	1.0	77	12	295	0.54	74	0.51	295	<0.05	68
20.33	27/5	24	181	0.57	82	12	215	0.35	80	0.49	215	<0.05	79
17.62		28	175	0.63	83	14	210	0.39	80	0.56	210	<0.05	79
16.47		30	174	0.66	83	15	205	0.40	81	0.60	205	<0.05	79
14.24		35	172	0.75	84	17	198	0.45	81	0.70	198	<0.05	79
12.10		41	170	0.87	84	20	188	0.50	82	0.82	188	<0.05	79
10.80		46	170	0.97	85	23	184	0.54	82	0.92	184	<0.05	79
9.23		54	170	1.1	85	27	177	0.61	83	1.0	177	<0.05	79
8.64		57	170	1.2	86	28	175	0.64	83	1.1	175	<0.05	79
7.28		68	170	1.4	86	34	172	0.74	84	1.3	172	<0.05	79
6.8	20/5	73	120	1.1	87	36	120	0.54	85	1.4	120	<0.05	81
6.4		78	117	1.1	87	39	117	0.56	85	1.5	117	<0.05	81
5.4		92	111	1.2	88	46	111	0.63	86	1.8	111	<0.05	81
4.8		105	108	1.3	88	52	108	0.69	86	2.1	108	<0.05	81
4.0		125	103	1.5	89	62	103	0.78	87	2.5	103	<0.05	81

11.14 Technical data S..67

3400 – 2800 min⁻¹

i _{tot}	i _s	n _e = 3400 min ⁻¹				n _e = 3200 min ⁻¹				n _e = 2800 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
217.41	42/1	15	465	1.2	63	14	465	1.2	62	12	465	1.0	62
190.11		17	465	1.4	63	16	465	1.3	63	14	465	1.2	62
180.60		18	465	1.4	63	17	465	1.4	63	15	465	1.2	63
158.45		21	465	1.6	64	20	465	1.5	64	17	465	1.4	63
134.40		25	465	1.9	65	23	465	1.8	65	20	465	1.6	64
121.33		28	455	2.0	65	26	465	2.0	65	23	465	1.7	65
106.75		31	405	2.1	65	29	430	2.1	66	26	465	2.0	65
100.80		33	380	2.1	65	31	410	2.1	66	27	465	2.1	66
85.83		39	320	2.0	65	37	345	2.1	65	32	400	2.1	66
78.00		43	285	2.0	65	41	310	2.0	65	35	365	2.1	66
67.57		50	235	1.9	64	47	260	2.0	65	41	315	2.1	66
58.80		57	184	1.8	62	54	215	1.9	64	47	270	2.1	65
75.06	29/2	45	435	2.6	80	42	435	2.4	80	37	435	2.1	79
65.63		51	435	2.9	80	48	435	2.8	80	42	435	2.4	80
62.35		54	435	3.1	81	51	435	2.9	80	44	435	2.6	80
54.70		62	435	3.5	81	58	435	3.3	81	51	435	2.9	81
46.40		73	395	3.7	81	68	415	3.7	81	60	435	3.4	81
41.89		81	355	3.7	81	76	380	3.7	81	66	430	3.7	81
36.85		92	310	3.7	81	86	335	3.8	81	75	380	3.7	81
34.80		97	295	3.7	81	91	315	3.7	81	80	365	3.8	81
29.63		114	250	3.7	81	107	270	3.8	81	94	310	3.8	81
26.93		126	220	3.6	80	118	240	3.7	81	103	280	3.7	81
23.33		145	182	3.5	80	137	200	3.6	80	120	245	3.8	81
20.30		167	141	3.1	79	157	164	3.4	80	137	205	3.7	81
24.44	27/5	139	315	5.2	89	130	315	4.9	89	114	315	4.3	88
23.22		146	315	5.4	89	137	315	5.1	89	120	315	4.5	89
20.37		166	315	6.2*	89	157	315	5.8*	89	137	315	5.1	89
17.28		196	270	6.3*	89	185	290	6.3*	89	162	315	6.0*	89
15.60		217	245	6.3*	89	205	260	6.3*	89	179	295	6.2*	89
13.73		247	215	6.3*	89	233	230	6.3*	89	203	265	6.4*	89
12.96		262	200	6.2*	89	246	215	6.3*	89	216	250	6.4*	89
11.03		308	169	6.2*	88	290	183	6.3*	89	253	215	6.4*	89
10.03		338	151	6.1*	88	319	164	6.2*	88	279	194	6.4*	89
8.69		391	124	5.8*	88	368	137	6.0*	88	322	166	6.3*	89
7.56		449	95	5.1	87	423	112	5.7*	88	370	141	6.2*	88

* P_{Mot_max} = 5.5 kW

2200 – 1400 min⁻¹

i _{tot}	i _s	n _e = 2200 min ⁻¹				n _e = 1700 min ⁻¹				n _e = 1400 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
217.41	42/1	10	520	0.91	61	7.8	520	0.72	59	6.4	520	0.60	58
190.11		11	520	1.0	62	8.9	520	0.81	60	7.3	520	0.68	59
180.60		12	520	1.1	62	9.4	520	0.85	61	7.7	520	0.71	59
158.45		13	520	1.2	63	10	520	0.95	61	8.8	520	0.80	60
134.40		16	520	1.4	64	12	520	1.1	62	10	520	0.93	61
121.33		18	520	1.5	64	14	520	1.2	63	11	520	1.0	62
106.75		20	520	1.7	65	15	520	1.4	64	13	520	1.1	63
100.80		21	510	1.8	65	16	520	1.4	64	13	520	1.2	63
85.83		25	490	2.0	66	19	520	1.7	65	16	520	1.4	64
78.00		28	465	2.1	66	21	510	1.8	66	17	520	1.5	65
67.57		32	410	2.1	67	25	495	2.0	66	20	520	1.7	66
58.80		37	360	2.1	67	28	460	2.1	67	23	500	1.9	66
75.06	29/2	29	480	1.9	79	22	480	1.5	78	18	480	1.2	77
65.63		33	480	2.1	79	25	480	1.7	78	21	480	1.4	78
62.35		35	480	2.2	80	27	480	1.7	79	22	480	1.5	78
54.70		40	480	2.5	80	31	480	2.0	79	25	480	1.6	78
46.40		47	480	3.0	81	36	480	2.3	80	30	480	1.9	79
41.89		52	480	3.3	81	40	480	2.5	80	33	480	2.1	80
36.85		59	475	3.6	81	46	480	2.9	81	37	480	2.4	80
34.80		63	450	3.7	82	48	480	3.0	81	40	480	2.5	80
29.63		74	395	3.8	82	57	480	3.5	82	47	480	2.9	81
26.93		81	360	3.8	82	63	455	3.7	82	51	480	3.2	81
23.33		94	320	3.9	82	72	405	3.8	82	60	480	3.7	82
20.30		108	280	3.9	82	83	360	3.8	82	68	425	3.7	82
24.44	27/5	90	340	3.6	88	69	340	2.8	87	57	340	2.3	87
23.22		94	340	3.8	88	73	340	3.0	88	60	340	2.5	87
20.37		108	340	4.3	88	83	340	3.4	88	68	340	2.8	87
17.28		127	340	5.1	89	98	340	4.0	88	81	340	3.3	88
15.60		141	340	5.6*	89	108	340	4.4	89	89	340	3.6	88
13.73		160	330	6.2*	89	123	340	5.0	89	101	340	4.1	89
12.96		169	315	6.3*	89	131	340	5.2	89	108	340	4.3	89
11.03		199	275	6.4*	89	154	340	6.2*	89	126	340	5.1	89
10.03		219	250	6.4*	89	169	315	6.3*	89	139	340	5.6*	89
8.69		253	220	6.6*	89	195	280	6.4*	89	161	335	6.3*	89
7.56		291	192	6.6*	89	224	250	6.6*	89	185	295	6.4*	89

* P_{Mot_max} = 5.5 kW

1100 – 700 min⁻¹

i _{tot}	i _s	n _e = 1100 min ⁻¹				n _e = 900 min ⁻¹				n _e = 700 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
217.41	42/1	5.0	555	0.52	57	4.1	560	0.44	56	3.2	570	0.35	54
190.11		5.7	555	0.58	58	4.7	560	0.49	57	3.6	565	0.40	55
180.60		6.0	555	0.61	58	4.9	555	0.51	57	3.8	565	0.41	55
158.45		6.9	550	0.68	59	5.6	555	0.57	58	4.4	560	0.46	56
134.40		8.1	550	0.78	60	6.6	550	0.65	59	5.2	555	0.53	57
121.33		9.0	550	0.86	61	7.4	550	0.72	60	5.7	555	0.58	58
106.75		10	550	0.96	62	8.4	550	0.80	61	6.5	555	0.65	59
100.80		10	550	1.0	62	8.9	550	0.84	61	6.9	555	0.68	59
85.83		12	550	1.2	63	10	550	0.97	62	8.1	550	0.78	61
78.00		14	550	1.3	64	11	550	1.1	63	8.9	550	0.84	61
67.57		16	550	1.4	65	13	550	1.2	64	10	550	0.96	62
58.80		18	530	1.6	66	15	550	1.4	65	11	550	1.1	63
75.06	29/2	14	525	1.1	76	11	525	0.88	75	9.3	525	0.69	74
65.63		16	525	1.2	77	13	525	1.00	76	10	525	0.79	75
62.35		17	525	1.3	77	14	525	1.0	76	11	525	0.83	75
54.70		20	525	1.4	78	16	525	1.2	77	12	525	0.93	75
46.40		23	525	1.7	78	19	525	1.4	78	15	525	1.1	76
41.89		26	525	1.8	79	21	525	1.5	78	16	525	1.2	77
36.85		29	525	2.1	79	24	525	1.7	79	18	525	1.3	78
34.80		31	525	2.2	80	25	525	1.8	79	20	525	1.4	78
29.63		37	525	2.5	80	30	525	2.1	80	23	525	1.7	79
26.93		40	525	2.8	81	33	525	2.3	80	25	525	1.8	79
23.33		47	525	3.2	81	38	525	2.6	81	30	525	2.1	80
20.30		54	520	3.6	82	44	525	3.0	81	34	525	2.4	80
24.44	27/5	45	355	1.9	86	36	360	1.6	86	28	365	1.3	85
23.22		47	355	2.0	86	38	360	1.7	86	30	365	1.4	85
20.37		54	355	2.3	87	44	355	1.9	86	34	365	1.5	86
17.28		63	355	2.7	87	52	355	2.2	87	40	360	1.8	86
15.60		70	350	3.0	88	57	355	2.5	87	44	355	1.9	86
13.73		80	350	3.3	88	65	355	2.8	88	50	355	2.2	87
12.96		84	350	3.5	88	69	350	2.9	88	54	355	2.3	87
11.03		99	350	4.1	89	81	350	3.4	88	63	355	2.7	88
10.03		109	345	4.5	89	89	350	3.7	88	69	355	3.0	88
8.69		126	345	5.1	89	103	350	4.3	89	80	350	3.3	88
7.56		145	345	5.9*	89	119	345	4.8	89	92	350	3.8	89

* P_{Mot_max} = 5.5 kW

500 – 10 min⁻¹

i _{tot}	i _s	n _e = 500 min ⁻¹				n _e = 250 min ⁻¹				n _e = 10 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
217.41	42/1	2.2	570	0.26	52	1.1	570	0.14	50	0.04	570	<0.05	51
190.11		2.6	570	0.30	53	1.3	570	0.16	50	0.05	570	<0.05	51
180.60		2.7	570	0.31	53	1.3	570	0.17	50	0.05	570	<0.05	51
158.45		3.1	570	0.35	54	1.5	570	0.19	51	0.06	570	<0.05	51
134.40		3.7	565	0.40	55	1.8	570	0.22	52	0.07	570	<0.05	51
121.33		4.1	560	0.43	56	2.0	570	0.24	52	0.08	570	<0.05	51
106.75		4.6	560	0.48	57	2.3	570	0.27	53	0.09	570	<0.05	51
100.80		4.9	560	0.51	57	2.4	570	0.28	53	0.09	570	<0.05	51
85.83		5.8	555	0.58	58	2.9	570	0.32	54	0.11	570	<0.05	51
78.00		6.4	555	0.63	59	3.2	570	0.35	55	0.12	570	<0.05	51
67.57		7.3	555	0.71	60	3.6	565	0.39	56	0.14	565	<0.05	51
58.80		8.5	550	0.80	61	4.2	560	0.44	57	0.17	560	<0.05	51
75.06	29/2	6.6	570	0.55	72	3.3	570	0.29	69	0.13	570	<0.05	70
65.63		7.6	570	0.62	73	3.8	570	0.33	70	0.15	570	<0.05	70
62.35		8.0	570	0.65	73	4.0	570	0.34	70	0.16	570	<0.05	70
54.70		9.1	570	0.74	74	4.5	570	0.39	71	0.18	570	<0.05	70
46.40		10	570	0.86	75	5.3	570	0.45	71	0.21	570	<0.05	70
41.89		11	570	0.95	75	5.9	570	0.50	72	0.23	570	<0.05	70
36.85		13	570	1.1	76	6.7	570	0.56	73	0.27	570	<0.05	70
34.80		14	570	1.1	76	7.1	570	0.59	73	0.28	570	<0.05	70
29.63		16	565	1.3	77	8.4	570	0.68	74	0.33	570	<0.05	70
26.93		18	565	1.4	78	9.2	570	0.75	74	0.37	570	<0.05	70
23.33		21	565	1.6	78	10	570	0.85	75	0.42	570	<0.05	70
20.30		24	565	1.8	79	12	570	0.97	76	0.49	570	<0.05	70
24.44	27/5	20	365	0.93	84	10	355	0.47	82	0.40	355	<0.05	81
23.22		21	365	0.98	84	10	355	0.49	82	0.43	355	<0.05	81
20.37		24	380	1.2	85	12	365	0.57	82	0.49	365	<0.05	81
17.28		28	365	1.3	85	14	435	0.80	83	0.57	435	<0.05	81
15.60		32	365	1.4	85	16	430	0.87	83	0.64	430	<0.05	81
13.73		36	365	1.6	86	18	415	0.95	84	0.72	415	<0.05	81
12.96		38	360	1.7	86	19	410	0.99	84	0.77	410	<0.05	81
11.03		45	355	1.9	87	22	390	1.1	84	0.90	390	<0.05	81
10.03		49	355	2.1	87	24	380	1.2	85	0.99	380	<0.05	81
8.69		57	355	2.4	87	28	370	1.3	85	1.1	370	0.06	81
7.56		66	355	2.8	88	33	365	1.5	86	1.3	365	0.06	81

11.15 Technical data S..77

3400 – 2800 min⁻¹

i _{tot}	i _s	n _e = 3400 min ⁻¹				n _e = 3200 min ⁻¹				n _e = 2800 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
256.47	40/1	13	1160	2.4	68	12	1160	2.2	67	10	1160	2.0	67
225.26		15	1130	2.6	68	14	1150	2.5	68	12	1160	2.2	68
214.00		15	1110	2.7	68	14	1140	2.6	68	13	1160	2.3	68
189.09		17	1080	3.0	69	16	1100	2.8	69	14	1140	2.6	68
161.60		21	1040	3.3	69	19	1050	3.1	69	17	1090	2.9	69
148.15		22	1010	3.5	70	21	1030	3.4	70	18	1070	3.1	69
130.00		26	970	3.8	70	24	990	3.7	70	21	1030	3.3	70
123.20		27	950	3.9	70	25	970	3.8	70	22	1010	3.4	70
107.83		31	900	4.2	70	29	920	4.1	70	25	970	3.8	70
97.14		35	860	4.5	71	32	880	4.3	71	28	930	4.0	71
85.22		39	770	4.6	71	37	820	4.6	71	32	880	4.3	71
75.20		45	675	4.5	70	42	725	4.6	71	37	830	4.6	71
66.67		50	585	4.5	70	47	635	4.5	70	41	745	4.6	71
56.92		59	485	4.4	69	56	530	4.5	70	49	635	4.6	71
75.09	40/3	45	1020	5.7	85	42	1020	5.4	85	37	1020	4.7	84
71.33		47	1020	6.0	85	44	1020	5.7	85	39	1020	5.0	84
63.03		53	1020	6.8	85	50	1020	6.4	85	44	1020	5.6	85
53.87		63	980	7.6	86	59	1000	7.3	85	51	1020	6.5	85
49.38		68	950	8.0	86	64	970	7.7	86	56	1010	7.0	85
43.33		78	910	8.7	86	73	930	8.4	86	64	970	7.7	86
41.07		82	900	9.1	86	77	910	8.7	86	68	950	7.9	86
35.94		94	800	9.2	86	89	850	9.2	86	77	910	8.6	86
32.38		105	725	9.3*	86	98	770	9.3*	86	86	880	9.3	86
28.41		119	635	9.3*	86	112	680	9.3*	86	98	780	9.3	86
25.07		135	560	9.3*	86	127	600	9.3*	86	111	695	9.4	86
22.22		153	485	9.1	85	144	525	9.2	86	126	615	9.4	86
18.97		179	395	8.7	85	168	440	9.1	85	147	520	9.4	86
22.89	34/6	148	590	10.*2	90	139	590	9.6*	90	122	590	8.4	90
20.99		161	590	11.1*	90	152	590	10.5*	90	133	590	9.1	90
18.42		184	590	12.7*	90	173	590	11.9*	90	152	590	10.4	90
17.45		194	590	13.4*	90	183	590	12.6*	90	160	590	11.0	90
15.28		222	530	13.8*	90	209	560	13.7*	90	183	590	12.6	90
13.76		247	480	13.9*	90	232	505	13.7*	90	203	585	13.9*	90
12.07		281	415	13.7*	89	265	445	13.8*	89	231	515	13.9*	90
10.65		319	365	13.7*	89	300	390	13.8*	89	262	455	14.0*	90
9.44		360	315	13.4*	89	338	345	13.8*	89	296	405	14.1*	89
8.06		421	260	13.0*	88	397	285	13.4*	89	347	340	13.9*	89

* P_{Mot_max} = 9.2 kW

2200 – 1400 min⁻¹

i _{tot}	i _s	n _e = 2200 min ⁻¹				n _e = 1700 min ⁻¹				n _e = 1400 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
256.47	40/1	8.5	1260	1.7	66	6.6	1270	1.4	64	5.4	1270	1.1	63
225.26		9.7	1230	1.9	67	7.5	1270	1.5	65	6.2	1270	1.3	64
214.00		10	1220	2.0	67	7.9	1270	1.6	66	6.5	1270	1.4	64
189.09		11	1200	2.2	67	8.9	1240	1.8	66	7.4	1270	1.5	65
161.60		13	1160	2.4	68	10	1220	2.0	67	8.6	1260	1.7	66
148.15		14	1140	2.6	69	11	1200	2.1	68	9.4	1240	1.8	67
130.00		16	1100	2.8	69	13	1170	2.4	68	10	1210	2.0	67
123.20		17	1080	2.9	69	13	1150	2.4	68	11	1200	2.1	68
107.83		20	1040	3.2	70	15	1110	2.7	69	12	1170	2.3	68
97.14		22	1010	3.4	70	17	1090	2.9	70	14	1140	2.5	69
85.22		25	970	3.7	71	19	1050	3.1	70	16	1100	2.7	69
75.20		29	920	4.0	71	22	1010	3.4	71	18	1070	3.0	70
66.67		32	880	4.3	71	25	970	3.6	71	20	1040	3.2	71
56.92		38	830	4.7	72	29	920	4.0	72	24	990	3.6	71
75.09	40/3	29	1100	4.0	84	22	1100	3.1	83	18	1100	2.6	82
71.33		30	1100	4.2	84	23	1100	3.3	83	19	1100	2.7	82
63.03		34	1100	4.8	84	26	1100	3.7	84	22	1100	3.1	83
53.87		40	1100	5.5	85	31	1100	4.3	84	25	1100	3.6	83
49.38		44	1080	5.9	85	34	1100	4.7	84	28	1100	3.9	84
43.33		50	1050	6.5	85	39	1100	5.3	85	32	1100	4.4	84
41.07		53	1030	6.8	85	41	1100	5.6	85	34	1100	4.7	84
35.94		61	980	7.3	86	47	1060	6.2	85	38	1100	5.3	85
32.38		67	960	8.0	86	52	1040	6.7	86	43	1090	5.8	85
28.41		77	920	8.7	86	59	990	7.2	86	49	1050	6.3	86
25.07		87	870	9.3*	86	67	960	7.9	86	55	1020	7.0	86
22.22		99	790	9.5*	86	76	920	8.5	86	63	980	7.5	86
18.97		115	680	9.6*	86	89	860	9.3*	87	73	930	8.3	86
22.89	34/6	96	710	7.9	90	74	705	6.1	89	61	705	5.1	89
20.99		104	710	8.7	90	80	705	6.7	90	66	705	5.5	89
18.42		119	720	10.0*	90	92	710	7.6	90	76	705	6.3	90
17.45		126	720	10.5*	90	97	710	8.0	90	80	710	6.7	90
15.28		143	720	12.0*	90	111	720	9.3*	90	91	710	7.6	90
13.76		159	725	13.5*	90	123	720	10.3*	90	101	710	8.4	90
12.07		182	650	13.8*	90	140	725	11.8*	90	115	720	9.7*	90
10.65		206	580	13.9*	90	159	725	13.4*	90	131	720	11.0*	91
9.44		233	520	14.1*	90	180	655	13.7*	90	148	725	12.4*	91
8.06		272	445	14.1*	90	210	575	14.1*	90	173	680	13.7*	91

* P_{Mot_max} = 9.2 kW

1100 – 700 min⁻¹

i _{tot}	i _s	n _e = 1100 min ⁻¹				n _e = 900 min ⁻¹				n _e = 700 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
256.47	40/1	4.2	1270	0.92	62	3.5	1270	0.77	61	2.7	1270	0.61	59
225.26		4.8	1270	1.0	63	3.9	1270	0.86	62	3.1	1270	0.69	60
214.00		5.1	1270	1.1	63	4.2	1270	0.90	62	3.2	1270	0.72	60
189.09		5.8	1270	1.2	64	4.7	1270	1.0	63	3.7	1270	0.81	61
161.60		6.8	1270	1.4	65	5.5	1270	1.2	64	4.3	1270	0.93	62
148.15		7.4	1270	1.5	65	6.0	1270	1.3	64	4.7	1270	1.0	63
130.00		8.4	1260	1.7	66	6.9	1270	1.4	65	5.3	1270	1.1	64
123.20		8.9	1250	1.8	67	7.3	1270	1.5	65	5.6	1270	1.2	64
107.83		10	1220	1.9	67	8.3	1260	1.7	66	6.4	1270	1.3	65
97.14		11	1200	2.1	68	9.2	1250	1.8	67	7.2	1270	1.5	66
85.22		12	1170	2.3	69	10	1220	2.0	68	8.2	1270	1.6	66
75.20		14	1140	2.5	69	11	1190	2.2	68	9.3	1250	1.8	67
66.67		16	1110	2.7	70	13	1160	2.4	69	10	1220	2.0	68
56.92		19	1060	3.0	71	15	1120	2.7	70	12	1190	2.2	69
75.09	40/3	14	1120	2.1	81	11	1130	1.8	81	9.3	1170	1.4	80
71.33		15	1120	2.2	82	12	1130	1.9	81	9.8	1120	1.4	80
63.03		17	1120	2.5	82	14	1120	2.1	81	11	1130	1.6	80
53.87		20	1120	2.9	83	16	1120	2.4	82	12	1120	1.9	81
49.38		22	1120	3.1	83	18	1120	2.6	82	14	1120	2.0	81
43.33		25	1130	3.6	84	20	1120	2.9	83	16	1120	2.3	82
41.07		26	1130	3.8	84	21	1120	3.1	83	17	1120	2.4	82
35.94		30	1150	4.4	84	25	1130	3.5	84	19	1120	2.8	83
32.38		33	1130	4.8	85	27	1130	3.9	84	21	1120	3.1	83
28.41		38	1110	5.3	85	31	1150	4.5	84	24	1130	3.5	84
25.07		43	1080	5.8	85	35	1120	5.0	85	27	1130	3.9	84
22.22		49	1050	6.4	86	40	1100	5.5	85	31	1150	4.5	85
18.97		57	1010	7.1	86	47	1060	6.1	86	36	1120	5.1	85
22.89	34/6	48	695	4.0	89	39	695	3.3	88	30	705	2.6	87
20.99		52	705	4.4	89	42	695	3.5	88	33	705	2.8	88
18.42		59	700	4.9	89	48	700	4.0	89	38	700	3.2	88
17.45		63	700	5.2	89	51	700	4.3	89	40	700	3.3	88
15.28		71	710	6.0	90	58	700	4.8	89	45	700	3.8	89
13.76		79	710	6.6	90	65	700	5.4	89	50	700	4.2	89
12.07		91	710	7.5	90	74	710	6.2	90	57	700	4.8	89
10.65		103	715	8.6	90	84	710	7.0	90	65	710	5.5	90
9.44		116	720	9.7*	91	95	715	7.9	90	74	710	6.1	90
8.06		136	725	11.4*	91	111	720	9.3*	91	86	710	7.2	90

* P_{Mot_max} = 9.2 kW

500 – 10 min⁻¹

i _{tot}	i _s	n _e = 500 min ⁻¹				n _e = 250 min ⁻¹				n _e = 10 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
256.47	40/1	1.9	1270	0.45	57	0.97	1270	0.24	55	0.03	1270	<0.05	55
225.26		2.2	1270	0.51	58	1.1	1270	0.27	55	0.04	1270	<0.05	55
214.00		2.3	1270	0.53	58	1.1	1270	0.28	55	0.04	1270	<0.05	55
189.09		2.6	1270	0.59	59	1.3	1270	0.32	55	0.05	1270	<0.05	55
161.60		3.0	1270	0.68	60	1.5	1270	0.37	56	0.06	1270	<0.05	55
148.15		3.3	1270	0.74	61	1.6	1270	0.40	57	0.06	1270	<0.05	55
130.00		3.8	1270	0.83	62	1.9	1270	0.45	57	0.07	1270	<0.05	55
123.20		4.0	1270	0.87	62	2.0	1270	0.47	58	0.08	1270	<0.05	55
107.83		4.6	1270	0.98	63	2.3	1270	0.53	59	0.09	1270	<0.05	55
97.14		5.1	1270	1.1	64	2.5	1270	0.58	59	0.10	1270	<0.05	55
85.22		5.8	1270	1.2	64	2.9	1270	0.65	60	0.11	1270	<0.05	55
75.20		6.6	1270	1.4	65	3.3	1270	0.73	61	0.13	1270	<0.05	55
66.67		7.4	1270	1.5	66	3.7	1270	0.81	62	0.14	1270	<0.05	55
56.92		8.7	1260	1.7	67	4.3	1270	0.93	63	0.17	1270	<0.05	55
75.09	40/3	6.6	1160	1.0	78	3.3	1120	0.52	76	0.13	1120	<0.05	76
71.33		7.0	1110	1.0	78	3.5	1060	0.51	76	0.14	1060	<0.05	76
63.03		7.9	1230	1.3	79	3.9	1200	0.65	76	0.15	1200	<0.05	76
53.87		9.2	1180	1.4	80	4.6	1240	0.78	77	0.18	1240	<0.05	76
49.38		10	1160	1.5	80	5.0	1240	0.85	77	0.20	1240	<0.05	76
43.33		11	1120	1.7	81	5.7	1240	0.96	78	0.23	1240	<0.05	76
41.07		12	1120	1.8	81	6.0	1240	1.0	78	0.24	1240	<0.05	76
35.94		13	1120	2.0	81	6.9	1240	1.1	79	0.27	1240	<0.05	76
32.38		15	1120	2.2	82	7.7	1240	1.3	79	0.30	1240	0.05	76
28.41		17	1120	2.5	82	8.7	1190	1.4	80	0.35	1190	0.06	76
25.07		19	1120	2.8	83	9.9	1170	1.5	80	0.39	1170	0.06	76
22.22		22	1130	3.2	83	11	1130	1.6	81	0.45	1130	0.07	76
18.97		26	1130	3.7	84	13	1120	1.9	81	0.52	1120	0.08	76
22.89	34/6	21	690	1.8	86	10	675	0.92	84	0.43	675	<0.05	83
20.99		23	725	2.1	87	11	740	1.1	85	0.47	740	<0.05	83
18.42		27	705	2.3	87	13	830	1.4	85	0.54	830	0.06	83
17.45		28	705	2.4	87	14	810	1.4	85	0.57	810	0.06	83
15.28		32	705	2.8	88	16	785	1.6	86	0.65	785	0.06	83
13.76		36	695	3.0	88	18	770	1.7	86	0.72	770	0.07	83
12.07		41	695	3.4	88	20	750	1.9	86	0.82	750	0.08	83
10.65		46	695	3.9	89	23	725	2.1	87	0.93	725	0.09	83
9.44		52	705	4.4	89	26	705	2.2	87	1.0	705	0.09	83
8.06		62	705	5.1	90	31	705	2.6	88	1.2	705	0.11	83

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3400 – 2800 min⁻¹

i _{tot}	i _s	n _e = 3400 min ⁻¹				n _e = 3200 min ⁻¹				n _e = 2800 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
288.00	40/1	11	2030	3.6	70	11	2070	3.4	70	9.7	2070	3.0	70
258.18		13	1990	3.9	71	12	2010	3.7	71	10	2070	3.4	70
222.40		15	1910	4.3	71	14	1950	4.1	71	12	2010	3.8	71
202.96		16	1850	4.6	71	15	1890	4.4	71	13	1970	4.0	71
180.00		18	1800	5.0	72	17	1830	4.8	72	15	1910	4.4	71
151.30		22	1690	5.5	72	21	1730	5.3	72	18	1800	4.9	72
139.05		24	1630	5.8	72	23	1680	5.6	72	20	1760	5.2	72
123.48		27	1570	6.3	72	25	1600	6.0	72	22	1690	5.6	72
110.40		30	1430	6.4	72	28	1540	6.4	73	25	1620	5.9	73
99.26		34	1260	6.3	72	32	1380	6.4	72	28	1550	6.3	73
86.15		39	1030	6.0	71	37	1150	6.2	72	32	1390	6.5	73
77.14		44	830	5.5	70	41	970	5.9	71	36	1220	6.4	72
64.00		53	500	4.3	65	50	620	4.8	68	43	960	6.2	72
91.20	38/3	37	1470	6.7	86	35	1470	6.3	86	30	1470	5.5	85
81.76		41	1470	7.5	86	39	1470	7.0	86	34	1470	6.2	86
70.43		48	1470	8.6	86	45	1470	8.1	86	39	1470	7.1	86
64.27		52	1470	9.4	86	49	1470	8.9	86	43	1470	7.8	86
57.00		59	1470	10.6	87	56	1470	10.0	87	49	1470	8.8	86
47.91		70	1470	12.6	87	66	1470	11.8	87	58	1470	10.4	87
44.03		77	1470	13.6	87	72	1470	12.8	87	63	1470	11.3	87
39.10		86	1300	13.6	87	81	1400	13.8	87	71	1470	12.6	87
34.96		97	1140	13.4	87	91	1240	13.6	87	80	1440	13.8	87
31.43		108	1000	13.1	87	101	1090	13.4	87	89	1290	13.8	87
27.28		124	810	12.3	86	117	910	12.9	87	102	1110	13.7	87
24.43		139	660	11.3	85	130	775	12.4	86	114	960	13.3	87
20.27		167	395	8.4	83	157	490	9.6	84	138	755	12.7	86
25.50	34/6	133	990	15.2*	91	125	990	14.3	91	109	990	12.6	91
21.43		158	990	18.1*	91	149	990	17.0*	91	130	990	14.9	91
19.70		172	990	20*	91	162	990	19*	91	142	990	16.2*	91
17.49		194	870	20*	90	182	930	20*	91	160	990	18.3*	91
15.64		217	760	19*	90	204	830	20*	90	179	960	20*	91
14.06		241	660	19*	90	227	725	19*	90	199	860	20*	91
12.21		278	540	17.6*	90	262	605	18.5*	90	229	730	19*	90
10.93		311	440	16.0*	89	292	510	17.4*	90	256	645	19*	90
9.07		374	255	11.5	87	352	325	13.5	89	308	500	18.0*	90
7.88		431	200	10.5	86	406	230	11.2	87	355	375	15.6*	89

* P_{Mot_max} = 15 kW

2200 – 1400 min⁻¹

i _{tot}	i _s	n _e = 2200 min ⁻¹				n _e = 1700 min ⁻¹				n _e = 1400 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
288.00	40/1	7.6	2210	2.6	69	5.9	2280	2.1	67	4.8	2280	1.7	66
258.18		8.5	2170	2.8	69	6.5	2260	2.3	68	5.4	2280	1.9	67
222.40		9.8	2130	3.2	70	7.6	2210	2.6	69	6.2	2280	2.2	68
202.96		10	2080	3.4	70	8.3	2190	2.8	69	6.8	2260	2.4	68
180.00		12	2020	3.7	71	9.4	2130	3.0	70	7.7	2210	2.6	69
151.30		14	1940	4.1	71	11	2060	3.4	71	9.2	2150	3.0	70
139.05		15	1880	4.4	72	12	2020	3.6	71	10	2100	3.2	70
123.48		17	1820	4.7	72	13	1960	4.0	71	11	2060	3.5	71
110.40		19	1770	5.1	72	15	1900	4.3	72	12	2000	3.7	71
99.26		22	1700	5.4	73	17	1840	4.6	72	14	1960	4.0	72
86.15		25	1620	5.9	73	19	1770	5.0	73	16	1880	4.4	72
77.14		28	1540	6.3	73	22	1700	5.4	73	18	1820	4.8	73
64.00		34	1360	6.7	73	26	1580	6.0	74	21	1700	5.3	73
91.20	38/3	24	1540	4.6	85	18	1520	3.5	84	15	1510	2.9	83
81.76		26	1600	5.3	85	20	1600	4.1	84	17	1600	3.4	84
70.43		31	1600	6.1	86	24	1600	4.8	85	19	1600	3.9	84
64.27		34	1600	6.7	86	26	1600	5.2	85	21	1600	4.3	85
57.00		38	1600	7.5	86	29	1600	5.8	86	24	1600	4.8	85
47.91		45	1600	8.9	87	35	1600	6.9	86	29	1600	5.7	86
44.03		49	1600	9.7	87	38	1600	7.5	86	31	1600	6.2	86
39.10		56	1600	10.8	87	43	1600	8.4	87	35	1600	7.0	86
34.96		62	1600	12.1	87	48	1600	9.4	87	40	1600	7.8	87
31.43		69	1600	13.4	88	54	1600	10.4	87	44	1600	8.6	87
27.28		80	1450	14.0	88	62	1600	11.9	88	51	1600	9.9	87
24.43		90	1310	14.1	88	69	1600	13.3	88	57	1600	11.0	87
20.27		108	1080	14.0	88	83	1420	14.2	88	69	1600	13.2	88
25.50	34/6	86	1240	12.4	91	66	1240	9.6	90	54	1240	7.9	90
21.43		102	1240	14.6	91	79	1240	11.4	91	65	1240	9.4	90
19.70		111	1240	15.9*	91	86	1240	12.3	91	71	1240	10.2	91
17.49		125	1240	17.9*	91	97	1240	13.9	91	80	1240	11.4	91
15.64		140	1230	20*	91	108	1240	15.5*	91	89	1240	12.8	91
14.06		156	1110	20*	91	120	1240	17.2*	91	99	1240	14.2	91
12.21		180	970	20*	91	139	1240	20*	91	114	1240	16.3*	91
10.93		201	870	20*	91	155	1130	20*	91	128	1240	18.2*	91
9.07		242	720	20*	91	187	950	20*	91	154	1140	20*	91
7.88		279	605	20*	90	215	830	21*	91	177	1010	21*	91

* P_{Mot_max} = 15 kW

1100 – 700 min⁻¹

i _{tot}	i _s	n _e = 1100 min ⁻¹				n _e = 900 min ⁻¹				n _e = 700 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
288.00	40/1	3.8	2400	1.5	65	3.1	2450	1.3	64	2.4	2480	1.0	63
258.18		4.2	2380	1.6	66	3.4	2430	1.4	65	2.7	2470	1.1	63
222.40		4.9	2350	1.8	67	4.0	2400	1.6	66	3.1	2450	1.3	64
202.96		5.4	2330	2.0	67	4.4	2380	1.7	66	3.4	2430	1.4	65
180.00		6.1	2280	2.2	68	5.0	2350	1.8	67	3.8	2400	1.5	65
151.30		7.2	2240	2.5	69	5.9	2310	2.1	68	4.6	2350	1.7	67
139.05		7.9	2190	2.6	69	6.4	2260	2.2	68	5.0	2330	1.8	67
123.48		8.9	2150	2.9	70	7.2	2240	2.5	69	5.6	2310	2.0	68
110.40		9.9	2110	3.1	70	8.1	2190	2.7	70	6.3	2280	2.2	68
99.26		11	2070	3.4	71	9.0	2150	2.9	70	7.0	2240	2.4	69
86.15		12	2000	3.7	72	10	2090	3.2	71	8.1	2190	2.7	70
77.14		14	1940	4.0	72	11	2040	3.5	71	9.0	2150	2.9	70
64.00		17	1840	4.5	73	14	1960	4.0	72	10	2070	3.3	71
91.20	38/3	12	1490	2.3	83	9.8	1480	1.9	82	7.6	1460	1.4	81
81.76		13	1760	3.0	83	11	1760	2.5	83	8.5	1760	1.9	82
70.43		15	1760	3.4	84	12	1760	2.8	83	9.9	1760	2.2	82
64.27		17	1760	3.8	84	14	1760	3.1	84	10	1760	2.4	83
57.00		19	1760	4.2	85	15	1760	3.5	84	12	1760	2.7	83
47.91		22	1760	5.0	85	18	1760	4.1	85	14	1760	3.2	84
44.03		24	1760	5.4	85	20	1760	4.4	85	15	1760	3.5	84
39.10		28	1760	6.0	86	23	1760	5.0	85	17	1760	3.9	85
34.96		31	1760	6.7	86	25	1760	5.5	86	20	1760	4.3	85
31.43		34	1760	7.5	86	28	1760	6.1	86	22	1760	4.8	85
27.28		40	1760	8.6	87	32	1760	7.0	86	25	1760	5.5	86
24.43		45	1760	9.5	87	36	1760	7.8	87	28	1760	6.1	86
20.27		54	1760	11.4	88	44	1760	9.4	87	34	1760	7.3	87
25.50	34/6	43	1340	6.7	90	35	1340	5.6	89	27	1340	4.3	89
21.43		51	1340	8.0	90	41	1340	6.6	90	32	1340	5.1	89
19.70		55	1340	8.7	90	45	1340	7.1	90	35	1340	5.6	89
17.49		62	1340	9.8	91	51	1340	8.0	90	40	1340	6.3	90
15.64		70	1340	10.9	91	57	1340	8.9	90	44	1340	7.0	90
14.06		78	1340	12.1	91	64	1340	9.9	91	49	1340	7.8	90
12.21		90	1340	13.9	91	73	1340	11.4	91	57	1340	8.9	90
10.93		100	1340	15.5*	91	82	1340	12.7	91	64	1340	9.9	91
9.07		121	1340	19*	91	99	1340	15.2*	91	77	1340	11.9	91
7.88		139	1260	20*	92	114	1340	17.5*	92	88	1340	13.7	91

* P_{Mot_max} = 15 kW

500 – 10 min⁻¹

i _{tot}	i _s	n _e = 500 min ⁻¹				n _e = 250 min ⁻¹				n _e = 10 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
288.00	40/1	1.7	2500	0.75	61	0.86	2500	0.39	58	0.03	2500	<0.05	58
258.18		1.9	2500	0.83	61	0.96	2500	0.44	58	0.03	2500	<0.05	58
222.40		2.2	2500	0.95	62	1.1	2500	0.50	59	0.04	2500	<0.05	58
202.96		2.4	2480	1.0	63	1.2	2500	0.55	59	0.04	2500	<0.05	58
180.00		2.7	2480	1.1	64	1.3	2500	0.61	60	0.05	2500	<0.05	58
151.30		3.3	2430	1.3	65	1.6	2500	0.71	61	0.06	2500	<0.05	58
139.05		3.5	2430	1.4	65	1.7	2500	0.77	61	0.07	2500	<0.05	58
123.48		4.0	2400	1.5	66	2.0	2500	0.86	62	0.08	2500	<0.05	58
110.40		4.5	2380	1.7	67	2.2	2500	0.95	63	0.09	2500	<0.05	58
99.26		5.0	2330	1.8	67	2.5	2470	1.0	63	0.10	2470	<0.05	58
86.15		5.8	2310	2.1	68	2.9	2450	1.2	64	0.11	2450	0.05	59
77.14		6.4	2260	2.2	69	3.2	2430	1.3	65	0.12	2430	0.06	59
64.00		7.8	2220	2.6	70	3.9	2400	1.5	66	0.15	2400	0.07	59
91.20	38/3	5.4	1450	1.0	80	2.7	1390	0.51	78	0.10	1390	<0.05	78
81.76		6.1	1960	1.6	81	3.0	1880	0.77	78	0.12	1880	<0.05	78
70.43		7.0	1980	1.8	81	3.5	1980	0.93	79	0.14	1980	<0.05	78
64.27		7.7	1980	2.0	82	3.8	1980	1.0	79	0.15	1980	<0.05	78
57.00		8.7	1980	2.2	82	4.3	1980	1.1	80	0.17	1980	<0.05	78
47.91		10	1980	2.6	83	5.2	1980	1.3	80	0.2	1980	0.06	78
44.03		11	1980	2.8	83	5.6	1980	1.5	81	0.22	1980	0.06	78
39.10		12	1980	3.2	84	6.3	1980	1.6	81	0.25	1980	0.07	79
34.96		14	1980	3.5	84	7.1	1980	1.8	82	0.28	1980	0.08	79
31.43		15	1980	3.9	84	7.9	1980	2.0	82	0.31	1980	0.08	79
27.28		18	1980	4.5	85	9.1	1980	2.3	83	0.36	1980	0.10	79
24.43		20	1980	5.0	85	10	1980	2.6	83	0.40	1980	0.11	79
20.27		24	1980	5.9	86	12	1980	3.1	84	0.49	1980	0.13	79
25.50	34/6	19	1430	3.3	88	9.8	1390	1.7	86	0.39	1390	0.07	85
21.43		23	1420	3.9	88	11	1510	2.1	87	0.46	1510	0.09	85
19.70		25	1410	4.2	89	12	1570	2.4	87	0.50	1570	0.10	85
17.49		28	1390	4.7	89	14	1570	2.7	87	0.57	1570	0.11	85
15.64		31	1390	5.2	89	15	1540	2.9	87	0.63	1540	0.12	85
14.06		35	1390	5.8	90	17	1510	3.2	88	0.71	1510	0.13	85
12.21		40	1390	6.6	90	20	1460	3.5	88	0.81	1460	0.15	85
10.93		45	1390	7.4	90	22	1430	3.9	89	0.91	1430	0.16	85
9.07		55	1410	9.0	91	27	1390	4.5	89	1.1	1390	0.19	85
7.88		63	1410	10.3	91	31	1390	5.2	89	1.2	1390	0.22	85

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3400 – 2800 min⁻¹

i _{tot}	i _s	n _e = 3400 min ⁻¹				n _e = 3200 min ⁻¹				n _e = 2800 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
286.40	40/1	11	3520	6.0	73	11	3590	5.8	73	9.7	3700	5.2	72
262.22		12	3450	6.4	73	12	3520	6.2	73	10	3630	5.6	73
231.67		14	3310	6.9	73	13	3380	6.7	73	12	3520	6.1	73
196.52		17	3120	7.7	74	16	3210	7.4	74	14	3350	6.8	73
180.95		18	3030	8.1	74	17	3120	7.8	74	15	3250	7.2	74
161.74		21	2910	8.7	74	19	2970	8.3	74	17	3120	7.7	74
145.60		23	2760	9.1	74	21	2850	8.9	74	19	3000	8.2	74
131.85		25	2660	9.7	74	24	2740	9.4	74	21	2880	8.6	74
116.92		29	2320	9.6	74	27	2550	9.8	74	23	2740	9.2	74
105.71		32	1980	9.1	73	30	2210	9.5	74	26	2630	9.8	74
89.60		37	1280	7.3	70	35	1670	8.6	72	31	2210	9.8	74
78.26		43	920	6.2	67	40	1040	6.5	69	35	1770	9.1	73
65.45		51	675	5.7	64	48	775	6.0	66	42	1030	6.7	69
80.85	37/3	42	3150	15.7	88	39	3150	14.8	88	34	3150	13.0	88
71.43		47	3090	17.4	88	44	3150	16.8	88	39	3150	14.7	88
60.59		56	2910	19	88	52	2970	19	88	46	3120	17.1	88
55.79		60	2820	20	89	57	2880	20	89	50	3030	18.0	88
49.87		68	2710	22	89	64	2760	21	89	56	2910	19	89
44.89		75	2430	22	89	71	2630	22	89	62	2790	21	89
40.65		83	2170	22	88	78	2350	22	89	68	2680	22	89
36.05		94	1830	21	88	88	2020	21	88	77	2400	22	89
32.60		104	1560	19	88	98	1760	21	88	85	2150	22	89
27.63		123	1010	15.2	86	115	1320	18.4	87	101	1740	21	88
24.13		140	725	12.7	84	132	820	13.4	85	116	1390	19	88
26.39	35/6	128	1750	26*	92	121	1750	24*	92	106	1750	21	92
23.59		144	1750	29*	92	135	1750	27*	92	118	1750	24*	92
21.23		160	1750	32*	91	150	1750	30*	92	131	1750	26*	92
19.23		176	1550	31*	91	166	1680	32*	91	145	1750	29*	92
17.05		199	1320	30*	91	187	1450	31*	91	164	1730	33*	92
15.42		220	1110	28*	91	207	1260	30*	91	181	1540	32*	91
13.07		260	725	22	90	244	940	27*	91	214	1240	31*	91
11.41		297	515	18.1	89	280	585	19	90	245	1000	28*	91
9.55		356	375	16.0	87	335	435	17.3	88	293	580	20	90
8.26		411	290	14.6	86	387	335	15.6	87	338	455	18.1	89

* P_{Mot_max} = 22 kW

2200 – 1400 min⁻¹

i _{tot}	i _s	n _e = 2200 min ⁻¹				n _e = 1700 min ⁻¹				n _e = 1400 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
286.40	40/1	7.6	3920	4.4	72	5.9	4000	3.5	70	4.8	4000	3.0	69
262.22		8.3	3840	4.7	72	6.4	4000	3.8	71	5.3	4000	3.2	70
231.67		9.4	3770	5.2	72	7.3	3960	4.3	72	6.0	4000	3.6	71
196.52		11	3580	5.8	73	8.6	3840	4.8	72	7.1	4000	4.2	71
180.95		12	3510	6.1	73	9.3	3770	5.1	73	7.7	3920	4.4	72
161.74		13	3410	6.6	74	10	3650	5.5	73	8.6	3840	4.8	72
145.60		15	3270	7.0	74	11	3550	5.9	73	9.6	3730	5.2	73
131.85		16	3170	7.5	74	12	3440	6.3	74	10	3650	5.6	73
116.92		18	3020	8.0	74	14	3340	6.9	74	11	3510	6.0	74
105.71		20	2930	8.6	75	16	3210	7.3	74	13	3440	6.5	74
89.60		24	2730	9.4	75	18	3020	8.0	75	15	3240	7.1	74
78.26		28	2540	10.0	75	21	2870	8.7	75	17	3080	7.7	75
65.45		33	2120	10.0	75	25	2650	9.6	75	21	2900	8.6	75
80.85	37/3	27	3300	10.8	87	21	3270	8.3	87	17	3230	6.8	86
71.43		30	3300	12.1	88	23	3300	9.4	87	19	3300	7.8	87
60.59		36	3300	14.3	88	28	3300	11.1	88	23	3300	9.2	87
55.79		39	3270	15.3	88	30	3300	12.0	88	25	3300	9.9	87
49.87		44	3170	16.6	88	34	3300	13.4	88	28	3300	11.1	88
44.89		49	3050	17.7	89	37	3300	14.8	88	31	3300	12.3	88
40.65		54	2950	19	89	41	3230	16.0	88	34	3300	13.5	88
36.05		61	2810	20	89	47	3110	17.3	89	38	3300	15.2	88
32.60		67	2700	21	89	52	2980	18.3	89	42	3200	16.3	89
27.63		79	2390	22	89	61	2810	20	89	50	3010	18.0	89
24.13		91	2060	22	89	70	2670	22	89	58	2870	20	89
26.39	35/6	83	2550	24*	92	64	2600	19	92	53	2600	15.8	92
23.59		93	2450	26*	92	72	2600	21	92	59	2600	17.6	92
21.23		103	2380	28*	92	80	2570	23*	92	65	2600	20	92
19.23		114	2280	30*	92	88	2500	25*	92	72	2600	21	92
17.05		129	2170	32*	92	99	2400	27*	92	82	2570	24*	92
15.42		142	2040	33*	92	110	2300	29*	92	90	2470	25*	92
13.07		168	1720	33*	92	130	2170	32*	92	107	2330	28*	92
11.41		192	1480	33*	92	148	2000	34*	92	122	2210	31*	92
9.55		230	1200	32*	91	178	1670	34*	92	146	2040	34*	92
8.26		266	980	30*	91	205	1440	34*	92	169	1770	34*	92

* P_{Mot_max} = 22 kW

1100 – 700 min⁻¹

i _{tot}	i _s	n _e = 1100 min ⁻¹				n _e = 900 min ⁻¹				n _e = 700 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
286.40	40/1	3.8	4200	2.5	68	3.1	4200	2.1	67	2.4	4200	1.6	66
262.22		4.1	4200	2.7	69	3.4	4200	2.2	68	2.6	4200	1.8	66
231.67		4.7	4200	3.0	70	3.8	4200	2.5	68	3.0	4200	2.0	67
196.52		5.5	4160	3.5	70	4.5	4200	2.9	69	3.5	4200	2.3	68
180.95		6.0	4120	3.7	71	4.9	4200	3.1	70	3.8	4200	2.5	69
161.74		6.8	4030	4.0	71	5.5	4160	3.4	71	4.3	4200	2.8	69
145.60		7.5	3950	4.3	72	6.1	4080	3.7	71	4.8	4200	3.0	70
131.85		8.3	3880	4.7	72	6.8	4030	4.0	72	5.3	4200	3.3	70
116.92		9.4	3760	5.1	73	7.6	3910	4.4	72	5.9	4120	3.6	71
105.71		10	3650	5.4	73	8.5	3840	4.7	73	6.6	4030	3.9	72
89.60		12	3500	6.1	74	10	3690	5.3	73	7.8	3910	4.4	72
78.26		14	3370	6.7	74	11	3580	5.8	74	8.9	3800	4.9	73
65.45		16	3170	7.4	75	13	3400	6.6	75	10	3650	5.5	74
80.85	37/3	13	3230	5.4	86	11	3200	4.4	85	8.6	3170	3.4	84
71.43		15	3600	6.7	86	12	3600	5.5	86	9.7	3600	4.4	85
60.59		18	3600	7.9	87	14	3600	6.5	86	11	3600	5.1	85
55.79		19	3600	8.6	87	16	3600	7.0	86	12	3600	5.5	86
49.87		22	3600	9.5	87	18	3600	7.8	87	14	3600	6.2	86
44.89		24	3600	10.6	88	20	3600	8.7	87	15	3600	6.8	86
40.65		27	3600	11.6	88	22	3600	9.6	87	17	3600	7.5	87
36.05		30	3530	12.8	88	24	3600	10.7	88	19	3600	8.4	87
32.60		33	3420	13.7	88	27	3600	11.8	88	21	3600	9.3	87
27.63		39	3260	15.4	89	32	3460	13.4	88	25	3600	10.9	88
24.13		45	3130	16.8	89	37	3320	14.7	89	29	3560	12.3	88
26.39	35/6	41	2650	12.7	91	34	2620	10.3	91	26	2620	8.0	91
23.59		46	2650	14.1	92	38	2650	11.6	91	29	2620	9.0	91
21.23		51	2650	15.7	92	42	2650	12.9	91	32	2620	9.9	91
19.23		57	2650	17.3	92	46	2650	14.2	92	36	2620	11.0	91
17.05		64	2670	20	92	52	2650	16.0	92	41	2650	12.5	91
15.42		71	2670	22*	92	58	2650	17.6	92	45	2650	13.8	92
13.07		84	2540	24*	92	68	2670	21	92	53	2650	16.2	92
11.41		96	2420	26*	92	78	2590	23*	92	61	2650	18.5	92
9.55		115	2280	30*	92	94	2440	26*	93	73	2650	22	92
8.26		133	2140	32*	92	108	2320	29*	93	84	2540	24*	93

* P_{Mot_max} = 22 kW

500 – 10 min⁻¹

i _{tot}	i _s	n _e = 500 min ⁻¹				n _e = 250 min ⁻¹				n _e = 10 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
286.40	40/1	1.7	4200	1.2	64	0.87	4200	0.64	60	0.03	4200	<0.05	60
262.22		1.9	4200	1.3	64	0.95	4200	0.69	61	0.03	4200	<0.05	60
231.67		2.1	4200	1.5	65	1	4200	0.77	61	0.04	4200	<0.05	60
196.52		2.5	4200	1.7	66	1.2	4200	0.90	62	0.05	4200	<0.05	60
180.95		2.7	4200	1.8	67	1.3	4200	0.97	63	0.05	4200	<0.05	60
161.74		3	4200	2.0	67	1.5	4200	1.1	63	0.06	4200	<0.05	60
145.60		3.4	4200	2.2	68	1.7	4200	1.2	64	0.06	4200	0.05	60
131.85		3.7	4200	2.4	69	1.8	4200	1.3	65	0.07	4200	0.06	60
116.92		4.2	4200	2.7	69	2.1	4200	1.4	65	0.08	4200	0.06	60
105.71		4.7	4200	3.0	70	2.3	4200	1.6	66	0.09	4200	0.07	60
89.60		5.5	4160	3.4	71	2.7	4200	1.8	67	0.11	4200	0.08	60
78.26		6.3	4080	3.8	72	3.1	4200	2.1	68	0.12	4200	0.09	60
65.45		7.6	3910	4.3	73	3.8	4200	2.4	69	0.15	4200	0.11	60
80.85	37/3	6.1	3110	2.4	83	3	3010	1.2	81	0.12	3010	<0.05	80
71.43		6.9	4200	3.7	84	3.4	4160	1.9	82	0.13	4160	0.08	80
60.59		8.2	4200	4.3	84	4.1	4080	2.1	82	0.16	4080	0.09	80
55.79		8.9	4200	4.7	85	4.4	4200	2.4	82	0.17	4200	0.10	80
49.87		10	4200	5.2	85	5	4200	2.7	83	0.20	4200	0.11	80
44.89		11	4160	5.7	86	5.5	4200	2.9	83	0.22	4200	0.12	80
40.65		12	4120	6.2	86	6.1	4200	3.2	84	0.24	4200	0.13	80
36.05		13	4080	6.9	86	6.9	4200	3.6	84	0.27	4200	0.15	80
32.60		15	3990	7.4	87	7.6	4200	4.0	84	0.30	4200	0.17	80
27.63		18	3910	8.5	87	9	4200	4.7	85	0.36	4200	0.20	80
24.13		20	3800	9.4	87	10	4200	5.3	85	0.41	4200	0.23	80
26.39	35/6	18	2590	5.7	90	9.4	2540	2.9	88	0.37	2540	0.12	86
23.59		21	2590	6.4	90	10	2540	3.2	88	0.42	2540	0.13	86
21.23		23	2590	7.1	90	11	2570	3.6	89	0.47	2570	0.15	86
19.23		26	2620	7.9	91	13	2570	3.9	89	0.52	2570	0.16	86
17.05		29	2620	8.9	91	14	2570	4.4	89	0.58	2570	0.18	86
15.42		32	2620	9.8	91	16	2570	4.9	90	0.64	2570	0.20	86
13.07		38	2650	11.6	91	19	2590	5.8	90	0.76	2590	0.24	86
11.41		43	2650	13.3	92	21	2590	6.6	90	0.87	2590	0.27	87
9.55		52	2650	15.8	92	26	2620	7.9	91	1.0	2620	0.33	87
8.26		60	2650	18.2	92	30	2620	9.1	91	1.2	2620	0.38	87

11.18 Technical data S..37p

3400 – 2800 min⁻¹

i _{tot}	i _s	n _e = 3400 min ⁻¹				n _e = 3200 min ⁻¹				n _e = 2800 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
157.43	38/1	21	94	0.31	69	20	94	0.29	69	17	94	0.26	68
144.40		23	94	0.34	69	22	94	0.32	69	19	94	0.28	69
122.94		27	89	0.37	69	26	91	0.36	69	22	95	0.33	69
106.00		32	84	0.41	69	30	86	0.39	69	26	91	0.36	70
98.80		34	81	0.42	69	32	83	0.41	69	28	88	0.38	70
86.36		39	77	0.46	69	37	79	0.44	69	32	83	0.41	70
80.96		41	75	0.48	69	39	77	0.46	69	34	81	0.42	70
71.44		47	71	0.51	69	44	73	0.49	69	39	77	0.45	70
63.33		53	62	0.51	68	50	69	0.53	69	44	73	0.49	70
53.83		63	45	0.45	66	59	53	0.49	67	52	69	0.54	70
55.93	27/2	60	95	0.72	84	57	97	0.69	84	50	103	0.64	84
51.30		66	91	0.75	84	62	94	0.73	84	54	99	0.67	84
43.68		77	86	0.83	84	73	88	0.80	84	64	93	0.74	85
37.66		90	81	0.91	84	84	83	0.87	84	74	87	0.80	85
35.10		96	78	0.94	84	91	80	0.90	84	79	85	0.84	85
30.68		110	73	1.0	84	104	76	0.98	84	91	80	0.90	85
28.76		118	72	1.1	84	111	73	1.0	84	97	78	0.94	85
25.38		133	62	1.0	84	126	69	1.1	84	110	74	1.0	85
22.50		151	50	0.96	83	142	58	1.0	84	124	71	1.1	85
19.13		177	37	0.85	81	167	42	0.90	82	146	58	1.1	84
19.89	24/5	170	69	1.4	91	160	70	1.3	91	140	72	1.2	91
18.24		186	67	1.4	91	175	68	1.4	91	153	70	1.2	91
15.53		218	57	1.4	91	206	59	1.4	91	180	68	1.4	91
13.39		253	53	1.6*	91	238	57	1.6*	91	209	60	1.4	91
12.48		272	53	1.7*	91	256	55	1.6*	91	224	58	1.5	91
10.91		311	44	1.6*	91	293	49	1.7*	91	256	58	1.7*	91
10.23		332	40	1.5	90	312	44	1.6*	91	273	54	1.7*	91
9.02		376	34	1.5	90	354	37	1.5	90	310	46	1.6*	91
8.00		425	26	1.3	89	400	32	1.5	90	350	39	1.6*	90
6.80		500	20	1.2	88	470	23	1.3	89	411	31	1.5	90
6.33	19/5	537	28	1.7*	90	505	31	1.8*	91	442	38	1.9*	91
5.38		631	22	1.6*	90	594	24	1.7*	90	520	31	1.9*	91
4.86		699	19	1.6*	89	658	21	1.6*	90	576	27	1.8*	91
3.97		856	14	1.4	88	806	16	1.5	89	705	20	1.6*	90

* P_{Mot_max} = 1.5 kW

2200 – 1400 min⁻¹

i _{tot}	i _s	n _e = 2200 min ⁻¹				n _e = 1700 min ⁻¹				n _e = 1400 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
157.43	38/1	13	94	0.20	67	10	94	0.16	66	8.8	94	0.14	64
144.40		15	95	0.22	68	11	95	0.18	67	9.6	95	0.15	65
122.94		17	96	0.26	69	13	96	0.21	68	11	96	0.17	67
106.00		20	97	0.30	69	16	97	0.24	69	13	97	0.20	68
98.80		22	97	0.32	70	17	97	0.25	69	14	97	0.21	68
86.36		25	92	0.35	70	19	98	0.29	70	16	98	0.24	69
80.96		27	90	0.37	70	20	99	0.31	70	17	99	0.26	70
71.44		30	85	0.39	70	23	95	0.34	70	19	100	0.29	70
63.33		34	81	0.42	70	26	91	0.36	71	22	98	0.32	71
53.83		40	76	0.46	70	31	85	0.40	71	26	92	0.35	71
55.93	27/2	39	104	0.51	84	30	104	0.40	83	25	104	0.33	82
51.30		42	104	0.55	84	33	104	0.43	84	27	104	0.36	83
43.68		50	103	0.64	85	38	105	0.51	84	32	105	0.42	84
37.66		58	97	0.70	85	45	105	0.59	85	37	105	0.49	84
35.10		62	94	0.73	85	48	105	0.63	85	39	105	0.52	84
30.68		71	89	0.79	85	55	99	0.68	85	45	105	0.59	85
28.76		76	87	0.82	85	59	97	0.71	85	48	105	0.63	85
25.38		86	82	0.88	85	66	92	0.76	85	55	100	0.68	85
22.50		97	78	0.94	85	75	87	0.81	85	62	95	0.73	85
19.13		115	73	1.0	85	88	82	0.89	85	73	89	0.80	86
19.89	24/5	110	74	0.94	91	85	77	0.76	91	70	78	0.64	90
18.24		120	73	1.0	91	93	76	0.82	91	76	78	0.69	90
15.53		141	72	1.2	91	109	74	0.93	91	90	76	0.79	91
13.39		164	70	1.3	91	126	74	1.1	91	104	75	0.90	91
12.48		176	68	1.4	91	136	72	1.1	91	112	74	0.95	91
10.91		201	63	1.5	91	155	70	1.2	91	128	73	1.1	91
10.23		215	59	1.5	91	166	67	1.3	91	136	73	1.1	91
9.02		243	55	1.5	91	188	64	1.4	92	155	70	1.2	92
8.00		275	50	1.6*	91	212	56	1.4	91	175	66	1.3	92
6.80		323	45	1.7*	91	250	52	1.5	91	205	60	1.4	92
6.33	19/5	347	44	1.7*	92	268	49	1.5	92	221	56	1.4	92
5.38		408	40	1.9*	92	315	47	1.7*	92	260	51	1.5	92
4.86		452	36	1.9*	92	349	43	1.7*	92	288	48	1.6*	92
3.97		554	31	2.0*	91	428	40	1.9*	92	352	44	1.8*	92

* P_{Mot_max} = 1.5 kW

1100 – 700 min⁻¹

i _{tot}	i _s	n _e = 1100 min ⁻¹				n _e = 900 min ⁻¹				n _e = 700 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
157.43	38/1	6.9	94	0.11	62	5.7	95	0.09	60	4.4	95	0.08	58
144.40		7.6	95	0.12	63	6.2	96	0.10	61	4.8	96	0.08	59
122.94		8.9	96	0.14	65	7.3	97	0.12	63	5.6	97	0.10	61
106.00		10	97	0.16	66	8.4	98	0.13	65	6.6	98	0.11	62
98.80		11	97	0.17	67	9.1	98	0.14	65	7.0	98	0.12	63
86.36		12	98	0.19	68	10	99	0.16	67	8.1	99	0.13	65
80.96		13	99	0.21	68	11	99	0.17	67	8.6	99	0.14	65
71.44		15	100	0.23	69	12	100	0.19	68	9.7	100	0.15	67
63.33		17	100	0.26	70	14	101	0.22	69	11	101	0.17	68
53.83		20	101	0.30	71	16	102	0.25	70	13	102	0.20	69
55.93	27/2	19	104	0.26	81	16	104	0.22	80	12	104	0.17	78
51.30		21	104	0.29	82	17	104	0.24	81	13	104	0.19	79
43.68		25	105	0.34	83	20	105	0.28	82	16	105	0.22	80
37.66		29	105	0.39	83	23	105	0.32	82	18	105	0.25	81
35.10		31	105	0.41	84	25	105	0.34	83	19	105	0.27	82
30.68		35	105	0.47	84	29	105	0.39	84	22	105	0.30	82
28.76		38	105	0.50	84	31	105	0.41	84	24	105	0.32	83
25.38		43	105	0.56	85	35	105	0.46	84	27	105	0.36	83
22.50		48	105	0.63	85	40	105	0.52	85	31	105	0.41	84
19.13		57	98	0.69	86	47	105	0.61	85	36	105	0.47	85
19.89	24/5	55	80	0.52	90	45	81	0.43	89	35	81	0.34	88
18.24		60	80	0.56	90	49	81	0.47	89	38	82	0.37	88
15.53		70	78	0.64	90	57	80	0.54	90	45	81	0.43	89
13.39		82	78	0.74	91	67	78	0.61	90	52	80	0.49	90
12.48		88	76	0.77	91	72	78	0.65	90	56	80	0.52	90
10.91		100	75	0.87	91	82	78	0.74	91	64	79	0.59	90
10.23		107	75	0.93	91	87	76	0.77	91	68	78	0.62	90
9.02		121	73	1.0	91	99	75	0.86	91	77	77	0.69	91
8.00		137	72	1.1	92	112	74	0.95	91	87	77	0.78	91
6.80		161	70	1.3	92	132	72	1.1	92	102	75	0.88	91
6.33	19/5	173	65	1.3	92	142	68	1.1	92	110	69	0.87	92
5.38		204	63	1.5	92	167	66	1.3	92	130	68	1.0	92
4.86		226	61	1.6*	92	185	63	1.3	92	144	68	1.1	92
3.97		277	56	1.8*	93	226	58	1.5	93	176	61	1.2	92

* P_{Mot_max} = 1.5 kW

500 – 10 min⁻¹

i _{tot}	i _s	n _e = 500 min ⁻¹				n _e = 250 min ⁻¹				n _e = 10 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
157.43	38/1	3.1	97	0.06	54	1.5	98	<0.05	47	0.06	105	<0.05	48
144.40		3.4	97	0.06	55	1.7	98	<0.05	48	0.06	105	<0.05	48
122.94		4.0	98	0.07	57	2.0	99	<0.05	49	0.08	105	<0.05	48
106.00		4.7	99	0.08	59	2.3	100	<0.05	50	0.09	105	<0.05	48
98.80		5.0	100	0.09	60	2.5	100	0.05	51	0.10	105	<0.05	48
86.36		5.7	101	0.10	61	2.8	101	0.06	53	0.11	105	<0.05	49
80.96		6.1	101	0.11	62	3.0	101	0.06	54	0.12	105	<0.05	49
71.44		6.9	102	0.12	64	3.4	102	0.07	56	0.13	105	<0.05	49
63.33		7.8	102	0.13	65	3.9	102	0.07	57	0.15	105	<0.05	49
53.83		9.2	102	0.15	67	4.6	102	0.08	60	0.18	105	<0.05	49
55.93	27/2	8.9	104	0.13	75	4.4	104	0.07	68	0.17	105	<0.05	68
51.30		9.7	104	0.14	76	4.8	104	0.08	69	0.19	105	<0.05	68
43.68		11	105	0.16	77	5.7	105	0.09	71	0.22	105	<0.05	68
37.66		13	105	0.19	79	6.6	105	0.10	72	0.26	105	<0.05	69
35.10		14	105	0.20	79	7.1	105	0.11	73	0.28	105	<0.05	69
30.68		16	105	0.22	8	8.1	105	0.12	74	0.32	105	<0.05	69
28.76		17	105	0.24	81	8.6	105	0.13	75	0.34	105	<0.05	69
25.38		19	105	0.27	82	9.8	105	0.14	76	0.39	105	<0.05	69
22.50		22	105	0.30	83	11	105	0.16	78	0.44	105	<0.05	69
19.13		26	105	0.34	83	13	105	0.18	79	0.52	105	<0.05	69
19.89	24/5	25	81	0.25	86	12	82	0.13	81	0.50	83	<0.05	80
18.24		27	82	0.27	87	13	82	0.14	82	0.54	83	<0.05	80
15.53		32	82	0.32	88	16	83	0.17	83	0.64	83	<0.05	80
13.39		37	82	0.36	88	18	83	0.19	84	0.74	83	<0.05	80
12.48		40	81	0.38	89	20	83	0.21	85	0.80	83	<0.05	80
10.91		45	81	0.44	89	22	83	0.23	86	0.91	83	<0.05	80
10.23		48	81	0.46	90	24	83	0.25	86	0.97	83	<0.05	81
9.02		55	80	0.52	90	27	82	0.27	87	1.1	82	<0.05	81
8.00		62	79	0.57	90	31	82	0.31	88	1.2	82	<0.05	81
6.80		73	78	0.66	91	36	82	0.36	89	1.4	82	<0.05	81
6.33	19/5	78	69	0.63	91	39	69	0.32	89	1.5	69	<0.05	81
5.38		92	68	0.72	92	46	68	0.37	90	1.8	68	<0.05	81
4.86		102	68	0.80	92	51	68	0.41	90	2.0	68	<0.05	81
3.97		125	68	0.97	92	62	68	0.49	91	2.5	68	<0.05	81

11.19 Technical data S..47p

3400 – 2800 min⁻¹

i _{tot}	i _s	n _e = 3400 min ⁻¹				n _e = 3200 min ⁻¹				n _e = 2800 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
201.00	42/1	16	192	0.49	70	15	192	0.46	70	13	192	0.40	70
184.80		18	193	0.53	70	17	193	0.50	70	15	193	0.44	70
158.12		21	188	0.60	71	20	192	0.58	71	17	194	0.51	71
137.05		24	179	0.66	71	23	183	0.63	71	20	191	0.58	71
128.10		26	175	0.69	71	24	179	0.66	71	21	187	0.60	71
110.73		30	167	0.76	71	28	170	0.72	71	25	178	0.66	71
94.08		36	126	0.69	69	34	139	0.71	70	29	168	0.73	71
84.00		40	106	0.66	68	38	118	0.68	69	33	147	0.73	71
71.75		47	83	0.62	66	44	93	0.65	67	39	118	0.69	69
67.20		50	79	0.64	66	47	85	0.64	67	41	108	0.68	69
56.61		60	60	0.60	63	56	69	0.63	65	49	90	0.69	68
69.39	29/2	48	179	1.1	85	46	183	1.0	85	40	191	0.95	85
63.80		53	174	1.1	85	50	177	1.1	85	43	186	1.0	85
54.59		62	165	1.3	85	58	168	1.2	85	51	176	1.1	85
47.32		71	157	1.4	85	67	160	1.3	85	59	168	1.2	85
44.22		76	154	1.5	85	72	157	1.4	85	63	164	1.3	85
38.23		88	131	1.4	85	83	142	1.5	85	73	156	1.4	85
32.48		104	103	1.3	84	98	114	1.4	84	86	139	1.5	85
29.00		117	87	1.3	83	110	96	1.3	84	96	121	1.4	85
24.77		137	68	1.2	82	129	76	1.2	82	113	96	1.4	84
23.20		146	61	1.2	81	137	69	1.2	82	120	88	1.3	84
19.54		174	45	1.0	79	163	53	1.1	80	143	69	1.3	82
20.33	27/5	167	117	2.2	91	157	127	2.3*	91	137	141	2.2	92
17.62		192	98	2.2	91	181	107	2.2	91	158	127	2.3*	92
16.47		206	90	2.1	91	194	98	2.2	91	170	118	2.3*	91
14.24		238	78	2.2	91	224	83	2.2	91	196	98	2.2	91
12.10		280	63	2.1	90	264	69	2.1	90	231	82	2.2	91
10.80		314	53	2.0	89	296	60	2.1	90	259	72	2.2	91
9.23		368	38	1.7	88	346	45	1.8	89	303	60	2.1	90
8.64		393	34	1.6	87	370	39	1.7	88	324	55	2.1	90
7.28		467	25	1.4	86	439	30	1.6	87	384	41	1.9	89
6.83	20/5	497	36	2.1	90	468	41	2.2	90	409	52	2.5*	91
6.40		531	33	2.1	89	500	37	2.2	90	437	47	2.4*	91
5.39		630	25	1.9	88	593	28	2.0	89	519	37	2.2	90
4.76		714	20	1.7	87	672	23	1.8	88	588	30	2.1	90
4.00		850	16	1.7	86	800	18	1.7	87	700	23	1.9	89

* P_{Mot_max} = 2.2 kW

2200 – 1400 min⁻¹

i _{tot}	i _s	n _e = 2200 min ⁻¹				n _e = 1700 min ⁻¹				n _e = 1400 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
201.00	42/1	10	192	0.32	69	8.4	192	0.25	67	6.9	192	0.21	66
184.80		11	193	0.35	69	9.1	193	0.27	68	7.5	193	0.23	67
158.12		13	194	0.40	70	10	194	0.32	69	8.8	194	0.27	68
137.05		16	195	0.46	71	12	195	0.36	70	10	195	0.30	69
128.10		17	196	0.50	71	13	196	0.39	70	10	196	0.32	69
110.73		19	193	0.56	71	15	197	0.45	71	12	197	0.37	70
94.08		23	182	0.62	72	18	198	0.52	72	14	198	0.43	71
84.00		26	176	0.67	72	20	191	0.56	72	16	199	0.49	72
71.75		30	167	0.75	72	23	181	0.62	72	19	194	0.55	72
67.20		32	156	0.75	72	25	178	0.65	72	20	189	0.57	72
56.61	29/2	38	126	0.72	71	30	168	0.73	73	24	179	0.64	73
69.39		31	200	0.78	85	24	200	0.61	84	20	200	0.51	83
63.80		34	200	0.85	85	26	200	0.66	84	21	200	0.55	84
54.59		40	191	0.95	85	31	200	0.77	85	25	200	0.64	84
47.32		46	182	1.0	85	35	198	0.88	85	29	200	0.73	85
44.22		49	178	1.1	85	38	193	0.91	85	31	200	0.78	85
38.23		57	169	1.2	85	44	184	1.0	85	36	196	0.88	85
32.48		67	160	1.3	86	52	174	1.1	86	43	186	0.98	86
29.00		75	154	1.4	86	58	167	1.2	86	48	179	1.1	86
24.77		88	139	1.5	85	68	159	1.3	86	56	169	1.2	86
23.20	27/5	94	129	1.5	85	73	155	1.4	86	60	165	1.2	86
19.54		112	103	1.4	85	87	146	1.5	86	71	156	1.4	86
20.33		108	149	1.8	92	83	155	1.5	91	68	160	1.3	91
17.62		124	145	2.1	92	96	152	1.7	92	79	156	1.4	91
16.47		133	142	2.2	92	103	149	1.8	92	85	155	1.5	91
14.24		154	134	2.4*	92	119	146	2.0	92	98	152	1.7	92
12.10		181	111	2.3*	92	140	138	2.2	92	115	146	1.9	92
10.80		203	96	2.2	91	157	133	2.4*	92	129	142	2.1	92
9.23		238	82	2.2	91	184	112	2.4*	92	151	134	2.3*	92
8.64		254	77	2.3*	91	196	104	2.3*	92	162	131	2.4*	92
7.28	20/5	302	64	2.2	91	233	86	2.3*	91	192	109	2.4*	92
6.83		322	76	2.8*	92	248	107	3.0*	93	204	120	2.8*	93
6.40		343	70	2.7*	92	265	99	3.0*	93	218	118	2.9*	93
5.39		408	56	2.6*	92	315	82	2.9*	93	259	104	3.0*	93
4.76		462	48	2.5*	91	357	71	2.9*	92	294	91	3.0*	93
4.00		550	37	2.3*	91	425	57	2.8*	92	350	75	3.0*	93

* P_{Mot_max} = 2.2 kW

1100 – 700 min⁻¹

i _{tot}	i _s	n _e = 1100 min ⁻¹				n _e = 900 min ⁻¹				n _e = 700 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
201.00	42/1	5.4	192	0.17	64	4.4	192	0.15	62	3.4	192	0.12	59
184.80		5.9	193	0.19	65	4.8	193	0.16	63	3.7	193	0.13	60
158.12		6.9	194	0.21	66	5.6	194	0.18	64	4.4	194	0.15	62
137.05		8.0	195	0.24	67	6.5	195	0.20	66	5.1	195	0.16	63
128.10		8.5	196	0.26	68	7.0	196	0.22	66	5.4	196	0.17	64
110.73		9.9	197	0.30	69	8.1	197	0.25	68	6.3	197	0.20	66
94.08		11	198	0.35	70	9.5	198	0.29	69	7.4	198	0.23	67
84.00		13	199	0.39	71	10	199	0.32	70	8.3	199	0.25	68
71.75		15	200	0.45	72	12	200	0.37	71	9.7	200	0.29	70
67.20		16	200	0.48	72	13	200	0.39	71	10	200	0.31	70
56.61	29/2	19	194	0.54	73	15	200	0.46	72	12	200	0.36	71
69.39		15	200	0.41	82	12	200	0.34	81	10	200	0.27	79
63.80		17	200	0.44	82	14	200	0.36	81	10	200	0.29	80
54.59		20	200	0.51	83	16	200	0.42	82	12	200	0.33	81
47.32		23	200	0.58	84	19	200	0.48	83	14	200	0.38	82
44.22		24	200	0.62	84	20	200	0.51	83	15	200	0.40	82
38.23		28	200	0.71	85	23	200	0.59	84	18	200	0.46	83
32.48		33	200	0.83	85	27	200	0.69	85	21	200	0.54	84
29.00		37	193	0.90	86	31	200	0.76	85	24	200	0.60	84
24.77		44	183	0.99	86	36	196	0.87	86	28	200	0.70	85
23.20	27/5	47	179	1.0	86	38	191	0.91	86	30	200	0.74	85
19.54		56	169	1.2	86	46	180	1.0	86	35	196	0.86	86
20.33		54	163	1.0	91	44	166	0.85	90	34	169	0.68	89
17.62		62	161	1.2	91	51	164	0.97	91	39	167	0.77	90
16.47		66	159	1.2	91	54	164	1.0	91	42	167	0.82	90
14.24		77	156	1.4	91	63	161	1.2	91	49	164	0.93	91
12.10		90	153	1.6	92	74	158	1.3	91	57	162	1.1	91
10.80		101	151	1.8	92	83	155	1.5	92	64	161	1.2	91
9.23		119	145	2.0	92	97	152	1.7	92	75	158	1.4	92
8.64		127	141	2.0	92	104	149	1.8	92	81	156	1.4	92
7.28	20/5	151	132	2.3*	92	123	142	2.0	92	96	152	1.7	92
6.83		161	128	2.3*	93	131	133	2.0	93	102	139	1.6	93
6.40		171	125	2.4*	93	140	132	2.1	93	109	138	1.7	93
5.39		204	120	2.8*	93	166	126	2.4*	93	129	133	1.9	93
4.76		231	114	3.0*	93	189	122	2.6*	93	147	130	2.2	93
4.00		275	101	3.1*	93	225	113	2.9*	93	175	123	2.4*	93

* P_{Mot_max} = 2.2 kW

500 – 10 min⁻¹

i _{tot}	i _s	n _e = 500 min ⁻¹				n _e = 250 min ⁻¹				n _e = 10 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
201.00	42/1	2.4	192	0.09	54	1.2	193	0.05	48	0.04	200	<0.05	48
184.80		2.7	193	0.10	56	1.3	193	0.06	48	0.05	200	<0.05	48
158.12		3.1	194	0.11	58	1.5	194	0.07	49	0.06	200	<0.05	49
137.05		3.6	195	0.12	60	1.8	195	0.07	51	0.07	200	<0.05	49
128.10		3.9	196	0.13	61	1.9	196	0.08	52	0.07	200	<0.05	49
110.73		4.5	197	0.15	62	2.2	197	0.09	54	0.09	200	<0.05	49
94.08		5.3	198	0.17	64	2.6	198	0.10	56	0.10	200	<0.05	49
84.00		5.9	199	0.19	66	2.9	199	0.11	58	0.11	200	<0.05	49
71.75		6.9	200	0.22	67	3.4	200	0.12	60	0.13	200	<0.05	50
67.20		7.4	200	0.23	68	3.7	200	0.13	61	0.14	200	<0.05	50
56.61	29/2	8.8	200	0.27	69	4.4	200	0.15	63	0.17	200	<0.05	50
69.39		7.2	200	0.20	76	3.6	200	0.11	69	0.14	200	<0.05	68
63.80		7.8	200	0.21	77	3.9	200	0.12	70	0.15	200	<0.05	69
54.59		9.1	200	0.25	78	4.5	200	0.13	72	0.18	200	<0.05	69
47.32		10	200	0.28	79	5.2	200	0.15	73	0.21	200	<0.05	69
44.22		11	200	0.30	80	5.6	200	0.16	74	0.22	200	<0.05	69
38.23		13	200	0.34	81	6.5	200	0.18	75	0.26	200	<0.05	69
32.48		15	200	0.39	82	7.6	200	0.21	77	0.30	200	<0.05	69
29.00		17	200	0.44	83	8.6	200	0.23	78	0.34	200	<0.05	69
24.77		20	200	0.50	84	10	200	0.27	79	0.40	200	<0.05	69
23.20	27/5	21	200	0.54	84	10	200	0.28	80	0.43	200	<0.05	69
19.54		25	200	0.63	85	12	200	0.33	81	0.51	200	<0.05	69
20.33		24	171	0.50	88	12	174	0.27	84	0.49	174	<0.05	81
17.62		28	171	0.57	89	14	174	0.31	85	0.56	174	<0.05	81
16.47		30	171	0.61	89	15	174	0.33	85	0.60	174	<0.05	81
14.24		35	169	0.69	90	17	174	0.37	86	0.70	174	<0.05	81
12.10		41	167	0.80	90	20	173	0.43	87	0.82	174	<0.05	81
10.80		46	166	0.89	91	23	173	0.48	88	0.92	174	<0.05	81
9.23		54	164	1.0	91	27	172	0.55	89	1.00	174	<0.05	81
8.64		57	162	1.1	91	28	171	0.58	89	1.1	174	<0.05	81
7.28	20/5	68	159	1.2	92	34	170	0.68	90	1.3	174	<0.05	81
6.83		73	145	1.2	92	36	155	0.66	91	1.4	165	<0.05	83
6.40		78	145	1.3	92	39	153	0.69	91	1.5	165	<0.05	83
5.39		92	142	1.5	93	46	152	0.81	91	1.8	164	<0.05	83
4.76		105	139	1.6	93	52	151	0.91	92	2.1	164	<0.05	83
4.00		125	134	1.9	93	62	149	1.1	92	2.5	164	0.05	83

11.20 Technical data S..57p

3400 – 2800 min⁻¹

i _{tot}	i _s	n _e = 3400 min ⁻¹				n _e = 3200 min ⁻¹				n _e = 2800 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
201.00	42/1	16	335	0.81	74	15	345	0.78	73	13	355	0.71	73
184.80		18	325	0.85	74	17	335	0.82	74	15	350	0.75	74
158.12		21	310	0.94	74	20	315	0.90	74	17	330	0.83	74
137.05		24	295	1.0	74	23	300	0.99	74	20	315	0.91	74
128.10		26	290	1.1	74	24	295	1.0	74	21	310	0.95	74
110.73		30	265	1.1	74	28	280	1.1	74	25	295	1.0	75
94.08		36	215	1.1	73	34	235	1.1	74	29	275	1.2	75
84.00		40	188	1.1	73	38	205	1.1	73	33	245	1.2	74
71.75		47	143	1.00	71	44	157	1.0	72	39	200	1.1	74
67.20		50	131	0.98	71	47	145	1.0	72	41	187	1.1	73
56.61		60	103	0.93	69	56	115	0.97	70	49	142	1.0	72
69.39	29/2	48	290	1.7	86	46	300	1.7	86	40	310	1.5	86
63.80		53	285	1.8	87	50	290	1.8	87	43	305	1.6	87
54.59		62	270	2.0	87	58	275	1.9	87	51	285	1.8	87
47.32		71	255	2.2	87	67	260	2.1	87	59	275	2.0	87
44.22		76	235	2.2	87	72	255	2.2	87	63	265	2.0	87
38.23		88	200	2.2	86	83	215	2.2	87	73	255	2.3	87
32.48		104	164	2.1	86	98	178	2.1	86	86	210	2.2	87
29.00		117	131	1.9	85	110	154	2.1	86	96	186	2.2	86
24.77		137	111	1.9	85	129	120	1.9	85	113	153	2.1	86
23.20		146	102	1.9	84	137	111	1.9	85	120	131	1.9	85
19.54		174	81	1.8	83	163	90	1.8	84	143	109	1.9	85
20.33	27/5	167	171	3.3*	92	157	184	3.3*	92	137	225	3.5*	92
17.62		192	144	3.2*	92	181	155	3.2*	92	158	183	3.3*	92
16.47		206	134	3.2*	92	194	143	3.2*	92	170	169	3.3*	92
14.24		238	116	3.2*	91	224	123	3.2*	92	196	143	3.2*	92
12.10		280	99	3.2*	91	264	105	3.2*	91	231	121	3.2*	92
10.80		314	88	3.2*	91	296	94	3.2*	91	259	108	3.2*	91
9.23		368	73	3.1*	91	346	79	3.2*	91	303	93	3.2*	91
8.64		393	68	3.1*	90	370	74	3.2*	91	324	87	3.2*	91
7.28		467	54	2.9	90	439	60	3.1*	90	384	72	3.2*	91
6.83	20/5	497	59	3.4*	91	468	66	3.5*	92	409	80	3.7*	92
6.40		531	54	3.3*	91	500	60	3.4*	91	437	74	3.7*	92
5.39		630	42	3.1*	90	593	47	3.2*	91	519	59	3.5*	92
4.76		714	35	2.9	90	672	40	3.1*	91	588	50	3.4*	91
4.00		850	28	2.8	89	800	31	2.9	90	700	40	3.2*	91

* P_{Mot_max} = 3.0 kW

2200 – 1400 min⁻¹

i _{tot}	i _s	n _e = 2200 min ⁻¹				n _e = 1700 min ⁻¹				n _e = 1400 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
201.00	42/1	10	355	0.56	72	8.4	355	0.44	71	6.9	355	0.37	69
184.80		11	355	0.61	73	9.1	355	0.48	72	7.5	355	0.40	70
158.12		13	360	0.71	74	10	360	0.56	73	8.8	360	0.46	72
137.05		16	340	0.77	74	12	360	0.64	74	10	360	0.53	73
128.10		17	335	0.81	74	13	365	0.69	74	10	365	0.57	73
110.73		19	320	0.89	75	15	345	0.75	74	12	365	0.65	74
94.08		23	300	0.98	75	18	330	0.84	75	14	350	0.73	74
84.00		26	290	1.1	75	20	315	0.89	75	16	335	0.78	75
71.75		30	275	1.2	75	23	300	0.99	75	19	320	0.87	75
67.20		32	255	1.2	75	25	290	1.0	75	20	310	0.90	75
56.61	29/2	38	210	1.1	74	30	275	1.1	75	24	295	1.0	76
69.39		31	335	1.3	86	24	365	1.1	86	20	370	0.92	85
63.80		34	330	1.4	86	26	355	1.2	86	21	370	1.00	85
54.59		40	310	1.5	87	31	340	1.3	86	25	360	1.1	86
47.32		46	295	1.7	87	35	325	1.4	87	29	345	1.2	86
44.22		49	290	1.7	87	38	315	1.5	87	31	335	1.3	87
38.23		57	275	1.9	87	44	300	1.6	87	36	320	1.4	87
32.48		67	260	2.1	87	52	285	1.8	87	43	300	1.6	87
29.00		75	250	2.3	87	58	270	1.9	87	48	290	1.7	87
24.77		88	210	2.3	87	68	255	2.1	87	56	275	1.9	87
23.20	27/5	94	195	2.2	87	73	250	2.2	87	60	270	2.0	87
19.54		112	160	2.2	86	87	220	2.3	87	71	250	2.1	87
20.33		108	225	2.8	92	83	225	2.1	92	68	225	1.8	92
17.62		124	225	3.2*	92	96	225	2.5	92	79	225	2.0	92
16.47		133	225	3.4*	92	103	225	2.6	92	85	225	2.2	92
14.24		154	190	3.3*	92	119	225	3.0	92	98	225	2.5	92
12.10		181	159	3.3*	92	140	220	3.5*	92	115	225	3.0	92
10.80		203	139	3.2*	92	157	191	3.4*	92	129	225	3.3*	92
9.23		238	119	3.2*	92	184	159	3.3*	92	151	199	3.4*	92
8.64		254	112	3.3*	92	196	148	3.3*	92	162	187	3.4*	92
7.28	20/5	302	96	3.3*	92	233	123	3.3*	92	192	155	3.4*	92
6.83		322	112	4.1*	93	248	152	4.3*	93	204	162	3.7*	93
6.40		343	103	4.0*	93	265	141	4.2*	93	218	156	3.8*	93
5.39		408	84	3.9*	92	315	118	4.2*	93	259	147	4.3*	93
4.76		462	72	3.8*	92	357	103	4.2*	93	294	129	4.3*	93
4.00		550	58	3.6*	92	425	84	4.0*	93	350	108	4.3*	93

* P_{Mot_max} = 3.0 kW

1100 – 700 min⁻¹

i _{tot}	i _s	n _e = 1100 min ⁻¹				n _e = 900 min ⁻¹				n _e = 700 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
201.00	42/1	5.4	355	0.30	67	4.4	355	0.25	65	3.4	360	0.21	63
184.80		5.9	360	0.33	68	4.8	360	0.28	67	3.7	360	0.22	64
158.12		6.9	360	0.37	70	5.6	360	0.31	68	4.4	360	0.25	66
137.05		8.0	365	0.43	71	6.5	365	0.36	70	5.1	365	0.29	68
128.10		8.5	365	0.46	72	7.0	365	0.38	70	5.4	365	0.31	68
110.73		9.9	365	0.52	73	8.1	365	0.43	72	6.3	365	0.35	70
94.08		11	370	0.61	74	9.5	370	0.51	73	7.4	370	0.41	71
84.00		13	365	0.67	74	10	370	0.57	73	8.3	370	0.45	72
71.75		15	345	0.74	75	12	370	0.65	74	9.7	370	0.52	73
67.20		16	340	0.78	75	13	360	0.68	75	10	370	0.55	74
56.61	29/2	19	320	0.86	75	15	340	0.75	75	12	370	0.64	74
69.39		15	370	0.73	84	12	370	0.61	83	10	370	0.48	81
63.80		17	370	0.79	84	14	370	0.66	83	10	370	0.52	82
54.59		20	370	0.92	85	16	370	0.76	84	12	370	0.60	83
47.32		23	370	1.0	86	19	370	0.87	85	14	370	0.68	84
44.22		24	365	1.1	86	20	370	0.92	85	15	370	0.73	84
38.23		28	345	1.2	86	23	370	1.1	86	18	370	0.83	85
32.48		33	325	1.3	87	27	350	1.2	86	21	370	0.97	86
29.00		37	315	1.4	87	31	335	1.3	87	24	365	1.1	86
24.77		44	295	1.6	87	36	320	1.4	87	28	345	1.2	87
23.20	27/5	47	290	1.7	87	38	310	1.4	87	30	340	1.2	87
19.54		56	275	1.9	87	46	290	1.6	87	35	315	1.4	87
20.33		54	225	1.4	91	44	225	1.1	91	34	225	0.90	90
17.62		62	225	1.6	92	51	225	1.3	91	39	225	1.0	91
16.47		66	225	1.7	92	54	225	1.4	91	42	225	1.1	91
14.24		77	225	2.0	92	63	225	1.6	92	49	225	1.3	91
12.10		90	225	2.3	92	74	225	1.9	92	57	225	1.5	92
10.80		101	225	2.6	92	83	225	2.1	92	64	225	1.7	92
9.23		119	215	2.9	92	97	225	2.5	92	75	225	1.9	92
8.64		127	205	3.0	92	104	215	2.5	92	81	225	2.1	92
7.28	20/5	151	185	3.2*	92	123	210	2.9	92	96	215	2.3	92
6.83		161	170	3.1*	93	131	195	2.9	93	102	205	2.4	93
6.40		171	165	3.2*	93	140	185	2.9	93	109	190	2.3	93
5.39		204	155	3.6*	93	166	175	3.3*	93	129	180	2.6	93
4.76		231	145	3.8*	93	189	160	3.4*	93	147	170	2.8	93
4.00		275	130	4.0*	93	225	150	3.8*	93	175	160	3.1*	93

* P_{Mot_max} = 3.0 kW

500 – 10 min⁻¹

i _{tot}	i _s	n _e = 500 min ⁻¹				n _e = 250 min ⁻¹				n _e = 10 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
201.00	42/1	2.4	360	0.16	58	1.2	360	0.09	50	0.04	370	<0.05	50
184.80		2.7	360	0.17	60	1.3	360	0.10	51	0.05	370	<0.05	50
158.12		3.1	360	0.19	62	1.5	360	0.11	53	0.06	370	<0.05	50
137.05		3.6	365	0.22	64	1.8	365	0.13	55	0.07	370	<0.05	50
128.10		3.9	365	0.23	65	1.9	365	0.13	56	0.07	370	<0.05	50
110.73		4.5	365	0.26	67	2.2	365	0.15	58	0.09	370	<0.05	50
94.08		5.3	370	0.30	68	2.6	370	0.17	60	0.10	370	<0.05	50
84.00		5.9	370	0.33	70	2.9	370	0.19	62	0.11	370	<0.05	51
71.75		6.9	370	0.38	71	3.4	370	0.21	64	0.13	370	<0.05	51
67.20		7.4	370	0.40	71	3.7	370	0.22	65	0.14	370	<0.05	51
56.61	29/2	8.8	370	0.47	73	4.4	370	0.26	67	0.17	370	<0.05	51
69.39		7.2	370	0.36	78	3.6	370	0.20	71	0.14	370	<0.05	69
63.80		7.8	370	0.38	79	3.9	370	0.21	72	0.15	370	<0.05	69
54.59		9.1	370	0.44	81	4.5	370	0.24	74	0.18	370	<0.05	69
47.32		10	370	0.50	82	5.2	370	0.27	76	0.21	370	<0.05	69
44.22		11	370	0.53	82	5.6	370	0.29	77	0.22	370	<0.05	69
38.23		13	370	0.61	83	6.5	370	0.32	78	0.26	370	<0.05	70
32.48		15	370	0.71	84	7.6	370	0.38	80	0.30	370	<0.05	70
29.00		17	370	0.79	85	8.6	370	0.41	81	0.34	370	<0.05	70
24.77		20	370	0.91	86	10	370	0.48	82	0.40	370	<0.05	70
23.20	27/5	21	370	0.97	86	10	370	0.51	82	0.43	370	<0.05	70
19.54		25	355	1.1	86	12	370	0.59	84	0.51	370	<0.05	70
20.33		24	225	0.65	89	12	225	0.34	85	0.49	225	<0.05	80
17.62		28	225	0.75	90	14	225	0.39	86	0.56	225	<0.05	80
16.47		30	225	0.80	90	15	225	0.41	86	0.60	225	<0.05	80
14.24		35	225	0.92	90	17	225	0.47	87	0.70	225	<0.05	80
12.10		41	225	1.1	91	20	225	0.55	88	0.82	225	<0.05	80
10.80		46	225	1.2	91	23	225	0.61	89	0.92	225	<0.05	80
9.23		54	225	1.4	92	27	225	0.71	90	1.0	225	<0.05	80
8.64		57	225	1.5	92	28	225	0.76	90	1.1	225	<0.05	80
7.28	20/5	68	225	1.8	92	34	225	0.89	90	1.3	225	<0.05	80
6.83		73	200	1.7	93	36	200	0.84	91	1.4	200	<0.05	82
6.40		78	200	1.8	93	39	200	0.90	91	1.5	200	<0.05	82
5.39		92	205	2.1	93	46	205	1.1	92	1.8	205	<0.05	82
4.76		105	205	2.4	93	52	205	1.2	92	2.1	205	0.05	82
4.00		125	194	2.7	93	62	194	1.4	93	2.5	194	0.06	82

11.21 Technical data S..67p

3400 – 2800 min⁻¹

i _{tot}	i _s	n _e = 3400 min ⁻¹				n _e = 3200 min ⁻¹				n _e = 2800 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
217.41	42/1	15	635	1.4	74	14	635	1.3	74	12	640	1.2	74
190.11		17	640	1.6	75	16	640	1.5	75	14	640	1.3	74
180.60		18	640	1.7	75	17	640	1.6	75	15	640	1.4	74
158.45		21	640	1.9	75	20	645	1.8	75	17	645	1.6	75
134.40		25	525	1.9	74	23	610	2.0	75	20	645	1.9	75
121.33		28	460	1.8	74	26	505	1.9	74	23	635	2.0	75
106.75		31	405	1.9	73	29	430	1.8	73	26	515	1.9	74
100.80		33	380	1.9	72	31	410	1.9	73	27	475	1.9	74
85.83		39	320	1.9	72	37	345	1.9	72	32	400	1.9	73
78.00		43	285	1.8	71	41	310	1.9	72	35	365	1.9	73
67.57		50	235	1.8	69	47	260	1.8	70	41	315	1.9	72
58.80		57	184	1.7	67	54	215	1.8	69	47	270	1.9	71
75.06	29/2	45	625	3.4	87	42	635	3.3	87	37	660	3.0	87
65.63		51	580	3.6	87	48	620	3.6	87	42	635	3.3	87
62.35		54	540	3.6	87	51	585	3.6	87	44	630	3.4	87
54.70		62	465	3.5	87	58	505	3.6	87	51	595	3.7	87
46.40		73	415	3.7	86	68	415	3.5	86	60	490	3.6	87
41.89		81	365	3.6	86	76	395	3.7	86	66	435	3.5	87
36.85		92	310	3.5	85	86	335	3.6	86	75	405	3.7	86
34.80		97	295	3.5	85	91	315	3.5	86	80	380	3.7	86
29.63		114	250	3.6	85	107	270	3.6	85	94	310	3.6	86
26.93		126	220	3.5	84	118	240	3.5	85	103	280	3.6	85
23.33		145	182	3.3	83	137	200	3.4	84	120	245	3.6	85
20.30		167	141	3.0	82	157	164	3.3	83	137	205	3.5	84
24.44	27/5	139	365	5.8*	92	130	370	5.5	92	114	385	5.0	92
23.22		146	360	6.0*	92	137	365	5.7*	92	120	380	5.2	92
20.37		166	345	6.5*	92	157	350	6.2*	92	137	365	5.7*	92
17.28		196	275	6.2*	92	185	300	6.3*	92	162	350	6.4*	92
15.60		217	245	6.1*	92	205	265	6.2*	92	179	320	6.5*	92
13.73		247	215	6.1*	91	233	230	6.1*	92	203	270	6.3*	92
12.96		262	200	6.0*	91	246	215	6.1*	91	216	250	6.2*	92
11.03		308	169	6.0*	91	290	183	6.1*	91	253	215	6.2*	92
10.03		338	151	5.9*	91	319	164	6.0*	91	279	194	6.2*	91
8.69		391	124	5.7*	90	368	137	5.9*	90	322	166	6.2*	91
7.56		449	95	5.0*	89	423	112	5.5*	90	370	141	6.0*	91

* P_{Mot_max} = 5.5 kW

2200 – 1400 min⁻¹

i _{tot}	i _s	n _e = 2200 min ⁻¹				n _e = 1700 min ⁻¹				n _e = 1400 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
217.41	42/1	10	640	0.92	73	7.8	640	0.72	73	6.4	640	0.60	72
190.11		11	640	1.0	74	8.9	640	0.82	73	7.3	640	0.68	72
180.60		12	640	1.1	74	9.4	645	0.87	73	7.7	645	0.72	73
158.45		13	645	1.3	75	10	645	0.98	74	8.8	645	0.81	73
134.40		16	645	1.5	75	12	645	1.1	75	10	645	0.95	74
121.33		18	645	1.6	75	14	645	1.3	75	11	645	1.0	74
106.75		20	645	1.8	75	15	645	1.4	75	13	645	1.2	75
100.80		21	645	2.0	76	16	645	1.5	75	13	645	1.3	75
85.83		25	550	2.0	75	19	660	1.8	76	16	660	1.5	76
78.00		28	485	1.9	75	21	645	1.9	76	17	660	1.6	76
67.57		32	410	1.9	74	25	580	2.0	76	20	650	1.9	76
58.80	29/2	37	360	1.9	74	28	495	2.0	76	23	625	2.0	76
75.06		29	685	2.4	87	22	720	2.0	87	18	720	1.6	86
65.63		33	670	2.7	87	25	700	2.2	87	21	720	1.9	87
62.35		35	665	2.8	87	27	700	2.3	87	22	720	2.0	87
54.70		40	645	3.1	87	31	680	2.5	87	25	705	2.2	87
46.40		47	620	3.5	87	36	660	2.9	87	30	680	2.5	87
41.89		52	585	3.7	87	40	645	3.1	87	33	670	2.7	87
36.85		59	505	3.6	87	46	625	3.5	88	37	655	3.0	87
34.80		63	470	3.6	87	48	610	3.6	88	40	640	3.1	88
29.63		74	435	3.9	87	57	545	3.7	88	47	620	3.5	88
26.93		81	385	3.8	87	63	485	3.7	87	51	600	3.7	88
23.33		94	320	3.7	86	72	455	4.0	87	60	525	3.8	88
20.30	27/5	108	280	3.7	86	83	390	3.9	87	68	450	3.7	87
24.44		90	410	4.2	92	69	415	3.3	92	57	415	2.7	92
23.22		94	405	4.4	92	73	420	3.5	92	60	420	2.9	92
20.37		108	390	4.8	92	83	415	3.9	92	68	435	3.4	92
17.28		127	375	5.4	92	98	400	4.5	92	81	415	3.8	92
15.60		141	360	5.8*	92	108	390	4.8	93	89	410	4.2	93
13.73		160	350	6.4*	92	123	380	5.3	93	101	395	4.6	93
12.96		169	340	6.5*	92	131	375	5.6*	93	108	390	4.8	93
11.03		199	285	6.5*	92	154	355	6.2*	93	126	375	5.4	93
10.03		219	255	6.4*	92	169	340	6.5*	93	139	365	5.8*	93
8.69		253	220	6.4*	92	195	300	6.6*	93	161	350	6.4*	93
7.56		291	192	6.4*	92	224	260	6.6*	92	185	330	6.9*	93

* P_{Mot_max} = 5.5 kW

1100 – 700 min⁻¹

i _{tot}	i _s	n _e = 1100 min ⁻¹				n _e = 900 min ⁻¹				n _e = 700 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
217.41	42/1	5.0	640	0.49	70	4.1	640	0.41	68	3.2	645	0.33	66
190.11		5.7	645	0.55	71	4.7	645	0.46	70	3.6	645	0.37	67
180.60		6.0	645	0.58	71	4.9	645	0.48	70	3.8	645	0.39	68
158.45		6.9	645	0.65	72	5.6	645	0.54	71	4.4	645	0.43	69
134.40		8.1	645	0.76	73	6.6	645	0.63	72	5.2	645	0.50	71
121.33		9.0	645	0.83	74	7.4	645	0.69	73	5.7	645	0.55	71
106.75		10	645	0.94	74	8.4	645	0.77	74	6.5	645	0.61	72
100.80		10	645	0.99	74	8.9	645	0.82	74	6.9	645	0.65	73
85.83		12	660	1.2	75	10	660	0.97	75	8.1	660	0.76	74
78.00		14	665	1.3	76	11	665	1.1	75	8.9	665	0.84	74
67.57		16	665	1.5	76	13	665	1.2	76	10	665	0.96	75
58.80		18	655	1.7	76	15	655	1.4	76	11	655	1.1	76
75.06	29/2	14	720	1.3	85	11	720	1.1	84	9.3	720	0.85	83
65.63		16	720	1.5	86	13	720	1.2	85	10	720	0.96	84
62.35		17	720	1.5	86	14	720	1.3	85	11	720	1.0	84
54.70		20	720	1.8	86	16	720	1.4	86	12	720	1.1	85
46.40		23	715	2.0	87	19	720	1.7	86	15	720	1.3	86
41.89		26	700	2.2	87	21	700	1.8	87	16	700	1.4	86
36.85		29	670	2.4	87	24	670	2.0	87	18	670	1.5	86
34.80		31	640	2.4	87	25	640	2.0	87	20	640	1.6	86
29.63		37	620	2.8	88	30	620	2.3	87	23	620	1.8	87
26.93		40	600	2.9	88	33	600	2.4	87	25	600	1.9	87
23.33		47	580	3.3	88	38	580	2.7	88	30	580	2.1	87
20.30		54	550	3.6	88	44	550	2.9	88	34	550	2.3	88
24.44	27/5	45	415	2.1	92	36	415	1.8	91	28	415	1.4	91
23.22		47	420	2.3	92	38	420	1.9	92	30	420	1.5	91
20.37		54	450	2.8	92	44	455	2.3	92	34	455	1.8	91
17.28		63	435	3.1	92	52	450	2.7	92	40	455	2.1	92
15.60		70	430	3.4	92	57	440	2.9	92	44	455	2.3	92
13.73		80	420	3.8	93	65	435	3.2	92	50	455	2.6	92
12.96		84	415	4.0	93	69	430	3.4	92	54	450	2.8	92
11.03		99	400	4.5	93	81	415	3.8	93	63	435	3.1	92
10.03		109	390	4.8	93	89	410	4.2	93	69	430	3.4	93
8.69		126	375	5.4	93	103	400	4.7	93	80	420	3.8	93
7.56		145	360	5.9*	93	119	385	5.2	93	92	410	4.3	93

* P_{Mot_max} = 5.5 kW

500 – 10 min⁻¹

i _{tot}	i _s	n _e = 500 min ⁻¹				n _e = 250 min ⁻¹				n _e = 10 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
217.41	42/1	2.2	645	0.25	62	1.1	645	0.15	54	0.04	645	<0.05	52
190.11		2.6	645	0.28	64	1.3	645	0.16	55	0.05	645	<0.05	52
180.60		2.7	645	0.29	64	1.3	645	0.17	56	0.05	645	<0.05	52
158.45		3.1	645	0.32	66	1.5	645	0.19	58	0.06	645	<0.05	52
134.40		3.7	645	0.37	68	1.8	645	0.21	60	0.07	645	<0.05	52
121.33		4.1	645	0.41	69	2.0	645	0.23	61	0.08	645	<0.05	52
106.75		4.6	645	0.45	70	2.3	645	0.25	63	0.09	645	<0.05	52
100.80		4.9	645	0.48	70	2.4	645	0.26	63	0.09	645	<0.05	52
85.83		5.8	660	0.56	72	2.9	660	0.31	66	0.11	695	<0.05	53
78.00		6.4	665	0.61	73	3.2	665	0.33	67	0.12	685	<0.05	53
67.57		7.3	665	0.70	74	3.6	665	0.38	68	0.14	675	<0.05	53
58.80		8.5	655	0.78	74	4.2	655	0.42	70	0.17	655	<0.05	53
75.06	29/2	6.6	720	0.62	81	3.3	720	0.34	75	0.13	720	<0.05	71
65.63		7.6	720	0.70	82	3.8	720	0.38	76	0.15	720	<0.05	71
62.35		8.0	720	0.74	82	4.0	720	0.40	76	0.16	720	<0.05	71
54.70		9.1	720	0.83	83	4.5	720	0.44	78	0.18	720	<0.05	71
46.40		10	720	0.97	84	5.3	720	0.51	79	0.21	720	<0.05	71
41.89		11	720	1.1	85	5.9	720	0.56	80	0.23	720	<0.05	71
36.85		13	720	1.2	85	6.7	720	0.63	81	0.27	720	<0.05	71
34.80		14	700	1.2	86	7.1	700	0.65	82	0.28	700	<0.05	71
29.63		16	680	1.4	86	8.4	680	0.73	83	0.33	680	<0.05	71
26.93		18	660	1.5	86	9.2	660	0.77	83	0.37	660	<0.05	71
23.33		21	640	1.7	87	10	640	0.85	84	0.42	640	<0.05	71
20.30		24	620	1.8	87	12	620	0.94	85	0.49	620	<0.05	71
24.44	27/5	20	415	0.99	90	10	415	0.52	86	0.40	415	<0.05	82
23.22		21	420	1.1	90	10	420	0.55	86	0.43	420	<0.05	82
20.37		24	455	1.3	90	12	455	0.67	87	0.49	455	<0.05	82
17.28		28	455	1.5	91	14	455	0.78	88	0.57	455	<0.05	82
15.60		32	455	1.7	91	16	455	0.86	89	0.64	455	<0.05	82
13.73		36	455	1.9	92	18	455	0.97	89	0.72	455	<0.05	82
12.96		38	455	2.0	92	19	455	1.0	90	0.77	455	<0.05	82
11.03		45	455	2.3	92	22	455	1.2	90	0.90	455	0.05	82
10.03		49	450	2.5	92	24	455	1.3	91	0.99	455	0.06	82
8.69		57	440	2.9	92	28	455	1.5	91	1.1	455	0.07	82
7.56		66	435	3.3	93	33	455	1.7	92	1.3	455	0.08	82

11.22 Technical data S..77p

3400 – 2800 min⁻¹

i _{tot}	i _s	n _e = 3400 min ⁻¹				n _e = 3200 min ⁻¹				n _e = 2800 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
256.47	40/1	13	1470	2.6	78	12	1480	2.5	78	10	1500	2.2	78
225.26		15	1420	2.9	78	14	1440	2.7	78	12	1480	2.5	78
214.00		15	1410	3.0	78	14	1420	2.8	78	13	1470	2.6	78
189.09		17	1370	3.3	78	16	1380	3.1	78	14	1420	2.8	78
161.60		21	1290	3.6	78	19	1330	3.5	78	17	1370	3.2	78
148.15		22	1260	3.9	78	21	1280	3.7	78	18	1340	3.4	78
130.00		26	1210	4.2	78	24	1230	4.1	78	21	1290	3.7	78
123.20		27	1130	4.2	78	25	1210	4.2	78	22	1260	3.8	78
107.83		31	950	4.1	77	29	1040	4.2	78	25	1210	4.2	78
97.14		35	860	4.1	77	32	900	4.0	77	28	1100	4.3	78
85.22		39	770	4.2	76	37	820	4.2	77	32	930	4.1	78
75.20		45	675	4.2	76	42	725	4.2	76	37	830	4.2	77
66.67		50	585	4.2	75	47	635	4.2	75	41	745	4.3	77
56.92		59	485	4.1	74	56	530	4.2	74	49	635	4.3	76
75.09	40/3	45	1160	6.1	90	42	1190	5.9	90	37	1210	5.3	90
71.33		47	1150	6.4	90	44	1170	6.1	90	39	1210	5.5	90
63.03		53	1110	7.0	90	50	1140	6.7	90	44	1170	6.1	90
53.87		63	1070	7.9	90	59	1080	7.5	90	51	1120	6.8	90
49.38		68	1030	8.3	90	64	1060	8.0	90	56	1100	7.3	90
43.33		78	910	8.4	90	73	1010	8.7	90	64	1060	8.0	90
41.07		82	900	8.7	90	77	910	8.3	90	68	1050	8.3	90
35.94		94	800	8.9	89	89	850	8.9	89	77	910	8.3	90
32.38		105	725	9.0	89	98	770	8.9	89	86	880	8.9	90
28.41		119	635	9.0	89	112	680	9.0	89	98	780	9.0	89
25.07		135	560	9.0	88	127	600	9.1	89	111	695	9.1	89
22.22		153	485	8.8	88	144	525	9.0	88	126	615	9.1	89
18.97		179	395	8.5	87	168	440	8.9	88	147	520	9.1	89
22.89	34/6	148	665	11.1*	93	139	680	10.7	93	122	710	9.8	93
20.99		161	620	11.3*	93	152	660	11.3*	93	133	690	10.4	93
18.42		184	590	12.3*	93	173	590	11.6*	93	152	660	11.3*	93
17.45		194	590	13.0*	93	183	590	12.2*	93	160	635	11.5*	93
15.28		222	530	13.3*	93	209	560	13.2*	93	183	590	12.2*	93
13.76		247	480	13.4*	93	232	505	13.3*	93	203	585	13.4*	93
12.07		281	415	13.3*	92	265	445	13.4*	92	231	515	13.5*	93
10.65		319	365	13.3*	92	300	390	13.3	92	262	455	13.5*	93
9.44		360	315	13.0*	92	338	345	13.3*	92	296	405	13.6*	92
8.06		421	260	12.6*	91	397	285	12.9*	92	347	340	13.4*	92

* P_{Mot_max} = 11.0 kW

2200 – 1400 min⁻¹

i _{tot}	i _s	n _e = 2200 min ⁻¹				n _e = 1700 min ⁻¹				n _e = 1400 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
256.47	40/1	8.5	1500	1.7	77	6.6	1500	1.4	77	5.4	1500	1.1	76
225.26		9.7	1500	2.0	78	7.5	1500	1.5	77	6.2	1500	1.3	76
214.00		10	1500	2.1	78	7.9	1500	1.6	77	6.5	1500	1.3	77
189.09		11	1490	2.3	78	8.9	1500	1.8	78	7.4	1500	1.5	77
161.60		13	1450	2.6	78	10	1500	2.1	78	8.6	1500	1.7	78
148.15		14	1420	2.8	79	11	1500	2.3	78	9.4	1500	1.9	78
130.00		16	1380	3.1	79	13	1470	2.6	79	10	1500	2.2	78
123.20		17	1370	3.3	79	13	1460	2.7	79	11	1500	2.3	79
107.83		20	1320	3.6	79	15	1410	3.0	79	12	1470	2.5	79
97.14		22	1270	3.8	79	17	1370	3.2	79	14	1440	2.8	79
85.22		25	1220	4.2	79	19	1320	3.5	79	16	1390	3.0	79
75.20		29	1120	4.4	79	22	1270	3.8	79	18	1340	3.3	79
66.67		32	960	4.2	78	25	1220	4.1	79	20	1290	3.6	79
56.92		38	830	4.3	78	29	1140	4.5	79	24	1230	4.0	80
75.09	40/3	29	1280	4.4	90	22	1320	3.5	89	18	1360	3.0	89
71.33		30	1270	4.6	90	23	1320	3.7	90	19	1350	3.1	89
63.03		34	1230	5.0	90	26	1290	4.1	90	22	1320	3.4	90
53.87		40	1200	5.7	90	31	1250	4.6	90	25	1300	3.9	90
49.38		44	1170	6.1	90	34	1230	4.9	90	28	1280	4.2	90
43.33		50	1130	6.7	90	39	1210	5.5	90	32	1250	4.7	90
41.07		53	1110	6.9	90	41	1190	5.7	90	34	1240	4.9	90
35.94		61	1080	7.7	90	47	1150	6.3	90	38	1210	5.5	90
32.38		67	1040	8.2	90	52	1120	6.8	90	43	1180	5.9	90
28.41		77	930	8.4	90	59	1080	7.5	90	49	1140	6.5	90
25.07		87	870	8.9	90	67	1040	8.2	90	55	1100	7.1	90
22.22		99	790	9.1	90	76	970	8.6	90	63	1070	7.8	90
18.97		115	680	9.2	90	89	860	9.0	90	73	1010	8.6	91
22.89	34/6	96	760	8.2	93	74	810	6.8	93	61	840	5.8	93
20.99		104	745	8.8	93	80	790	7.2	93	66	820	6.2	93
18.42		119	720	9.7	93	92	765	7.9	93	76	800	6.8	93
17.45		126	720	10.2	93	97	760	8.3	93	80	795	7.2	93
15.28		143	720	11.6*	93	111	730	9.1	93	91	765	7.9	93
13.76		159	725	13.0*	93	123	720	10.0	93	101	745	8.5	93
12.07		182	650	13.3*	93	140	725	11.4*	93	115	720	9.4	93
10.65		206	580	13.5*	93	159	725	13.0*	93	131	720	10.6	93
9.44		233	520	13.7*	93	180	655	13.2*	93	148	725	12.0*	94
8.06		272	445	13.7*	93	210	575	13.6*	93	173	680	13.2*	94

* P_{Mot_max} = 11.0 kW

1100 – 700 min⁻¹

i _{tot}	i _s	n _e = 1100 min ⁻¹				n _e = 900 min ⁻¹				n _e = 700 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
256.47	40/1	4.2	1500	0.91	74	3.5	1500	0.76	73	2.7	1500	0.61	71
225.26		4.8	1500	1.0	75	3.9	1500	0.85	74	3.1	1500	0.68	72
214.00		5.1	1500	1.1	76	4.2	1500	0.89	74	3.2	1500	0.71	72
189.09		5.8	1500	1.2	76	4.7	1500	0.99	75	3.7	1500	0.79	74
161.60		6.8	1500	1.4	77	5.5	1500	1.1	76	4.3	1500	0.91	75
148.15		7.4	1500	1.5	77	6.0	1500	1.2	77	4.7	1500	0.99	75
130.00		8.4	1500	1.7	78	6.9	1500	1.4	77	5.3	1500	1.1	76
123.20		8.9	1500	1.8	78	7.3	1500	1.5	77	5.6	1500	1.2	76
107.83		10	1500	2.0	79	8.3	1500	1.7	78	6.4	1500	1.3	77
97.14		11	1500	2.3	79	9.2	1500	1.9	78	7.2	1500	1.5	78
85.22		12	1470	2.5	79	10	1500	2.1	79	8.2	1500	1.6	78
75.20		14	1430	2.8	79	11	1490	2.4	79	9.3	1500	1.9	79
66.67		16	1380	3.0	80	13	1450	2.6	79	10	1500	2.1	79
56.92		19	1330	3.4	80	15	1400	2.9	80	12	1480	2.4	80
75.09	40/3	14	1390	2.4	89	11	1420	2.0	88	9.3	1440	1.6	87
71.33		15	1390	2.5	89	12	1410	2.1	88	9.8	1440	1.7	87
63.03		17	1380	2.8	89	14	1390	2.3	89	11	1430	1.9	88
53.87		20	1350	3.2	89	16	1380	2.7	89	12	1400	2.2	88
49.38		22	1320	3.4	90	18	1360	2.9	89	14	1390	2.3	89
43.33		25	1300	3.8	90	20	1350	3.3	90	16	1380	2.6	89
41.07		26	1300	4.1	90	21	1330	3.4	90	17	1380	2.8	89
35.94		30	1270	4.5	90	25	1300	3.8	90	19	1350	3.1	90
32.38		33	1240	4.9	90	27	1290	4.2	90	21	1320	3.3	90
28.41		38	1210	5.4	90	31	1250	4.6	90	24	1280	3.7	90
25.07		43	1180	6.0	90	35	1230	5.1	90	27	1240	4.0	90
22.22		49	1140	6.5	91	40	1200	5.6	91	31	1200	4.4	90
18.97		57	1090	7.3	91	47	1150	6.3	91	36	1150	4.9	90
22.89	34/6	48	850	4.6	93	39	850	3.8	93	30	850	2.9	92
20.99		52	850	5.0	93	42	850	4.1	93	33	850	3.2	93
18.42		59	840	5.6	93	48	850	4.7	93	38	850	3.6	93
17.45		63	830	5.9	93	51	850	4.9	93	40	850	3.8	93
15.28		71	820	6.6	93	58	840	5.6	93	45	850	4.4	93
13.76		79	795	7.1	93	65	830	6.1	93	50	850	4.9	93
12.07		91	765	7.8	93	74	810	6.8	93	57	840	5.5	93
10.65		103	750	8.7	93	84	785	7.4	93	65	830	6.1	93
9.44		116	720	9.4	94	95	765	8.2	94	74	810	6.7	94
8.06		136	725	11.1*	94	111	730	9.1	94	86	785	7.6	94

* P_{Mot_max} = 11.0 kW

500 – 10 min⁻¹

i _{tot}	i _s	n _e = 500 min ⁻¹				n _e = 250 min ⁻¹				n _e = 10 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
256.47	40/1	1.9	1500	0.46	67	0.97	1500	0.26	59	0.03	1500	<0.05	57
225.26		2.2	1500	0.51	69	1.1	1500	0.29	60	0.04	1500	<0.05	57
214.00		2.3	1500	0.53	69	1.1	1500	0.30	61	0.04	1500	<0.05	57
189.09		2.6	1500	0.59	71	1.3	1500	0.33	63	0.05	1500	<0.05	57
161.60		3.0	1500	0.67	72	1.5	1500	0.38	65	0.06	1500	<0.05	57
148.15		3.3	1500	0.73	73	1.6	1500	0.40	66	0.06	1500	<0.05	57
130.00		3.8	1500	0.82	74	1.9	1500	0.45	67	0.07	1500	<0.05	57
123.20		4.0	1500	0.86	74	2.0	1500	0.47	68	0.08	1500	<0.05	57
107.83		4.6	1500	0.97	75	2.3	1500	0.52	70	0.09	1500	<0.05	57
97.14		5.1	1500	1.1	76	2.5	1500	0.57	71	0.10	1500	<0.05	57
85.22		5.8	1500	1.2	77	2.9	1500	0.64	72	0.11	1500	<0.05	57
75.20		6.6	1500	1.3	78	3.3	1500	0.71	73	0.13	1500	<0.05	57
66.67		7.4	1500	1.5	78	3.7	1500	0.79	74	0.14	1500	<0.05	57
56.92		8.7	1500	1.8	79	4.3	1500	0.91	76	0.17	1500	<0.05	57
75.09	40/3	6.6	1450	1.2	85	3.3	1460	0.64	80	0.13	1500	<0.05	77
71.33		7.0	1460	1.3	85	3.5	1460	0.67	80	0.14	1500	<0.05	77
63.03		7.9	1460	1.4	86	3.9	1460	0.74	82	0.15	1460	<0.05	77
53.87		9.2	1450	1.6	87	4.6	1450	0.85	83	0.18	1450	<0.05	77
49.38		10	1440	1.7	87	5.0	1440	0.92	83	0.20	1440	<0.05	77
43.33		11	1430	2.0	88	5.7	1440	1.0	84	0.23	1440	<0.05	77
41.07		12	1400	2.0	88	6.0	1400	1.1	85	0.24	1400	<0.05	77
35.94		13	1360	2.2	89	6.9	1360	1.2	86	0.27	1360	0.05	77
32.38		15	1320	2.4	89	7.7	1320	1.2	86	0.30	1320	0.06	77
28.41		17	1280	2.6	89	8.7	1280	1.4	87	0.35	1280	0.06	77
25.07		19	1240	2.9	90	9.9	1240	1.5	87	0.39	1240	0.07	77
22.22		22	1200	3.1	90	11	1200	1.6	88	0.45	1200	0.07	77
18.97		26	1150	3.5	90	13	1150	1.8	89	0.52	1150	0.08	77
22.89	34/6	21	850	2.1	92	10	850	1.1	89	0.43	850	<0.05	84
20.99		23	850	2.3	92	11	850	1.2	89	0.47	850	0.05	84
18.42		27	850	2.6	92	13	850	1.3	90	0.54	850	0.06	84
17.45		28	850	2.8	92	14	850	1.4	90	0.57	850	0.06	84
15.28		32	850	3.1	93	16	850	1.6	91	0.65	850	0.07	84
13.76		36	850	3.5	93	18	850	1.8	91	0.72	850	0.08	84
12.07		41	850	4.0	93	20	850	2.0	92	0.82	850	0.09	84
10.65		46	850	4.5	93	23	850	2.3	92	0.93	850	0.10	84
9.44		52	850	5.1	93	26	850	2.6	92	1.0	850	0.11	84
8.06		62	830	5.8	94	31	850	3.0	93	1.2	850	0.13	84

11.23 Technical data S..87p

3400 – 2800 min⁻¹

i _{tot}	i _s	n _e = 3400 min ⁻¹				n _e = 3200 min ⁻¹				n _e = 2800 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
288.00	40/1	11	2580	4.0	80	11	2600	3.8	80	9.7	2680	3.4	80
258.18		13	2500	4.3	80	12	2520	4.1	80	10	2600	3.7	80
222.40		15	2400	4.8	80	14	2430	4.6	80	12	2520	4.2	80
202.96		16	2350	5.2	80	15	2370	4.9	80	13	2460	4.4	80
180.00		18	2240	5.6	80	17	2300	5.4	80	15	2380	4.9	80
151.30		22	1950	5.8	79	21	2120	5.9	80	18	2260	5.5	80
139.05		24	1860	6.0	79	23	1900	5.8	79	20	2210	5.8	80
123.48		27	1580	5.8	78	25	1730	6.0	79	22	1970	5.9	80
110.40		30	1430	5.9	78	28	1540	6.0	78	25	1820	6.1	79
99.26		34	1260	5.9	77	32	1380	6.0	78	28	1570	5.9	79
86.15		39	1030	5.6	76	37	1150	5.8	77	32	1390	6.1	78
77.14		44	830	5.2	74	41	970	5.6	75	36	1220	6.0	77
64.00		53	500	4.1	69	50	620	4.5	71	43	960	5.8	76
91.20	38/3	37	2140	9.2	91	35	2180	8.8	91	30	2230	7.9	91
81.76		41	2070	9.9	91	39	2100	9.5	91	34	2180	8.6	91
70.43		48	1980	11.0	91	45	2030	10.6	91	39	2090	9.6	91
64.27		52	1940	11.8	91	49	1970	11.3	91	43	2060	10.3	91
57.00		59	1860	12.8	91	56	1900	12.3	91	49	1980	11.2	91
47.91		70	1600	13.2	90	66	1760	13.6	91	58	1880	12.7	91
44.03		77	1470	13.2	90	72	1570	13.2	90	63	1830	13.4	91
39.10		86	1300	13.2	90	81	1400	13.3	90	71	1620	13.4	91
34.96		97	1140	13.0	90	91	1240	13.2	90	80	1440	13.4	90
31.43		108	1000	12.7	89	101	1090	13.0	89	89	1290	13.4	90
27.28		124	810	12.0	88	117	910	12.6	89	102	1110	13.3	90
24.43		139	660	11.0	87	130	775	12.0	88	114	960	12.9	89
20.27		167	395	8.2	84	157	490	9.4	86	138	755	12.3	89
25.50	34/6	133	1070	16.0	93	125	1090	15.4	93	109	1160	14.3	93
21.43		158	990	17.7	93	149	1020	17.1	93	130	1080	15.8	93
19.70		172	990	19.0*	93	162	990	18.1	93	142	1040	16.6	93
17.49		194	870	19.0*	93	182	930	19.0*	93	160	990	17.8	93
15.64		217	760	19.0*	93	204	830	19.0*	93	179	960	19.0*	93
14.06		241	660	18.1	92	227	725	19.0*	93	199	860	19.0*	93
12.21		278	540	17.2	92	262	605	18.0	92	229	730	19.0*	93
10.93		311	440	15.7	91	292	510	17.1	92	256	645	19.0*	92
9.07		374	255	11.3	89	352	325	13.3	90	308	500	17.6	92
7.88		431	200	10.4	87	406	230	11.1	88	355	375	15.3	91

* P_{Mot_max} = 18.5 kW

2200 – 1400 min⁻¹

i _{tot}	i _s	n _e = 2200 min ⁻¹				n _e = 1700 min ⁻¹				n _e = 1400 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
288.00	40/1	7.6	2770	2.8	80	5.9	2900	2.3	79	4.8	3000	2.0	78
258.18		8.5	2720	3.0	80	6.5	2840	2.5	79	5.4	2920	2.1	79
222.40		9.8	2660	3.4	80	7.6	2770	2.8	80	6.2	2860	2.4	79
202.96		10	2610	3.7	80	8.3	2730	3.0	80	6.8	2820	2.6	80
180.00		12	2540	4.1	80	9.4	2680	3.3	80	7.7	2780	2.8	80
151.30		14	2440	4.6	80	11	2580	3.8	80	9.2	2680	3.2	80
139.05		15	2380	4.9	80	12	2540	4.0	80	10	2670	3.5	80
123.48		17	2310	5.4	80	13	2460	4.4	80	11	2580	3.8	80
110.40		19	2210	5.8	80	15	2390	4.8	81	12	2510	4.1	81
99.26		22	2080	6.0	80	17	2340	5.2	81	14	2440	4.5	81
86.15		25	1870	6.3	80	19	2220	5.7	81	16	2360	5.0	81
77.14		28	1620	6.1	79	22	2130	6.1	81	18	2280	5.4	81
64.00		34	1360	6.2	79	26	1860	6.4	80	21	2160	6.1	81
91.20	38/3	24	2330	6.5	91	18	2420	5.2	91	15	2490	4.4	90
81.76		26	2280	7.1	91	20	2400	5.8	91	17	2460	4.9	90
70.43		31	2210	8.0	91	24	2330	6.5	91	19	2400	5.5	91
64.27		34	2190	8.6	91	26	2300	7.0	91	21	2380	6.0	91
57.00		38	2110	9.4	91	29	2230	7.7	91	24	2330	6.6	91
47.91		45	2030	10.7	91	35	2150	8.8	91	29	2260	7.6	91
44.03		49	1970	11.3	91	38	2110	9.4	91	31	2210	8.1	91
39.10		56	1890	12.3	91	43	2050	10.2	91	35	2160	8.9	91
34.96		62	1820	13.2	91	48	1990	11.1	91	40	2090	9.6	91
31.43		69	1720	13.9	91	54	1930	12.0	91	44	2040	10.4	91
27.28		80	1450	13.5	91	62	1840	13.2	91	51	1970	11.6	91
24.43		90	1310	13.7	90	69	1760	14.1	91	57	1890	12.4	91
20.27		108	1080	13.6	90	83	1450	14.0	91	69	1760	13.9	91
25.50	34/6	86	1270	12.3	94	66	1410	10.5	94	54	1440	8.8	94
21.43		102	1240	14.3	94	79	1320	11.7	94	65	1420	10.4	94
19.70		111	1240	15.5	94	86	1270	12.3	94	71	1370	10.9	94
17.49		125	1240	17.4	94	97	1240	13.5	94	80	1310	11.7	94
15.64		140	1230	19.0*	94	108	1240	15.1	94	89	1260	12.6	94
14.06		156	1110	19.0*	94	120	1240	16.8	94	99	1240	13.8	94
12.21		180	970	20.0*	93	139	1240	19.0*	94	114	1240	15.9	94
10.93		201	870	20.0*	93	155	1130	20.0*	94	128	1240	17.7	94
9.07		242	720	20.0*	93	187	950	20.0*	94	154	1140	20.0*	94
7.88		279	605	19.0*	93	215	830	20.0*	93	177	1010	20.0*	94

* P_{Mot_max} = 18.5 kW

1100 – 700 min⁻¹

i _{tot}	i _s	n _e = 1100 min ⁻¹				n _e = 900 min ⁻¹				n _e = 700 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
288.00	40/1	3.8	3000	1.6	77	3.1	3000	1.3	76	2.4	3000	1.0	74
258.18		4.2	2970	1.7	78	3.4	2970	1.4	77	2.7	2970	1.1	75
222.40		4.9	2950	1.9	79	4.0	2970	1.6	78	3.1	2970	1.3	76
202.96		5.4	2910	2.1	79	4.4	2970	1.8	78	3.4	2990	1.4	77
180.00		6.1	2890	2.3	79	5.0	2930	2.0	79	3.8	2990	1.6	77
151.30		7.2	2790	2.7	80	5.9	2880	2.3	79	4.6	2980	1.8	78
139.05		7.9	2780	2.9	80	6.4	2870	2.4	80	5.0	2960	2.0	79
123.48		8.9	2700	3.1	80	7.2	2790	2.7	80	5.6	2900	2.2	79
110.40		9.9	2650	3.4	81	8.1	2750	2.9	80	6.3	2860	2.4	80
99.26		11	2600	3.7	81	9.0	2700	3.2	81	7.0	2810	2.6	80
86.15		12	2510	4.2	81	10	2630	3.6	81	8.1	2750	2.9	81
77.14		14	2460	4.5	81	11	2560	3.9	81	9.0	2700	3.2	81
64.00		17	2330	5.2	81	14	2440	4.4	81	10	2600	3.7	81
91.20	38/3	12	2550	3.6	90	9.8	2310	2.7	89	7.6	2310	2.1	88
81.76		13	2530	4.0	90	11	2560	3.3	90	8.5	2610	2.6	89
70.43		15	2470	4.5	90	12	2530	3.8	90	9.9	2580	3.0	89
64.27		17	2440	4.8	91	14	2500	4.1	90	10	2560	3.3	90
57.00		19	2400	5.4	91	15	2470	4.5	90	12	2530	3.6	90
47.91		22	2350	6.2	91	18	2410	5.2	91	14	2500	4.2	90
44.03		24	2300	6.6	91	20	2400	5.7	91	15	2470	4.5	91
39.10		28	2280	7.4	91	23	2350	6.2	91	17	2440	5.0	91
34.96		31	2210	8.0	91	25	2300	6.8	91	20	2390	5.5	91
31.43		34	2170	8.7	91	28	2250	7.4	91	22	2370	6.1	91
27.28		40	2080	9.6	91	32	2190	8.3	91	25	2300	6.8	91
24.43		45	2030	10.5	91	36	2140	9.0	91	28	2250	7.4	91
20.27		54	1920	11.9	91	44	2030	10.3	92	34	2170	8.6	92
25.50	34/6	43	1440	7.0	93	35	1440	5.7	93	27	1440	4.5	93
21.43		51	1510	8.7	94	41	1510	7.1	94	32	1510	5.5	93
19.70		55	1500	9.4	94	45	1540	7.9	94	35	1570	6.3	93
17.49		62	1440	10.1	94	51	1510	8.7	94	40	1570	7.0	94
15.64		70	1380	10.8	94	57	1480	9.5	94	44	1540	7.7	94
14.06		78	1340	11.7	94	64	1440	10.3	94	49	1510	8.4	94
12.21		90	1340	13.5	94	73	1370	11.3	94	57	1460	9.3	94
10.93		100	1340	15.0	94	82	1360	12.5	94	64	1440	10.3	94
9.07		121	1340	18.1	94	99	1340	14.8	94	77	1380	11.9	94
7.88		139	1260	20.0*	94	114	1340	17.0	94	88	1340	13.3	94

* P_{Mot_max} = 18.5 kW

500 – 10 min⁻¹

i _{tot}	i _s	n _e = 500 min ⁻¹				n _e = 250 min ⁻¹				n _e = 10 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
288.00	40/1	1.7	3000	0.77	71	0.86	3000	0.43	63	0.03	3000	<0.05	60
258.18		1.9	2990	0.84	72	0.96	2990	0.47	64	0.03	3000	<0.05	60
222.40		2.2	3000	0.96	73	1.1	3000	0.54	66	0.04	3000	<0.05	60
202.96		2.4	3000	1.0	74	1.2	3000	0.58	67	0.04	3000	<0.05	60
180.00		2.7	3000	1.2	75	1.3	3000	0.64	68	0.05	3000	<0.05	60
151.30		3.3	3000	1.4	77	1.6	3000	0.74	70	0.06	3000	<0.05	60
139.05		3.5	3000	1.5	77	1.7	3000	0.79	71	0.07	3000	<0.05	60
123.48		4.0	2990	1.6	78	2.0	3000	0.88	73	0.08	3000	<0.05	60
110.40		4.5	2950	1.8	79	2.2	2950	0.95	74	0.09	2950	<0.05	60
99.26		5.0	2900	1.9	79	2.5	2900	1.0	75	0.10	2900	0.05	60
86.15		5.8	2880	2.2	80	2.9	2900	1.2	76	0.11	2900	0.06	60
77.14		6.4	2870	2.4	80	3.2	2900	1.3	77	0.12	2900	0.07	60
64.00		7.8	2770	2.8	81	3.9	2900	1.5	78	0.15	2900	0.08	60
91.20	38/3	5.4	2500	1.7	87	2.7	2280	0.80	82	0.10	2280	<0.05	80
81.76		6.1	2670	2.0	87	3.0	2500	0.97	83	0.12	2500	<0.05	80
70.43		7.0	2660	2.2	88	3.5	2580	1.1	84	0.14	2580	<0.05	80
64.27		7.7	2640	2.4	88	3.8	2530	1.2	85	0.15	2530	0.05	80
57.00		8.7	2620	2.7	89	4.3	2710	1.5	85	0.17	2790	0.06	80
47.91		10	2590	3.2	90	5.2	2690	1.7	86	0.20	2790	0.08	80
44.03		11	2560	3.4	90	5.6	2660	1.8	87	0.22	2790	0.08	80
39.10		12	2530	3.8	90	6.3	2660	2.0	88	0.25	2790	0.09	80
34.96		14	2510	4.2	90	7.1	2660	2.3	88	0.28	2810	0.11	80
31.43		15	2470	4.5	91	7.9	2610	2.5	89	0.31	2810	0.12	80
27.28		18	2440	5.2	91	9.1	2590	2.8	89	0.36	2790	0.13	80
24.43		20	2390	5.6	91	10	2590	3.1	90	0.40	2790	0.15	80
20.27		24	2320	6.6	91	12	2530	3.6	90	0.49	2810	0.18	80
25.50	34/6	19	1440	3.2	92	9.8	1440	1.6	90	0.39	1440	0.07	85
21.43		23	1510	4.0	93	11	1510	2.0	91	0.46	1510	0.09	85
19.70		25	1570	4.5	93	12	1570	2.3	91	0.50	1570	0.10	85
17.49		28	1570	5.0	93	14	1570	2.6	92	0.57	1570	0.11	85
15.64		31	1540	5.5	93	15	1540	2.8	92	0.63	1540	0.12	85
14.06		35	1510	6.0	94	17	1510	3.0	92	0.71	1510	0.13	85
12.21		40	1460	6.7	94	20	1460	3.4	93	0.81	1460	0.15	85
10.93		45	1440	7.4	94	22	1440	3.7	93	0.91	1440	0.16	85
9.07		55	1440	8.9	94	27	1440	4.5	93	1.1	1440	0.19	85
7.88		63	1440	10.2	94	31	1440	5.1	94	1.2	1440	0.22	85

11.24 Technical data S..97p

3400 – 2800 min⁻¹

i _{tot}	i _s	n _e = 3400 min ⁻¹				n _e = 3200 min ⁻¹				n _e = 2800 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
286.40	40/1	11	4300	6.6	81	11	4300	6.2	81	9.7	4300	5.4	81
262.22		12	4300	7.2	81	12	4300	6.8	81	10	4300	5.9	81
231.67		14	4150	7.9	81	13	4240	7.6	81	12	4300	6.7	81
196.52		17	3970	8.9	81	16	4010	8.4	81	14	4210	7.7	81
180.95		18	3780	9.2	81	17	3890	8.9	81	15	4090	8.2	81
161.74		21	3230	8.9	80	19	3540	9.1	81	17	3970	8.9	81
145.60		23	2800	8.6	79	21	3050	8.8	80	19	3720	9.3	81
131.85		25	2660	9.1	79	24	2740	8.8	79	21	3250	9.0	80
116.92		29	2320	9.0	78	27	2550	9.3	79	23	2760	8.7	80
105.71		32	1980	8.6	77	30	2210	9.0	78	26	2630	9.2	79
89.60		37	1280	6.9	74	35	1670	8.2	76	31	2210	9.2	79
78.26		43	970	6.2	71	40	1130	6.6	73	35	1770	8.6	77
65.45	37/3	51	675	5.5	67	48	795	5.9	69	42	1110	6.8	73
80.85		42	3410	16.4	92	39	3480	15.7	92	34	3640	14.4	92
71.43		47	3280	17.8	92	44	3340	17.1	92	39	3480	15.6	92
60.59		56	3020	19	91	52	3180	19	92	46	3310	17.5	92
55.79		60	2820	20	91	57	2950	19	91	50	3210	18.4	92
49.87		68	2710	21	91	64	2760	20	91	56	3060	20	92
44.89		75	2430	21	91	71	2630	22	91	62	2790	20	91
40.65		83	2170	21	91	78	2350	21	91	68	2680	21	91
36.05		94	1830	20	90	88	2020	21	91	77	2400	21	91
32.60		104	1560	19	90	98	1760	20	90	85	2150	21	91
27.63		123	1070	15.6	88	115	1320	17.9	89	101	1740	20	90
24.13		140	810	13.8	87	132	940	14.9	88	116	1390	19	90
26.39	35/6	128	1800	26	94	121	1840	25	94	106	1930	23	94
23.59		144	1750	28	94	135	1750	27	94	118	1850	24	94
21.23		160	1750	31*	94	150	1750	29	94	131	1770	26	94
19.23		176	1550	31*	94	166	1680	31	94	145	1750	28	94
17.05		199	1320	30	93	187	1450	30	94	164	1730	32*	94
15.42		220	1110	28	93	207	1260	29	93	181	1540	31*	94
13.07		260	725	22	92	244	940	26	92	214	1240	30	93
11.41		297	515	17.9	90	280	585	19	91	245	1000	28	93
9.55		356	375	15.8	88	335	435	17.1	89	293	580	20	91
8.26		411	290	14.4	87	387	335	15.5	88	338	455	17.9	90

* P_{Mot_max} = 30 kW

2200 – 1400 min⁻¹

i _{tot}	i _s	n _e = 2200 min ⁻¹				n _e = 1700 min ⁻¹				n _e = 1400 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
286.40	40/1	7.6	4300	4.3	81	5.9	4300	3.3	80	4.8	4300	2.8	80
262.22		8.3	4300	4.7	81	6.4	4300	3.6	81	5.3	4300	3.0	80
231.67		9.4	4300	5.3	81	7.3	4300	4.1	81	6	4300	3.4	81
196.52		11	4300	6.2	81	8.6	4300	4.8	81	7.1	4300	4.0	81
180.95		12	4300	6.7	81	9.3	4300	5.2	81	7.7	4300	4.3	81
161.74		13	4260	7.5	81	10	4300	5.8	81	8.6	4300	4.8	81
145.60		15	4150	8.1	81	11	4300	6.5	82	9.6	4300	5.3	81
131.85		16	3980	8.6	81	12	4300	7.1	82	10	4300	5.9	82
116.92		18	3840	9.3	81	14	4170	7.8	82	11	4300	6.6	82
105.71		20	3430	9.2	81	16	4030	8.3	82	13	4290	7.3	82
89.60		24	2780	8.9	80	18	3800	9.3	82	15	4070	8.1	82
78.26		28	2540	9.4	80	21	3360	9.4	81	17	3910	8.9	82
65.45		33	2120	9.4	79	25	2690	9.1	81	21	3520	9.6	82
80.85	37/3	27	3720	11.6	92	21	3710	8.9	92	17	3700	7.3	91
71.43		30	3710	13.0	92	23	3940	10.7	92	19	4100	9.2	92
60.59		36	3570	14.8	92	28	3810	12.2	92	23	3980	10.5	92
55.79		39	3510	15.8	92	30	3730	13.0	92	25	3910	11.2	92
49.87		44	3360	16.9	92	34	3640	14.1	92	28	3810	12.2	92
44.89		49	3270	18.3	92	37	3540	15.3	92	31	3710	13.2	92
40.65		54	3130	19	92	41	3420	16.3	92	34	3600	14.1	92
36.05		61	2810	20	92	47	3300	17.7	92	38	3500	15.5	92
32.60		67	2700	21	92	52	3200	19	92	42	3390	16.6	92
27.63		79	2390	22	91	61	2850	20	92	50	3230	19	92
24.13		91	2060	22	91	70	2670	21	92	58	3080	20	92
26.39	35/6	83	2550	24	94	64	2600	19	94	53	2600	15.3	94
23.59		93	2450	25	94	72	2600	21	94	59	2600	17.1	94
21.23		103	2380	27	94	80	2570	23	94	65	2600	19	94
19.23		114	2280	29	94	88	2500	25	94	72	2600	21	95
17.05		129	2170	31*	94	99	2400	27	94	82	2570	23	95
15.42		142	2040	32*	94	110	2300	28	94	90	2470	25	95
13.07		168	1720	32*	94	130	2170	31*	94	107	2330	28	95
11.41		192	1480	32*	94	148	2000	33*	94	122	2210	30	95
9.55		230	1200	31*	94	178	1670	33*	94	146	2040	33*	94
8.26		266	980	29	93	205	1440	33*	94	169	1770	33*	94

* P_{Mot_max} = 30 kW

1100 – 700 min⁻¹

i _{tot}	i _s	n _e = 1100 min ⁻¹				n _e = 900 min ⁻¹				n _e = 700 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
286.40	40/1	3.8	4300	2.2	79	3.1	4300	1.8	78	2.4	4300	1.4	77
262.22		4.1	4300	2.4	80	3.4	4300	2.0	79	2.6	4300	1.6	77
231.67		4.7	4300	2.7	80	3.8	4300	2.2	79	3.0	4300	1.7	78
196.52		5.5	4300	3.1	80	4.5	4300	2.6	80	3.5	4300	2.0	79
180.95		6.0	4300	3.4	81	4.9	4300	2.8	80	3.8	4300	2.2	79
161.74		6.8	4300	3.8	81	5.5	4300	3.1	81	4.3	4300	2.4	80
145.60		7.5	4300	4.2	81	6.1	4300	3.4	81	4.8	4300	2.7	80
131.85		8.3	4300	4.6	81	6.8	4300	3.8	81	5.3	4300	3.0	81
116.92		9.4	4300	5.2	82	7.6	4300	4.3	81	5.9	4300	3.3	81
105.71		10	4300	5.7	82	8.5	4300	4.7	82	6.6	4300	3.7	81
89.60		12	4300	6.7	82	10	4300	5.5	82	7.8	4300	4.3	82
78.26		14	4230	7.6	82	11	4300	6.3	82	8.9	4300	4.9	82
65.45		16	3980	8.5	82	13	4240	7.4	82	10	4300	5.9	82
80.85	37/3	13	3690	5.8	91	11	3670	4.7	91	8.6	3640	3.7	90
71.43		15	4200	7.4	92	12	4200	6.1	91	9.7	4200	4.8	91
60.59		18	4160	8.6	92	14	4270	7.3	92	11	4300	5.7	91
55.79		19	4110	9.2	92	16	4210	7.8	92	12	4300	6.2	91
49.87		22	4030	10.1	92	18	4160	8.6	92	14	4300	6.9	92
44.89		24	3930	11.0	92	20	4070	9.3	92	15	4270	7.6	92
40.65		27	3860	11.9	92	22	4030	10.2	92	17	4190	8.2	92
36.05		30	3740	13.0	92	24	3900	11.1	92	19	4110	9.1	92
32.60		33	3630	13.9	92	27	3820	12.0	92	21	4040	9.9	92
27.63		39	3490	15.8	92	32	3670	13.6	92	25	3900	11.2	92
24.13		45	3320	17.2	92	37	3560	15.1	92	29	3770	12.4	92
26.39	35/6	41	2650	12.3	94	34	2620	9.9	94	26	2700	8.0	94
23.59		46	2650	13.7	94	38	2650	11.2	94	29	2670	8.8	94
21.23		51	2650	15.2	94	42	2650	12.5	94	32	2620	9.6	94
19.23		57	2650	16.8	95	46	2650	13.8	94	36	2620	10.6	94
17.05		64	2670	19	95	52	2650	15.5	95	41	2650	12.1	94
15.42		71	2670	21	95	58	2650	17.1	95	45	2650	13.3	95
13.07		84	2540	24	95	68	2670	20	95	53	2650	15.7	95
11.41		96	2420	26	95	78	2590	23	95	61	2650	18.0	95
9.55		115	2280	29	95	94	2440	25	95	73	2650	21	95
8.26		133	2140	32*	95	108	2320	28	95	84	2540	24	95

* P_{Mot_max} = 30 kW

500 – 10 min⁻¹

i _{tot}	i _s	n _e = 500 min ⁻¹				n _e = 250 min ⁻¹				n _e = 10 min ⁻¹			
		n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %	n _a min ⁻¹	M _{amax} Nm	P _{Mot} kW	η %
286.40	40/1	1.7	4300	1.1	74	0.87	4300	0.58	67	0.03	4300	<0.05	61
262.22		1.9	4300	1.1	75	0.95	4300	0.63	68	0.03	4300	<0.05	61
231.67		2.1	4300	1.3	76	1.0	4300	0.70	70	0.04	4300	<0.05	61
196.52		2.5	4300	1.5	77	1.2	4300	0.80	72	0.05	4300	<0.05	61
180.95		2.7	4300	1.6	78	1.3	4300	0.86	72	0.05	4300	<0.05	61
161.74		3.0	4300	1.8	79	1.5	4300	0.95	74	0.06	4300	<0.05	61
145.60		3.4	4300	2.0	79	1.7	4300	1.0	75	0.06	4300	0.05	61
131.85		3.7	4300	2.1	80	1.8	4300	1.1	75	0.07	4300	0.06	61
116.92		4.2	4300	2.4	80	2.1	4300	1.3	76	0.08	4300	0.06	61
105.71		4.7	4300	2.6	81	2.3	4300	1.4	77	0.09	4300	0.07	61
89.60		5.5	4300	3.1	81	2.7	4300	1.6	78	0.11	4300	0.08	61
78.26		6.3	4300	3.5	82	3.1	4300	1.8	79	0.12	4300	0.09	61
65.45		7.6	4300	4.2	82	3.8	4300	2.1	80	0.15	4300	0.11	61
80.85	37/3	6.1	3600	2.6	89	3.0	3250	1.2	86	0.12	3250	0.05	81
71.43		6.9	4200	3.4	90	3.4	4160	1.8	87	0.13	4160	0.08	81
60.59		8.2	4300	4.1	90	4.1	4300	2.1	88	0.16	4300	0.09	81
55.79		8.9	4300	4.5	91	4.4	4300	2.3	88	0.17	4300	0.10	81
49.87		10	4300	5.0	91	5.0	4300	2.6	89	0.20	4300	0.11	81
44.89		11	4300	5.5	91	5.5	4300	2.8	89	0.22	4300	0.12	81
40.65		12	4300	6.1	91	6.1	4300	3.1	89	0.24	4300	0.14	81
36.05		13	4290	6.8	92	6.9	4300	3.5	90	0.27	4300	0.15	81
32.60		15	4280	7.5	92	7.6	4300	3.8	90	0.30	4300	0.17	81
27.63		18	4150	8.5	92	9.0	4300	4.5	91	0.36	4300	0.20	81
24.13		20	4070	9.6	92	10	4300	5.1	91	0.41	4300	0.23	81
26.39	35/6	18	2790	5.9	94	9.4	2790	3.0	92	0.37	2790	0.13	87
23.59		21	2710	6.4	94	10	2710	3.3	93	0.42	2710	0.14	87
21.23		23	2740	7.2	94	11	2790	3.7	93	0.47	2790	0.16	87
19.23		26	2700	7.8	94	13	2790	4.1	93	0.52	2790	0.17	87
17.05		29	2670	8.7	94	14	2790	4.6	93	0.58	2790	0.20	87
15.42		32	2620	9.4	94	16	2790	5.1	94	0.64	2790	0.22	87
13.07		38	2650	11.2	95	19	2790	6.0	94	0.76	2790	0.26	87
11.41		43	2650	12.9	95	21	2780	6.8	94	0.87	2790	0.29	87
9.55		52	2650	15.3	95	26	2700	7.8	94	1.0	2790	0.35	87
8.26		60	2650	17.7	95	30	2670	9.0	95	1.2	2790	0.41	87