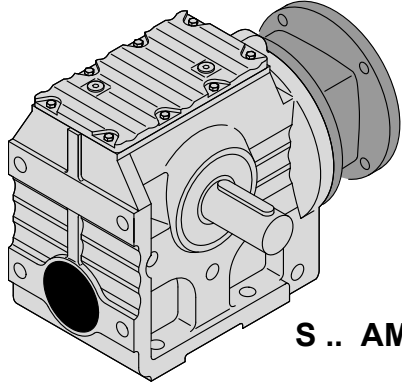
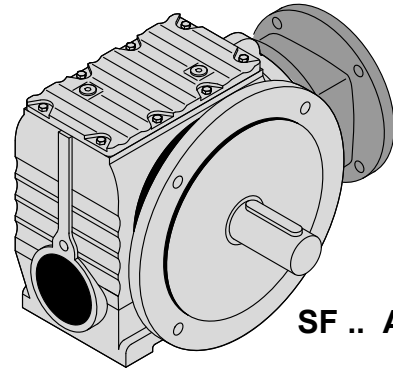


11 S..

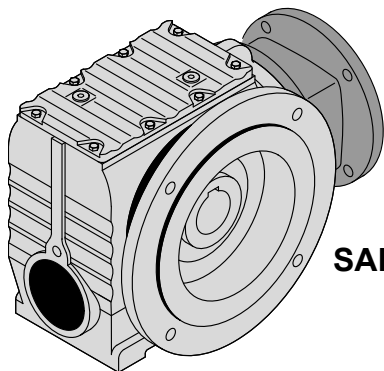
11.1 S.. AM.. [Nm]



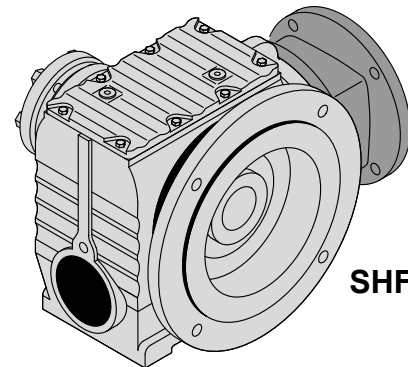
S .. AM..



SF .. AM..

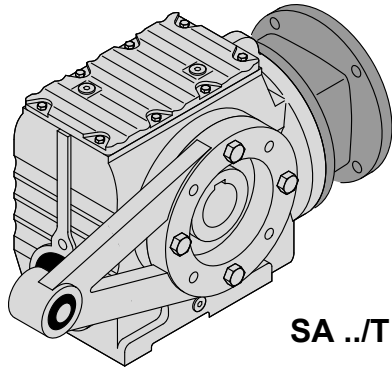
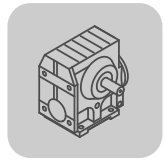


SAF .. AM..

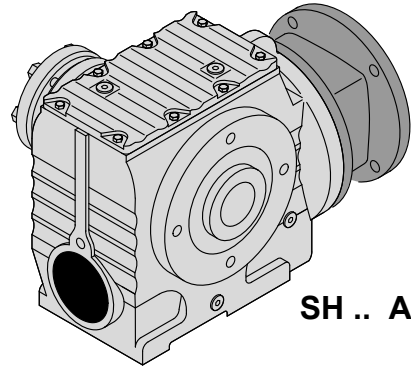


SHF .. AM..

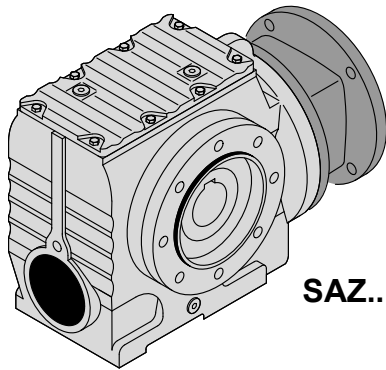
50413axx



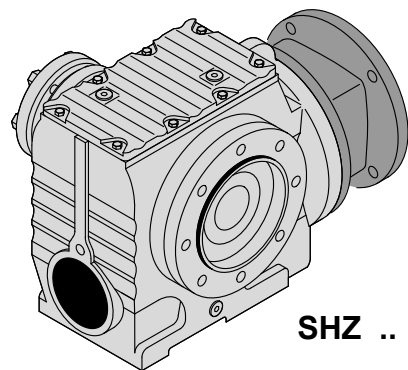
SA ..T AM..



SH .. AM..

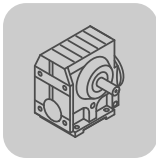


SAZ.. AM..



SHZ .. AM..

50414axx



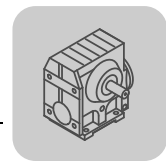
## 11.1.1 S37

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

S37  
 2

m [kg]		AM			
IEC	s	63	71	80	90
S37	$\frac{2}{3}$	8.8	9.0	11	11
NEMA		-	56	143	145
S37	$\frac{2}{3}$	-	9.4	11	11

SF: + 1.3 kg / SA: + -0.3 kg / SAF: + 1.3 kg



11.1.2 S47

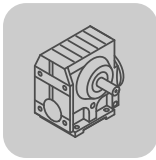
$n_e = 1400$ 1/min						185 Nm			
	i	$n_a$ [1/min]	$M_{a\ max}$ [Nm]	$F_{Ra}$ [N]	$\varphi$ (/R) [ ' ]	AM			
						63	71	80	90
	4.00	350	61	1980	-				
	4.76	294	72	2010	-				
	5.39	260	74	2110	-				
	6.40	219	76	2260	-				
	6.83	205	78	2300	-				
	7.28	192	103	2110	-				
	8.64	162	109	2230	-				
	9.23	152	109	2310	-				
	10.80	130	109	2500	-				
	12.10	116	109	2650	-				
	14.24	98	110	2850	-				
	16.47	85	110	3060	-				
	17.62	79	110	3160	-				
	19.54	72	144	3370	-				
	20.33	69	110	3370	-				
	23.20	60	152	3570	-				
	24.77	57	155	3650	-				
	29.00	48	155	3920	-				
	32.48	43	155	4120	-				
	38.23	37	155	4420	-				
	44.22	32	155	4710	-				
	47.32	30	155	4850	-				
	54.59	26	155	5150	-				
	56.61	25	165	5320	-				
	63.80	22	155	5370	-				
	67.20	21	167	5360	-				
	69.39	20	155	5370	-				
	71.75	20	167	5360	-				
	84.00	17	167	5360	-				
	94.08	15	168	5350	-				
	110.73	13	168	5350	-				
	128.10	11	168	5350	-				
	137.05	10	168	5350	-				
	158.12	8.9	170	5340	-				
	184.80	7.6	170	5340	-				
	201.00	7.0	170	5340	-				

S47  
 2

11

m [kg]		AM			
IEC	s	63	71	80	90
S47	2	12	12	14	14
NEMA		-	56	143	145
S47	2	-	12	14	14

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



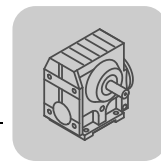
## 11.1.3 S57

$n_e = 1400$ 1/min						330 Nm			
	i	$n_a$ [1/min]	$M_{a\ max}$ [Nm]	$F_{Ra}$ [N]	$\varphi$ (/R) [ ' ]	AM			
						63	71	80	90
	4.00	350	88	3380	-				
	4.76	294	93	3590	-				
	5.39	260	95	3760	-				
	6.40	219	98	4010	-				
	6.83	205	100	4100	-				
	7.28	192	146	3790	-				
	8.64	162	166	3900	-				
	9.23	152	169	3990	-				
	10.80	130	169	4290	-				
	12.10	116	169	4520	-				
	14.24	98	169	4860	-				
	16.47	85	168	5200	-				
	17.62	79	168	5350	-				
	19.54	72	215	5720	-				
	20.33	69	168	5690	-				
	23.20	60	245	5930	-				
	24.77	57	245	6100	-				
	29.00	48	245	6520	-				
	32.48	43	245	6840	-				
	38.23	37	245	7320	-				
	44.22	32	245	7520	-				
	47.32	30	245	7520	-				
	54.59	26	245	7520	-				
	56.61	25	265	7370	-				
	63.80	22	245	7520	-				
	67.20	21	285	7220	-				
	69.39	20	245	7520	-				
	71.75	20	290	7170	-				
	84.00	17	295	7130	-				
	94.08	15	295	7130	-				
	110.73	13	295	7130	-				
	128.10	11	295	7130	-				
	137.05	10	295	7130	-				
	158.12	8.9	295	7130	-				
	184.80	7.6	295	7130	-				
	201.00	7.0	295	7130	-				

S57  
 2

m [kg]		AM			
IEC	s	63	71	80	90
S57	2	16	16	18	18
NEMA		-	56	143	145
S57	2	-	16	18	18

SF: + 3.8 kg / SA: + -0.3 kg / SAF: + 2.6 kg



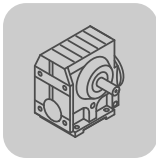
11.1.4 S67

$n_e = 1400$ 1/min						570 Nm						
	i	$n_a$ [1/min]	$M_{a\ max}$ [Nm]	$F_{Ra}$ [N]	$\varphi$ (/R) [ ' ]	63	71	80	AM 90	100	112	132S/M
<b>S67</b> 2	7.56	185	295	3220	-							
	8.69	161	335	2860	-							
	10.03	140	340	3290	-							
	11.03	127	340	3660	-							
	12.96	108	340	4310	-							
	13.73	102	340	4510	-							
	15.60	90	340	4820	-							
	17.28	81	340	5080	-							
	20.30	69	425	5760	-							
	20.37	69	340	5520	-							
	23.22	60	340	5890	-							
	23.33	60	480	5810	-							
	24.44	57	340	6040	-							
	26.93	52	480	6240	-							
	29.63	47	480	6540	-							
	34.80	40	480	7060	-							
	36.85	38	480	7250	-							
	41.89	33	480	7690	-							
	46.40	30	480	8060	-							
	54.70	26	480	8670	-							
	58.80	24	500	8850	-							
	62.35	22	480	9020	-							
	65.63	21	480	9020	-							
	67.57	21	520	8680	-							
	75.06	19	480	9020	-							
	78.00	18	520	8680	-							
	85.83	16	520	8680	-							
	100.80	14	520	8680	-							
106.75	13	520	8680	-								
121.33	12	520	8680	-								
134.40	10	520	8680	-								
158.45	8.8	520	8680	-								
180.60	7.8	520	8680	-								
190.11	7.4	520	8680	-								
217.41	6.4	520	8680	-								

11

m [kg]		AM						
IEC	s	63	71	80	90	100	112	132S/M
S67		27	27	29	29	34	34	41
NEMA		-	56	143	145	182	184	213/215
S67		-	27	29	29	33	33	39

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



## 11.1.5 S77

$n_e = 1400$ 1/min						1270 Nm						
i	$n_a$ [1/min]	$M_{a \max}$ [Nm]	$F_{Ra}$ [N]	$\varphi$ (/R) [ ' ]	AM							
					63	71	80	90	100	112	132S/M	132ML
8.06	174	680	440	-								
9.44	148	725	415	-								
10.65	131	720	1130	-								
12.07	116	720	1800	-								
13.76	102	710	2710	-								
15.28	92	710	3320	-								
17.45	80	710	4120	-								
18.42	76	705	4550	-								
18.97	74	930	6390	-								
20.99	67	705	5380	-								
22.22	63	980	6740	-								
22.89	61	705	5960	-								
25.07	56	1020	7010	-								
28.41	49	1050	7370	-								
32.38	43	1090	7720	-								
35.94	39	1100	8140	-								
41.07	34	1100	8750	-								
43.33	32	1100	9010	-								
49.38	28	1100	9650	-								
53.87	26	1100	10100	-								
56.92	25	990	11600	-								
63.03	22	1100	10900	-								
66.67	21	1040	12300	-								
71.33	20	1100	11600	-								
75.09	19	1100	11900	-								
75.20	19	1070	12800	-								
85.22	16	1100	13100	-								
97.14	14	1140	12800	-								
107.83	13	1170	12600	-								
123.20	11	1200	12300	-								
130.00	11	1210	12200	-								
148.15	9.4	1240	12000	-								
161.60	8.7	1260	11800	-								
189.09	7.4	1270	11700	-								
214.00	6.5	1270	11700	-								
225.26	6.2	1270	11700	-								
256.47	5.5	1270	11700	-								

S77  
 2

m [kg]		AM							
IEC	s	63	71	80	90	100	112	132S/M	132ML
S77	2	47	47	49	49	54	54	61	61
NEMA		-	56	143	145	182	184	213/215	-
S77	2	-	47	49	49	53	53	59	-

SF: + 9.7 kg / SA: + -0.5 kg / SAF: + 6.2 kg



11.1.6 S87

$n_e = 1400$ 1/min						2500 Nm							
i	$n_a$ [1/min]	$M_{a \max}$ [Nm]	$F_{Ra}$ [N]	$\varphi$ (/R) [ ' ]	AM								
					80	90	100	112	132S/M	132ML	160	180	
7.88	178	1010	15700	-									
9.07	154	1140	15900	-									
10.93	128	1240	16400	-									
12.21	115	1240	17400	-									
14.06	100	1240	18500	-									
15.64	90	1240	19300	-									
17.49	80	1240	20200	-									
19.70	71	1240	21100	-									
20.27	69	1600	22100	-									
21.43	65	1240	21800	-									
24.43	57	1600	23700	-									
25.50	55	1240	23400	-									
27.28	51	1600	24700	-									
31.43	45	1600	26000	-									
34.96	40	1600	27100	-									
39.10	36	1600	28200	-									
44.03	32	1600	29000	-									
47.91	29	1600	29000	-									
57.00	25	1600	29000	-									
64.00	22	1700	28900	-									
64.27	22	1600	29000	-									
70.43	20	1600	29000	-									
77.14	18	1820	28700	-									
81.76	17	1600	29000	-									
86.15	16	1880	28600	-									
91.20	15	1510	29100	-									
99.26	14	1960	28500	-									
110.40	13	2000	28400	-									
123.48	11	2060	28300	-									
139.05	10	2100	28300	-									
151.30	9.3	2150	28200	-									
180.00	7.8	2210	28100	-									
202.96	6.9	2260	28000	-									
222.40	6.3	2280	27900	-									
258.18	5.4	2280	27900	-									
288.00	4.9	2280	27900	-									

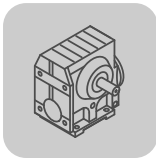
S87  
 2

11

m [kg]		AM							
IEC	s	80	90	100	112	132S/M	132ML	160	180
S87	2	85	85	90	90	97	97	115	115
NEMA		143	145	182	184	213/215	-	254/256	284/286
S87	2	85	85	89	89	95	-	110	110

SF: + 21.7 kg / SA: + 2.4 kg / SAF: + 13.8 kg





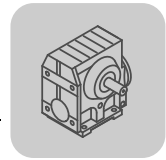
## 11.1.7 S97

$n_e = 1400$ 1/min						4200 Nm							
i	$n_a$ [1/min]	$M_{a\ max}$ [Nm]	$F_{Ra}$ [N]	$\varphi$ (/R) [ ' ]	AM								
					100	112	132S/M	132ML	160	180	200	225	
8.26	169	1770	18800	-									
9.55	147	2040	18200	-									
11.41	123	2210	18400	-									
13.07	107	2330	18800	-									
15.42	91	2470	19400	-									
17.05	82	2570	19700	-									
19.23	73	2600	21200	-									
21.23	66	2600	22800	-									
23.59	59	2600	24500	-									
24.13	58	2870	28000	-									
26.39	53	2600	26100	-									
27.63	51	3010	29000	-									
32.60	43	3200	30400	-									
36.05	39	3300	31300	-									
40.65	34	3300	32800	-									
44.89	31	3300	34100	-									
49.87	28	3300	34500	-									
55.79	25	3300	34500	-									
60.59	23	3300	34500	-									
65.45	21	2900	35100	-									
71.43	20	3300	34500	-									
78.26	18	3080	34800	-									
80.85	17	3230	34600	-									
89.60	16	3240	34600	-									
105.71	13	3440	34300	-									
116.92	12	3510	34100	-									
131.85	11	3650	33900	-									
145.60	9.6	3730	33700	-									
161.74	8.7	3840	33500	-									
180.95	7.7	3920	33400	-									
196.52	7.1	4000	33200	-									
231.67	6.0	4000	33200	-									
262.22	5.3	4000	33200	-									
286.40	4.9	4000	33200	-									

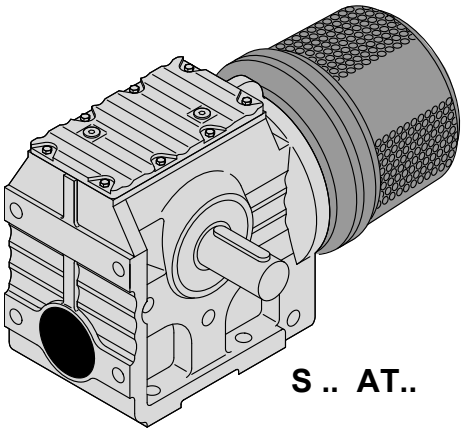
S97  
 2

m [kg]		AM							
IEC	s	100	112	132S/M	132ML	160	180	200	225
S97	2	150	150	155	155	175	175	190	195
NEMA		182	184	213/215	-	254/256	284/286	324/326	364/365
S97	2	150	150	155	-	170	170	190	190

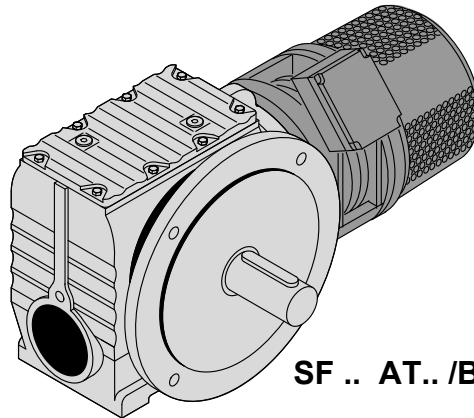
SF: + 32.7 kg / SA: + -5.4 kg / SAF: + 20.7 kg



11.2 S.. AT..

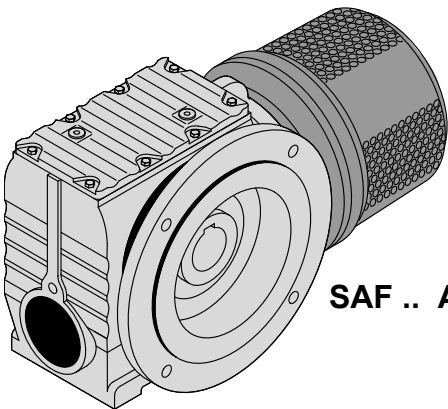


S .. AT..

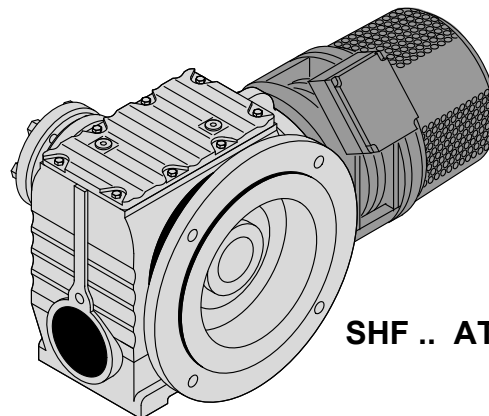


SF .. AT.. /BM(G)

11

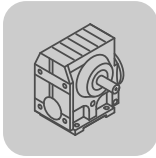


SAF .. AT..

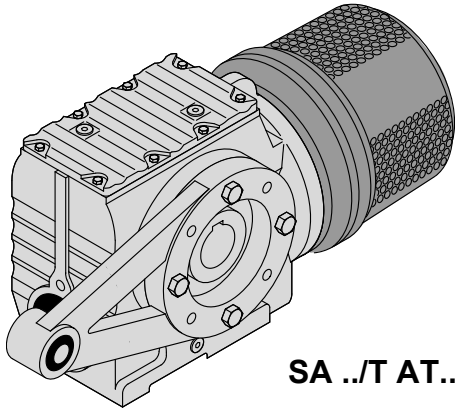


SHF .. AT.. /BM(G)

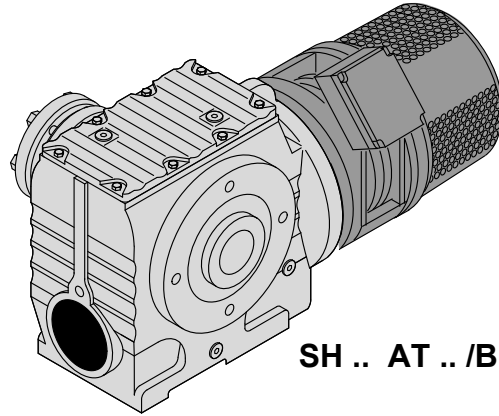
50419AXX



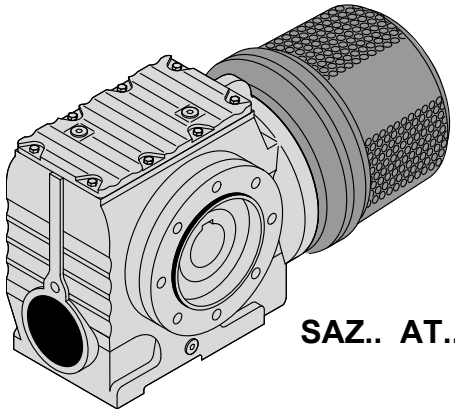
S..  
S.. AT..



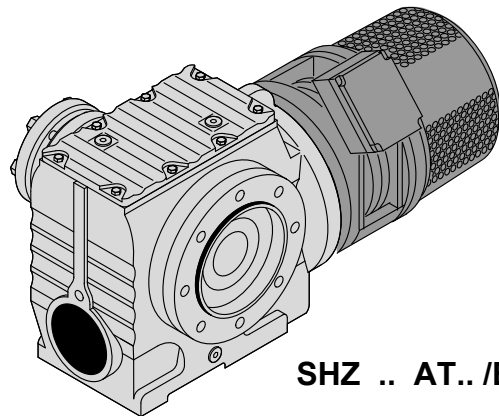
SA .. / T AT..



SH .. AT .. / BM(G)

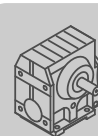


SAZ.. AT..











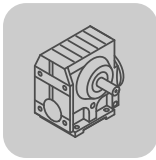
SHZ .. AT.. / BM(G)









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







## 11.2.1 S..AT/ DRS..4

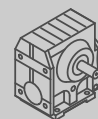
			$P_m$ [kW]				$S_n$ [%]	
<b>S67</b>	DRS71S4		0,37	AT311	T11	0,42	12	
	DRS71M4		0,55	AT312	T11D	0,55	11	
	DRS80S4		0,75	AT312	T11D	0,7	11	
	DRS80M4		1,1	AT312	T11D	0,72	15	
	DRS90M4		1,5	AT321	T21	0,85	9	
	DRS90L4		2,2	AT321	T21	0,9	13	
	DRS100M4		3	AT322	T21D	1,53	11	
	DRS100LC4		4	AT322	T21D	1,6	12	
<b>S77</b>	DRS71S4		0,37	AT311	T11	0,42	12	
	DRS71M4		0,55	AT312	T11D	0,55	11	
	DRS80S4		0,75	AT312	T11D	0,7	11	
	DRS80M4		1,1	AT312	T11D	0,72	15	
	DRS90M4		1,5	AT421	T21	0,85	9	
	DRS90L4		2,2	AT421	T21	0,9	13	
	DRS100M4		3	AT422	T21D	1,53	11	→  479ff
	DRS100LC4		4	AT422	T21D	1,6	12	→  481ff
	DRS112M4		4	AT422	T21D	1,6	12	
<b>S87</b>	DRS80M4		1,1	AT312	T11D	0,72	15	
	DRS90M4		1,5	AT421	T21	0,85	9	
	DRS90L4		2,2	AT421	T21	0,9	13	
	DRS100M4		3	AT422	T21D	1,53	11	
	DRS100LC4		4	AT422	T21D	1,6	12	
	DRS112M4		4	AT422	T21D	1,6	12	
	DRS132S4		5,5	AT541	T41	2	6	
	DRS132M4		7,5	AT541	T41	2,4	8	
	DRS132MC4		9,2	AT541	T41	2,5	10	
	DRS160S4		9,2	AT541	T41	2,5	10	
	DRS160M4		11	AT541	T41	2,5	13	
	DRS160MC4		15	AT542	T41D	4,2	8	
	DRS180S4		15	AT542	T41D	4,2	8	











			$P_m$ [kW]				Sn [%]	
<b>S97</b>	DRS80M4		1,1	AT312	T11D	0,72	15	
	DRS90M4		1,5	AT421	T21	0,85	9	
	DRS90L4		2,2	AT421	T21	0,9	13	
	DRS100M4		3	AT422	T21D	1,53	11	
	DRS100LC4		4	AT422	T21D	1,6	12	
	DRS112M4		4	AT422	T21D	1,6	12	
	DRS132S4		5,5	AT541	T41	2	6	→  479ff
	DRS132M4		7,5	AT541	T41	2,4	8	→  481ff
	DRS132MC4		9,2	AT541	T41	2,5	10	
	DRS160S4		9,2	AT541	T41	2,5	10	
	DRS160M4		11	AT541	T41	2,5	13	
	DRS160MC4		15	AT542	T41D	4,2	8	
	DRS180S4		15	AT542	T41D	4,2	8	
	DRS180M4		18,5	AT542	T41D	4,3	10	
DRS180L4		22	AT542	T41D	4,3	14		









## 11.2.2 S..AT/ DRE..4

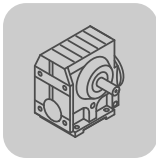
			$P_m$ [kW]				Sn [%]	
<b>S67</b>	DRE80M4		0,75	AT312	T11D	0,7	11	
	DRE90M4		1,1	AT312	T11D	0,72	15	
	DRE90L4		1,5	AT321	T21	0,85	9	
	DRE100M4		2,2	AT321	T21	0,9	13	
	DRE100LC4		3	AT322	T21D	1,53	11	
<b>S77</b>	DRE80M4		0,75	AT312	T11D	0,7	11	
	DRE90M4		1,1	AT312	T11D	0,72	15	
	DRE90L4		1,5	AT421	T21	0,85	9	
	DRE100M4		2,2	AT421	T21	0,9	13	
	DRE100LC4		3	AT422	T21D	1,53	11	
	DRE112M4		3	AT422	T21D	1,53	11	
	DRE132S4		4	AT422	T21D	1,6	12	→  479ff
<b>S87</b>	DRE90M4		1,1	AT312	T11D	0,72	15	→  481ff
	DRE90L4		1,5	AT421	T21	0,85	9	
	DRE100M4		2,2	AT421	T21	0,9	13	
	DRE100LC4		3	AT422	T21D	1,53	11	
	DRE112M4		3	AT422	T21D	1,53	11	
	DRE132S4		4	AT422	T21D	1,6	12	
	DRE132M4		5,5	AT541	T41	2	6	
	DRE132MC4		7,5	AT541	T41	2,4	8	
	DRE160M4		9,2	AT541	T41	2,5	10	
	DRE160MC4		11	AT541	T41	2,5	13	
DRE180S4		11	AT541	T41	2,5	13		
DRE180M4		15	AT542	T41D	4,2	8		











			$P_m$ [kW]				$S_n$ [%]	
<b>S97</b>	DRE90M4		1,1	AT312	T11D	0,72	15	
	DRE90L4		1,5	AT421	T21	0,85	9	
	DRE100M4		2,2	AT421	T21	0,9	13	
	DRE100LC4		3	AT422	T21D	1,53	11	
	DRE112M4		3	AT422	T21D	1,53	11	
	DRE132S4		4	AT422	T21D	1,6	12	
	DRE132M4		5,5	AT541	T41	2	6	→  479ff
	DRE132MC4		7,5	AT541	T41	2,4	8	→  481ff
	DRE160M4		9,2	AT541	T41	2,5	10	
	DRE160MC4		11	AT541	T41	2,5	13	
	DRE180S4		11	AT541	T41	2,5	13	
	DRE180M4		15	AT542	T41D	4,2	8	
	DRE180L4		18,5	AT542	T41D	4,3	10	









## 11.2.3 S..AT/ DRP..4

			$P_m$ [kW]				$S_n$ [%]	
<b>S67</b>	DRP90M4		0,75	AT312	T11D	0,7	11	
	DRP90L4		1,1	AT312	T11D	0,72	15	
	DRP100M4		1,5	AT321	T21	0,85	9	
	DRP100L4		2,2	AT321	T21	0,9	13	
<b>S77</b>	DRP90M4		0,75	AT312	T11D	0,7	11	
	DRP90L4		1,1	AT312	T11D	0,72	15	
	DRP100M4		1,5	AT421	T21	0,85	9	
	DRP100L4		2,2	AT421	T21	0,9	13	
	DRP112M4		3	AT422	T21D	1,53	11	
	DRP132M4		4	AT422	T21D	1,6	12	
<b>S87</b>	DRP90L4		1,1	AT312	T11D	0,72	15	→  479ff
	DRP100M4		1,5	AT421	T21	0,85	9	→  481ff
	DRP100L4		2,2	AT421	T21	0,9	13	
	DRP112M4		3	AT422	T21D	1,53	11	
	DRP132M4		4	AT422	T21D	1,6	12	
	DRP132MC4		5,5	AT541	T41	2	6	
	DRP160S4		5,5	AT541	T41	2	6	
	DRP160M4		7,5	AT541	T41	2,4	8	
	DRP160MC4		9,2	AT541	T41	2,5	10	
	DRP180S4		9,2	AT541	T41	2,5	10	
	DRP180M4		11	AT541	T41	2,5	13	
DRP180L4		15	AT542	T41D	4,2	8		











			$P_m$ [kW]				$S_n$ [%]	
<b>S97</b>	DRP90L4		1,1	AT312	T11D	0,72	15	
	DRP100M4		1,5	AT421	T21	0,85	9	
	DRP100L4		2,2	AT421	T21	0,9	13	
	DRP112M4		3	AT422	T21D	1,53	11	
	DRP132M4		4	AT422	T21D	1,6	12	
	DRP132MC4		5,5	AT541	T41	2	6	→  479ff
	DRP160S4		5,5	AT541	T41	2	6	→  481ff
	DRP160M4		7,5	AT541	T41	2,4	8	
	DRP160MC4		9,2	AT541	T41	2,5	10	
	DRP180S4		9,2	AT541	T41	2,5	10	
	DRP180M4		11	AT541	T41	2,5	13	
	DRP180L4		15	AT542	T41D	4,2	8	

## 11.2.4 S..AT/ DRS..2








			$P_m$ [kW]				$S_n$ [%]	
<b>S67</b>	DRS71M2		0,55	AT311	T11	0,19	3	
	DRS80S2		0,75	AT311	T11	0,22	4,5	
	DRS80M2		1,1	AT311	T11	0,27	6	
	DRS90M2		1,5	AT311	T11	0,29	8,5	
	DRS100M2		3	AT311	T11	0,4	12	
	DRS100LC2		4	AT312	T11D	0,52	10	
<b>S77</b>	DRS71M2		0,55	AT311	T11	0,19	3	
	DRS80S2		0,75	AT311	T11	0,22	4,5	
	DRS80M2		1,1	AT311	T11	0,27	6	
	DRS90M2		1,5	AT311	T11	0,29	8,5	→  479ff
	DRS100M2		3	AT311	T11	0,4	12	
	DRS100LC2		4	AT312	T11D	0,52	10	→  481ff
	DRS132M2		9,2	AT421	T21	0,65	8,5	
<b>S87</b>	DRS90M2		1,5	AT311	T11	0,29	8,5	
	DRS100M2		3	AT311	T11	0,4	12	
	DRS100LC2		4	AT312	T11D	0,52	10	
	DRS132M2		9,2	AT421	T21	0,65	8,5	
<b>S97</b>	DRS90M2		1,5	AT311	T11	0,29	8,5	
	DRS100M2		3	AT311	T11	0,4	12	
	DRS100LC2		4	AT312	T11D	0,52	10	
	DRS132M2		9,2	AT421	T21	0,65	8,5	



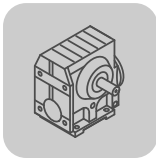
11.2.5 S..AT/ DRE..2

		$P_m$ [kW]				$S_n$ [%]	
<b>S67</b>	DRE80M2	0,75	AT311	T11	0,22	4,5	 479ff  481ff
	DRE90M2	1,5	AT311	T11	0,29	8,5	
	DRE100M2	2,2	AT311	T11	0,31	11,5	
	DRE100L2	3	AT311	T11	0,4	12	
<b>S77</b>	DRE80M2	0,75	AT311	T11	0,22	4,5	
	DRE90M2	1,5	AT311	T11	0,29	8,5	
	DRE100M2	2,2	AT311	T11	0,31	11,5	
	DRE100L2	3	AT311	T11	0,4	12	
	DRE132M2	7,5	AT421	T21	0,6	8	
	DRE132MC2	9,2	AT421	T21	0,65	8,5	
<b>S87</b>	DRE90M2	1,5	AT311	T11	0,29	8,5	
	DRE100M2	2,2	AT311	T11	0,31	11,5	
	DRE100L2	3	AT311	T11	0,4	12	
	DRE132M2	7,5	AT421	T21	0,6	8	
	DRE132MC2	9,2	AT421	T21	0,65	8,5	
<b>S97</b>	DRE90M2	1,5	AT311	T11	0,29	8,5	
	DRE100M2	2,2	AT311	T11	0,31	11,5	
	DRE100L2	3	AT311	T11	0,4	12	
	DRE132M2	7,5	AT421	T21	0,6	8	
	DRE132MC2	9,2	AT421	T21	0,65	8,5	

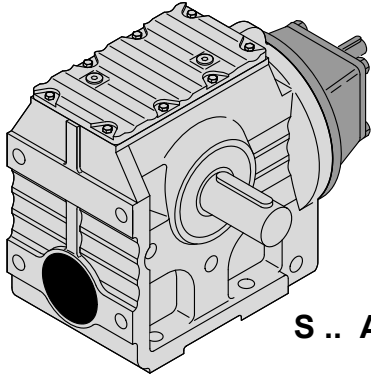
11.2.6 S..AT/ DRP..2

		$P_m$ [kW]				$S_n$ [%]	
<b>S67</b>	DRP80M2	0,75	AT311	T11	0,22	4,5	 479ff  481ff
	DRP90M2	1,1	AT311	T11	0,27	6	
	DRP100M2	2,2	AT311	T11	0,31	11,5	
	DRP100LC2	3	AT311	T11	0,4	12	
<b>S77</b>	DRP80M2	0,75	AT311	T11	0,22	4,5	
	DRP90M2	1,1	AT311	T11	0,27	6	
	DRP100M2	2,2	AT311	T11	0,31	11,5	
	DRP100LC2	3	AT311	T11	0,4	12	
<b>S87</b>	DRP100M2	2,2	AT311	T11	0,31	11,5	
	DRP100LC2	3	AT311	T11	0,4	12	
<b>S97</b>	DRP100M2	2,2	AT311	T11	0,31	11,5	
	DRP100LC2	3	AT311	T11	0,4	12	

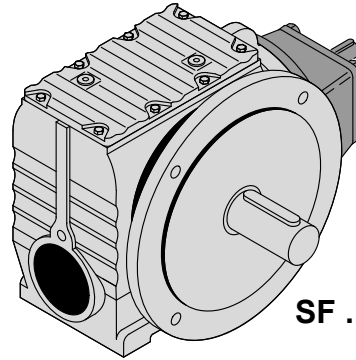




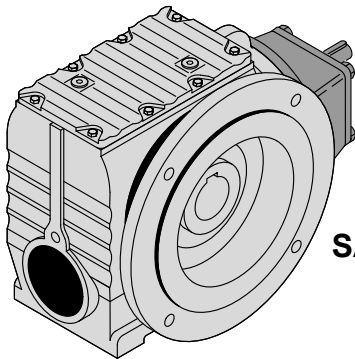
### 11.3 S.. AD.. [Nm]



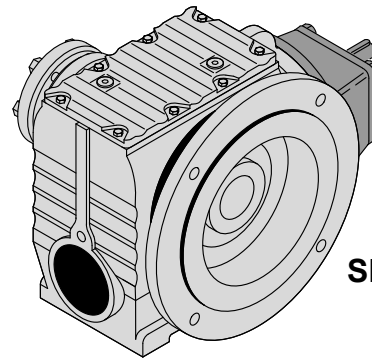
S .. AD..



SF .. AD..

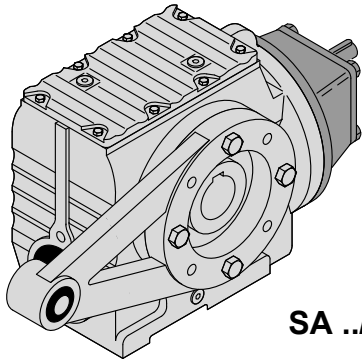


SAF .. AD..

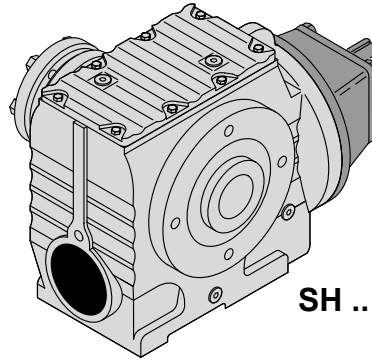


SHF .. AD..

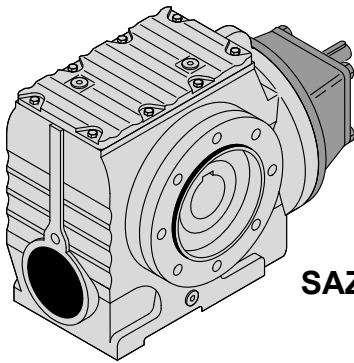
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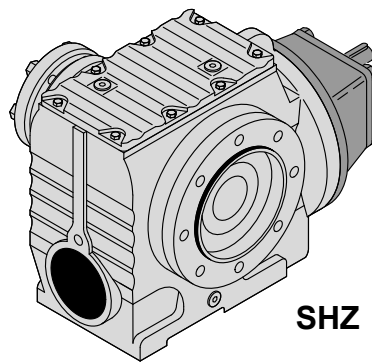
SA ..T AD..



SH .. AD..

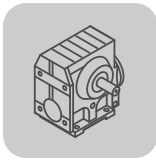


SAZ.. AD..

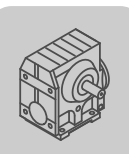


SHZ .. AD..

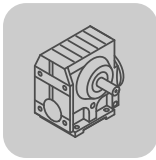
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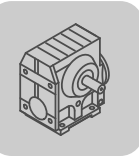
i	$n_a$ [1/min]	$M_{amax}$	$P_e$ [kW]	$F_{Ra}^{1)}$ [N]	$F_{Re}$ [N]	$\varphi$ (R)			m [kg]	
<b>S37 AD.. , <math>n_e = 1400</math> 1/min</b>									<b>92 Nm</b>	
157.43	8.9	92	0.18	3000	745	-	-			
144.40*	9.7	92	0.19	3000	745	-	-			
122.94	11	91	0.22	3000	740	-	-			
106.00*	13	88	0.24	3000	745	-	-	S 37	AD1	8.3
98.80*	14	87	0.25	3000	745	-	-	SF 37	AD1	9.6
86.36	16	86	0.27	3000	740	-	-	SA 37	AD1	8.0
80.96	17	85	0.29	3000	740	-	-	SAF 37	AD1	9.5
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	-	-	S 37	AD2	9.4
								SF 37	AD2	11
								SA 37	AD2	9.1
								SAF 37	AD2	11
51.30*	27	81	0.33	3000	565	-	-			
43.68	32	81	0.38	3000	555	-	-			
37.66	37	79	0.43	3000	555	-	-	S 37	AD1	8.3
35.10*	40	78	0.45	3000	550	-	-	SF 37	AD1	9.6
30.68	46	76	0.49	2860	550	-	-	SA 37	AD1	8.0
28.76	49	75	0.52	2800	545	-	-	SAF 37	AD1	9.5
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	-	-	S 37	AD2	9.4
								SF 37	AD2	11
								SA 37	AD2	9.1
								SAF 37	AD2	11
18.24*	77	52	0.51	2380	320	-	-	S 37	AD1	8.3
15.53	90	50	0.57	2240	320	-	-	SF 37	AD1	9.6
								SA 37	AD1	8.0
								SAF 37	AD1	9.5
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	-	-	S 37	AD2	9.4
9.02*	155	46	0.89	1810	1460	-	-	SF 37	AD2	11
8.00*	175	45	0.98	1730	1440	-	-	SA 37	AD2	9.1
6.80*	206	43	1.1	1630	1660	-	-	SAF 37	AD2	11
6.33	221	35	0.95	1670	1670	-	-			
5.38	260	34	1.1	1570	1660	-	-			
4.86*	288	33	1.2	1520	1650	-	-			
3.97	353	32	1.4	1400	1630	-	-			
<b>S47 AD.. , <math>n_e = 1400</math> 1/min</b>									<b>185 Nm</b>	
201.00*	7.0	170	0.25	5340	680	-	-			
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	-	-	S 47	AD1	11
110.73	13	168	0.40	5350	655	-	-	SF 47	AD1	15
94.08*	15	168	0.46	5350	645	-	-	SA 47	AD1	12
84.00*	17	167	0.51	5360	640	-	-	SAF 47	AD1	14
71.75*	20	167	0.58	5360	625	-	-			
69.39	20	155	0.46	5370	385	-	-			
67.20*	21	167	0.62	5360	615	-	-			
63.80*	22	155	0.50	5370	380	-	-			
56.61	25	165	0.72	5320	1780	-	-	S 47	AD2	12
								SF 47	AD2	16
								SA 47	AD2	14
								SAF 47	AD2	15
54.59	26	155	0.57	5150	360	-	-	S 47	AD1	11
47.32	30	155	0.65	4850	345	-	-	SF 47	AD1	15
44.22*	32	155	0.69	4710	335	-	-	SA 47	AD1	12
								SAF 47	AD1	14



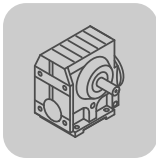
i	n <sub>a</sub> [1/min]	M <sub>amax</sub>	P <sub>e</sub> [kW]	F <sub>Ra</sub> <sup>1)</sup> [N]	F <sub>Re</sub> [N]	φ (f/R)			m [kg]			
38.23	37	155	0.80	4420	1480	-	-					
32.48*	43	155	0.93	4120	1460	-	-					
29.00*	48	155	1.0	3920	1430	-	-					
24.77	57	155	1.2	3650	1660	-	-					
23.20*	60	152	1.2	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	-	-	S	47	AD2	12	
14.24	98	110	1.3	2850	1530	-	-	SF	47	AD2	16	
12.10*	116	109	1.6	2650	1520	-	M1-6	SA	47	AD2	14	→  483
10.80*	130	109	1.7	2500	1510	-	M1-6	SAF	47	AD2	15	
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					
<b>S57 AD.. , n<sub>e</sub> = 1400 1/min</b>								<b>330 Nm</b>				
201.00*	7.0	295	0.40	7130	455	-	-					
184.80*	7.6	295	0.43	7130	455	-	-					
158.12	8.8	295	0.49	7130	450	-	-	S	57	AD1	15	
137.05	10	295	0.55	7130	440	-	-	SF	57	AD1	19	
128.10*	11	295	0.58	7130	435	-	-	SA	57	AD1	15	→  483
110.73	13	295	0.66	7130	410	-	-	SAF	57	AD1	18	
94.08*	15	295	0.76	7130	395	-	-					
84.00*	17	295	0.84	7130	380	-	-					
71.75*	20	290	0.96	7170	1570	-	-					
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	-	-	S	57	AD2	16	
20.33	69	168	1.4	5690	1380	-	-	SF	57	AD2	20	
19.54	72	215	2.0	5720	1520	-	-	SA	57	AD2	16	→  483
17.62	79	168	1.6	5350	1360	-	-	SAF	57	AD2	19	
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					



i	$n_a$ [1/min]	$M_{amax}$	$P_e$ [kW]	$F_{Ra}^{1)}$ [N]	$F_{Re}$ [N]	$\varphi$ (f/R)			m [kg]	
<b>S67 AD.. , <math>n_e = 1400</math> 1/min</b>								<b>570 Nm</b>		
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
106.75*	13	520	1.2	8680	1660	-	-	SF 67	AD2	34
100.80*	14	520	1.2	8680	1650	-	-	SA 67	AD2	28
85.83	16	520	1.4	8680	1640	-	-	SAF 67	AD2	33
78.00*	18	520	1.5	8680	1630	-	-			→  483
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
								SF 67	AD3	37
								SA 67	AD3	32
								SAF 67	AD3	36
										→  483
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	-	-	S 67	AD2	27
29.63	47	480	3.0	6540	1330	-	-	SF 67	AD2	34
26.93	52	480	3.2	6240	1310	-	-	SA 67	AD2	28
24.44	57	340	2.4	6040	1120	-	-	SAF 67	AD2	33
23.33	60	480	3.7	5810	1280	-	-			→  483
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
								SF 67	AD3	37
								SA 67	AD3	32
								SAF 67	AD3	36
										→  483
17.28*	81	340	3.3	5080	1050	-	-	S 67	AD2	27
15.60*	90	340	3.6	4820	1020	-	-	SF 67	AD2	34
13.73*	102	340	4.1	4510	1000	-	-	SA 67	AD2	28
12.96*	108	340	4.4	4310	980	-	-	SAF 67	AD2	33
11.03	127	340	5.1	3660	1940	-	-	S 67	AD3	30
10.03	140	340	5.6	3290	1910	-	M1-6	SF 67	AD3	37
8.69	161	335	6.4	2860	1860	-	M1-6	SA 67	AD3	32
7.56*	185	295	6.4	3220	1930	-	M1-6	SAF 67	AD3	36
										→  483
<b>S77 AD.. , <math>n_e = 1400</math> 1/min</b>								<b>1270 Nm</b>		
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	-	-	S 77	AD2	47
85.22	16	1100	2.8	13100	1460	-	-	SF 77	AD2	57
75.20*	19	1070	3.0	12800	1450	-	-	SA 77	AD2	47
75.09	19	1100	2.6	11900	1090	-	-	SAF 77	AD2	53
71.33	20	1100	2.8	11600	1090	-	-			→  483
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	-	-			

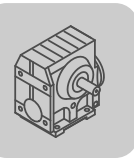


i	n <sub>a</sub> [1/min]	M <sub>amax</sub>	P <sub>e</sub> [kW]	F <sub>Ra</sub> <sup>1)</sup> [N]	F <sub>Re</sub> [N]	φ (f/R)			m [kg]	
35.94	39	1100	5.3	8140	1950	-	-			
32.38	43	1090	5.8	7720	1920	-	-			
28.41	49	1050	6.4	7370	1910	-	-			
25.07	56	1020	7.0	7010	1890	-	-			
22.89	61	705	5.1	5960	1680	-	-			
22.22	63	980	7.6	6740	1880	-	-	S 77	AD3	50
20.99	67	705	5.6	5380	1660	-	-	SF 77	AD3	60
18.97	74	930	8.4	6390	1860	-	-	SA 77	AD3	50
18.42	76	705	6.3	4550	1620	-	-	SAF 77	AD3	57
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	S 77	AD4	57
9.44	148	725	12.4	415	3220	-	M1-6	SF 77	AD4	66
8.06	174	680	13.6	440	3210	-	M1-6	SA 77	AD4	56
								SAF 77	AD4	63
<b>S87 AD.. , n<sub>e</sub> = 1400 1/min</b>								<b>2500 Nm</b>		
288.00*	4.9	2280	1.8	27900	1390	-	-			
258.18	5.4	2280	2.0	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	-	-	S 87	AD2	83
123.48	11	2060	3.5	28300	1360	-	-	SF 87	AD2	105
110.40*	13	2000	3.8	28400	1350	-	-	SA 87	AD2	80
99.26	14	1960	4.1	28500	1340	-	-	SAF 87	AD2	97
91.20*	15	1510	2.9	29100	1040	-	-			
86.15	16	1880	4.4	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	5.4	28900	2250	-	-	S 87	AD3	87
								SF 87	AD3	110
								SA 87	AD3	85
								SAF 87	AD3	100
57.00*	25	1600	4.9	29000	910	-	-	S 87	AD2	83
								SF 87	AD2	105
								SA 87	AD2	80
								SAF 87	AD2	97
47.91	29	1600	5.8	29000	1820	-	-			
44.03	32	1600	6.2	29000	1800	-	-	S 87	AD3	87
39.10	36	1600	7.0	28200	1760	-	-	SF 87	AD3	110
34.96*	40	1600	7.8	27100	1720	-	-	SA 87	AD3	85
31.43	45	1600	8.6	26000	1680	-	-	SAF 87	AD3	100
27.28	51	1600	9.9	24700	1620	-	-			
25.50*	55	1240	8.0	23400	3310	-	-			
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	-	-	S 87	AD4	93
17.49	80	1240	11.5	20200	3150	-	-	SF 87	AD4	115
15.64*	90	1240	12.8	19300	3100	-	-	SA 87	AD4	91
14.06	100	1240	14.3	18500	3040	-	-	SAF 87	AD4	105
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			



S..  
S.. AD.. [Nm]

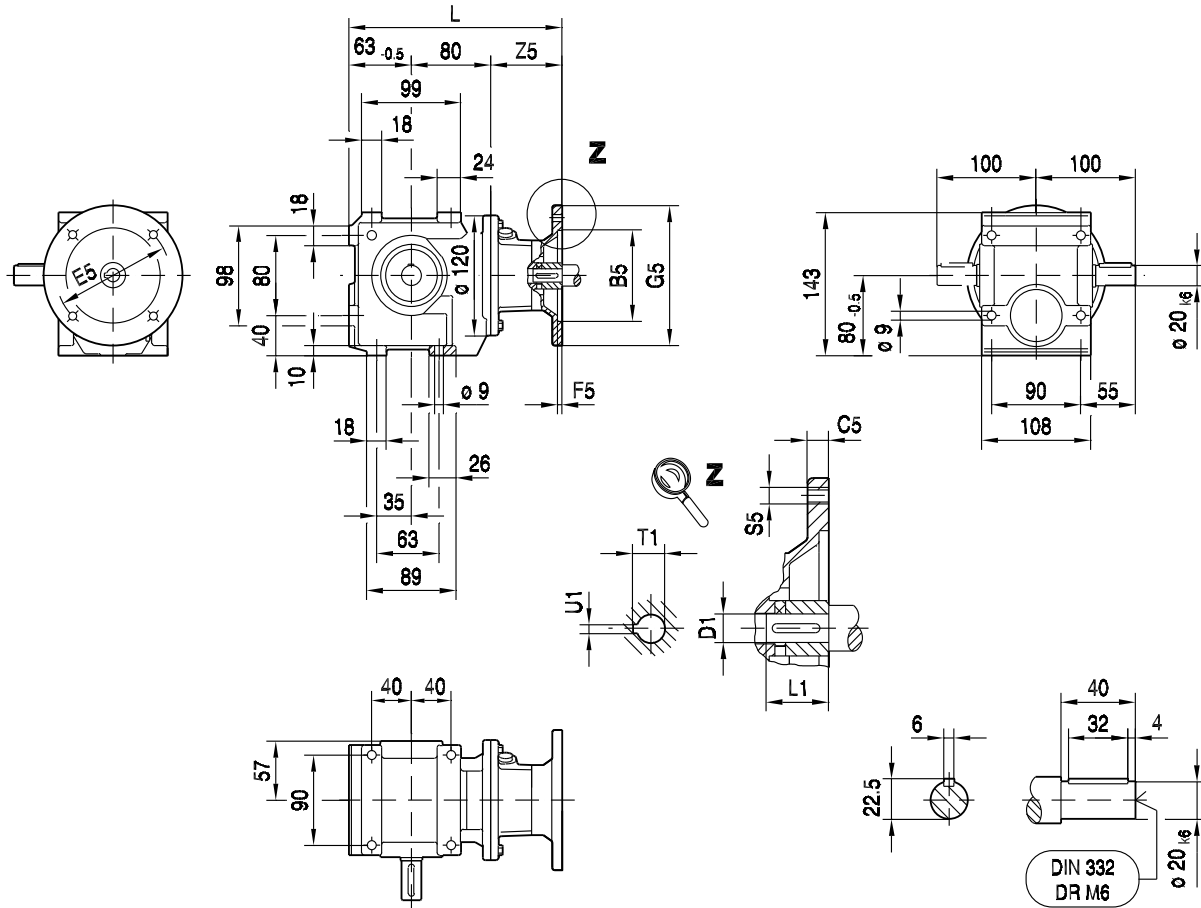
i	$n_a$ [1/min]	$M_{amax}$	$P_e$ [kW]	$F_{Ra}^{1)}$ [N]	$F_{Re}$ [N]	$\varphi$ (/R)			m [kg]			
<b>S97 AD.. , <math>n_e = 1400</math> 1/min</b>								<b>4200 Nm</b>				
<b>286.40*</b>	4.9	4000	3.0	33200	2100	-	-					
<b>262.22</b>	5.3	4000	3.2	33200	2100	-	-					
<b>231.67</b>	6.0	4000	3.6	33200	2080	-	-					
<b>196.52</b>	7.1	4000	4.2	33200	2060	-	-					
<b>180.95</b>	7.7	3920	4.5	33400	2060	-	-	S	97	AD3	145	
<b>161.74</b>	8.7	3840	4.8	33500	2060	-	-	SF	97	AD3	180	
<b>145.60*</b>	9.6	3730	5.2	33700	2060	-	-	SA	97	AD3	140	→
<b>131.85</b>	11	3650	5.6	33900	2060	-	-	SAF	97	AD3	165	
<b>116.92</b>	12	3510	6.0	34100	2060	-	-					
<b>105.71</b>	13	3440	6.5	34300	2060	-	-					
<b>89.60*</b>	16	3240	7.2	34600	2050	-	-					
<b>80.85</b>	17	3230	6.8	34600	1280	-	-					
<b>78.26</b>	18	3080	7.8	34800	2050	-	-					
<b>71.43</b>	20	3300	7.9	34500	3300	-	-	S	97	AD4	150	
								SF	97	AD4	185	
								SA	97	AD4	145	→
								SAF	97	AD4	170	
<b>65.45</b>	21	2900	8.7	35100	2030	-	-	S	97	AD3	145	
								SF	97	AD3	180	
								SA	97	AD3	140	→
								SAF	97	AD3	165	
<b>60.59</b>	23	3300	9.2	34500	3260	-	-					
<b>55.79</b>	25	3300	10.0	34500	3210	-	-					
<b>49.87</b>	28	3300	11.1	34500	3180	-	-	S	97	AD4	150	
<b>44.89</b>	31	3300	12.3	34100	3130	-	-	SF	97	AD4	185	
<b>40.65</b>	34	3300	13.6	32800	3090	-	-	SA	97	AD4	145	→
<b>36.05</b>	39	3300	15.3	31300	3040	-	-	SAF	97	AD4	170	
<b>32.60</b>	43	3200	16.3	30400	3030	-	-					
<b>27.63</b>	51	3010	18.1	29000	6220	-	-	S	97	AD5	170	
								SF	97	AD5	200	
								SA	97	AD5	165	→
								SAF	97	AD5	190	
<b>26.39</b>	53	2600	15.8	26100	2040	-	-	S	97	AD4	150	
								SF	97	AD4	185	
								SA	97	AD4	145	→
								SAF	97	AD4	170	
<b>24.13</b>	58	2870	19.7	28000	6220	-	-					
<b>23.59</b>	59	2600	17.7	24500	5470	-	-					
<b>21.23</b>	66	2600	19.6	22800	5410	-	-					
<b>19.23</b>	73	2600	22	21200	5350	-	-	S	97	AD5	170	
<b>17.05</b>	82	2570	24	19700	5300	-	M1-6	SF	97	AD5	200	
<b>15.42</b>	91	2470	26	19400	5320	-	M1-6	SA	97	AD5	165	→
<b>13.07</b>	107	2330	28	18800	5300	-	M1-6	SAF	97	AD5	190	
<b>11.41</b>	123	2210	31	18400	5310	-	M1-6					
<b>9.55</b>	147	2040	34	18200	5310	-	M1-6					
<b>8.26</b>	169	1770	34	18800	5480	-	M1-6					



11.4 S.. AM.. (IEC) [mm]

02 010 02 01

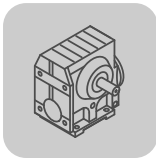
S37..



11

(→ 130)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1	
AM63	95	10	115	3.5	140	215	M8	72	11	23	12.8	4	
AM71	110	10	130	4.0	160	215	M8	72	14	30	16.3	5	
AM80	130	12	165	4.5	200	249	M10	106	19	40	21.8	6	
AM90	130	12	165	4.5	200	249	M10	106	24	50	27.3	8	

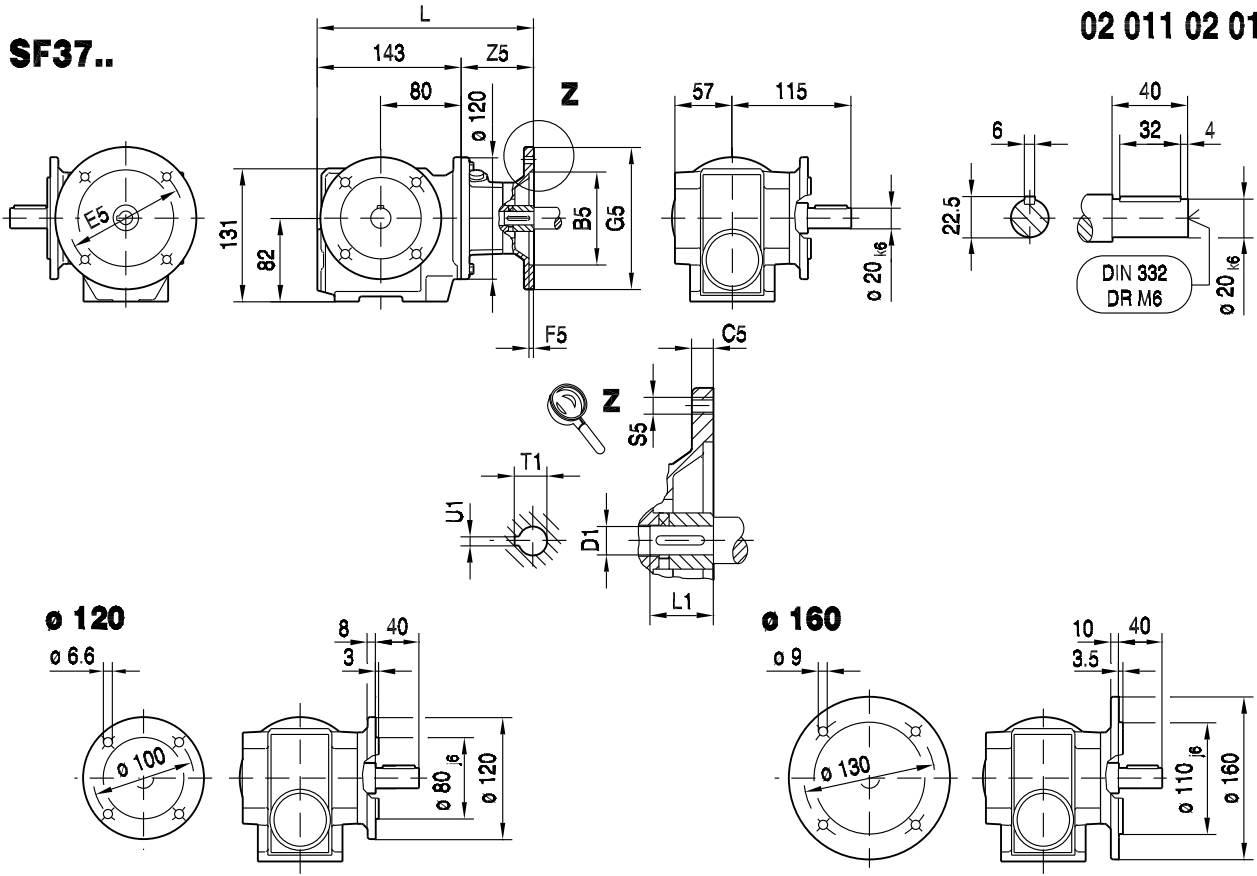




S..  
S.. AM.. (IEC) [mm]

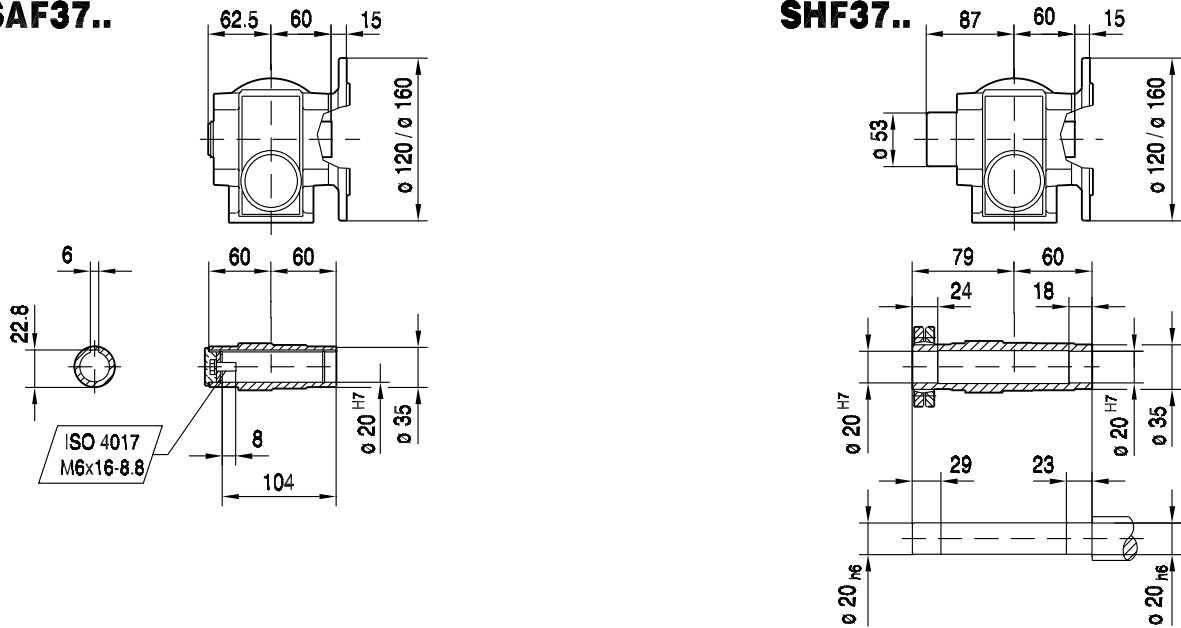
**SF37..**

02 011 02 01

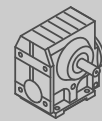


**SAF37..**

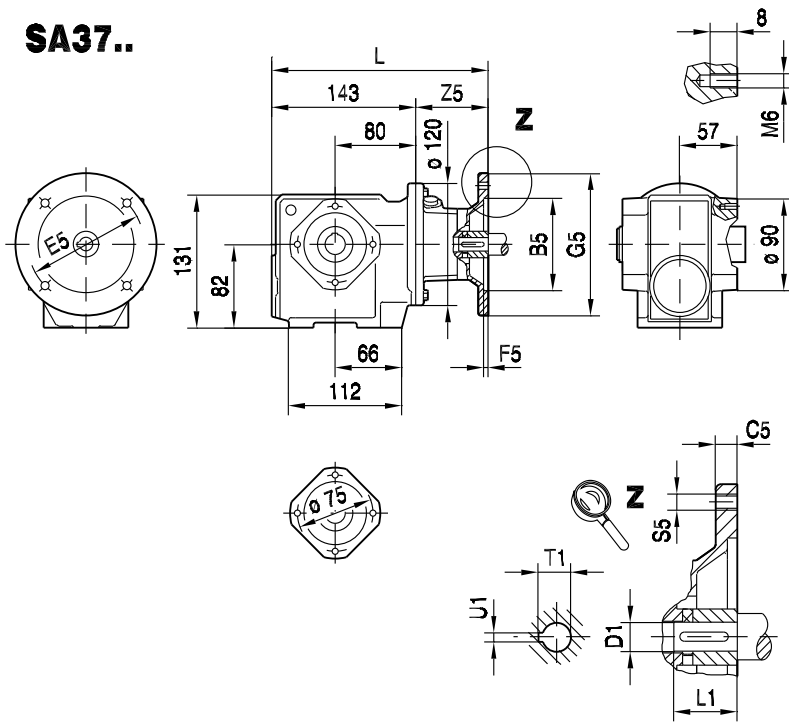
**SHF37..**



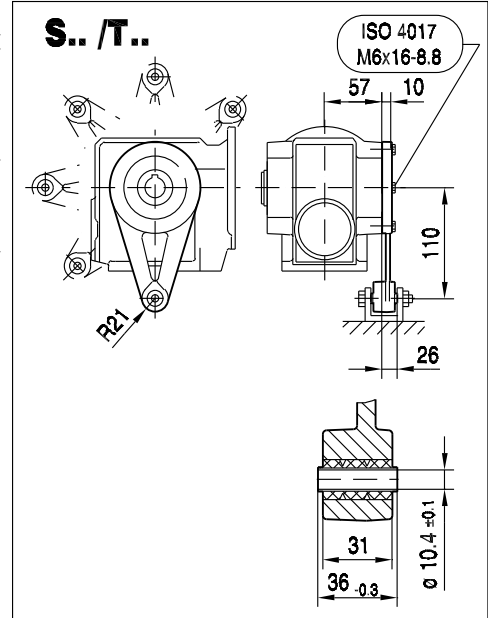
(→) 130	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1	
AM63	95	10	115	3.5	140	215	M8	72	11	23	12.8	4	
AM71	110	10	130	4.0	160	215	M8	72	14	30	16.3	5	
AM80	130	12	165	4.5	200	249	M10	106	19	40	21.8	6	
AM90	130	12	165	4.5	200	249	M10	106	24	50	27.3	8	



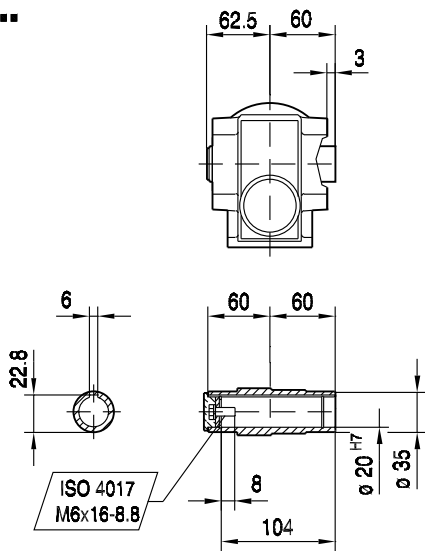
**SA37..**



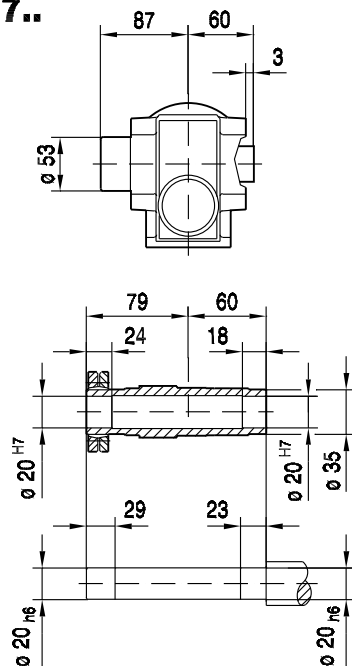
**27 001 02 01**



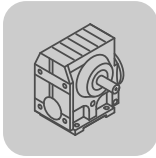
**SA37..**



**SH37..**



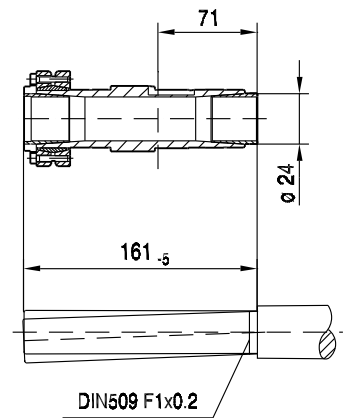
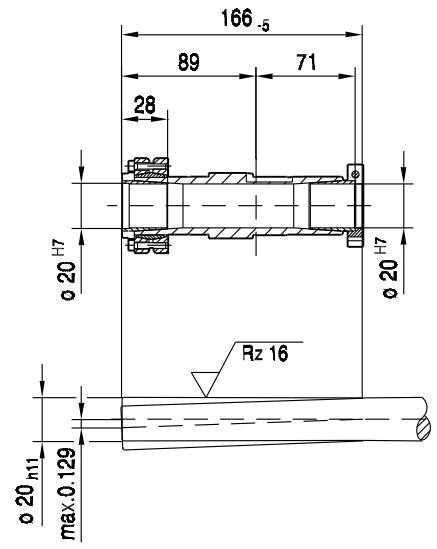
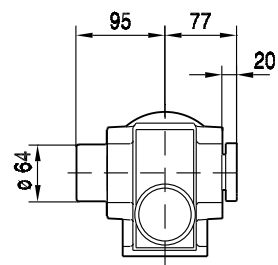
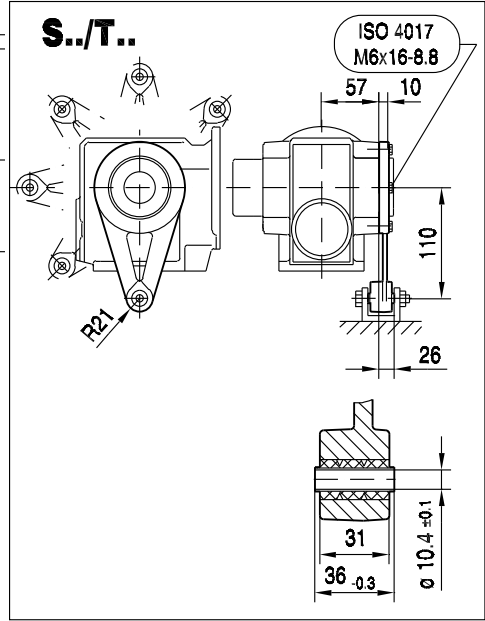
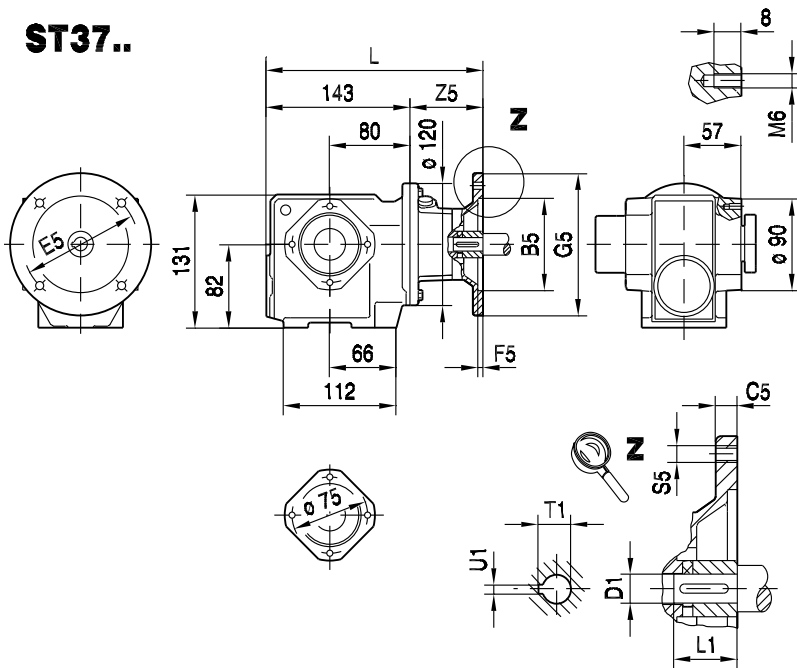
(→ 130)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AM63	95	10	115	3.5	140	215	M8	72	11	23	12.8	4
AM71	110	10	130	4.0	160	215	M8	72	14	30	16.3	5
AM80	130	12	165	4.5	200	249	M10	106	19	40	21.8	6
AM90	130	12	165	4.5	200	249	M10	106	24	50	27.3	8



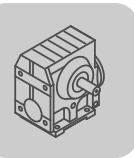
S..  
S.. AM.. (IEC) [mm]

27 002 00 04

ST37..

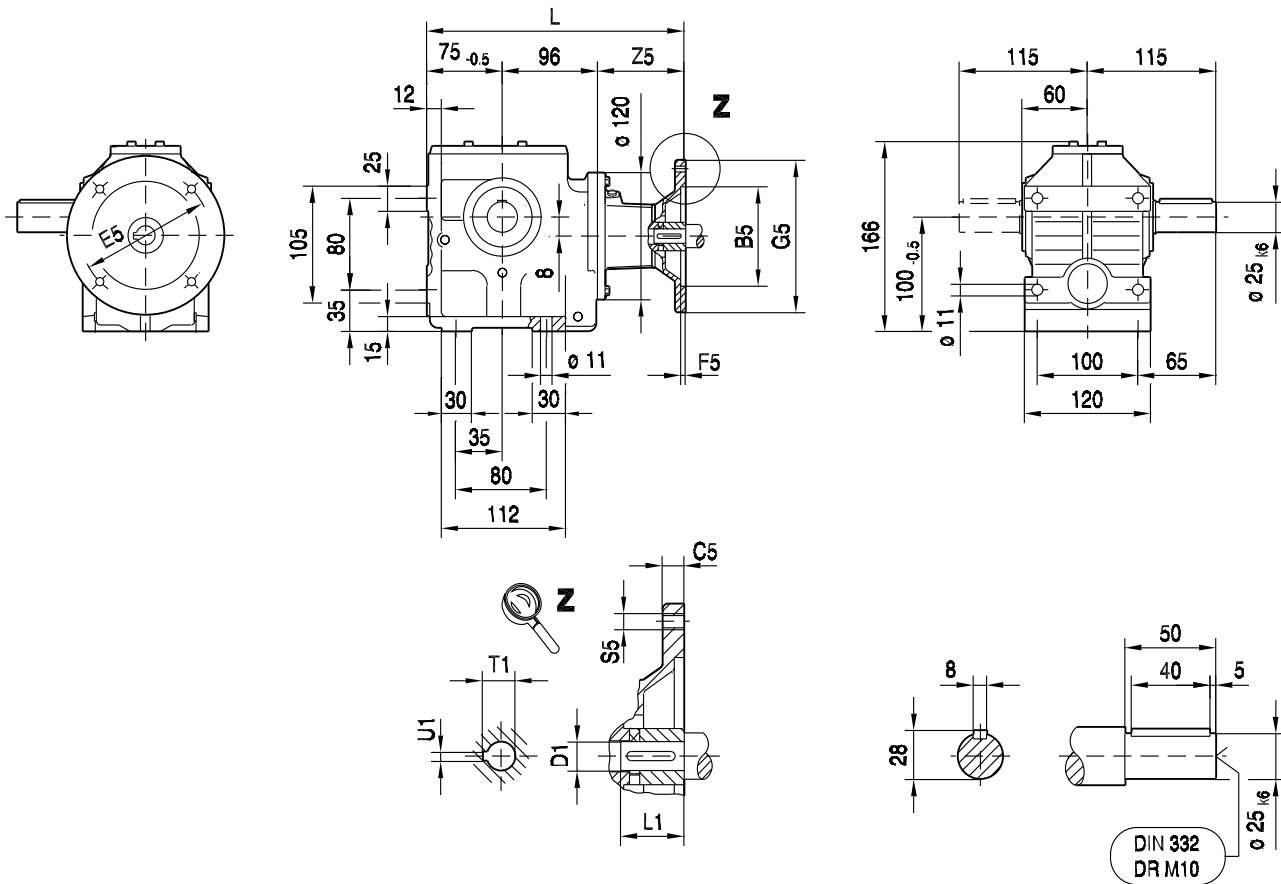


(→ 130)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1	
AM63	95	10	115	3.5	140	215	M8	72	11	23	12.8	4	
AM71	110	10	130	4.0	160	215	M8	72	14	30	16.3	5	
AM80	130	12	165	4.5	200	249	M10	106	19	40	21.8	6	
AM90	130	12	165	4.5	200	249	M10	106	24	50	27.3	8	



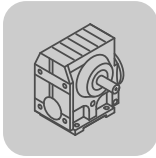
02 012 02 01

S47..



11

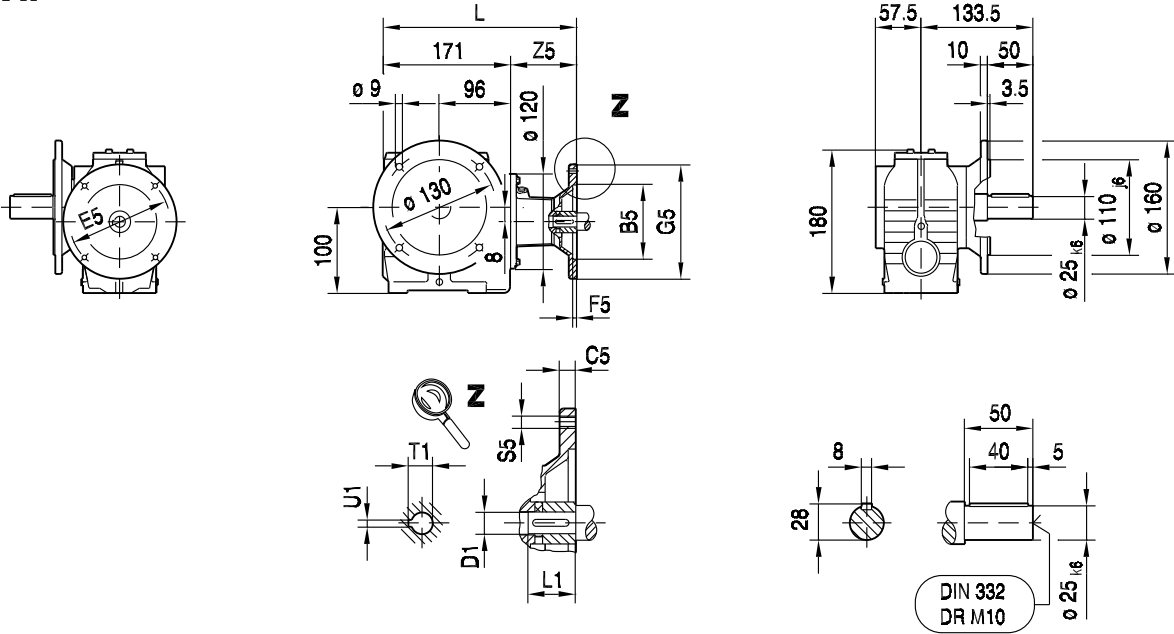
(→ 130)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AM63	95	10	115	3.5	140	243	M8	72	11	23	12.8	4
AM71	110	10	130	4.0	160	243	M8	72	14	30	16.3	5
AM80	130	12	165	4.5	200	277	M10	106	19	40	21.8	6
AM90	130	12	165	4.5	200	277	M10	106	24	50	27.3	8



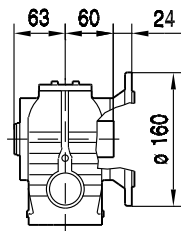
S..  
S.. AM.. (IEC) [mm]

02 013 02 01

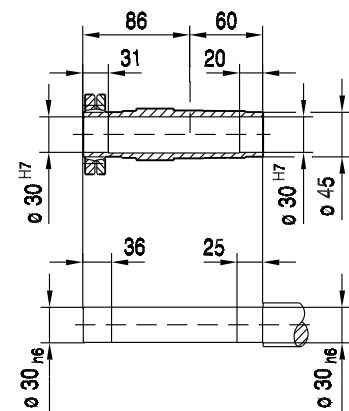
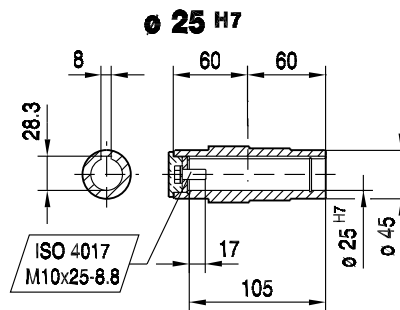
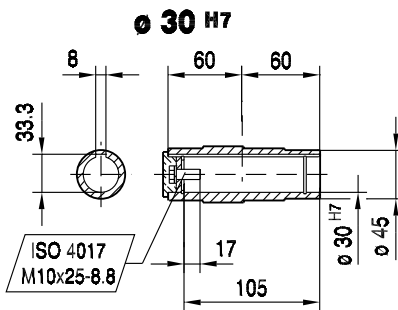
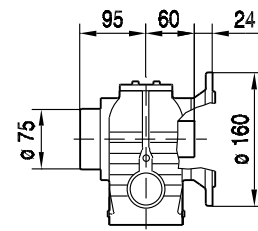
**SF47..**



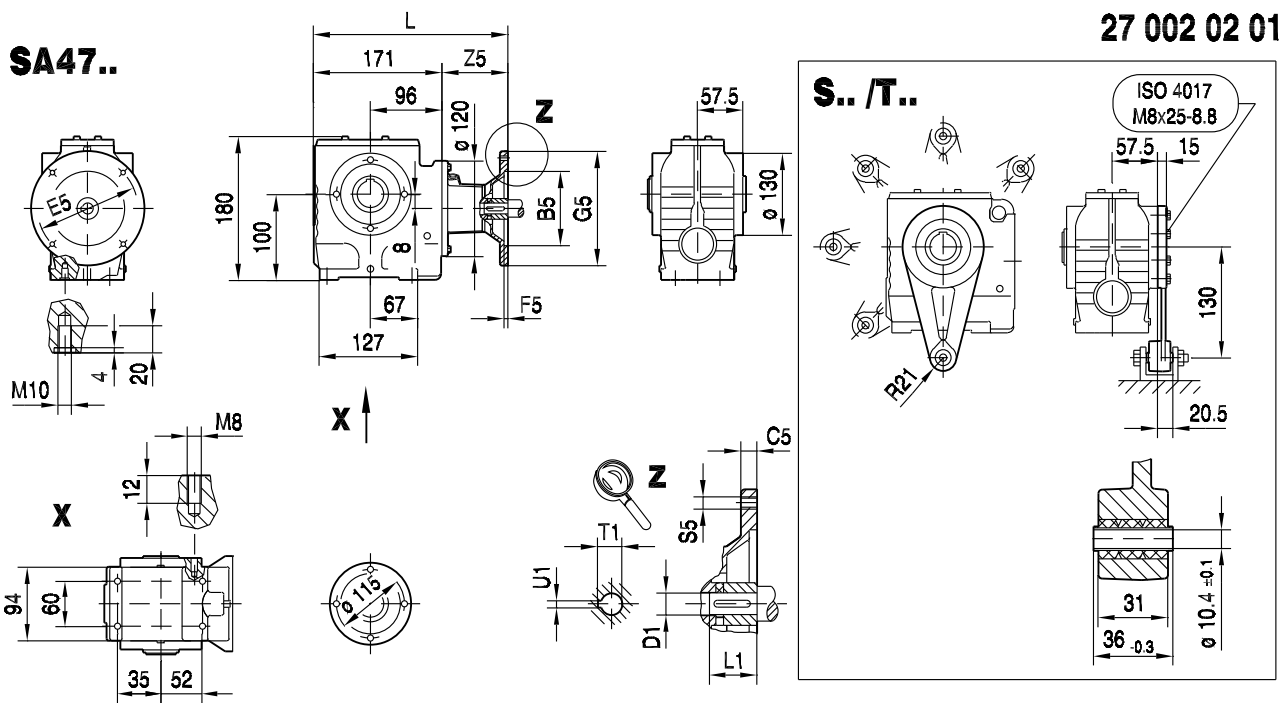
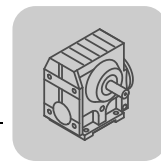
**SAF47..**



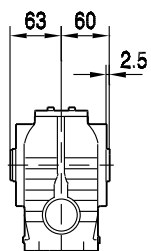
**SHF47..**



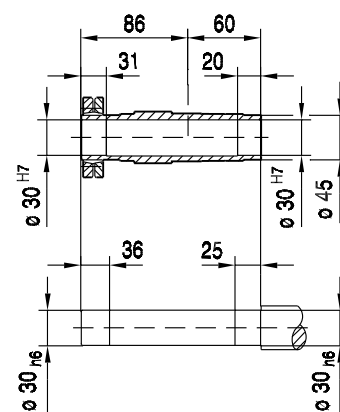
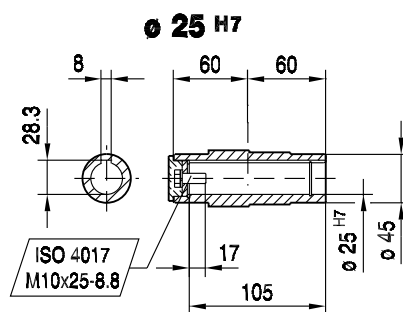
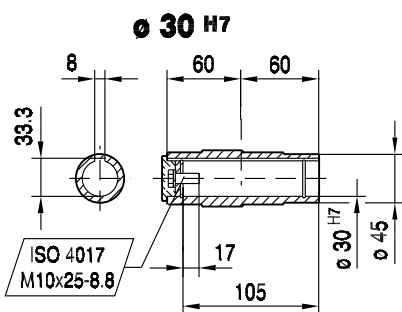
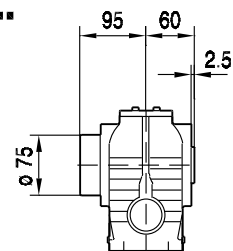
(→ 130)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1	
AM63	95	10	115	3.5	140	243	M8	72	11	23	12.8	4	
AM71	110	10	130	4.0	160	243	M8	72	14	30	16.3	5	
AM80	130	12	165	4.5	200	277	M10	106	19	40	21.8	6	
AM90	130	12	165	4.5	200	277	M10	106	24	50	27.3	8	



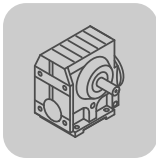
**SA47..**



**SH47..**



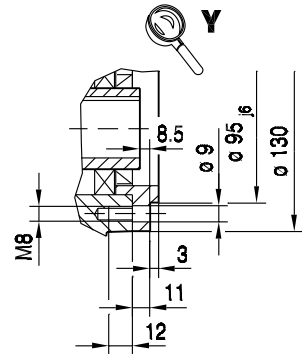
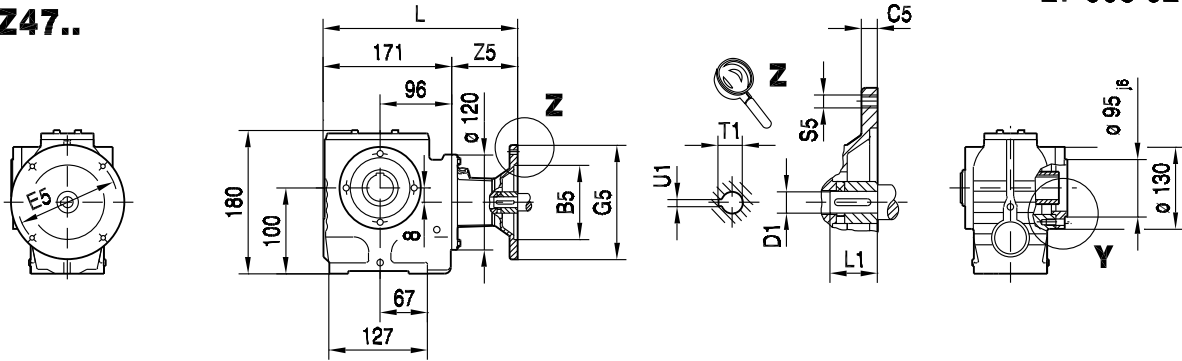
(→ 130)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AM63	95	10	115	3.5	140	243	M8	72	11	23	12.8	4
AM71	110	10	130	4.0	160	243	M8	72	14	30	16.3	5
AM80	130	12	165	4.5	200	277	M10	106	19	40	21.8	6
AM90	130	12	165	4.5	200	277	M10	106	24	50	27.3	8



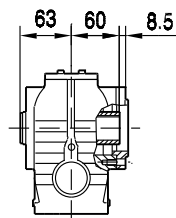
S..  
S.. AM.. (IEC) [mm]

27 003 02 01

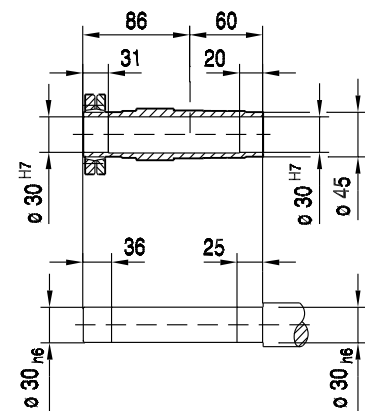
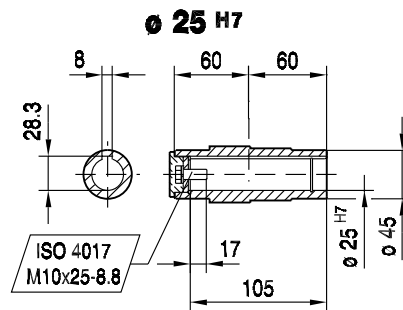
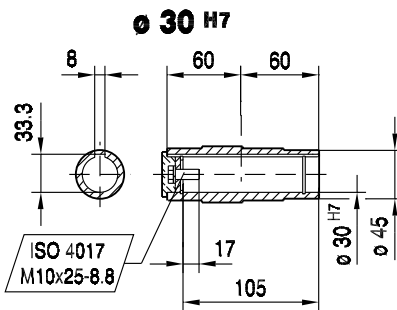
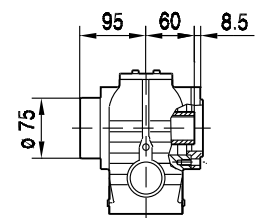
**SAZ47..**



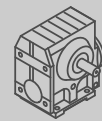
**SAZ47..**



**SHZ47..**

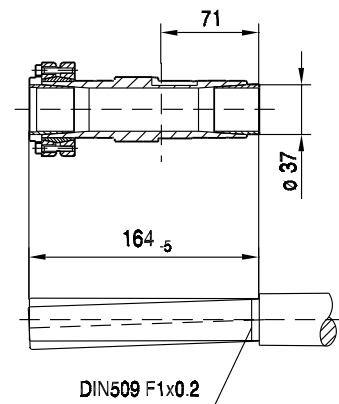
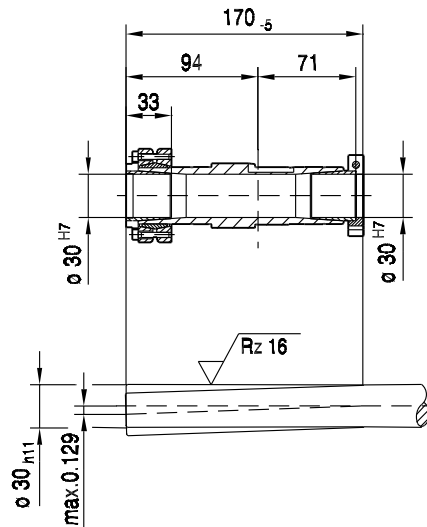
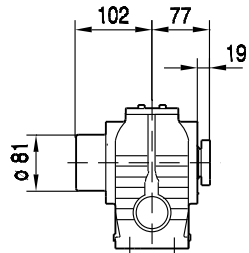
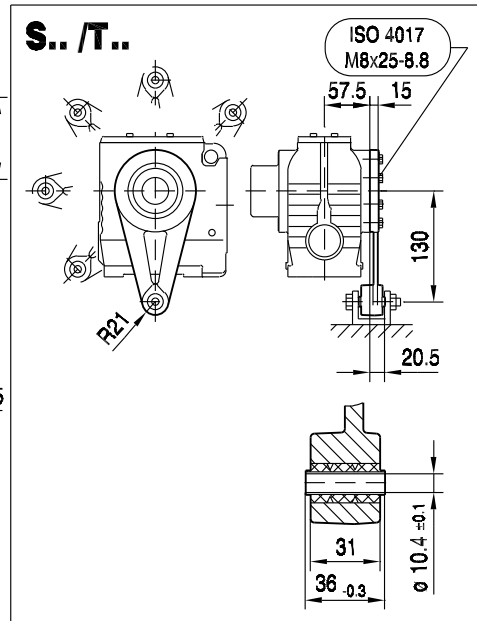
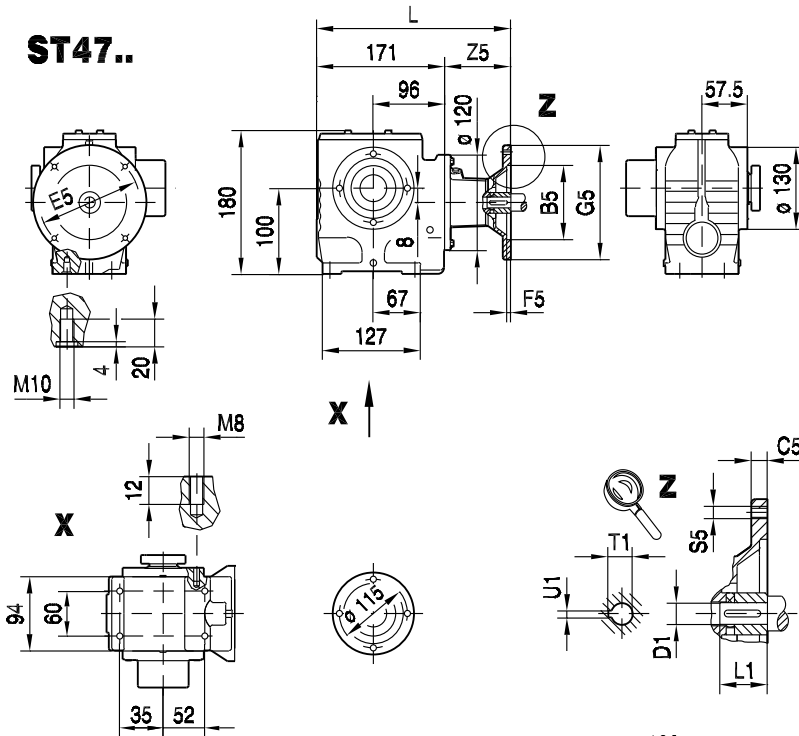


(→ 130)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1	
AM63	95	10	115	3.5	140	243	M8	72	11	23	12.8	4	
AM71	110	10	130	4.0	160	243	M8	72	14	30	16.3	5	
AM80	130	12	165	4.5	200	277	M10	106	19	40	21.8	6	
AM90	130	12	165	4.5	200	277	M10	106	24	50	27.3	8	



27 003 00 04

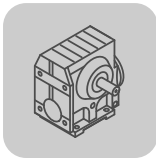
ST47..



11

(→ 130)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1	
AM63	95	10	115	3.5	140	243	M8	72	11	23	12.8	4	
AM71	110	10	130	4.0	160	243	M8	72	14	30	16.3	5	
AM80	130	12	165	4.5	200	277	M10	106	19	40	21.8	6	
AM90	130	12	165	4.5	200	277	M10	106	24	50	27.3	8	

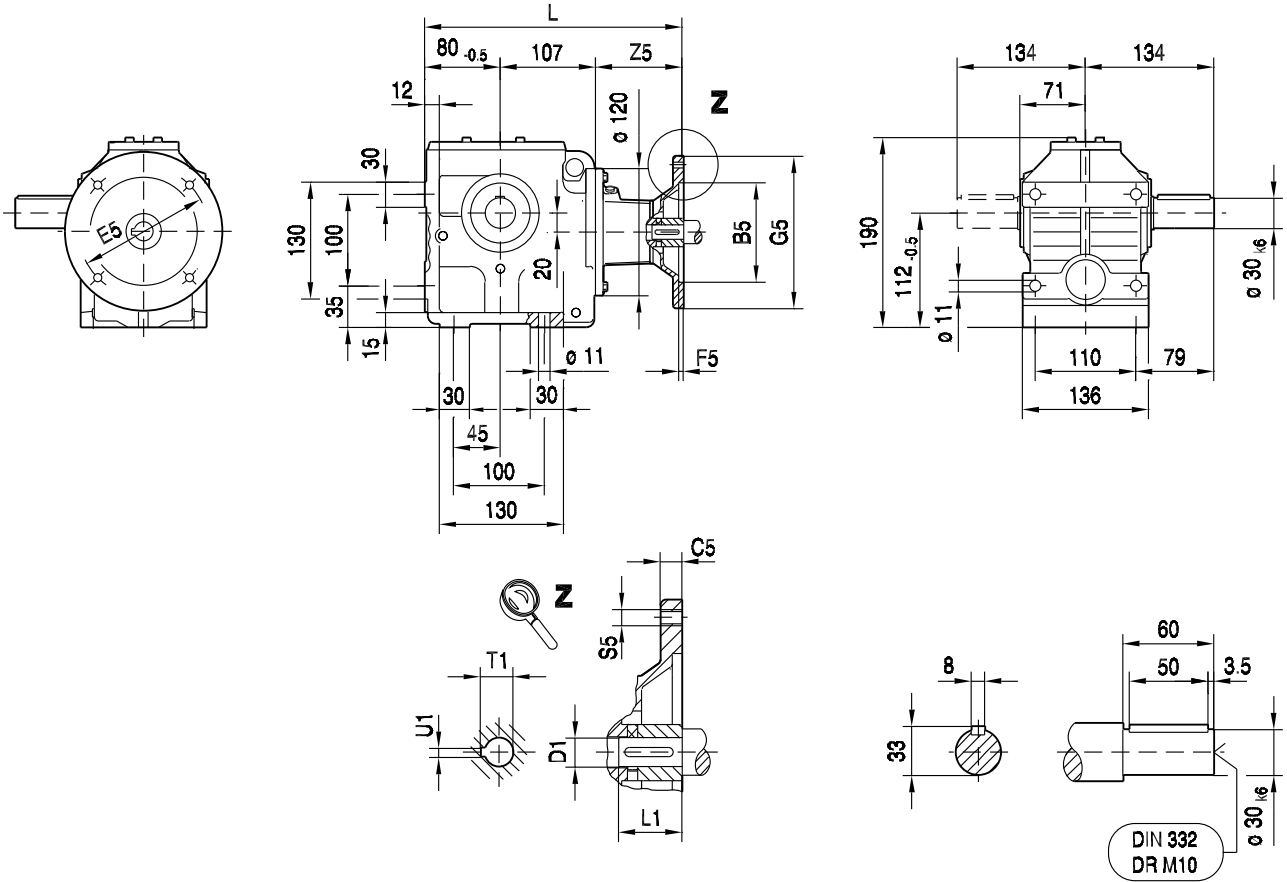




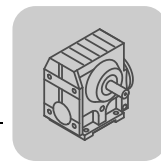
S..  
S.. AM.. (IEC) [mm]

02 014 02 01

S57..

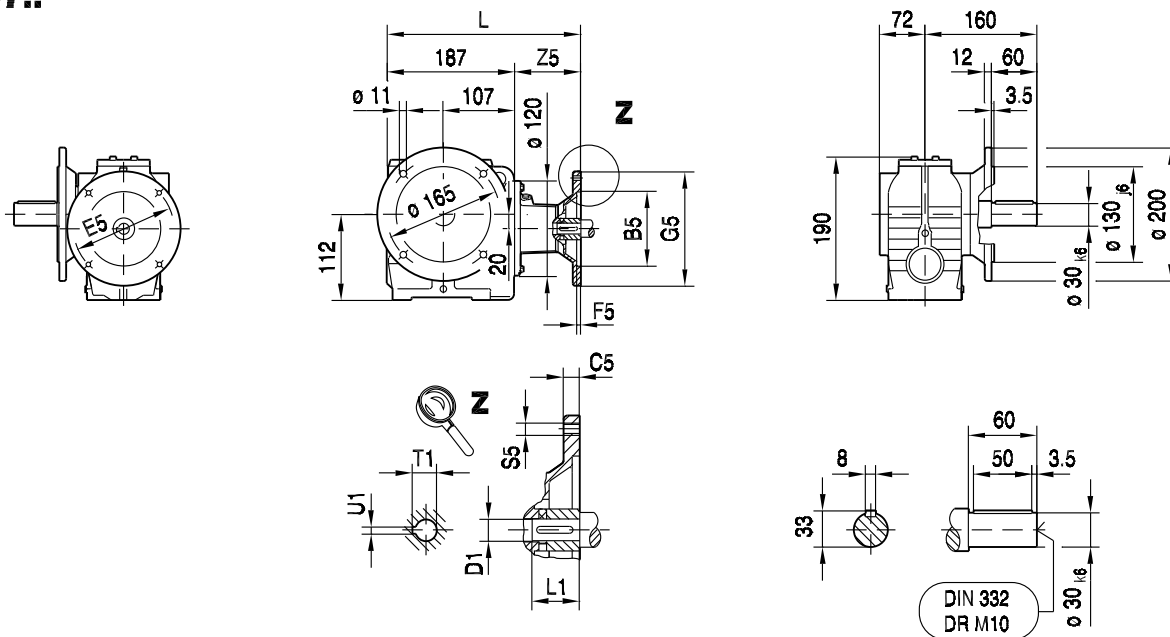


(→  130)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1	
AM63	95	10	115	3.5	140	259	M8	72	11	23	12.8	4	
AM71	110	10	130	4.0	160	259	M8	72	14	30	16.3	5	
AM80	130	12	165	4.5	200	293	M10	106	19	40	21.8	6	
AM90	130	12	165	4.5	200	293	M10	106	24	50	27.3	8	

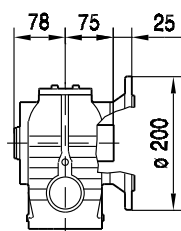


02 015 02 01

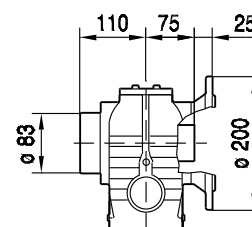
**SF57..**



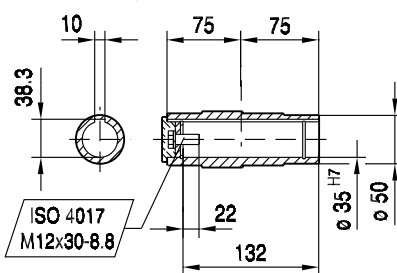
**SAF57..**



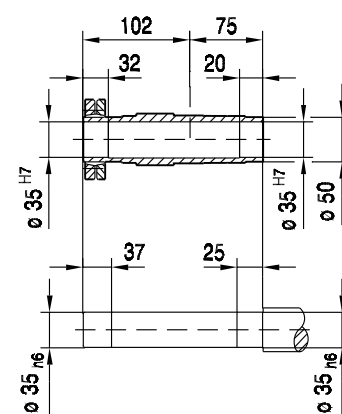
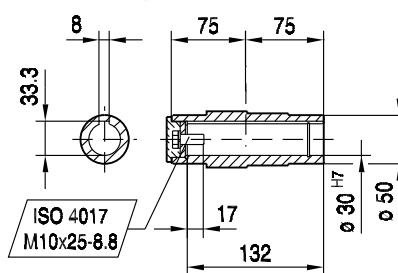
**SHF57..**



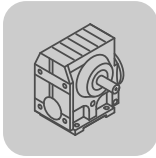
**Ø 35 H7**



**Ø 30 H7**



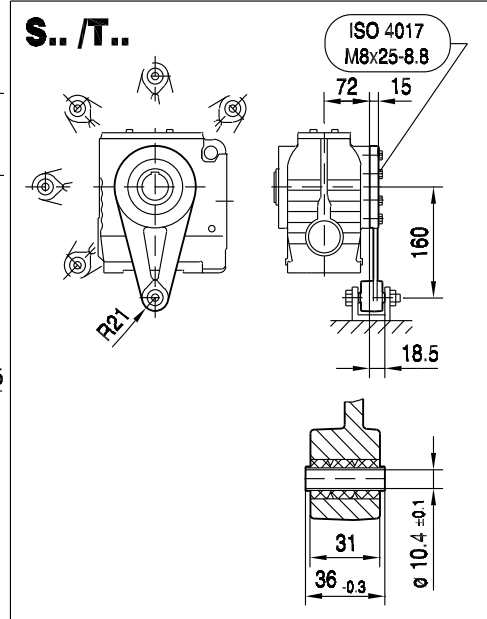
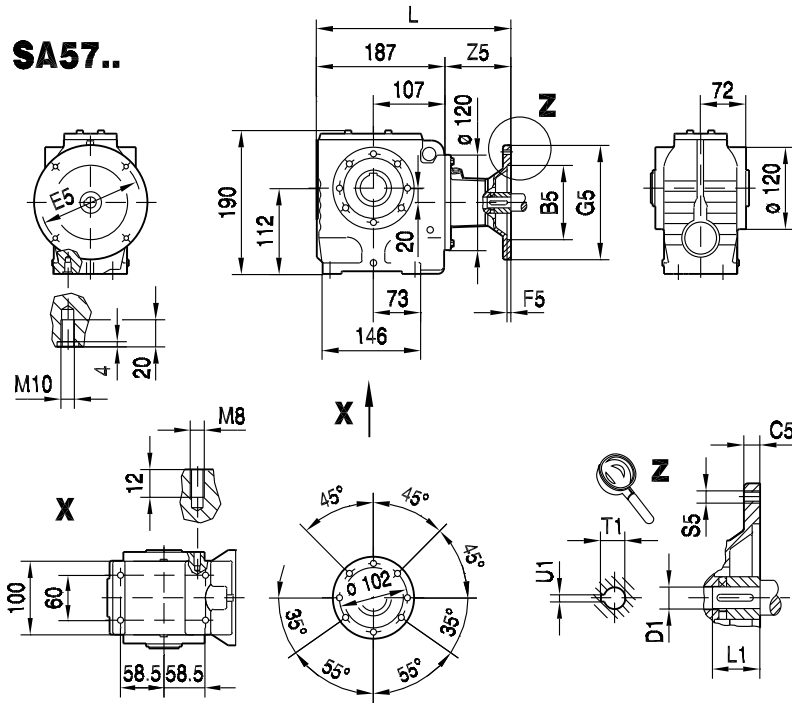
(→ 130)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1	
AM63	95	10	115	3.5	140	259	M8	72	11	23	12.8	4	
AM71	110	10	130	4.0	160	259	M8	72	14	30	16.3	5	
AM80	130	12	165	4.5	200	293	M10	106	19	40	21.8	6	
AM90	130	12	165	4.5	200	293	M10	106	24	50	27.3	8	



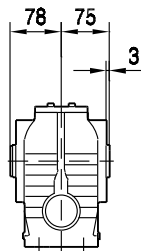
S..  
S.. AM.. (IEC) [mm]

27 004 02 01

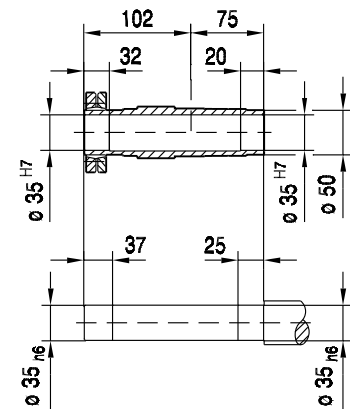
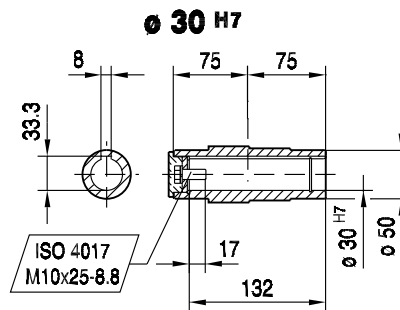
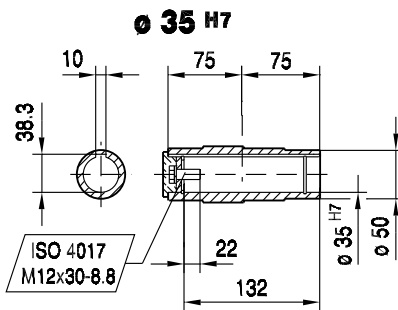
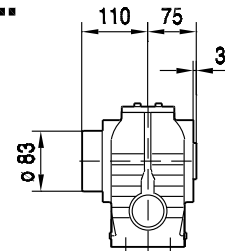
**SA57..**



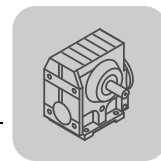
**SA57..**



**SH57..**

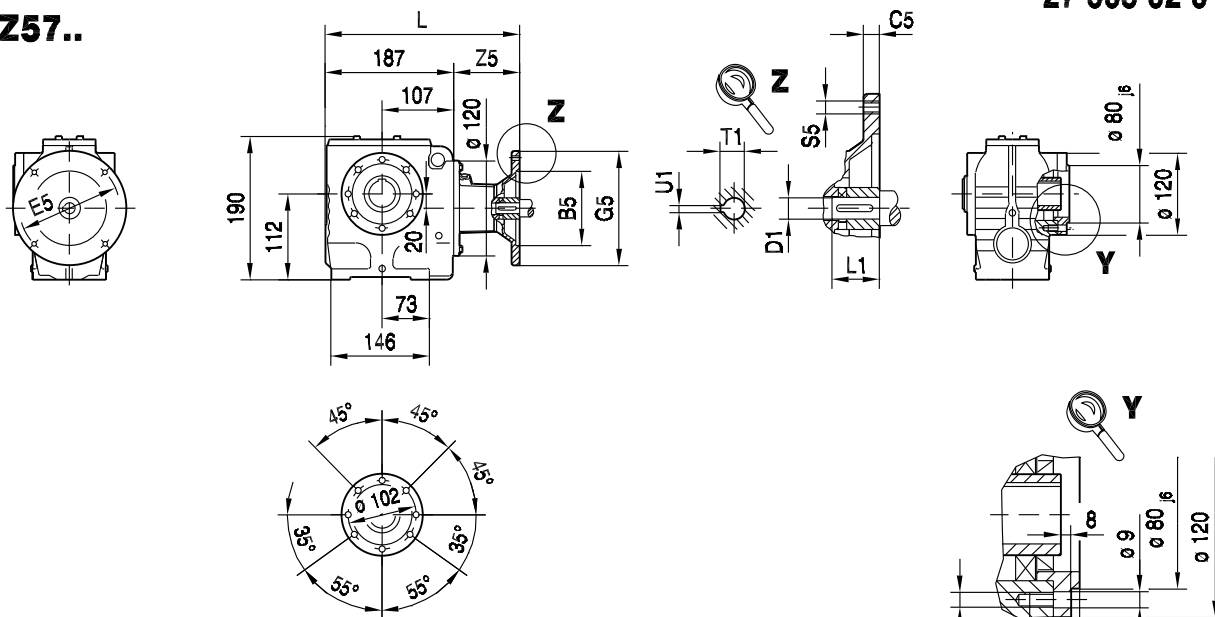


(→ 130)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1	
AM63	95	10	115	3.5	140	259	M8	72	11	23	12.8	4	
AM71	110	10	130	4.0	160	259	M8	72	14	30	16.3	5	
AM80	130	12	165	4.5	200	293	M10	106	19	40	21.8	6	
AM90	130	12	165	4.5	200	293	M10	106	24	50	27.3	8	



27 005 02 01

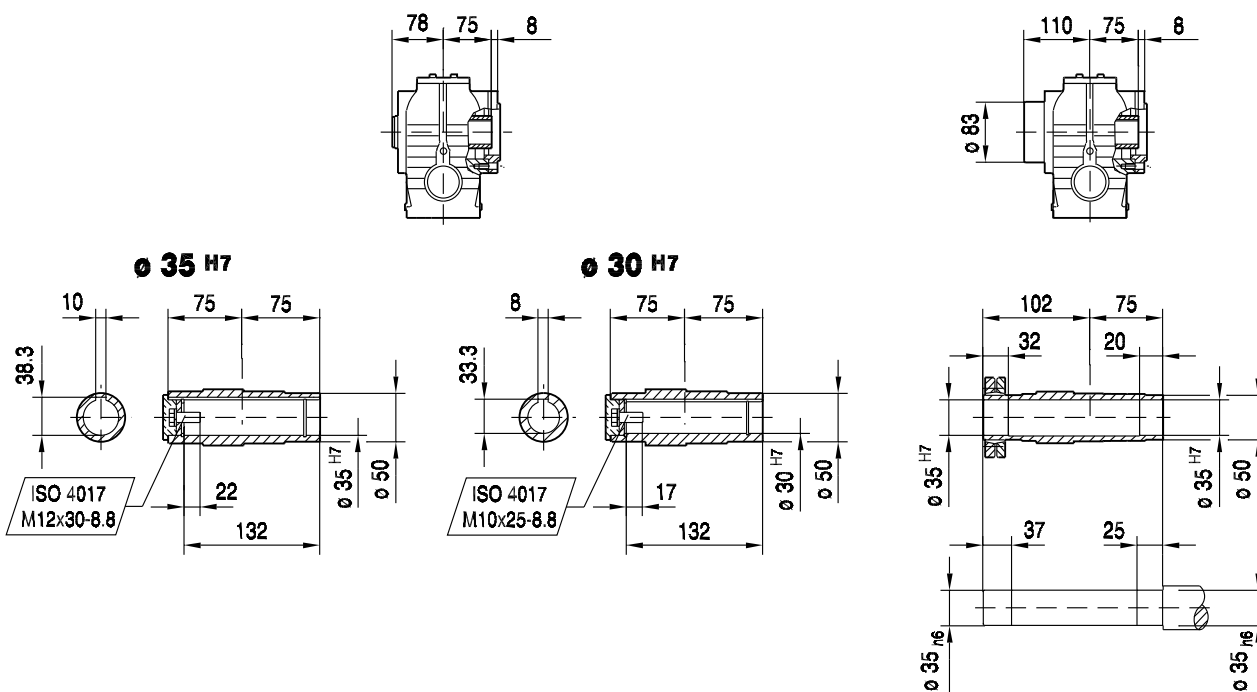
**SAZ57..**



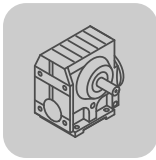
**SAZ57..**

**SHZ57..**

11



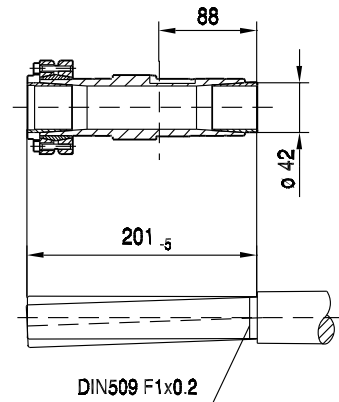
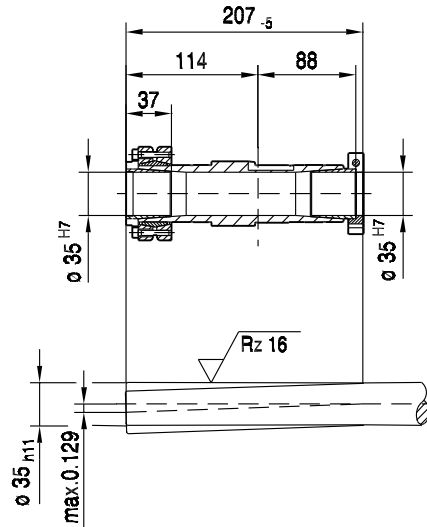
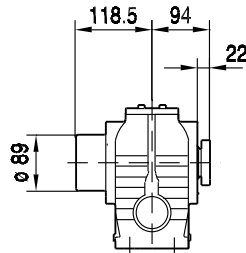
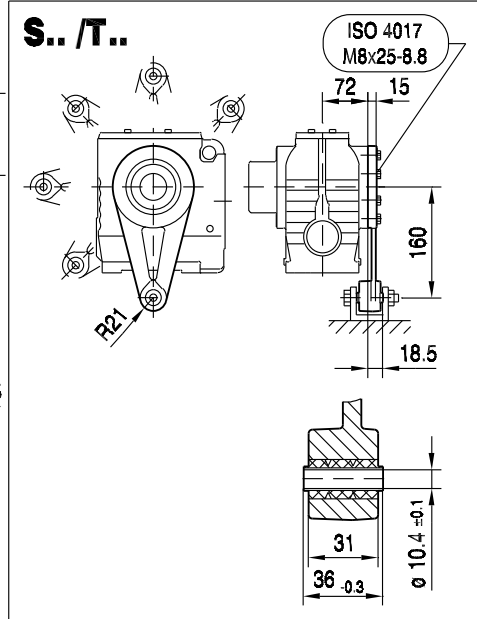
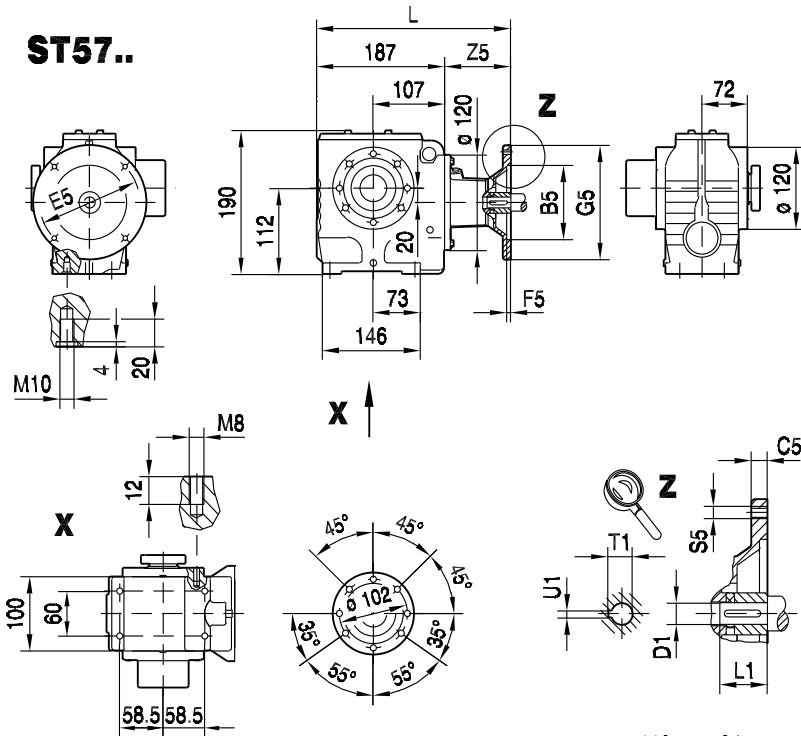
(→ 130)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1	
AM63	95	10	115	3.5	140	259	M8	72	11	23	12.8	4	
AM71	110	10	130	4.0	160	259	M8	72	14	30	16.3	5	
AM80	130	12	165	4.5	200	293	M10	106	19	40	21.8	6	
AM90	130	12	165	4.5	200	293	M10	106	24	50	27.3	8	



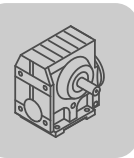
S..  
S.. AM.. (IEC) [mm]

27 004 00 04

ST57..

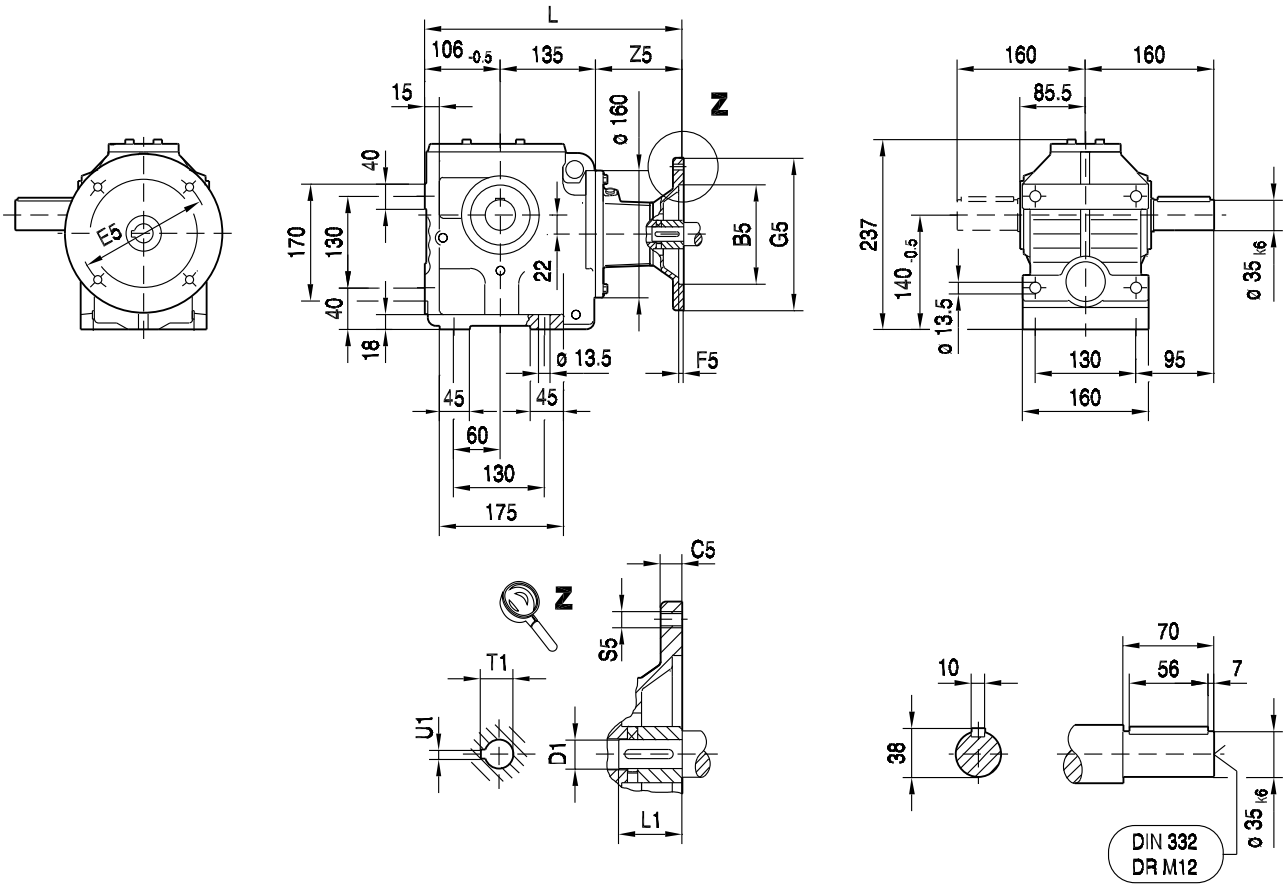


(→ 130)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1	
AM63	95	10	115	3.5	140	259	M8	72	11	23	12.8	4	
AM71	110	10	130	4.0	160	259	M8	72	14	30	16.3	5	
AM80	130	12	165	4.5	200	293	M10	106	19	40	21.8	6	
AM90	130	12	165	4.5	200	293	M10	106	24	50	27.3	8	




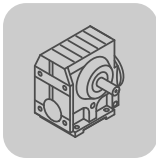
02 016 02 01

S67..



11

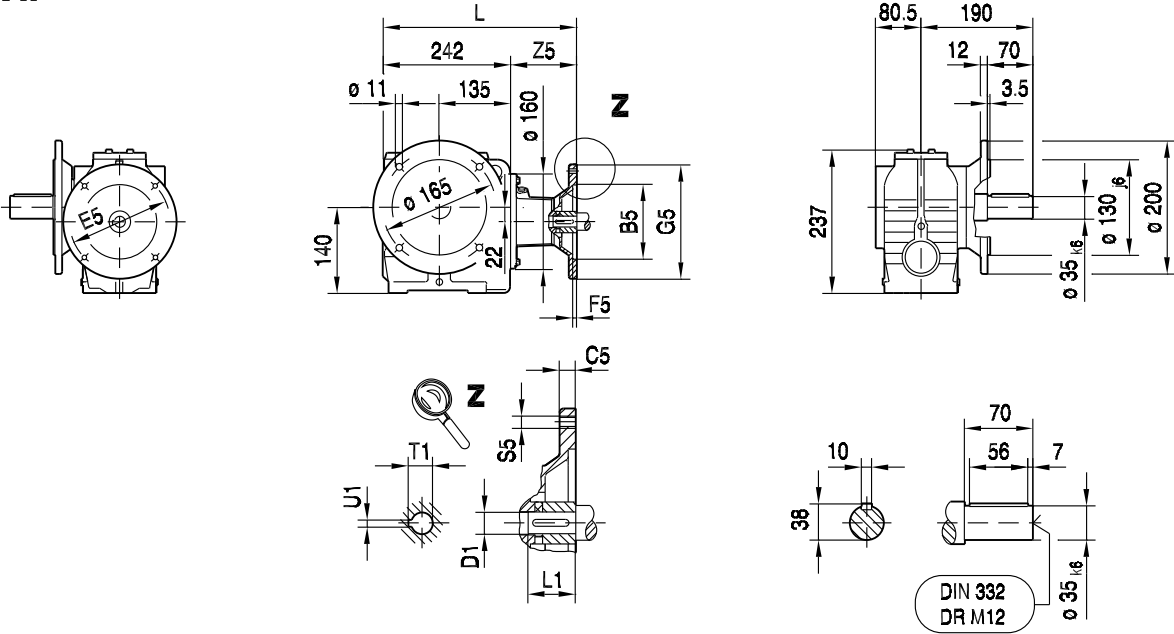
(→  130)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AM63	95	10	115	3.5	140	307	M8	66	11	23	12.8	4
AM71	110	10	130	4.0	160	307	M8	66	14	30	16.3	5
AM80	130	12	165	4.5	200	340	M10	99	19	40	21.8	6
AM90	130	12	165	4.5	200	340	M10	99	24	50	27.3	8
AM100	180	15	215	5.0	250	375	M12	134	28	60	31.3	8
AM112	180	15	215	5.0	250	375	M12	134	28	60	31.3	8
AM132S/M	230	16	265	5.0	300	432	M12	191	38	80	41.3	10



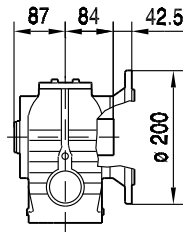
S..  
S.. AM.. (IEC) [mm]

02 017 02 01

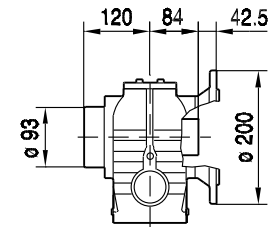
**SF67..**



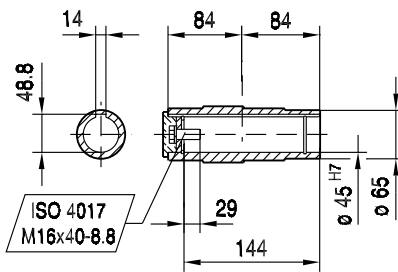
**SAF67..**



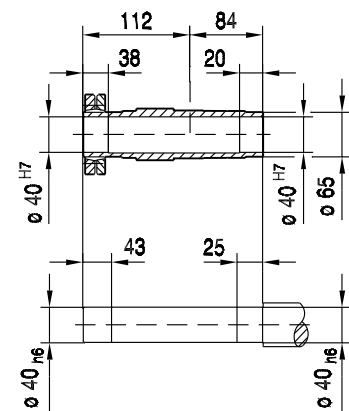
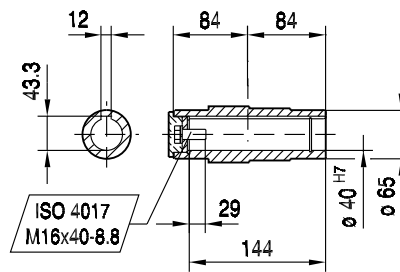
**SHF67..**



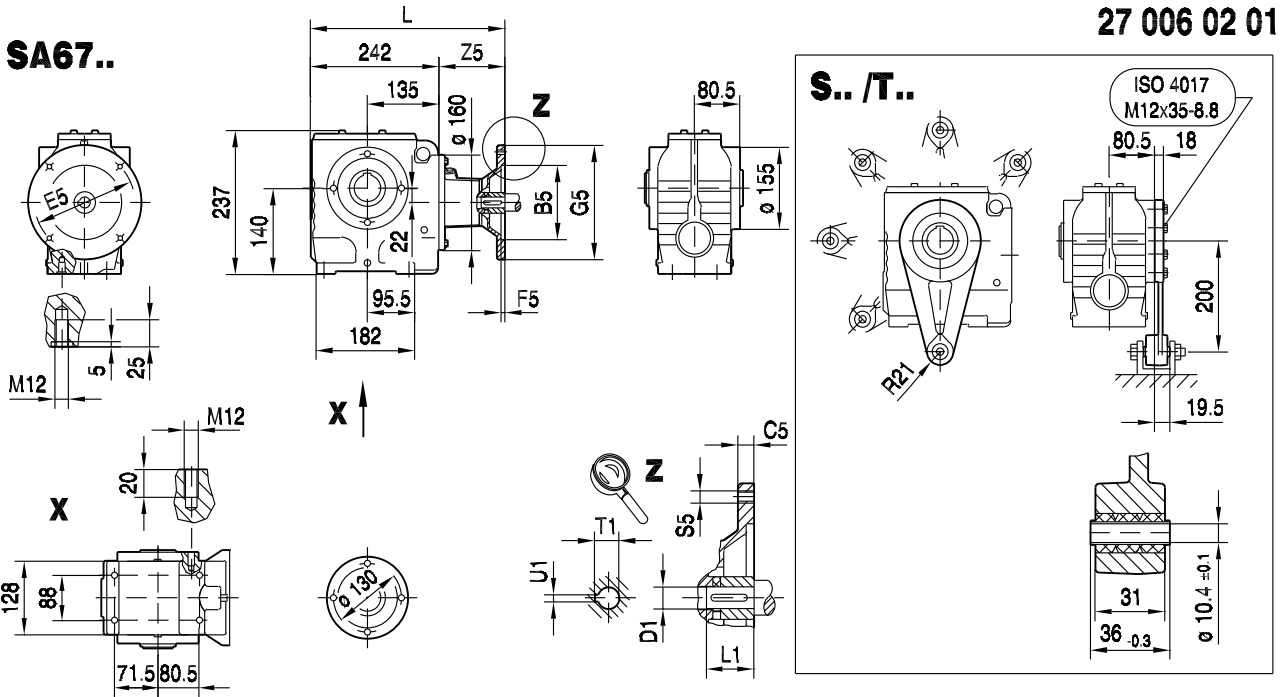
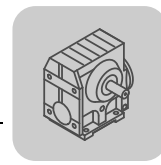
**ø 45 H7**



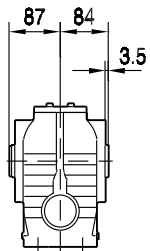
**ø 40 H7**



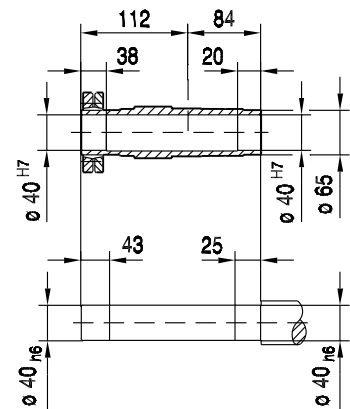
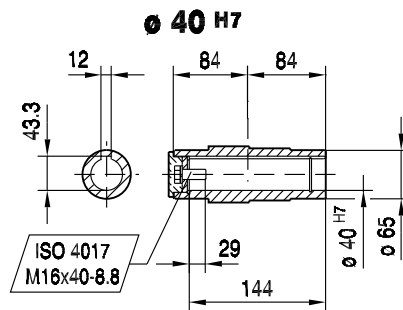
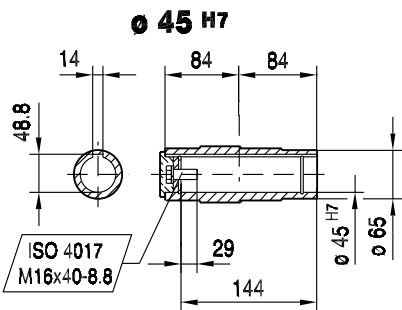
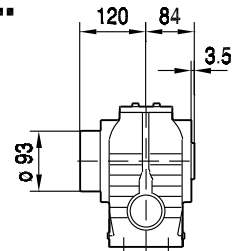
(→ 130)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1	
AM63	95	10	115	3.5	140	308	M8	66	11	23	12.8	4	
AM71	110	10	130	4.0	160	308	M8	66	14	30	16.3	5	
AM80	130	12	165	4.5	200	341	M10	99	19	40	21.8	6	
AM90	130	12	165	4.5	200	341	M10	99	24	50	27.3	8	
AM100	180	15	215	5.0	250	376	M12	134	28	60	31.3	8	
AM112	180	15	215	5.0	250	376	M12	134	28	60	31.3	8	
AM132S/M	230	16	265	5.0	300	433	M12	191	38	80	41.3	10	



**SA67..**

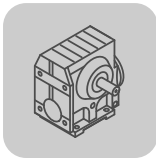


**SH67..**



(→ 130)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AM63	95	10	115	3.5	140	308	M8	66	11	23	12.8	4
AM71	110	10	130	4.0	160	308	M8	66	14	30	16.3	5
AM80	130	12	165	4.5	200	341	M10	99	19	40	21.8	6
AM90	130	12	165	4.5	200	341	M10	99	24	50	27.3	8
AM100	180	15	215	5.0	250	376	M12	134	28	60	31.3	8
AM112	180	15	215	5.0	250	376	M12	134	28	60	31.3	8
AM132S/M	230	16	265	5.0	300	433	M12	191	38	80	41.3	10

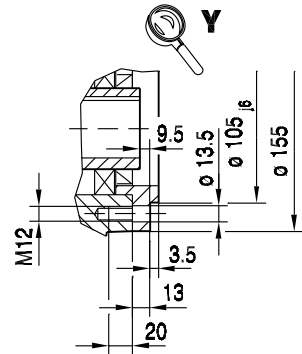
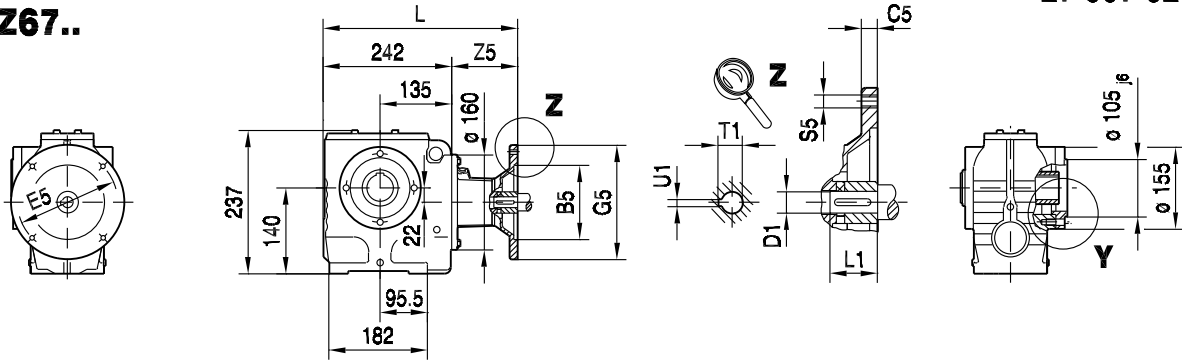




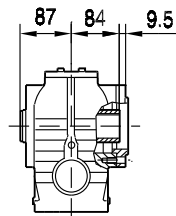
S..  
S.. AM.. (IEC) [mm]

27 007 02 01

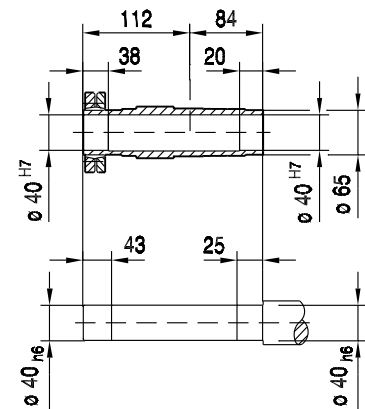
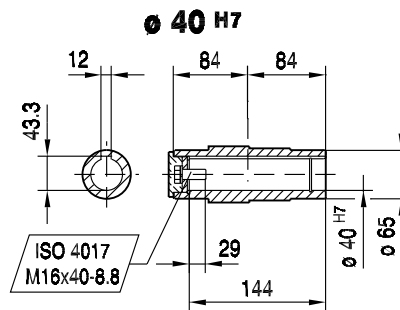
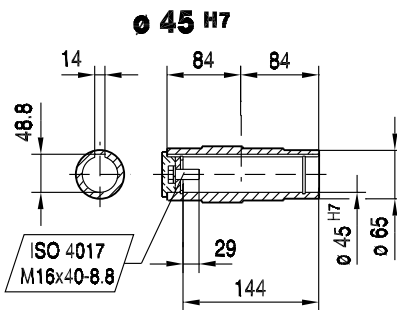
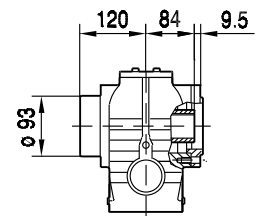
**SAZ67..**



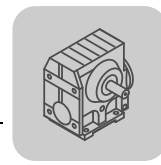
**SAZ67..**



**SHZ67..**

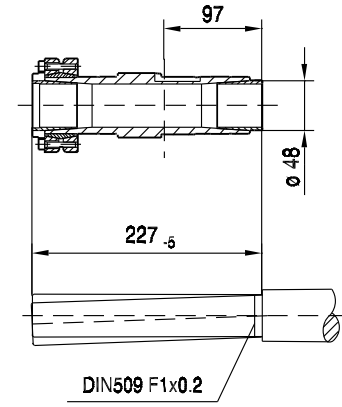
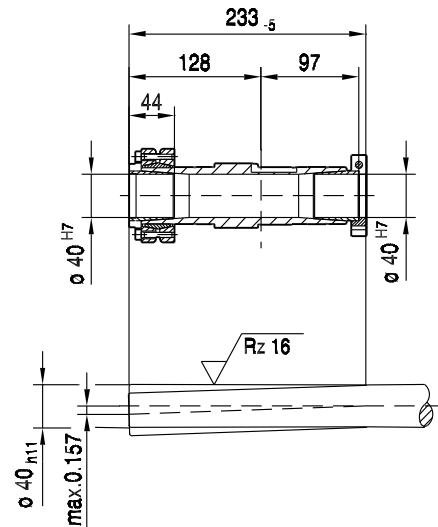
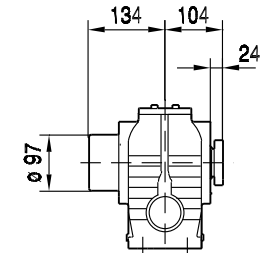
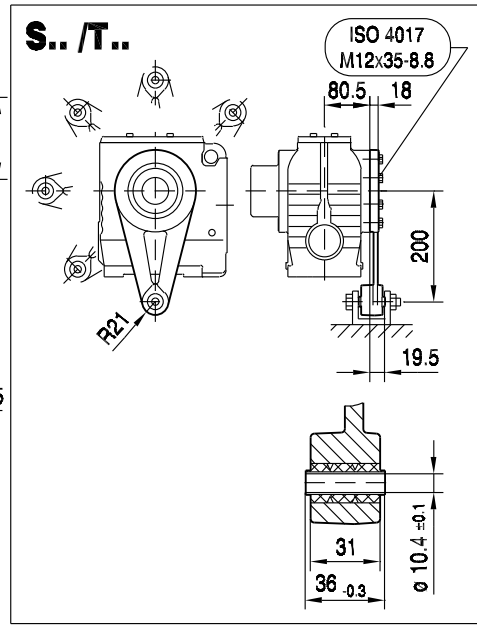
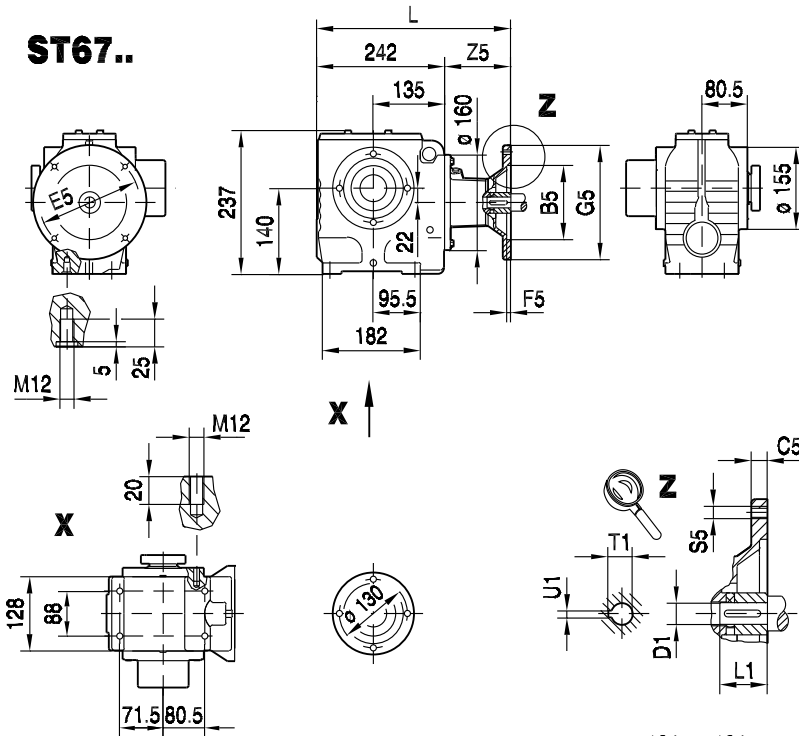


(→ 130)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1	
AM63	95	10	115	3.5	140	308	M8	66	11	23	12.8	4	
AM71	110	10	130	4.0	160	308	M8	66	14	30	16.3	5	
AM80	130	12	165	4.5	200	341	M10	99	19	40	21.8	6	
AM90	130	12	165	4.5	200	341	M10	99	24	50	27.3	8	
AM100	180	15	215	5.0	250	376	M12	134	28	60	31.3	8	
AM112	180	15	215	5.0	250	376	M12	134	28	60	31.3	8	
AM132S/M	230	16	265	5.0	300	433	M12	191	38	80	41.3	10	



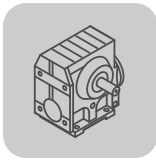
27 005 00 04

**ST67..**



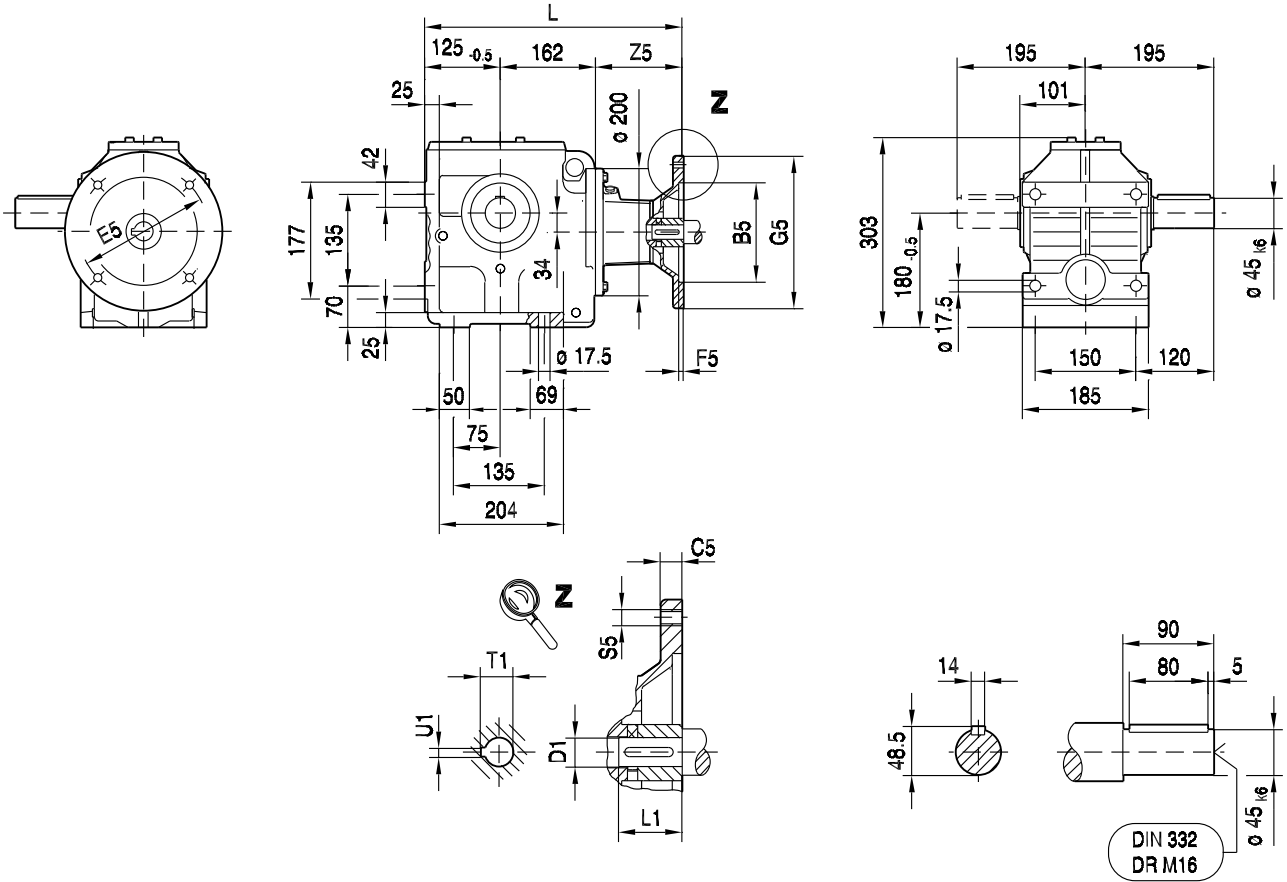
11

(→ 130)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AM63	95	10	115	3.5	140	308	M8	66	11	23	12.8	4
AM71	110	10	130	4.0	160	308	M8	66	14	30	16.3	5
AM80	130	12	165	4.5	200	341	M10	99	19	40	21.8	6
AM90	130	12	165	4.5	200	341	M10	99	24	50	27.3	8
AM100	180	15	215	5.0	250	376	M12	134	28	60	31.3	8
AM112	180	15	215	5.0	250	376	M12	134	28	60	31.3	8
AM132S/M	230	16	265	5.0	300	433	M12	191	38	80	41.3	10

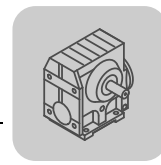


02 018 02 01

S77..

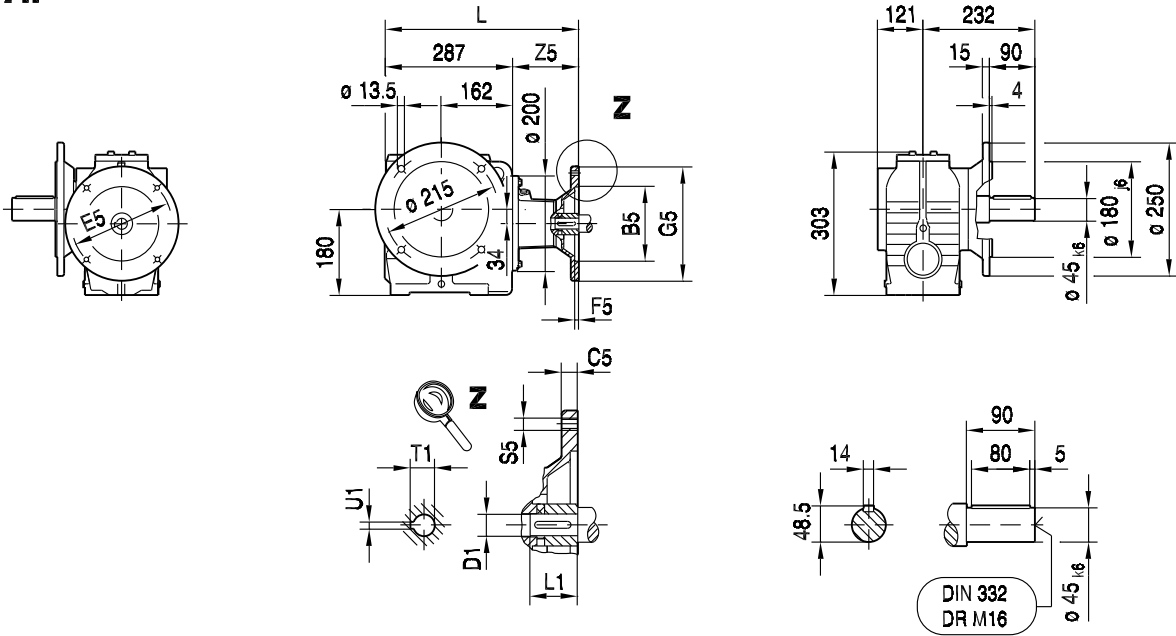


(→ 130)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AM63	95	10	115	3.5	140	347	M8	60	11	23	12.8	4
AM71	110	10	130	4.0	160	347	M8	60	14	30	16.3	5
AM80	130	12	165	4.5	200	379	M10	92	19	40	21.8	6
AM90	130	12	165	4.5	200	379	M10	92	24	50	27.3	8
AM100	180	15	215	5.0	250	413	M12	126	28	60	31.3	8
AM112	180	15	215	5.0	250	413	M12	126	28	60	31.3	8
AM132S/M	230	16	265	5.0	300	466	M12	179	38	80	41.3	10
AM132ML	230	16	265	5.0	300	466	M12	179	38	80	41.3	10

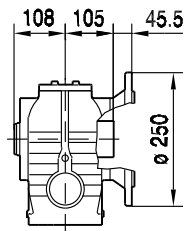


02 019 02 01

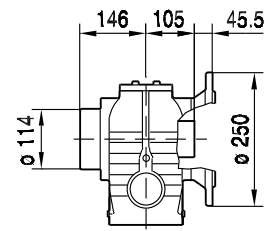
**SF77..**



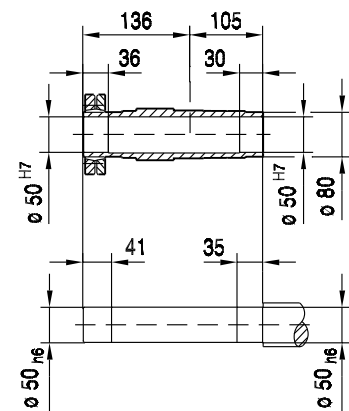
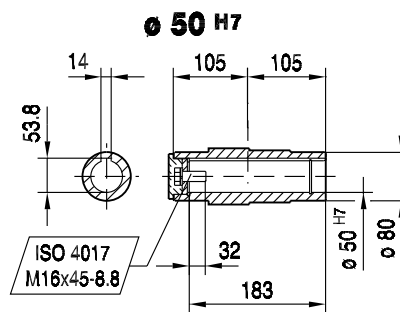
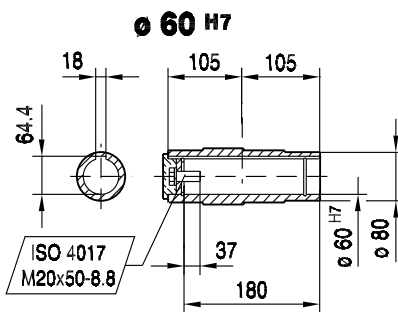
**SAF77..**



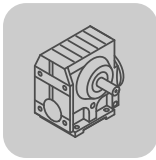
**SHF77..**



11



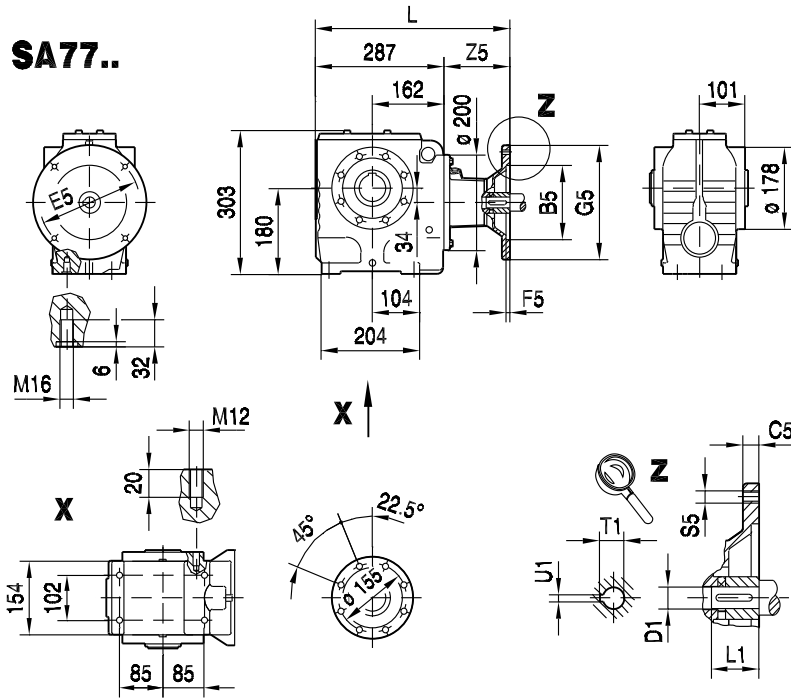
(→ 130)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AM63	95	10	115	3.5	140	347	M8	60	11	23	12.8	4
AM71	110	10	130	4.0	160	347	M8	60	14	30	16.3	5
AM80	130	12	165	4.5	200	379	M10	92	19	40	21.8	6
AM90	130	12	165	4.5	200	379	M10	92	24	50	27.3	8
AM100	180	15	215	5.0	250	413	M12	126	28	60	31.3	8
AM112	180	15	215	5.0	250	413	M12	126	28	60	31.3	8
AM132S/M	230	16	265	5.0	300	466	M12	179	38	80	41.3	10
AM132ML	230	16	265	5.0	300	466	M12	179	38	80	41.3	10



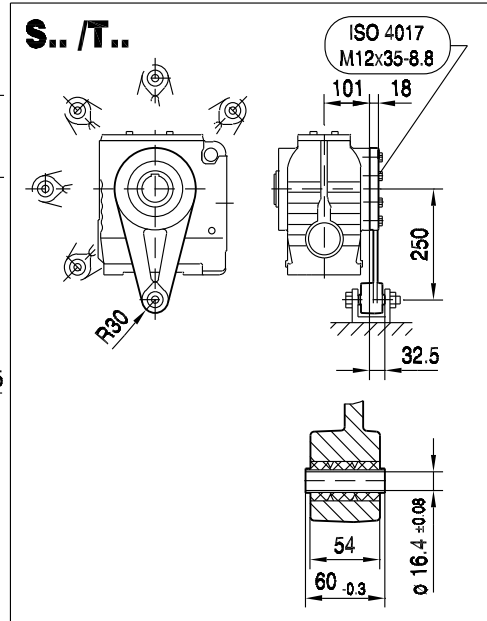
S..  
S.. AM.. (IEC) [mm]

27 008 02 01

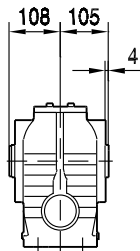
**SA77..**



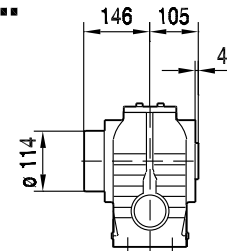
**S../T..**



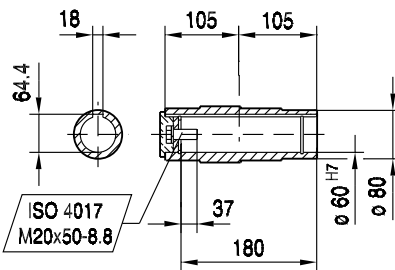
**SA77..**



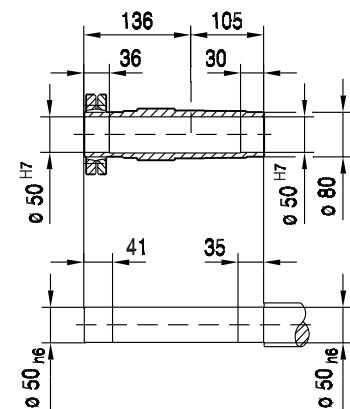
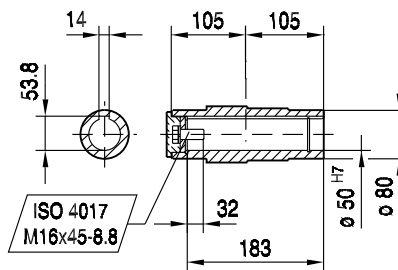
**SH77..**



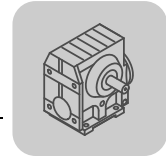
Ø 60 H7



Ø 50 H7

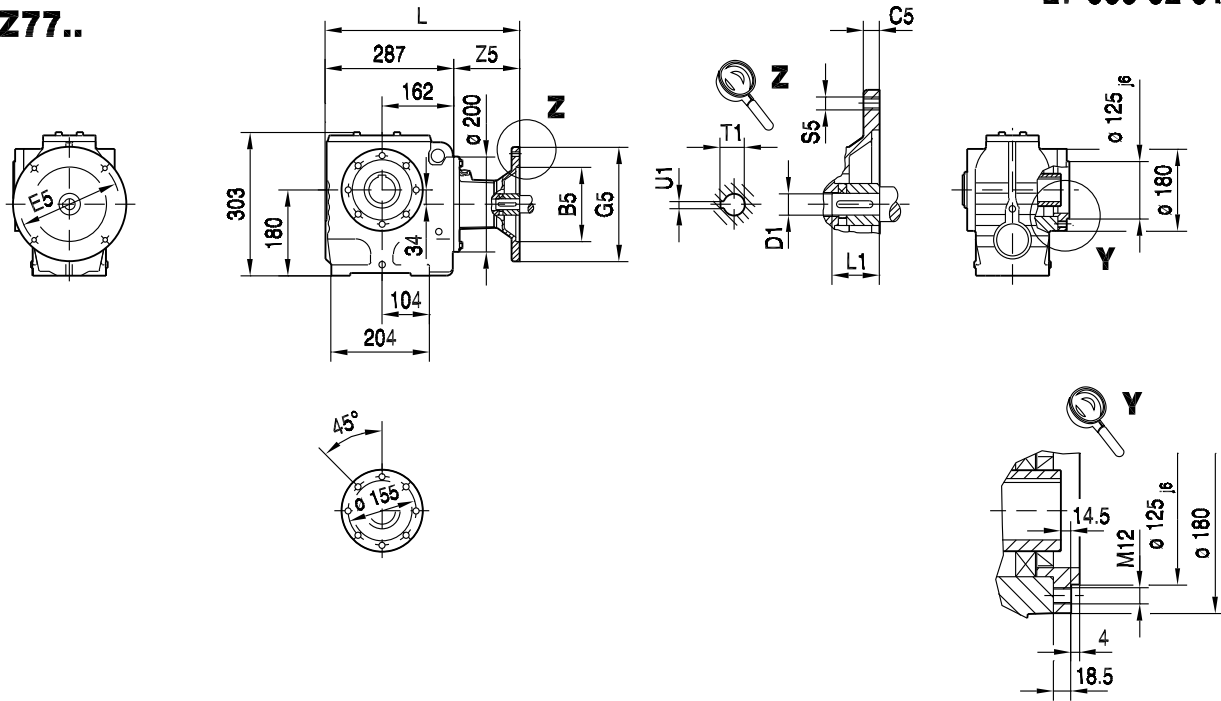


(→ 130)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AM63	95	10	115	3.5	140	347	M8	60	11	23	12.8	4
AM71	110	10	130	4.0	160	347	M8	60	14	30	16.3	5
AM80	130	12	165	4.5	200	379	M10	92	19	40	21.8	6
AM90	130	12	165	4.5	200	379	M10	92	24	50	27.3	8
AM100	180	15	215	5.0	250	413	M12	126	28	60	31.3	8
AM112	180	15	215	5.0	250	413	M12	126	28	60	31.3	8
AM132S/M	230	16	265	5.0	300	466	M12	179	38	80	41.3	10
AM132ML	230	16	265	5.0	300	466	M12	179	38	80	41.3	10

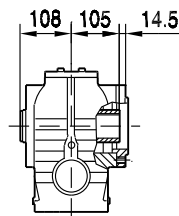


27 009 02 01

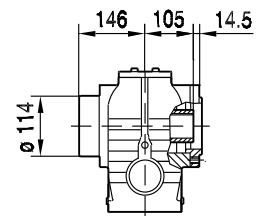
**SAZ77..**



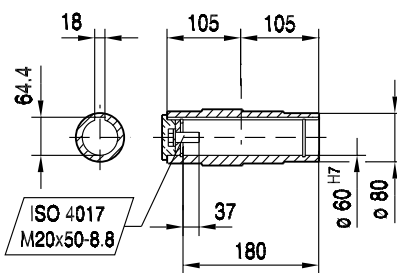
**SAZ77..**



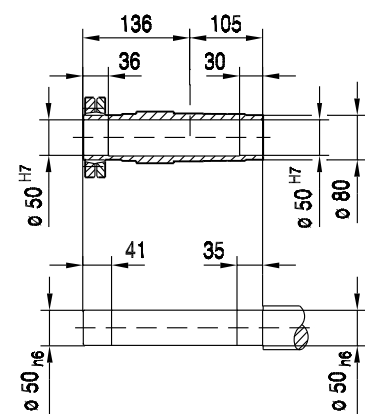
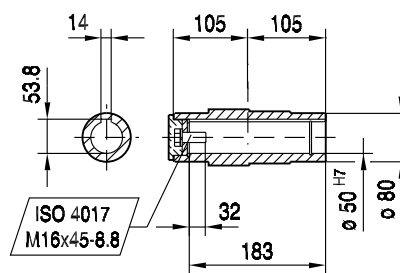
**SHZ77..**



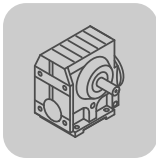
**∅ 60 H7**



**∅ 50 H7**



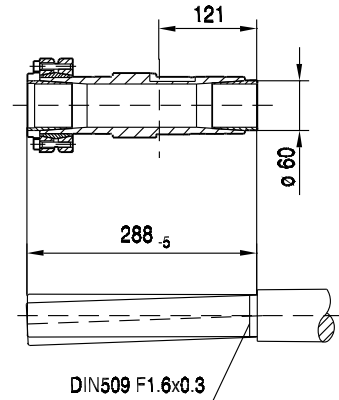
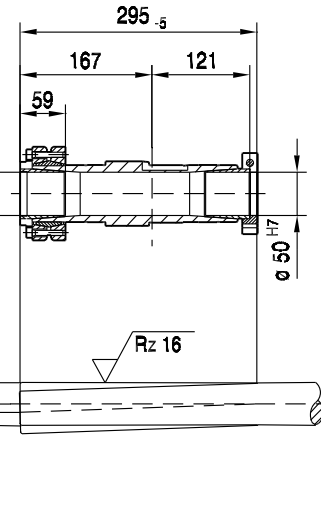
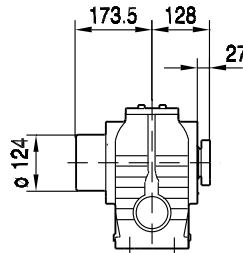
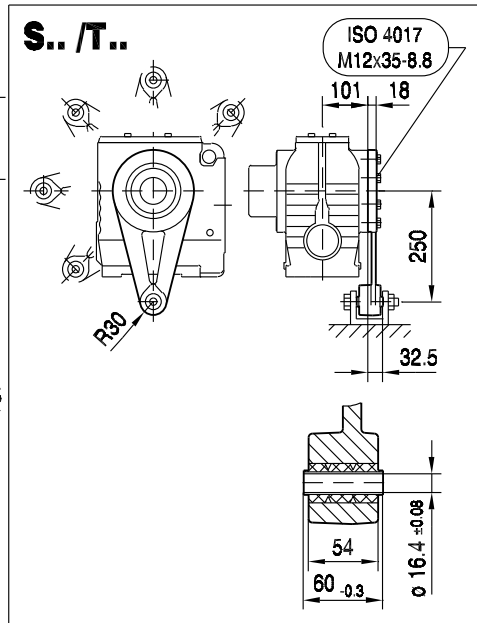
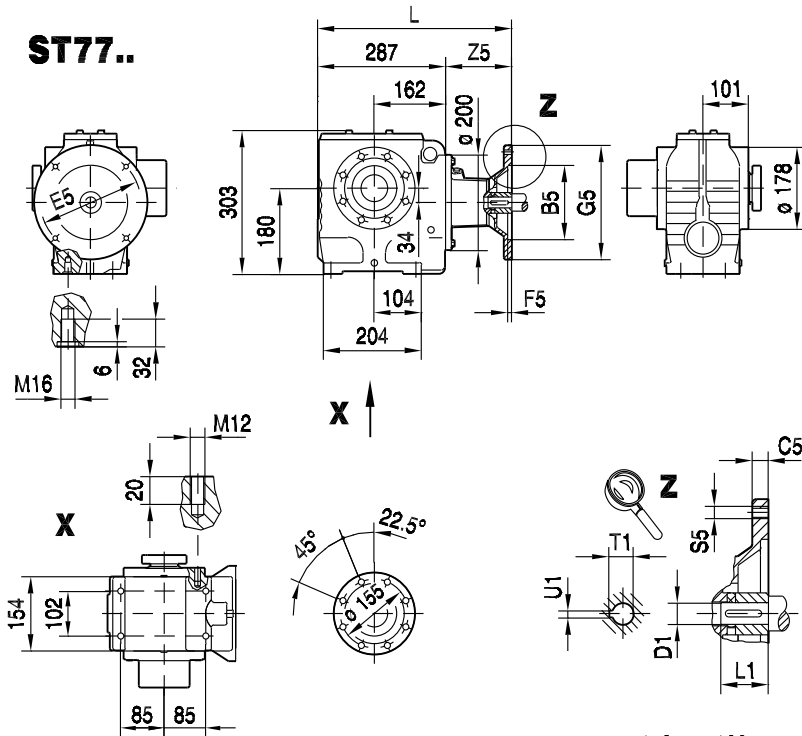
(→ 130)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AM63	95	10	115	3.5	140	347	M8	60	11	23	12.8	4
AM71	110	10	130	4.0	160	347	M8	60	14	30	16.3	5
AM80	130	12	165	4.5	200	379	M10	92	19	40	21.8	6
AM90	130	12	165	4.5	200	379	M10	92	24	50	27.3	8
AM100	180	15	215	5.0	250	413	M12	126	28	60	31.3	8
AM112	180	15	215	5.0	250	413	M12	126	28	60	31.3	8
AM132S/M	230	16	265	5.0	300	466	M12	179	38	80	41.3	10
AM132ML	230	16	265	5.0	300	466	M12	179	38	80	41.3	10



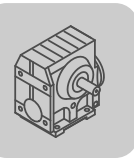
S..  
S.. AM.. (IEC) [mm]

27 006 00 04

ST77..

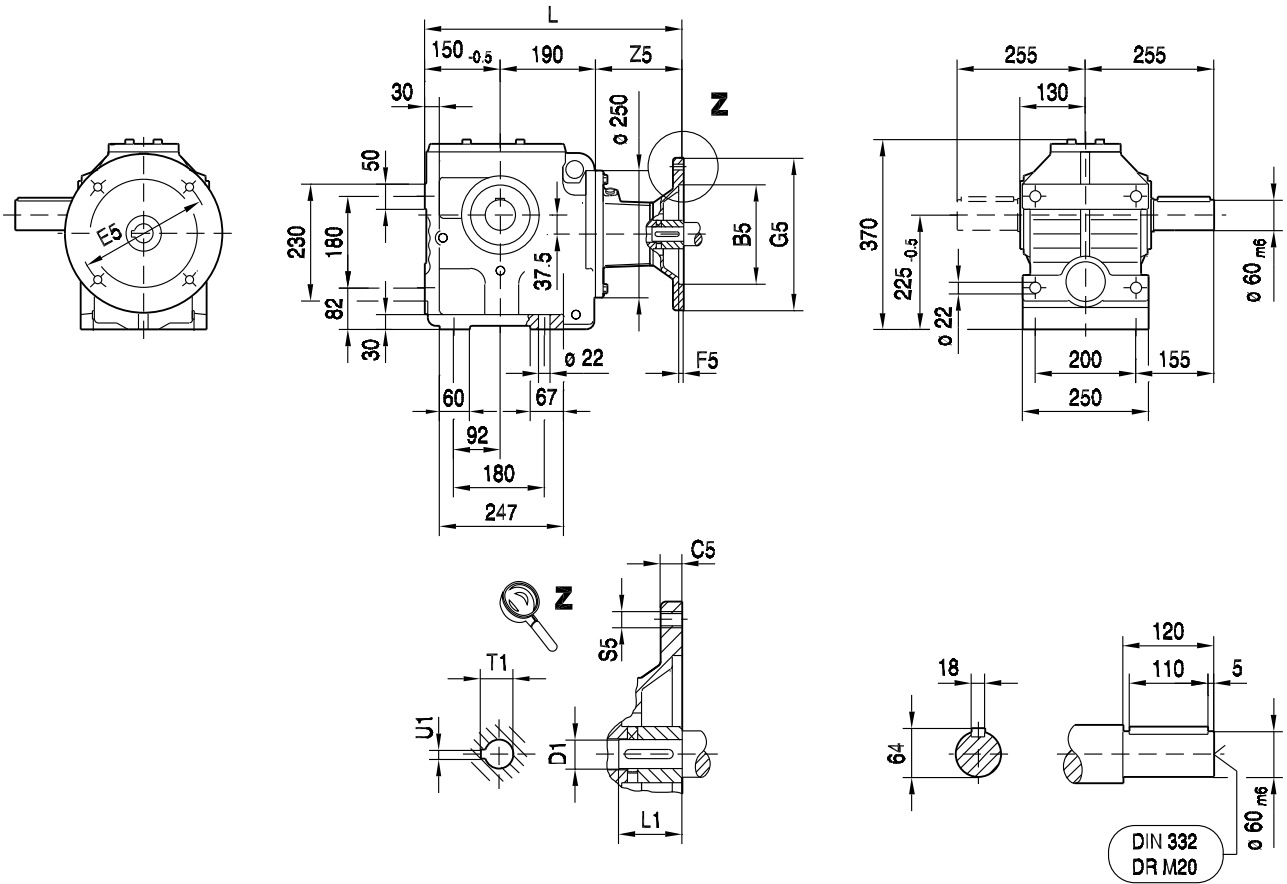


(→ 130)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1	
AM63	95	10	115	3.5	140	347	M8	60	11	23	12.8	4	
AM71	110	10	130	4.0	160	347	M8	60	14	30	16.3	5	
AM80	130	12	165	4.5	200	379	M10	92	19	40	21.8	6	
AM90	130	12	165	4.5	200	379	M10	92	24	50	27.3	8	
AM100	180	15	215	5.0	250	413	M12	126	28	60	31.3	8	
AM112	180	15	215	5.0	250	413	M12	126	28	60	31.3	8	
AM132S/M	230	16	265	5.0	300	466	M12	179	38	80	41.3	10	
AM132ML	230	16	265	5.0	300	466	M12	179	38	80	41.3	10	



02 020 01 01

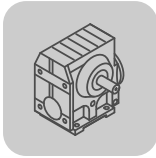
S87..



11

(→ 130)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AM80	130	12	165	4.5	200	427	M10	87	19	40	21.8	6
AM90	130	12	165	4.5	200	427	M10	87	24	50	27.3	8
AM100	180	15	215	5.0	250	461	M12	121	28	60	31.3	8
AM112	180	15	215	5.0	250	461	M12	121	28	60	31.3	8
AM132S/M	230	16	265	5.0	300	514	M12	174	38	80	41.3	10
AM132ML	230	16	265	5.0	300	514	M12	174	38	80	41.3	10
AM160	250	18	300	6.0	350	572	M16	232	42	110	45.3	12

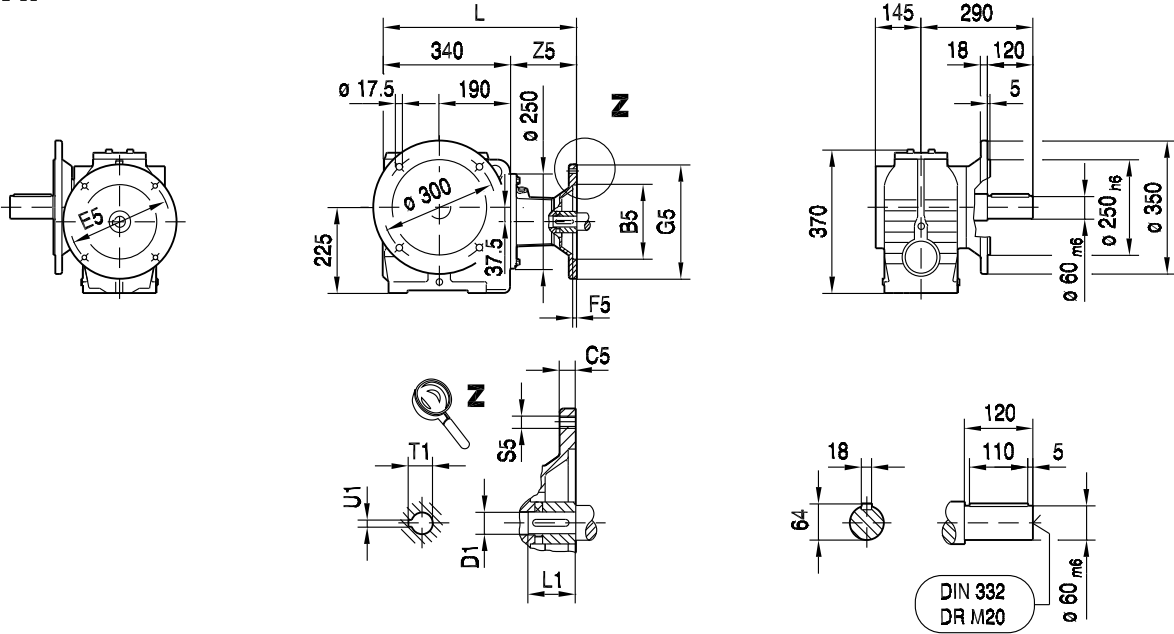




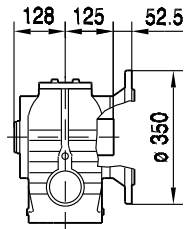
S..  
S.. AM.. (IEC) [mm]

02 021 01 01

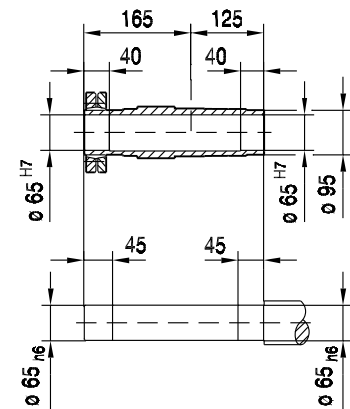
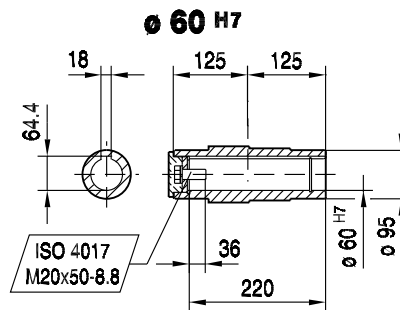
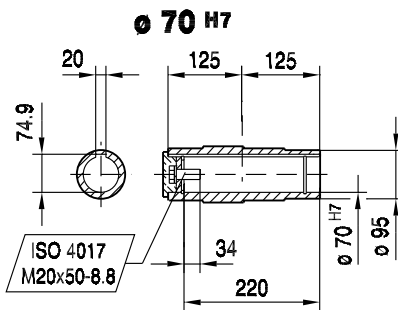
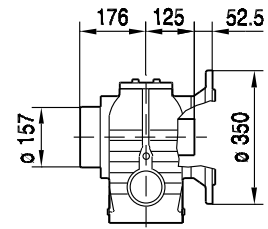
**SF87..**



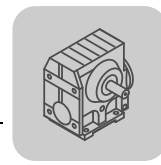
**SAF87..**



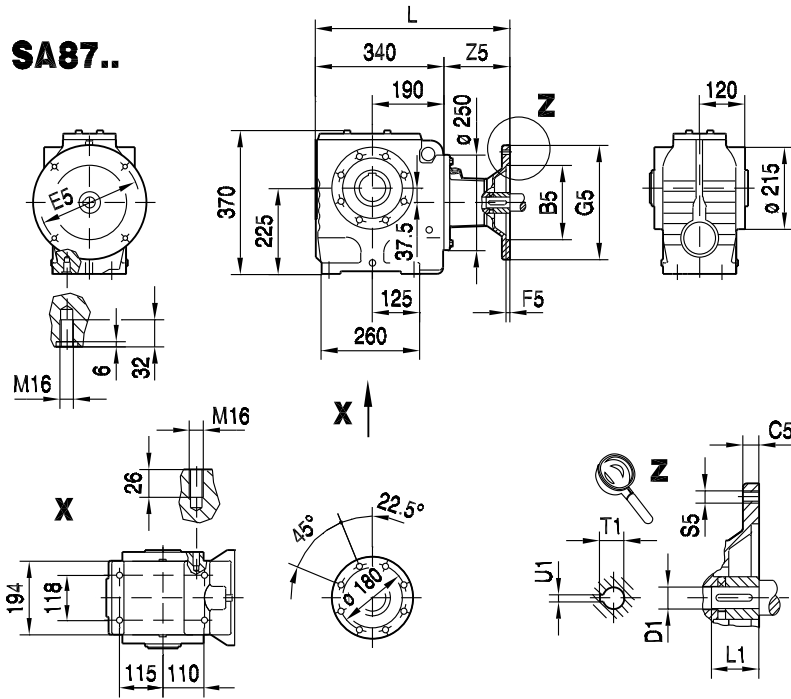
**SHF87..**



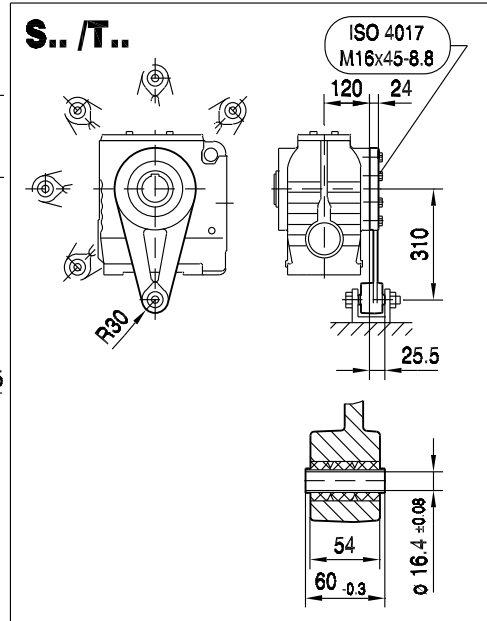
(→ 130)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1	
AM80	130	12	165	4.5	200	427	M10	87	19	40	21.8	6	
AM90	130	12	165	4.5	200	427	M10	87	24	50	27.3	8	
AM100	180	15	215	5.0	250	461	M12	121	28	60	31.3	8	
AM112	180	15	215	5.0	250	461	M12	121	28	60	31.3	8	
AM132S/M	230	16	265	5.0	300	514	M12	174	38	80	41.3	10	
AM132ML	230	16	265	5.0	300	514	M12	174	38	80	41.3	10	
AM160	250	18	300	6.0	350	572	M16	232	42	110	45.3	12	



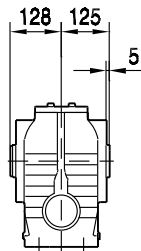
**SA87..**



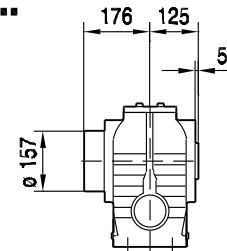
**27 010 01 01**



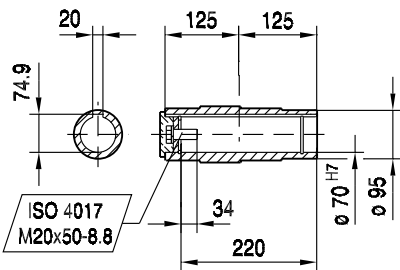
**SA87..**



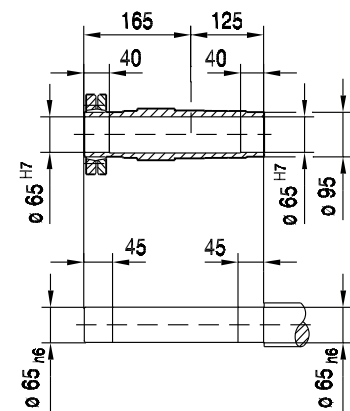
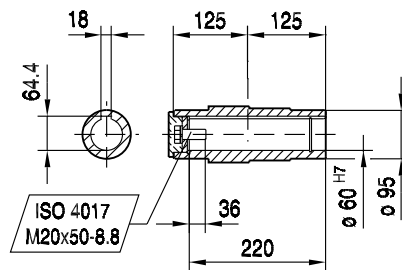
**SH87..**



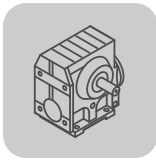
**ø 70 H7**



**ø 60 H7**



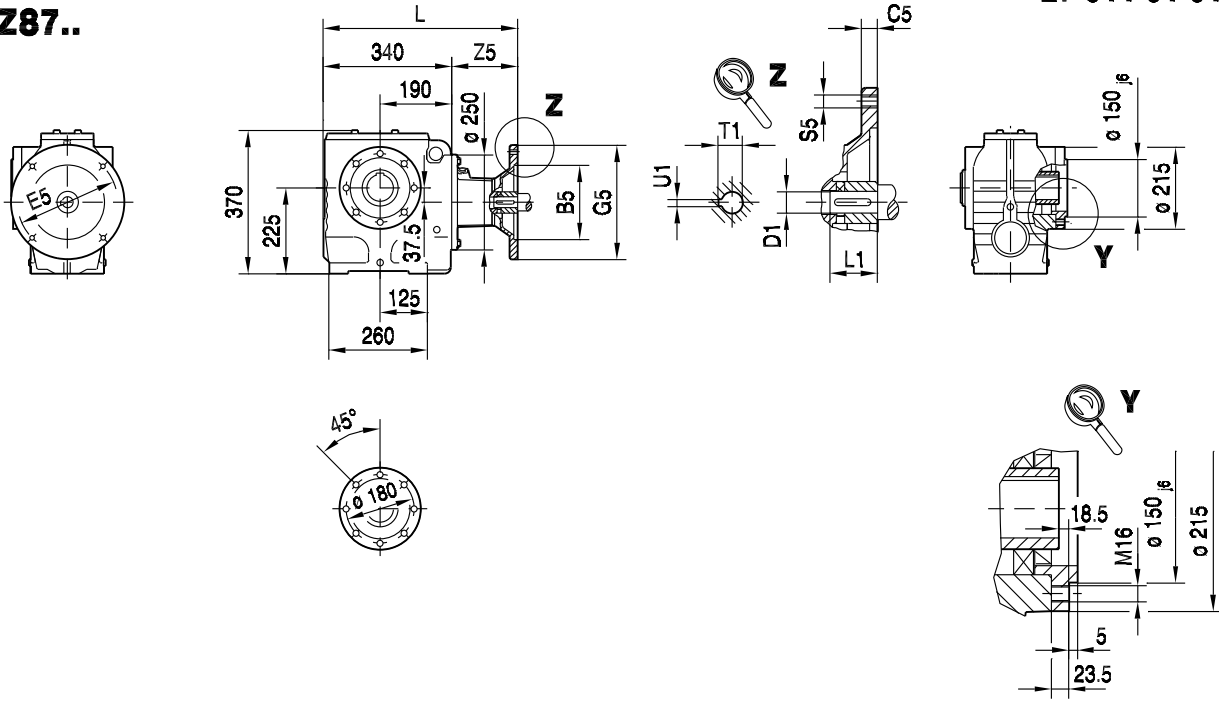
(→ 130)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AM80	130	12	165	4.5	200	427	M10	87	19	40	21.8	6
AM90	130	12	165	4.5	200	427	M10	87	24	50	27.3	8
AM100	180	15	215	5.0	250	461	M12	121	28	60	31.3	8
AM112	180	15	215	5.0	250	461	M12	121	28	60	31.3	8
AM132S/M	230	16	265	5.0	300	514	M12	174	38	80	41.3	10
AM132ML	230	16	265	5.0	300	514	M12	174	38	80	41.3	10
AM160	250	18	300	6.0	350	572	M16	232	42	110	45.3	12



S..  
S.. AM.. (IEC) [mm]

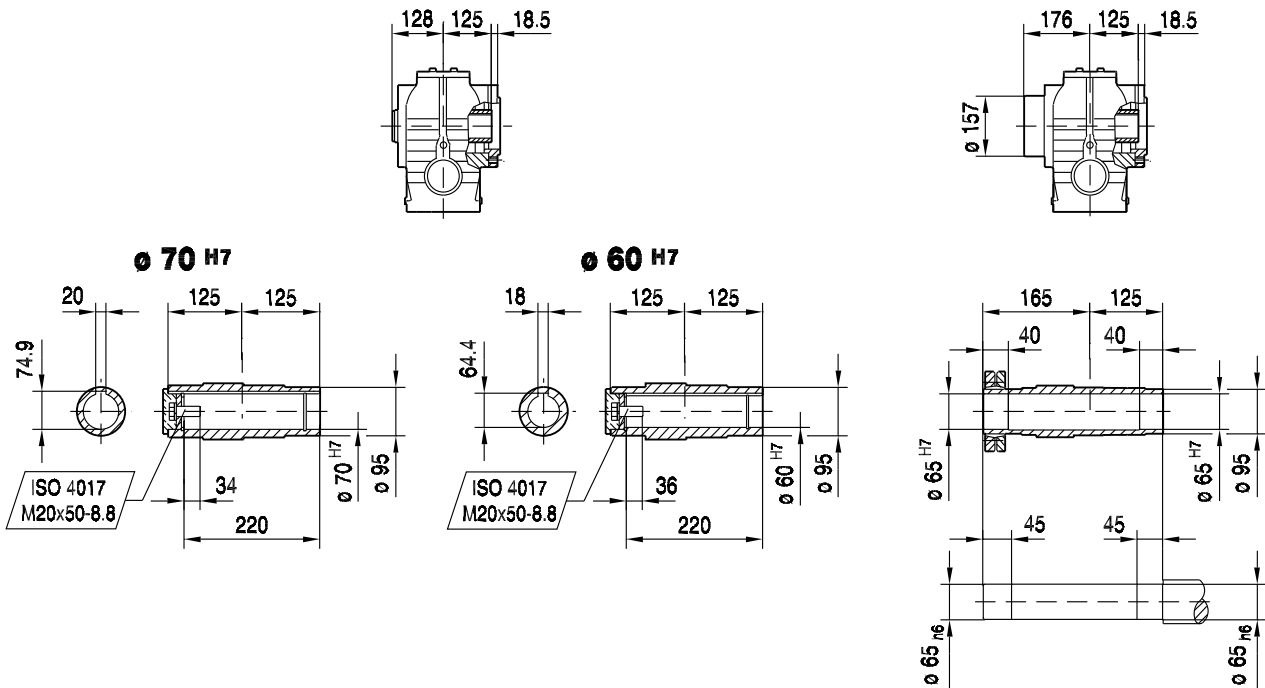
27 011 01 01

**SAZ87..**

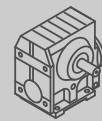


**SAZ87..**

**SHZ87..**

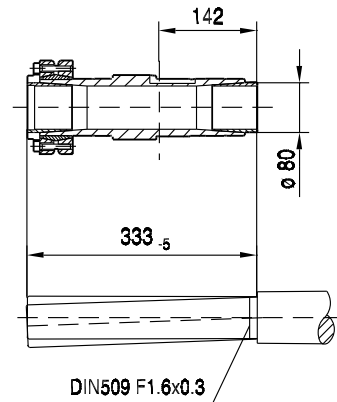
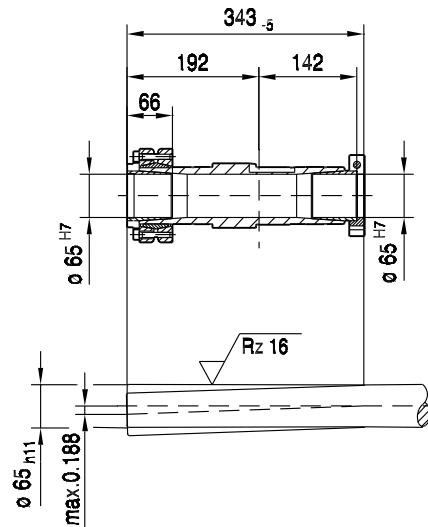
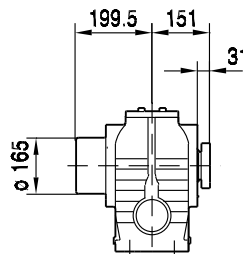
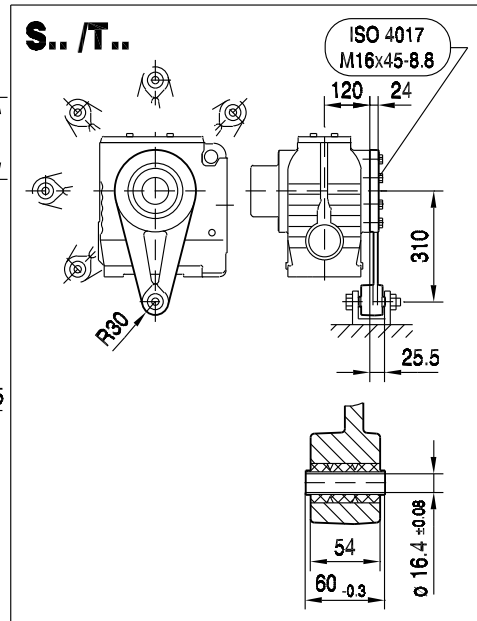
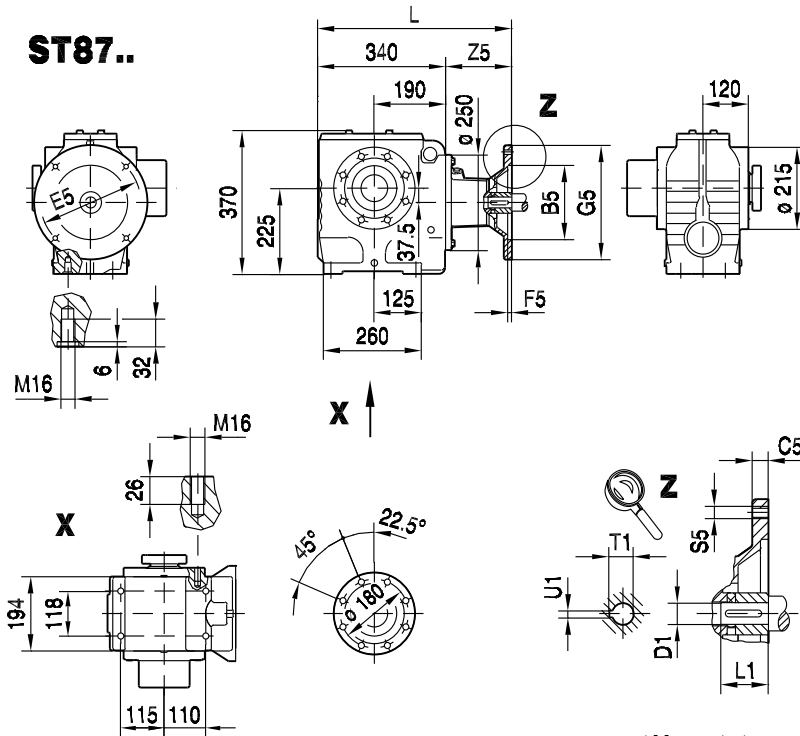


(→ 130)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1	
AM80	130	12	165	4.5	200	427	M10	87	19	40	21.8	6	
AM90	130	12	165	4.5	200	427	M10	87	24	50	27.3	8	
AM100	180	15	215	5.0	250	461	M12	121	28	60	31.3	8	
AM112	180	15	215	5.0	250	461	M12	121	28	60	31.3	8	
AM132S/M	230	16	265	5.0	300	514	M12	174	38	80	41.3	10	
AM132ML	230	16	265	5.0	300	514	M12	174	38	80	41.3	10	
AM160	250	18	300	6.0	350	572	M16	232	42	110	45.3	12	

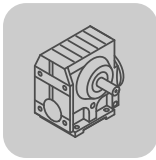


27 007 00 04

ST87..

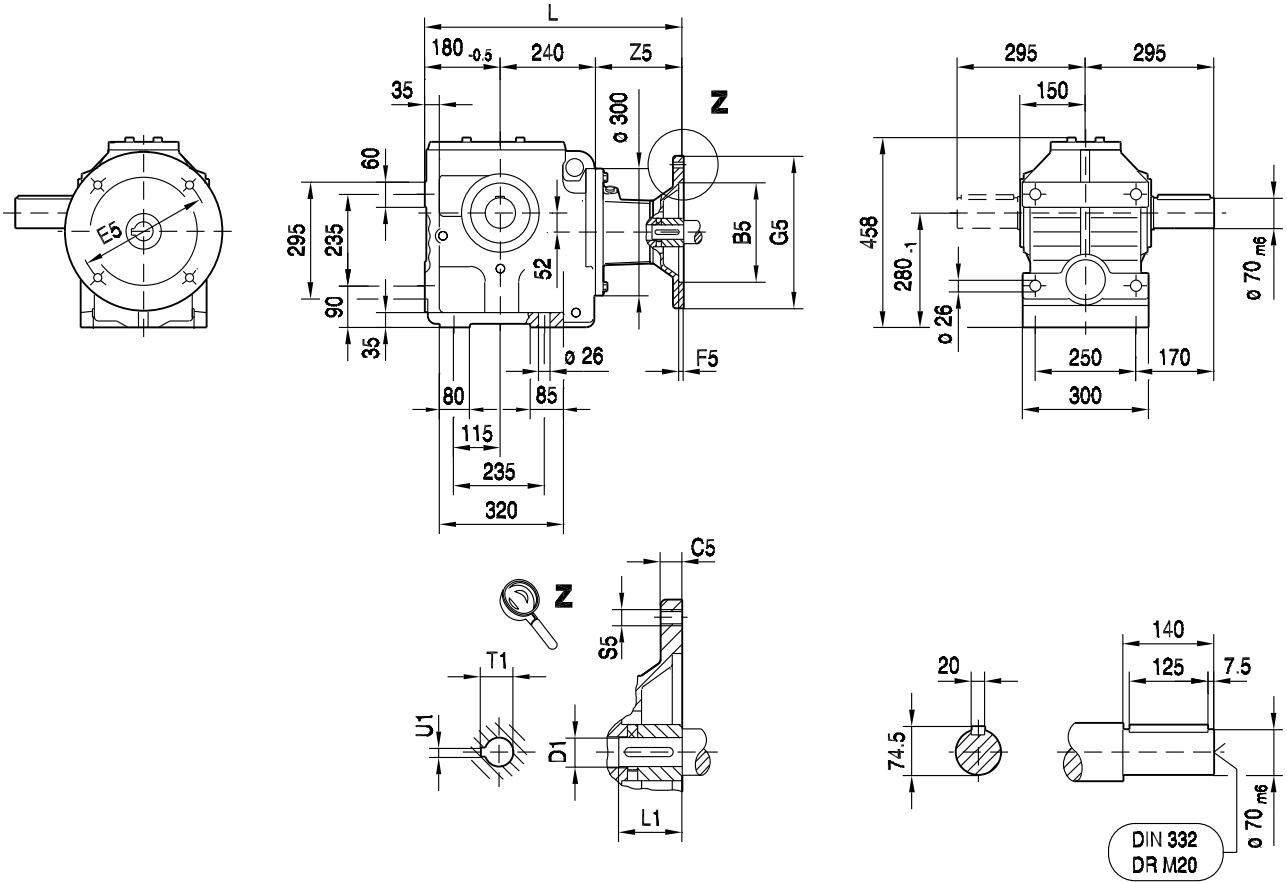


(→ 130)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AM80	130	12	165	4.5	200	427	M10	87	19	40	21.8	6
AM90	130	12	165	4.5	200	427	M10	87	24	50	27.3	8
AM100	180	15	215	5.0	250	461	M12	121	28	60	31.3	8
AM112	180	15	215	5.0	250	461	M12	121	28	60	31.3	8
AM132S/M	230	16	265	5.0	300	514	M12	174	38	80	41.3	10
AM132ML	230	16	265	5.0	300	514	M12	174	38	80	41.3	10
AM160	250	18	300	6.0	350	572	M16	232	42	110	45.3	12

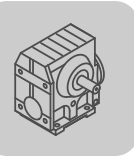


02 022 01 01

S97..

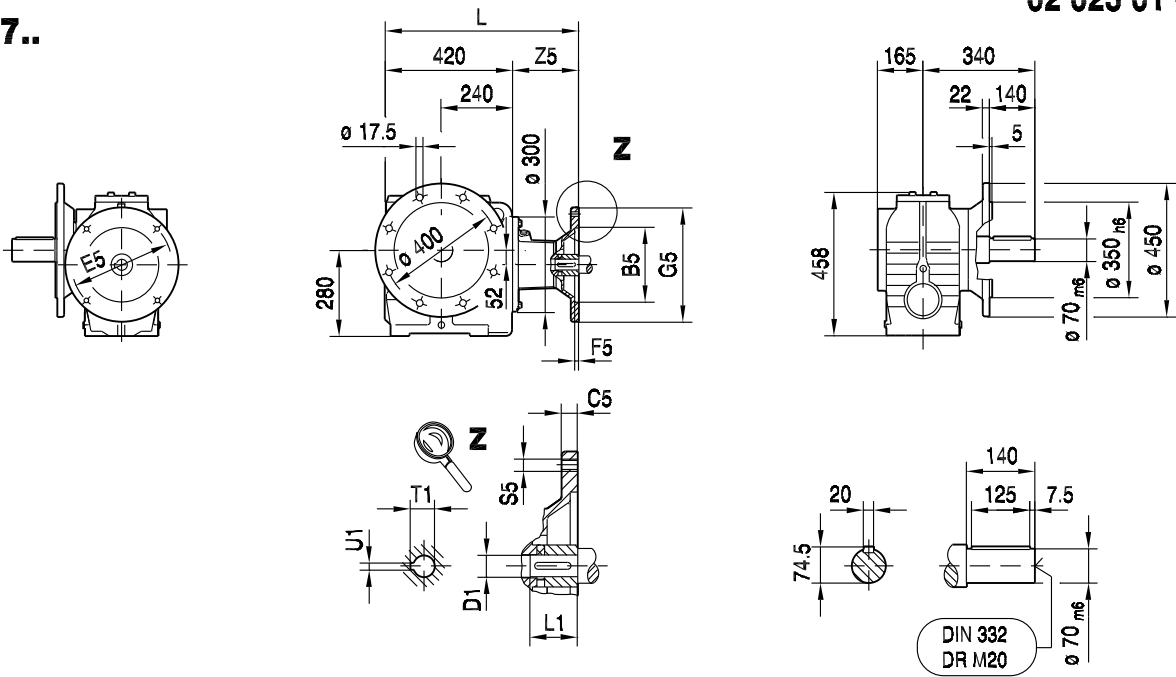


(→ 130)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1	
AM100	180	15	215	5.0	250	536	M12	116	28	60	31.3	8	
AM112	180	15	215	5.0	250	536	M12	116	28	60	31.3	8	
AM132S/M	230	16	265	5.0	300	589	M12	169	38	80	41.3	10	
AM132ML	230	16	265	5.0	300	589	M12	169	38	80	41.3	10	
AM160	250	18	300	6.0	350	647	M16	227	42	110	45.3	12	
AM180	250	18	300	6.0	350	647	M16	227	48	110	51.8	14	

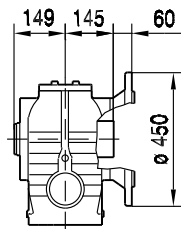


02 023 01 01

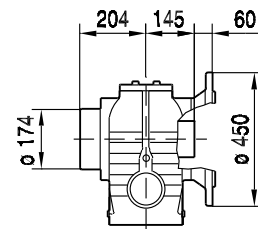
**SF97..**



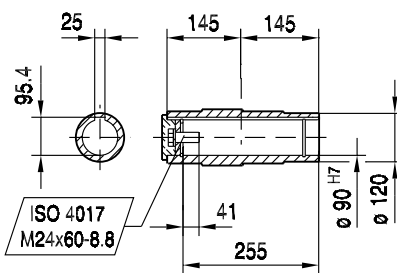
**SAF97..**



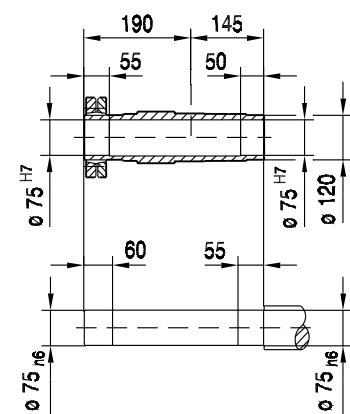
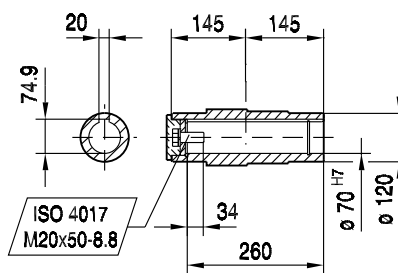
**SHF97..**



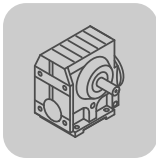
**Ø 90 H7**



**Ø 70 H7**



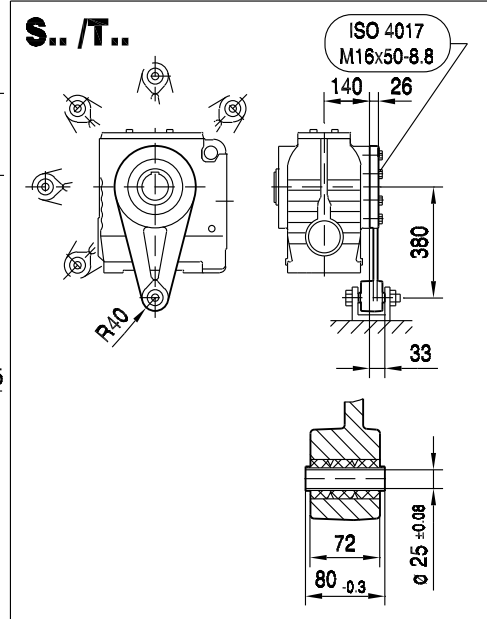
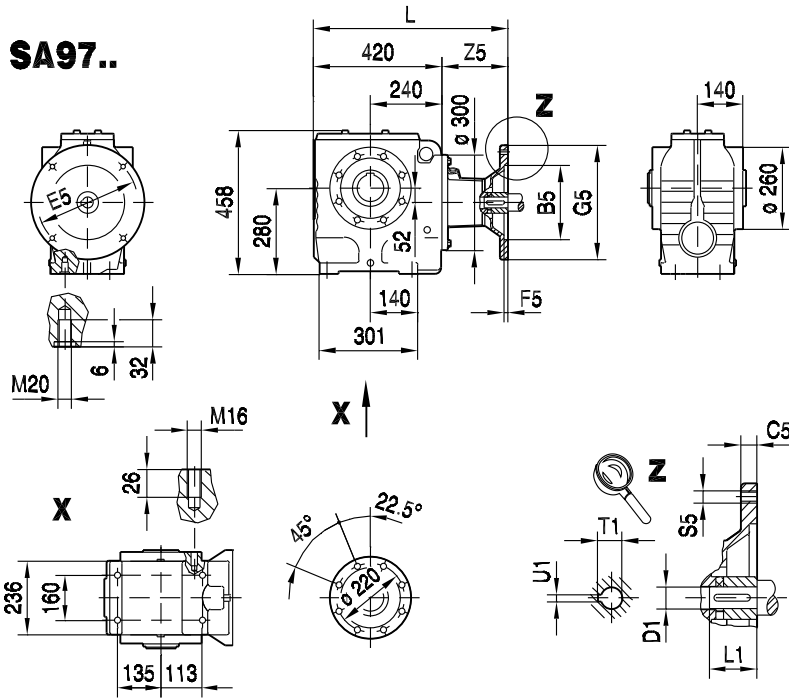
(→ 130)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AM100	180	15	215	5.0	250	536	M12	116	28	60	31.3	8
AM112	180	15	215	5.0	250	536	M12	116	28	60	31.3	8
AM132S/M	230	16	265	5.0	300	589	M12	169	38	80	41.3	10
AM132ML	230	16	265	5.0	300	589	M12	169	38	80	41.3	10
AM160	250	18	300	6.0	350	647	M16	227	42	110	45.3	12
AM180	250	18	300	6.0	350	647	M16	227	48	110	51.8	14



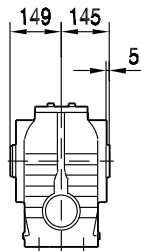
S..  
S.. AM.. (IEC) [mm]

27 012 01 01

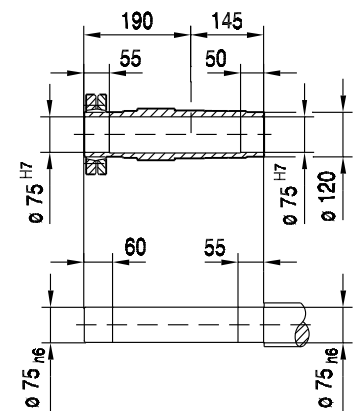
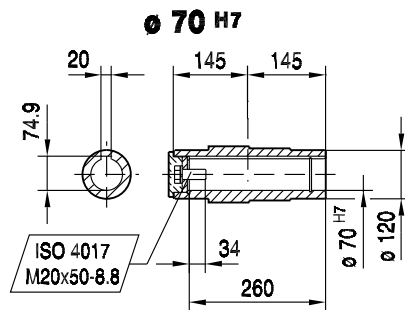
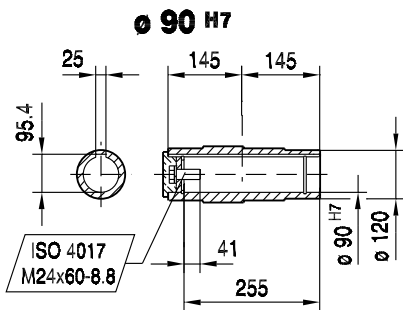
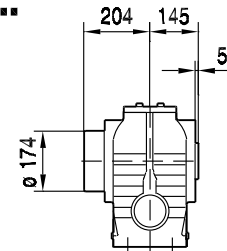
**SA97..**



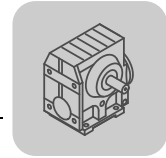
**SA97..**



**SH97..**

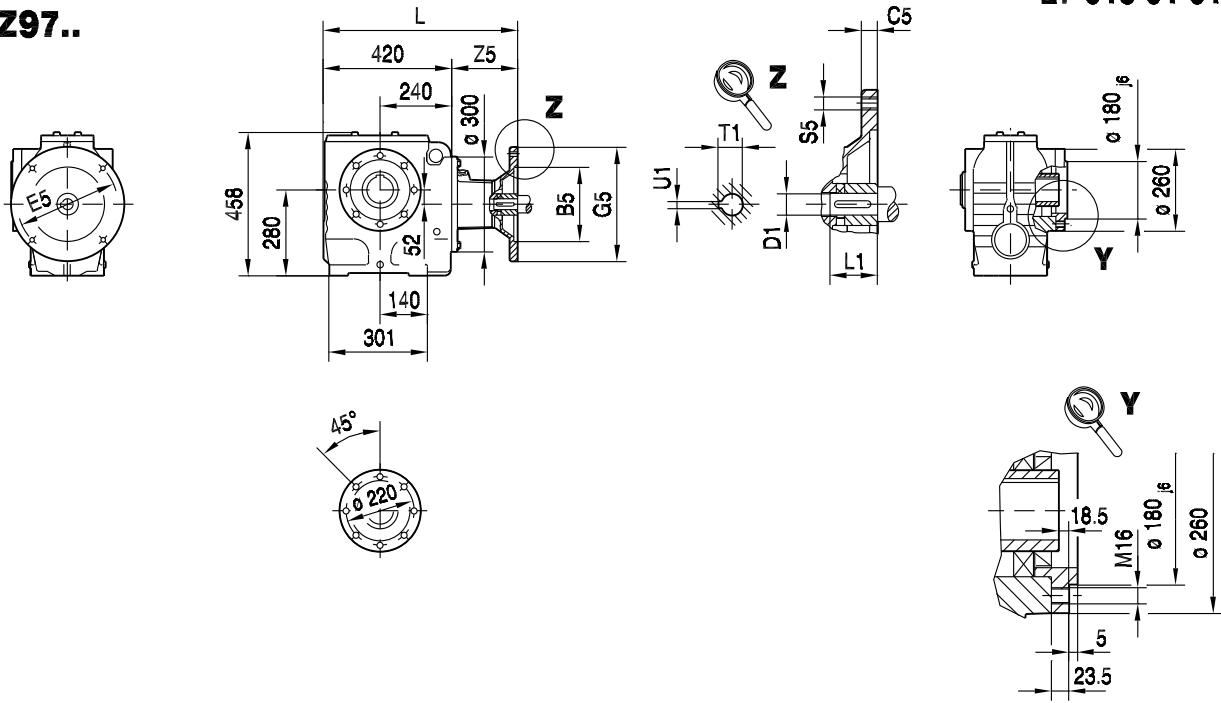


(→ 130)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AM100	180	15	215	5.0	250	536	M12	116	28	60	31.3	8
AM112	180	15	215	5.0	250	536	M12	116	28	60	31.3	8
AM132S/M	230	16	265	5.0	300	589	M12	169	38	80	41.3	10
AM132ML	230	16	265	5.0	300	589	M12	169	38	80	41.3	10
AM160	250	18	300	6.0	350	647	M16	227	42	110	45.3	12
AM180	250	18	300	6.0	350	647	M16	227	48	110	51.8	14



**SAZ97..**

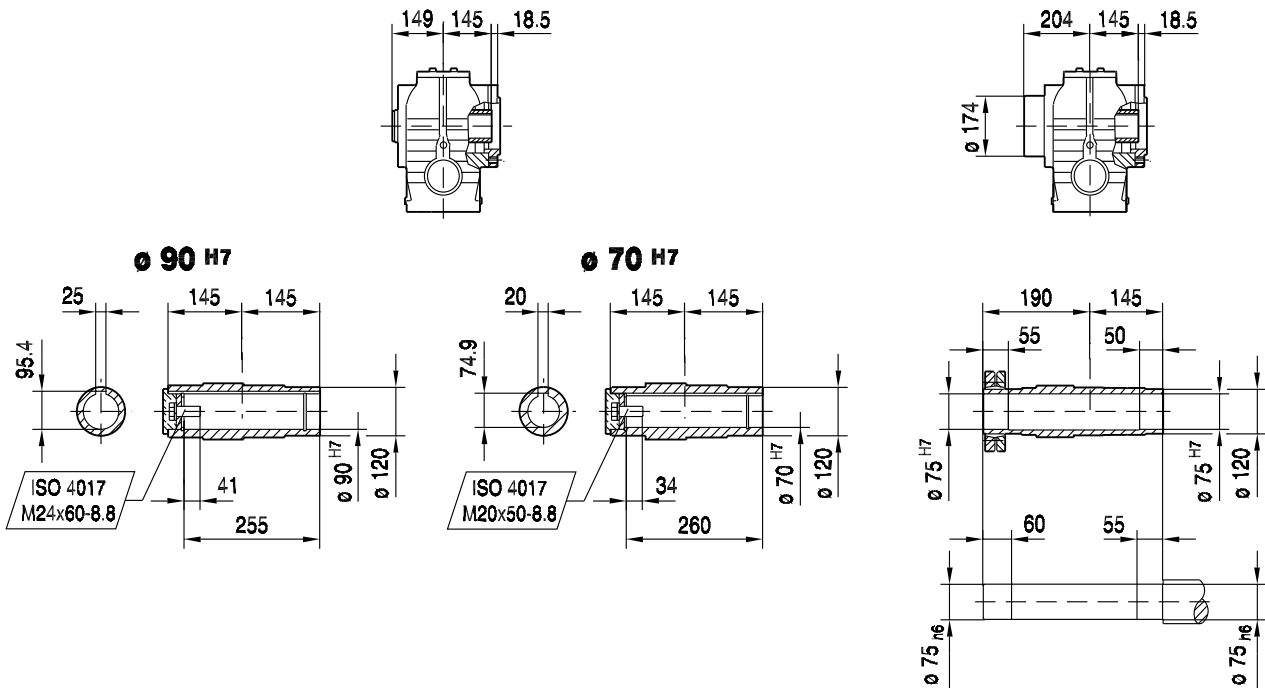
27 013 01 01



**SAZ97..**

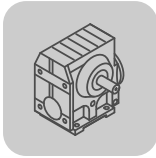
**SHZ97..**

11



(→ 130)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1
AM100	180	15	215	5.0	250	536	M12	116	28	60	31.3	8
AM112	180	15	215	5.0	250	536	M12	116	28	60	31.3	8
AM132S/M	230	16	265	5.0	300	589	M12	169	38	80	41.3	10
AM132ML	230	16	265	5.0	300	589	M12	169	38	80	41.3	10
AM160	250	18	300	6.0	350	647	M16	227	42	110	45.3	12
AM180	250	18	300	6.0	350	647	M16	227	48	110	51.8	14

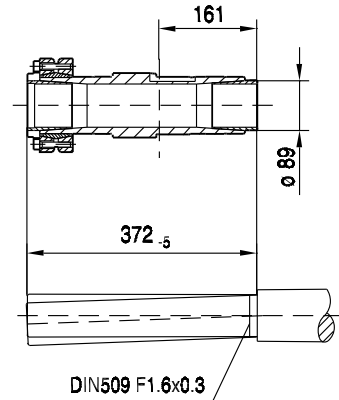
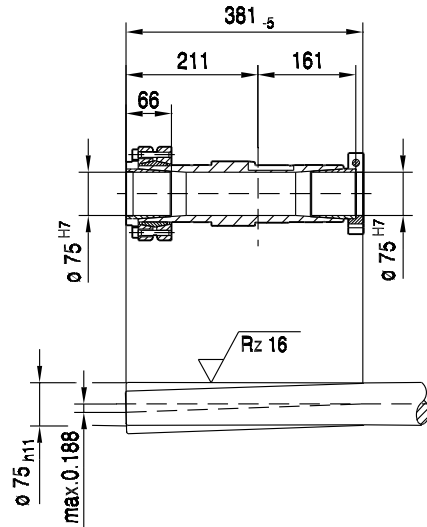
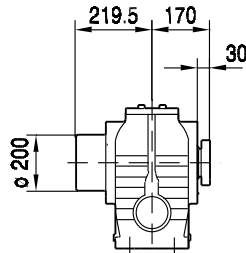
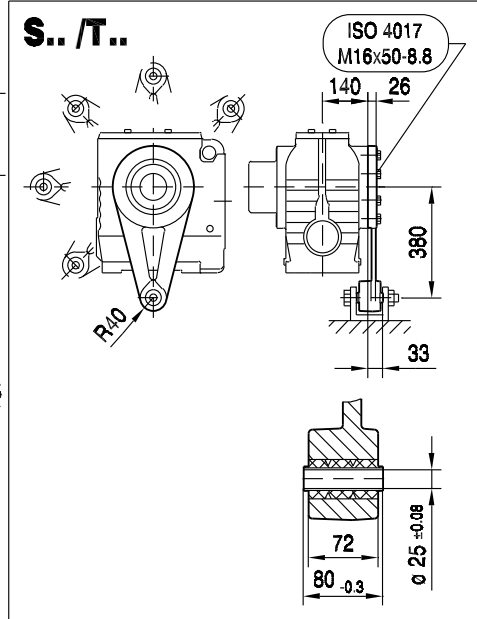
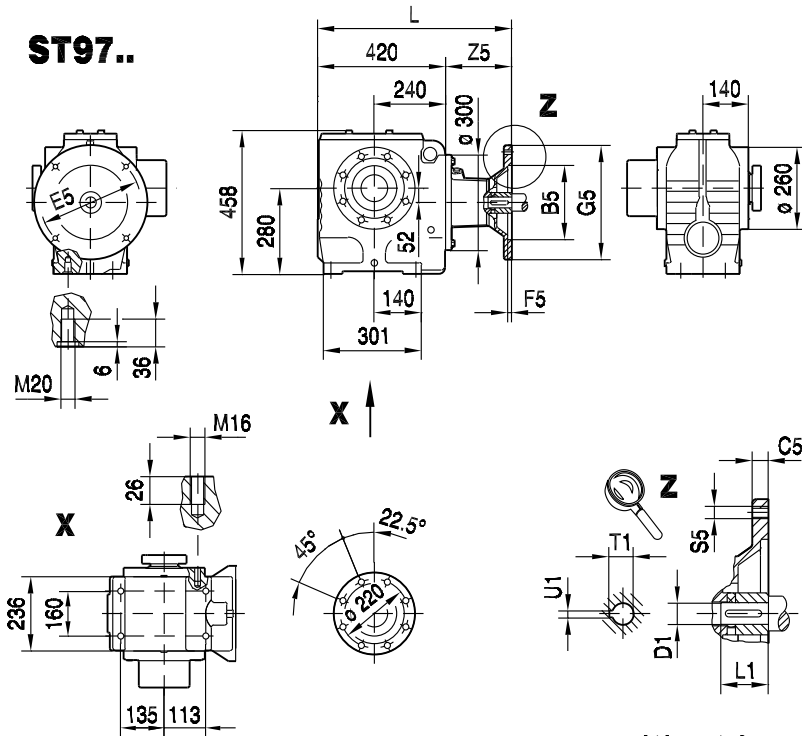




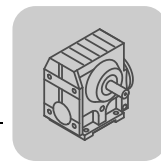
S..  
S.. AM.. (IEC) [mm]

27 008 00 04

ST97..

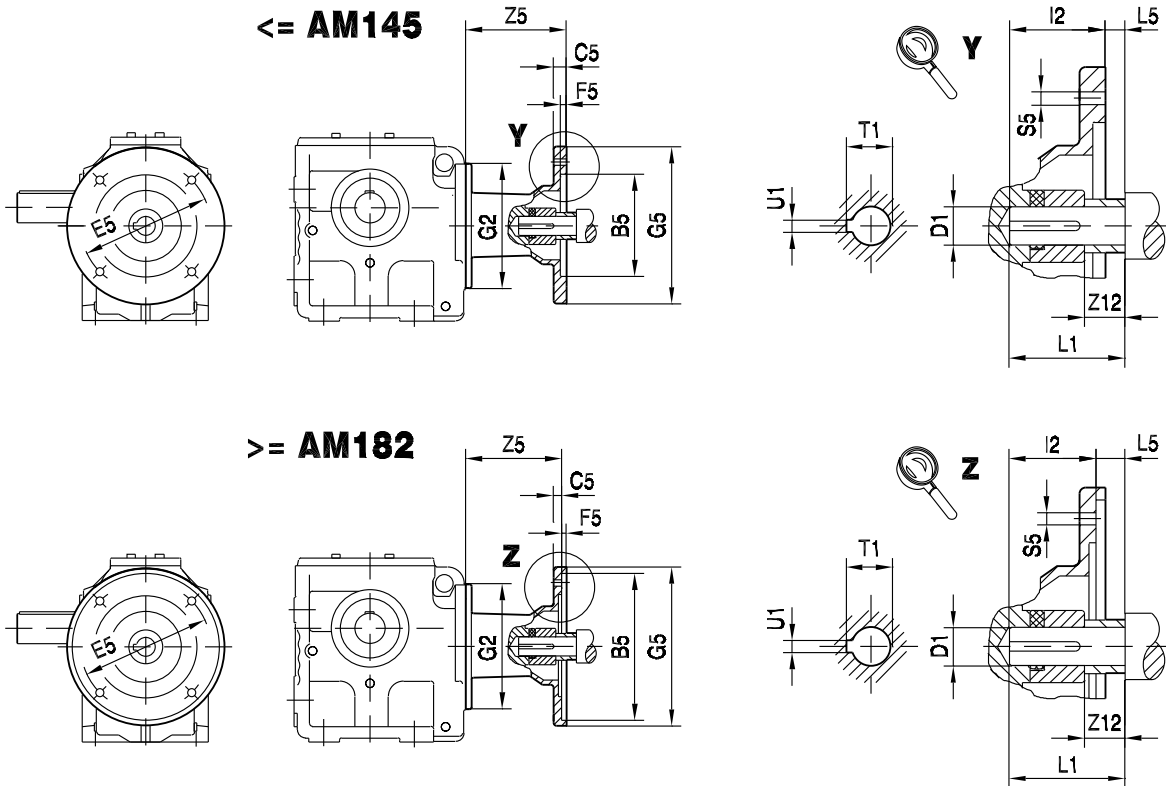


(→ 130)	B5	C5	E5	F5	G5	L	S5	Z5	D1	L1	T1	U1	
AM100	180	15	215	5.0	250	536	M12	116	28	60	31.3	8	
AM112	180	15	215	5.0	250	536	M12	116	28	60	31.3	8	
AM132S/M	230	16	265	5.0	300	589	M12	169	38	80	41.3	10	
AM132ML	230	16	265	5.0	300	589	M12	169	38	80	41.3	10	
AM160	250	18	300	6.0	350	647	M16	227	42	110	45.3	12	
AM180	250	18	300	6.0	350	647	M16	227	48	110	51.8	14	



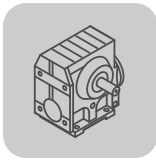
11.5 S.. AM.. (NEMA) [mm]

02 024 02 01



11

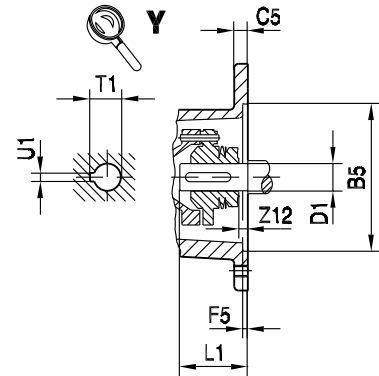
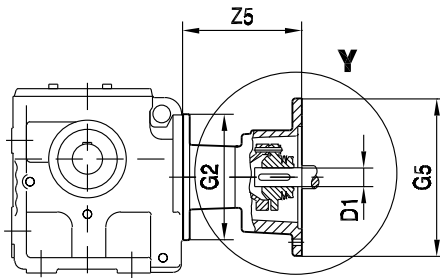
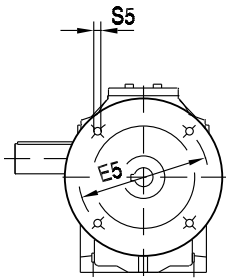
		B5	C5	E5	F5	G2	G5	I2	L5	S5	Z5	Z12	D1	L1	T1	U1	
S..37 S..47 S..57	AM56	114.3	11	149.2	4.5	120	170	52.55	-4.8	10.5	93.5	16.5	15.875	47.75	18.1	4.76	
	AM143		12					54.1	3.05		117	14.5	22.225	57.15	24.7		
	AM145		12					54.1	3.05		117	14.5	22.225	57.15	24.7		
S..67	AM56	114.3	11	149.2	4.5	160	170	52.55	-4.8	10.5	87	16.5	15.875	47.75	18.1	4.76	
	AM143		12					54.1	3.05		110.5	14.5	22.225	57.15	24.7		
	AM145		12					54.1	3.05		110.5	14.5	22.225	57.15	24.7		
	AM182	215.9	10	184	5	228	228	66.85	3	15	147.5	16.5	28.575	69.85	31.7	6.35	
	AM184		11					79.55	6.3		200.5	15.8	34.925	85.85	38.7	7.94	
AM213/215	11	79.55	6.3	200.5	15.8	34.925	85.85	38.7	7.94								
S..77	AM56	114.3	11	149.2	4.5	200	170	52.55	-4.8	10.5	81	16.5	15.875	47.75	18.1	4.76	
	AM143		12					54.1	3.05		103.5	14.5	22.225	57.15	24.7		
	AM145		12					54.1	3.05		103.5	14.5	22.225	57.15	24.7		
	AM182	215.9	10	184	5	228	228	66.85	3	15	139.5	16.5	28.575	69.85	31.7	6.35	
	AM184		11					79.55	6.3		188.5	15.8	34.925	85.85	38.7	7.94	
AM213/215	11	79.55	6.3	188.5	15.8	34.925	85.85	38.7	7.94								
S..87	AM143	114.3	12	149.2	4.5	250	170	54.1	3.05	10.5	98.5	14.5	22.225	57.15	24.7	4.76	
	AM145		12					54.1	3.05		98.5	14.5	22.225	57.15	24.7		
	AM182	215.9	10	184	5		228	228	66.85	3	15	134.5	16.5	28.575	69.85	31.7	6.35
	AM184		11						79.55	6.3		183.5	15.8	34.925	85.85	38.7	7.94
	AM213/215		12						95.3	6.3		234	9	41.275	101.6	45.8	9.53
	AM254/256		12						95.3	6.3		234	9	41.275	101.6	45.8	9.53
AM284/286	266.7	15	228.6	5	286	111.05	6.3	15	241	15.8	47.625	117.35	53.4	12.7			
S..97	AM182	215.9	10	184	5	300	228	66.85	3	15	129.5	16.5	28.575	69.85	31.7	6.35	
	AM184		11					79.55	6.3		178.5	15.8	34.925	85.85	38.7	7.94	
	AM213/215		12					95.3	6.3		229	9	41.275	101.6	45.8	9.53	
	AM254/256	12	95.3	6.3	229		9	41.275	101.6	45.8	9.53						
	AM284/286	266.7	20	228.6	5		286	111.05	6.3	15	236	15.8	47.625	117.35	53.4	12.7	
	AM324/326	317.5	17	279.4	5		356	127.05	6.3	17.5	296	34.8	53.975	133.35	60	12.7	
AM364/365	143.05					60.325		149.35					67.6	15.875			



S..  
S.. AR.. [mm]

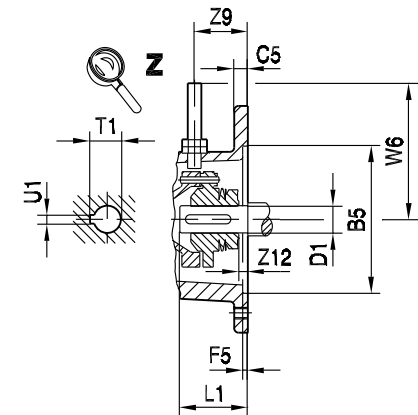
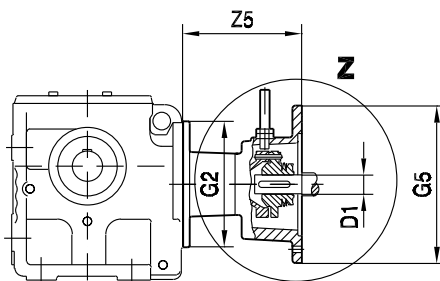
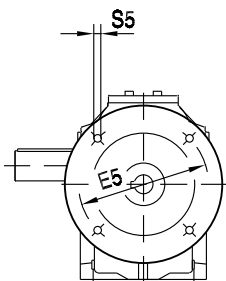
11.6 S.. AR.. [mm]

S.. AR..

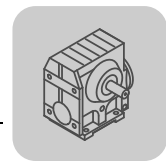


02 028 02 01

S.. AR../W

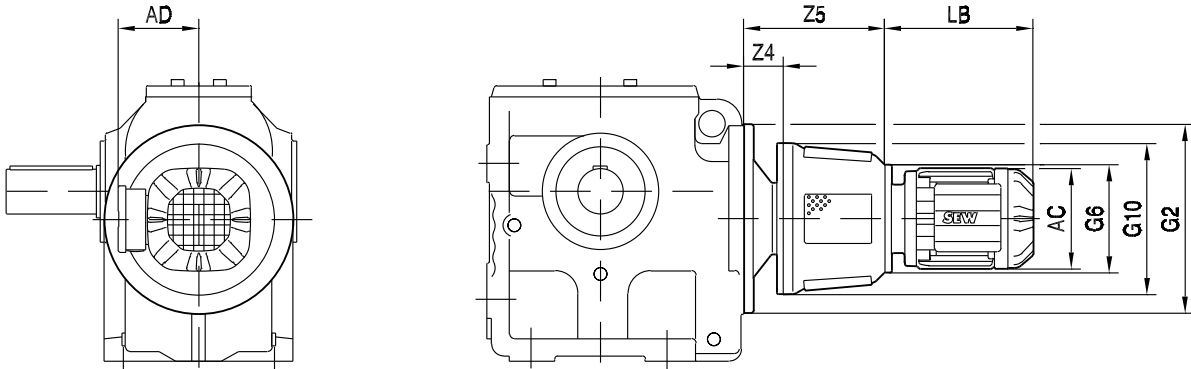


		B5	C5	E5	F5	G2	G5	S5	W6	Z5	Z9	Z12	D1	L1	T1	U1			
S..37 S..47 S..57	AR71	110	10	130	3.5	120	160	M8	120	104	37	0	14	30	16.3	5			
	AR80	130	12	165	4.5		200	M10		140.5			19	40	21.8	6			
	AR90						24	50		27.3			8						
S..67	AR71	110	10	130	3.5	160	160	M8	120	97.5	37	0	14	30	16.3	5			
	AR80	130	12	165	4.5		200	M10		134			19	40	21.8	6			
	AR90						24	50		27.3			8						
	AR100	180	15	215	5		250	M12		130			174.5	52	5.5	28	60	31.3	8
	AR112	230	16	265	5		300	M12		145			234	72	5	38	80	41.3	10
AR132S/M AR132ML																			
S..77	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		130			166.5	52	5.5	28	60	31.3	8
	AR132S/M AR132ML	230	16	265	5		300	M12		145			229	72	5	38	80	41.3	10
	AR160 AR180																		
S..87	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	130	161.5	52	5.5	28	60	31.3	8			
	AR132S/M AR132ML	230	16	265	5		300	M12	145	229	72	5	38	80	41.3	10			
	AR160 AR180																		
	S..97	AR100	180	15	215		5	300	250	M12	130	156.5	52	5.5	28	60	31.3	8	
		AR132S/M AR132ML	230	16	265		5		300	M12	145	224	72	5	38	80	41.3	10	
AR160 AR180																			
AR100 AR180		250	18	300	6	350	M16		165	301.5	105	35	42	110	45.3	12			
													48	110	51.8	14			



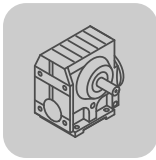
11.7 S.. AT.. [mm]

26 001 02 01



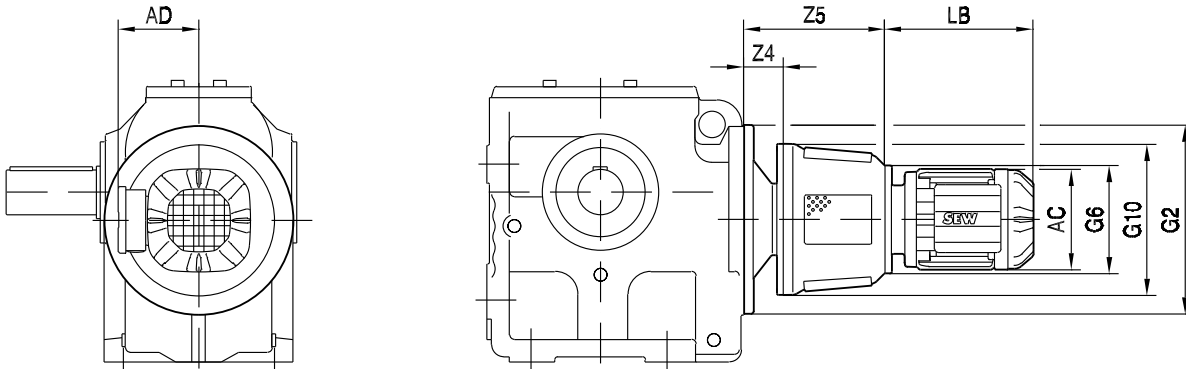
			AC	AD	G6	G10	LB	Z4	Z5	G2							
S..67	AT311 AT312	DR.71S	139	119	200	280	198	97	286	160							
		DR.71M					223										
		DR.80S	156	128			241										
		DR.80M					272										
		DR.90M	179	140			266										
		DR.90L					286										
		DR.100M	197	157			316										
	DR.100L/LC	346															
	AT321 AT322	DR.90M	179	140	250	350	266	97	333								
		DR.90L					286										
		DR.100M	197	157			316										
		DR.100L/LC					346										
		S..77	AT311 AT312	DR.71S			139				119	200	280	198	89	278	200
				DR.71M										223			
DR.80S				156			128			241							
DR.80M	272																
DR.90M	179			140	266												
DR.90L					286												
DR.100M	197			157	316												
DR.100L/LC			346														
AT421 AT422	DR.90M		179	140	250	350	266	133	368								
	DR.90L						286										
	DR.100M		197	157			316										
	DR.100L/LC						346										
	DR.112M		221	170			352										
	DR.132S						387										
	DR.132M/MC	437															

11



S..  
S.. AT.. [mm]

26 002 02 01

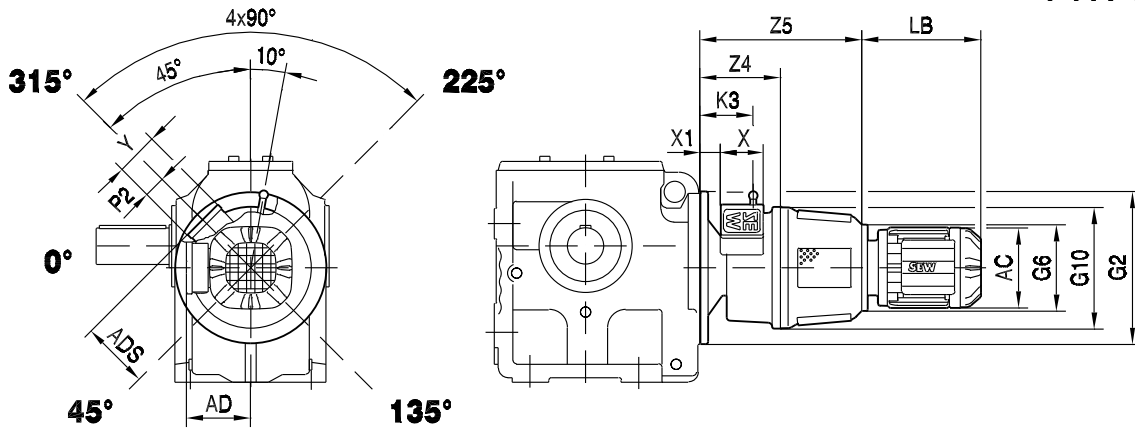


			AC	AD	G6	G10	LB	Z4	Z5	G2
S..87	AT311 AT312	DR.80M	156	128	200	280	272	84	273	250
		DR.90M	179	140			266			
		DR.90L					286			
		DR.100M					316			
		DR.100L/LC	197	157			346			
	AT421 AT422	DR.90M	179	140	250	350	266	128	363	
		DR.90L	197	157			286			
		DR.100M					316			
		DR.100L/LC					346			
		DR.112M	221	170			352			
	DR.132S	221	170	387						
	DR.132M/MC			437						
	AT522 AT541 AT542	DR.132S	221	170	350	470	363	159	478	
		DR.132M/MC					413			
		DR.160S/M/MC	270	228			460			
DR.180S/M		316	253	523						
DR.180L				583						
S..97	AT311 AT312	DR.80M	156	128	200	280	272	79	268	300
		DR.90M	179	140			266			
		DR.90L					286			
		DR.100M					316			
		DR.100L/LC	197	157			346			
	AT421 AT422	DR.90M	179	140	250	350	266	123	358	
		DR.90L	197	157			286			
		DR.100M					316			
		DR.100L/LC					346			
		DR.112M	221	170			352			
	DR.132S	221	170	387						
	DR.132M/MC			437						
	AT522 AT541 AT542	DR.132S	221	170	350	470	363	154	473	
		DR.132M/MC					413			
		DR.160S/M/MC	270	228			460			
DR.180S/M		316	253	523						
DR.180L				583						



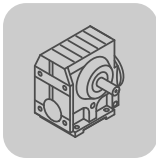
11.8 S.. AT../BM(G) [mm]

26 003 02 01



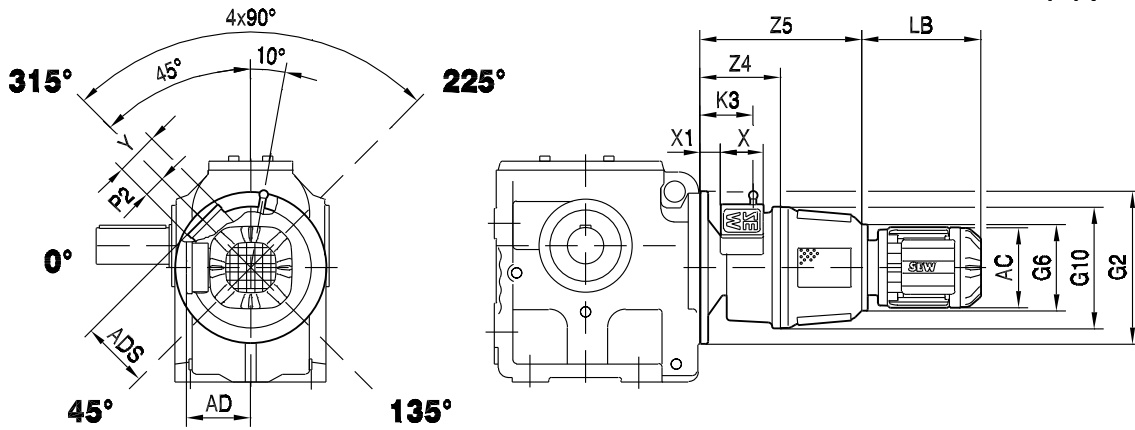
			AC	AD	ADS	G6	G10	LB	K3	P2	X	X1	Y	Z4	Z5	G2							
S..67	AT311/BMG AT312/BMG	DR.71S	139	119	184	200	282	198	153	84	97	89	127	223	411	160							
		DR.71M						223															
		DR.80S	156	128				241															
		DR.80M						272															
		DR.90M	179	140				266															
		DR.90L						286															
	DR.100M	197	157	316																			
	DR.100L/LC			346																			
	AT321/BMG AT322/BMG	DR.90M	179	140	215	250	352	266							183		84	97	119	127	252	458	200
		DR.90L						286															
		DR.100M	197	157				316															
		DR.100L/LC						346															
S..77	AT311/BMG AT312/BMG	DR.71S	139	119	184	200	282	198	145	84	97	81	127	215	403								
		DR.71M						223															
		DR.80S	156	128				241															
		DR.80M						272															
		DR.90M	179	140				266															
		DR.90L						286															
	DR.100M	197	157	316																			
	DR.100L/LC			346																			
	AT421/BMG AT422/BMG	DR.90M	179	140	215	250	352	266						183		84	97	119	127	252	488		
		DR.90L						286															
		DR.100M	197	157				316															
		DR.100L/LC						346															
DR.112M		221	170	352																			
DR.132S				387																			
DR.132M/MC			437																				

11

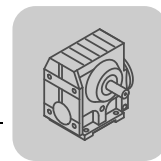


S..  
S.. AT../BM(G) [mm]

26 004 02 01



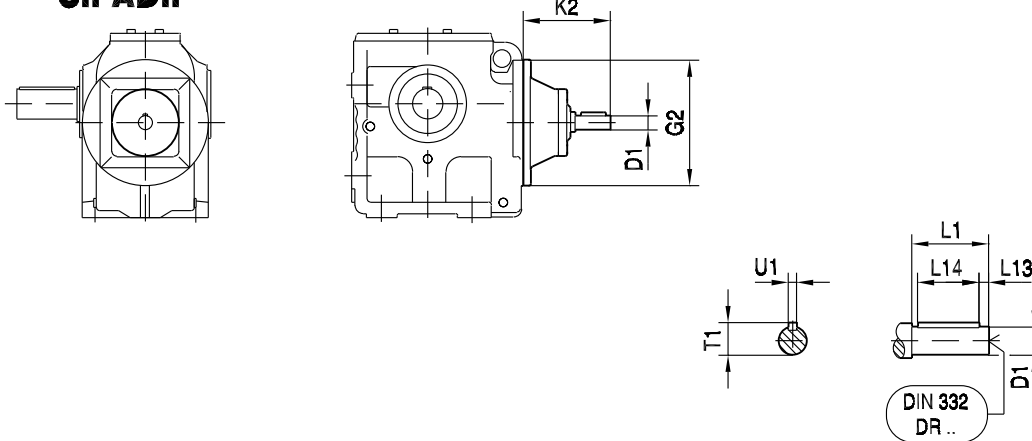
			AC	AD	ADS	G6	G10	LB	K3	P2	X	X1	Y	Z4	Z5	G2
S..87	AT311/BMG AT312/BMG	DR.80M	156	128	184	200	282	272	140	84	97	76	127	210	398	250
		DR.90M	179	140				266								
		DR.90L	197	157				286								
		DR.100M						316								
		DR.100L/LC						346								
	AT421/BMG AT422/BMG	DR.90M	179	140	215	250	352	266	178	84	97	114	127	247	483	
		DR.90L	197	157				286								
		DR.100M						316								
		DR.100L/LC						346								
		DR.112M						352								
	AT522/BM AT541/BM AT542/BM	DR.132S	221	170	275	350	472	387	244	84	97	148	127	331	650	
		DR.132M/MC						437								
DR.132S		221	170	363												
DR.132M/MC		270	228	413												
S..97	AT311/BMG AT312/BMG	DR.80M	156	128	184	200	282	272	135	84	97	71	127	205	393	
		DR.90M	179	140				266								
		DR.90L	197	157				286								
		DR.100M						316								
	AT421/BMG AT422/BMG	DR.100L/LC			215	250	352	346	173	84	97	109	127	242	478	
		DR.90M	179	140				266								
		DR.90L	197	157				286								
		DR.100M						316								
		DR.100L/LC						346								
	AT522/BM AT541/BM AT542/BM	DR.112M			275	350	472	352	239	84	97	143	127	326	645	
		DR.132S	221	170				387								
		DR.132M/MC						437								
DR.132S		221	170	363												
AT522/BM AT541/BM AT542/BM	DR.132M/MC	270	228	275	350	472	413	239	84	97	143	127	326	645		
	DR.160S/M/MC	316	253				460									
	DR.180S/M						523									
	DR.180L						583									



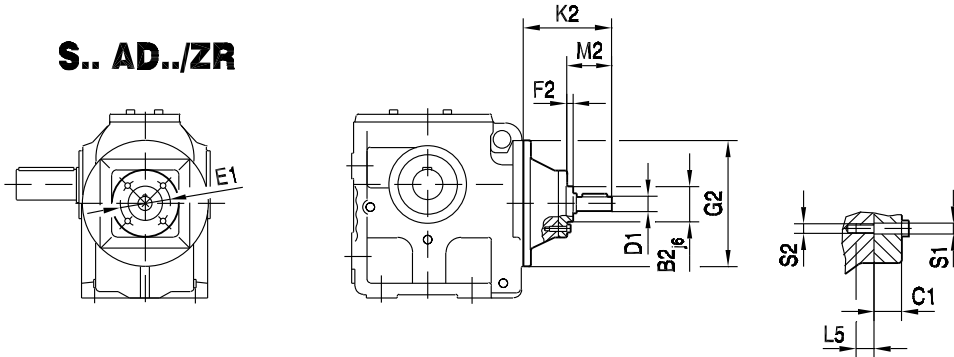
11.9 S.. AD.. [mm]

S.. AD..

02 029 02 01



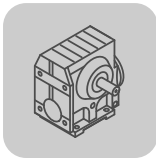
S.. AD../ZR



11

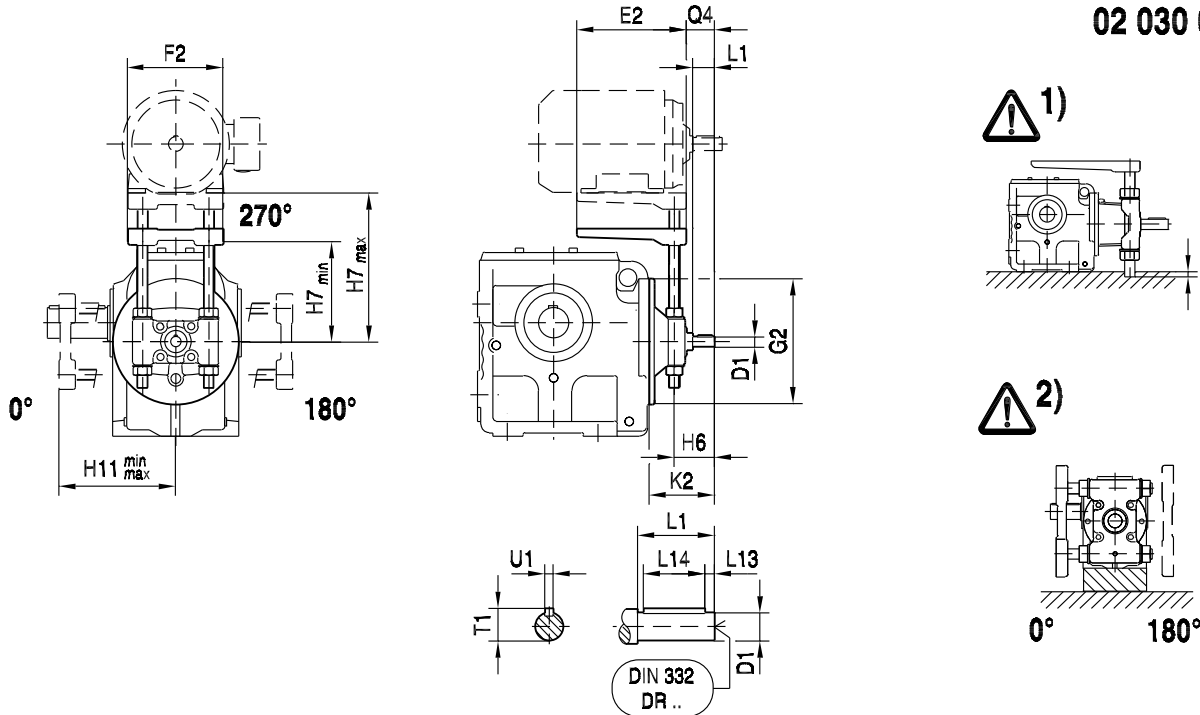
		B2	C1	E1	F2	G2	K2	L5	M2	S1	S2	D1	L1	L13	L14	T1	U1
S..37 S..47 S..57	AD1	-	-	-	-	120	102	-	-	-	-	16	40	4	32	18	5
	AD2, AD2/ZR	55	13.5	80	8		130	12	50	9	M8	19	40	4	32	21.5	6
S..67	AD2, AD2/ZR	55	13.5	80	8	160	123	12	50	9	M8	19	40	4	32	21.5	6
	AD3, AD3/ZR	70	15.5	105	8		159	16	60	11	M10	24	50	5	40	27	8
S..77	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	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	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 S.. AD../P [mm]

02 030 02 01



		E2	F2	G2	H6	H7 min	H7 max	H11 min	H11 max	K2	Q4	D1	L1	L13	L14	T1	U1	⚠ →129
S..37	AD2/P	195	180	120	65	110	165	95	165	130	43	19	40	4	32	21.5	6	1), 2)
S..47	AD2/P	195	180	120	65	140	200	110	165	130	43	19	40	4	32	21.5	6	1)
S..67	AD2/P	195	180	160	65	140	200	125	165	123	43	19	40	4	32	21.5	6	1)
	AD3/P	230	240		80	145	175	130	175	159	54	24	50	5	40	27	8	2)
S..77	AD2/P	195	180	200	65	175	260	145	200	116	43	19	40	4	32	21.5	6	
	AD3/P	230	240		80	180	230	150	230	151	54	24	50	5	40	27	8	
	AD4/P	345	291		118	190	280	150	210	224	83	38	80	5	70	41	10	1)
S..87	AD2/P	195	180	250	65	215	260	165	200	111	43	19	40	4	32	21.5	6	
	AD3/P	230	240		90	230	320	170	230	156	64	28	60	5	50	31	8	
	AD4/P	345	291		118	250	360	170	210	219	83	38	80	5	70	41	10	1)
	AD5/P	430	355		153	260	325	185	250	292	113	42	110	10	70	45	12	1), 2)
S..97	AD3/P	230	240	300	90	275	320	190	230	151	64	28	60	5	50	31	8	
	AD4/P	345	291		118	305	360	190	280	214	83	38	80	5	70	41	10	
	AD5/P	430	355		153	315	405	200	250	287	113	42	110	10	70	45	12	



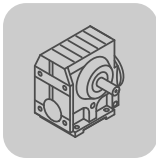
11.11 S, SF, SA, SAF 37

3400 - 2800 1/min

02 955 197

i <sub>ges</sub>	i <sub>sch</sub>	n <sub>e</sub> = 3400 1/min				n <sub>e</sub> = 3200 1/min				n <sub>e</sub> = 2800 1/min			
		n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]
157.43	38/1	22	78	0.31	57	20	80	0.30	57	18	82	0.27	57
144.40		24	76	0.33	58	22	78	0.31	58	19	80	0.28	57
122.94		28	74	0.37	58	26	75	0.35	58	23	78	0.32	58
106.00		32	71	0.41	59	30	72	0.39	59	26	76	0.36	59
98.80		34	70	0.43	59	32	72	0.41	59	28	75	0.38	59
86.36		39	68	0.47	60	37	69	0.45	60	32	72	0.41	60
80.96		42	66	0.49	60	40	68	0.47	60	35	72	0.43	60
71.44		48	55	0.47	58	45	64	0.50	60	39	70	0.47	61
63.33		54	37	0.41	51	51	51	0.47	57	44	67	0.51	61
53.83		63	29	0.39	49	59	32	0.40	50	52	53	0.49	59
55.93	27/2	61	70	0.58	77	57	71	0.56	76	50	72	0.50	76
51.30		66	68	0.61	77	62	70	0.60	77	55	72	0.54	76
43.68		78	66	0.70	77	73	67	0.67	77	64	70	0.61	77
37.66		90	64	0.78	78	85	65	0.74	78	74	68	0.68	78
35.10		97	62	0.81	78	91	64	0.78	78	80	66	0.71	78
30.68		111	61	0.90	78	104	62	0.87	78	91	64	0.78	78
28.76		118	58	0.92	78	111	61	0.91	78	97	64	0.83	78
25.38		134	47	0.86	77	126	53	0.90	78	110	62	0.91	79
22.50		151	31	0.69	71	142	43	0.84	76	124	57	0.94	79
19.13		178	24	0.65	69	167	27	0.67	70	146	44	0.87	77
19.89	24/5	171	42	0.88	86	161	43	0.85	86	141	44	0.76	86
18.24		186	41	0.93	86	175	42	0.90	86	154	44	0.83	86
15.53		219	39	1.0	86	206	40	1.0	86	180	42	0.92	86
13.39		254	37	1.1	86	239	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		312	35	1.3 *	86	293	36	1.3 *	86	257	39	1.2 *	87
10.23		332	35	1.4 *	87	313	36	1.4 *	87	274	38	1.3 *	87
9.02		377	31	1.4 *	86	355	34	1.5 *	87	310	36	1.3 *	87
8.00		425	20	1.1	82	400	29	1.4 *	86	350	35	1.5 *	87
6.80		500	16	1.0	81	471	18	1.1	82	412	29	1.4 *	86
6.33	537	24	1.6 *	87	506	27	1.6 *	88	442	32	1.7 *	88	
5.38	632	20	1.5 *	87	595	22	1.6 *	87	520	26	1.6 *	88	
4.86	700	18	1.5 *	87	658	19	1.5 *	87	576	24	1.7 *	88	
3.97	856	14	1.5 *	86	806	15	1.5 *	87	705	19	1.6 *	88	

\* P<sub>emax</sub> = 1.1 kW

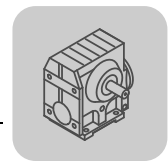


2200 - 1400 1/min

02 955 197

$i_{ges}$	$i_{sch}$	$n_e = 2200 \text{ 1/min}$				$n_e = 1700 \text{ 1/min}$				$n_e = 1400 \text{ 1/min}$			
		$n_a$ [1/min]	$M_{amax}$ [Nm]	$P_e$ [kW]	$\eta$ [%]	$n_a$ [1/min]	$M_{amax}$ [Nm]	$P_e$ [kW]	$\eta$ [%]	$n_a$ [1/min]	$M_{amax}$ [Nm]	$P_e$ [kW]	$\eta$ [%]
157.43	38/1	14	87	0.23	56	11	91	0.19	54	8.9	92	0.16	53
144.40		15	86	0.24	56	12	90	0.20	55	9.7	92	0.17	54
122.94		18	83	0.27	57	14	87	0.22	56	11	91	0.20	55
106.00		21	81	0.30	58	16	86	0.25	57	13	88	0.22	56
98.80		22	80	0.32	58	17	85	0.27	57	14	87	0.23	56
86.36		25	78	0.35	59	20	82	0.29	58	16	86	0.25	57
80.96		27	77	0.37	60	21	82	0.31	59	17	85	0.27	58
71.44		31	75	0.40	60	24	80	0.33	60	20	84	0.29	59
63.33		35	73	0.44	61	27	79	0.37	60	22	82	0.32	60
53.83		41	69	0.48	62	32	76	0.41	61	26	80	0.36	61
55.93	27/2	39	77	0.42	75	30	81	0.35	74	25	81	0.29	73
51.30		43	76	0.45	76	33	80	0.37	75	27	81	0.31	74
43.68		50	74	0.51	76	39	78	0.42	76	32	81	0.36	75
37.66		58	72	0.57	77	45	76	0.47	76	37	79	0.41	76
35.10		63	71	0.60	77	48	75	0.50	77	40	78	0.43	76
30.68		72	70	0.67	78	55	73	0.55	77	46	76	0.47	76
28.76		76	68	0.70	78	59	73	0.58	77	49	75	0.50	77
25.38		87	67	0.77	79	67	71	0.64	78	55	74	0.55	77
22.50		98	66	0.85	79	76	70	0.70	79	62	73	0.61	78
19.13		115	63	0.95	80	89	68	0.80	79	73	71	0.69	79
19.89	24/5	111	48	0.65	85	85	50	0.53	85	70	52	0.46	84
18.24		121	47	0.70	85	93	49	0.56	85	77	52	0.50	84
15.53		142	45	0.78	86	109	48	0.64	85	90	50	0.56	85
13.39		164	44	0.88	86	127	47	0.73	86	105	49	0.63	85
12.48		176	43	0.92	86	136	46	0.76	86	112	48	0.66	86
10.91		202	42	1.0	87	156	45	0.85	86	128	48	0.75	86
10.23		215	41	1.1	87	166	45	0.90	87	137	47	0.78	86
9.02		244	40	1.2 *	87	188	43	0.98	87	155	46	0.86	87
8.00		275	39	1.3 *	87	213	43	1.1	87	175	45	0.95	87
6.80		324	37	1.4 *	88	250	41	1.2 *	88	206	43	1.1	87
6.33	348	35	1.5 *	88	269	35	1.1 *	88	221	35	0.9	87	
5.38	409	34	1.7 *	88	316	34	1.3 *	88	260	34	1.1	88	
4.86	453	32	1.7 *	89	350	33	1.3 *	88	288	33	1.1	88	
3.97	554	26	1.7 *	88	428	32	1.6 *	89	353	32	1.3 *	88	

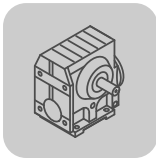
\*  $P_{emax} = 1.1 \text{ kW}$



1100 - 700 1/min

02 956 197

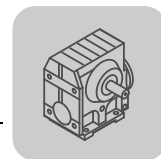
i <sub>ges</sub>	i <sub>sch</sub>	n <sub>e</sub> = 1100 1/min				n <sub>e</sub> = 900 1/min				n <sub>e</sub> = 700 1/min			
		n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]
157.43	38/1	7.0	92	0.13	52	5.7	92	0.11	50	4.4	92	0.09	49
144.40		7.6	92	0.14	52	6.2	92	0.12	51	4.8	92	0.09	50
122.94		8.9	92	0.16	54	7.3	92	0.14	52	5.7	92	0.11	51
106.00		10	92	0.18	55	8.5	92	0.15	53	6.6	92	0.12	52
98.80		11	92	0.19	55	9.1	92	0.16	54	7.1	92	0.13	52
86.36		13	90	0.21	56	10	92	0.18	55	8.1	92	0.15	53
80.96		14	89	0.22	57	11	92	0.19	55	8.6	92	0.16	54
71.44		15	87	0.24	57	13	91	0.21	56	9.8	92	0.17	55
63.33		17	86	0.27	58	14	89	0.23	57	11	92	0.19	56
53.83		20	84	0.30	60	17	87	0.26	58	13	91	0.22	57
55.93	27/2	20	87	0.25	72	16	91	0.21	71	13	92	0.17	70
51.30		21	87	0.27	73	18	90	0.23	72	14	92	0.19	71
43.68		25	84	0.30	74	21	87	0.26	73	16	92	0.22	71
37.66		29	82	0.34	75	24	86	0.29	74	19	89	0.24	72
35.10		31	82	0.36	75	26	84	0.31	74	20	88	0.25	73
30.68		36	80	0.40	76	29	82	0.34	75	23	87	0.28	74
28.76		38	79	0.42	76	31	82	0.36	75	24	86	0.30	74
25.38		43	78	0.46	77	35	81	0.40	76	28	84	0.33	75
22.50		49	77	0.51	77	40	79	0.43	76	31	82	0.36	75
19.13		58	75	0.58	78	47	78	0.50	77	37	81	0.41	76
19.89	24/5	55	55	0.38	83	45	58	0.33	83	35	60	0.27	82
18.24		60	54	0.41	84	49	56	0.35	83	38	60	0.29	82
15.53		71	53	0.47	84	58	55	0.40	84	45	58	0.33	83
13.39		82	52	0.53	85	67	54	0.45	84	52	56	0.37	83
12.48		88	51	0.55	85	72	53	0.47	84	56	55	0.39	84
10.91		101	50	0.62	86	82	52	0.53	85	64	54	0.43	84
10.23		108	49	0.64	86	88	51	0.55	85	68	54	0.46	84
9.02		122	48	0.71	86	100	50	0.61	86	78	53	0.51	85
8.00		138	47	0.78	87	113	49	0.67	86	88	52	0.56	85
6.80		162	46	0.90	87	132	48	0.77	87	103	51	0.64	86
6.33	174	45	0.94	87	142	45	0.77	87	111	45	0.61	86	
5.38	204	43	1.05	88	167	43	0.86	87	130	43	0.68	87	
4.86	226	42	1.13	88	185	42	0.93	88	144	42	0.73	87	
3.97	277	40	1.31	88	227	40	1.08	88	176	40	0.84	88	



500 - 10 1/min

02 956 197

$i_{ges}$	$i_{sch}$	$n_e = 500 \text{ 1/min}$				$n_e = 250 \text{ 1/min}$				$n_e = 10 \text{ 1/min}$			
		$n_a$ [1/min]	$M_{amax}$ [Nm]	$P_e$ [kW]	$\eta$ [%]	$n_a$ [1/min]	$M_{amax}$ [Nm]	$P_e$ [kW]	$\eta$ [%]	$n_a$ [1/min]	$M_{amax}$ [Nm]	$P_e$ [kW]	$\eta$ [%]
157.43	38/1	3.2	92	0.06	47	1.6	92	0.033	46	0.06	92	< 0.05	26
144.40		3.5	92	0.07	48	1.7	92	0.036	46	0.07	92	< 0.05	27
122.94		4.1	92	0.08	49	2.0	92	0.042	46	0.08	92	< 0.05	29
106.00		4.7	92	0.09	50	2.4	92	0.049	47	0.09	92	< 0.05	30
98.80		5.1	92	0.10	50	2.5	92	0.05	47	0.10	92	< 0.05	31
86.36		5.8	92	0.11	51	2.9	92	0.06	47	0.12	92	< 0.05	32
80.96		6.2	92	0.12	51	3.1	92	0.06	47	0.12	92	< 0.05	33
71.44		7.0	92	0.13	52	3.5	92	0.07	48	0.14	92	< 0.05	35
63.33		7.9	92	0.14	53	3.9	92	0.08	49	0.16	92	< 0.05	37
53.83		9.3	92	0.16	55	4.6	92	0.09	50	0.19	92	< 0.05	39
55.93	27/2	8.9	92	0.13	69	4.5	92	0.06	67	0.18	92	< 0.05	48
51.30		9.7	92	0.14	69	4.9	92	0.07	67	0.19	92	< 0.05	49
43.68		11	92	0.16	70	5.7	92	0.08	67	0.23	92	< 0.05	51
37.66		13	92	0.18	71	6.6	92	0.10	67	0.27	92	< 0.05	53
35.10		14	92	0.19	71	7.1	92	0.10	68	0.28	92	< 0.05	54
30.68		16	92	0.22	72	8.1	92	0.11	68	0.33	92	< 0.05	56
28.76		17	91	0.23	72	8.7	92	0.12	69	0.35	92	< 0.05	57
25.38		20	89	0.25	73	9.9	92	0.14	69	0.39	92	< 0.05	59
22.50		22	87	0.28	74	11	92	0.15	70	0.44	92	< 0.05	61
19.13		26	85	0.31	75	13	92	0.18	71	0.52	92	< 0.05	62
19.89	24/5	25	68	0.22	81	13	72	0.12	79	0.50	72	< 0.05	65
18.24		27	66	0.23	81	14	72	0.13	79	0.55	72	< 0.05	66
15.53		32	63	0.26	82	16	72	0.15	79	0.64	72	< 0.05	68
13.39		37	61	0.29	82	19	72	0.18	80	0.75	72	< 0.05	71
12.48		40	59	0.30	82	20	72	0.19	80	0.80	72	< 0.05	72
10.91		46	58	0.34	83	23	71	0.21	81	0.92	71	< 0.05	73
10.23		49	57	0.35	83	24	70	0.22	81	0.98	70	< 0.05	73
9.02		55	56	0.39	84	28	66	0.24	81	1.1	66	< 0.05	74
8.00		63	55	0.43	84	31	63	0.25	82	1.2	63	< 0.05	74
6.80		74	54	0.49	85	37	61	0.29	82	1.5	61	< 0.05	75
6.33	79	45	0.44	85	39	45	0.23	83	1.6	45	< 0.05	80	
5.38	93	43	0.49	86	46	43	0.25	83	1.9	43	< 0.05	80	
4.86	103	42	0.53	86	51	42	0.27	84	2.1	42	< 0.05	80	
3.97	126	40	0.61	87	63	40	0.31	84	2.5	40	< 0.05	80	



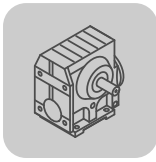
11.12 S, SF, SA, SAF 47

3400 - 2800 1/min

02 957 197

i <sub>ges</sub>	i <sub>sch</sub>	n <sub>e</sub> = 3400 1/min				n <sub>e</sub> = 3200 1/min				n <sub>e</sub> = 2800 1/min			
		n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]
201.00		17	150	0.44	60	16	150	0.42	60	14	150	0.37	59
184.80		18	150	0.48	60	17	150	0.45	60	15	150	0.40	59
158.12		22	150	0.55	61	20	150	0.52	61	18	150	0.46	60
137.05		25	150	0.63	62	23	150	0.59	62	20	150	0.52	61
128.10		27	150	0.67	63	25	150	0.63	62	22	150	0.56	62
110.73	42/1	31	138	0.70	63	29	148	0.71	63	25	150	0.63	63
94.08		36	113	0.69	62	34	123	0.70	63	30	146	0.72	63
84.00		40	95	0.66	61	38	107	0.69	62	33	130	0.71	63
71.75		47	58	0.55	53	45	82	0.64	60	39	107	0.70	63
67.20		51	53	0.54	52	48	68	0.60	57	42	99	0.69	62
56.61		60	40	0.51	49	57	46	0.53	51	49	75	0.65	60
69.39		49	140	0.91	79	46	140	0.86	78	40	140	0.76	78
63.80		53	140	0.99	79	50	140	0.93	79	44	140	0.82	78
54.59		62	140	1.1	80	59	140	1.1	79	51	140	0.95	79
47.32		72	139	1.3	80	68	140	1.2	80	59	140	1.1	80
44.22		77	129	1.3	80	72	139	1.3	80	63	140	1.2	80
38.23	29/2	89	112	1.3	80	84	120	1.3	80	73	139	1.3	80
32.48		105	91	1.3	79	99	100	1.3	80	86	117	1.3	80
29.00		117	76	1.2	78	110	86	1.3	79	97	104	1.3	80
24.77		137	47	0.94	72	129	66	1.2	77	113	87	1.3	80
23.20		147	42	0.90	71	138	54	1.0	75	121	79	1.3	79
19.54		174	32	0.84	69	164	37	0.89	71	143	59	1.1	77
20.33		167	100	2.0 *	88	157	100	1.9 *	88	138	100	1.6 *	88
17.62		193	97	2.2 *	88	182	100	2.2 *	88	159	100	1.9 *	88
16.47		206	90	2.2 *	88	194	97	2.2 *	88	170	100	2.0 *	88
14.24		239	78	2.2 *	88	225	83	2.2 *	88	197	97	2.3 *	88
12.10		281	63	2.1 *	88	264	69	2.2 *	88	231	82	2.2 *	88
10.80		315	53	2.0 *	87	296	60	2.1 *	88	259	72	2.2 *	88
9.23		368	32	1.5	83	347	45	1.9 *	86	303	60	2.2 *	88
8.64	27/5	394	29	1.5	82	370	37	1.7 *	85	324	55	2.1 *	88
7.28		467	22	1.3	81	440	25	1.4	82	385	41	1.9 *	86
6.83		498	34	2.0 *	87	469	37	2.0 *	88	410	45	2.2 *	88
6.40		531	31	2.0 *	87	500	34	2.0 *	87	438	42	2.2 *	88
5.39		631	24	1.8 *	86	594	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
4.00		850	16	1.7 *	85	800	18	1.8 *	85	700	23	1.9 *	87

\* P<sub>emax</sub> = 1.5 kW



2200 - 1400 1/min

02 957 197

i <sub>ges</sub>	i <sub>sch</sub>	n <sub>e</sub> = 2200 1/min				n <sub>e</sub> = 1700 1/min				n <sub>e</sub> = 1400 1/min			
		n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]
201.00	42/1	11	167	0.33	58	8.5	170	0.27	56	7.0	170	0.23	55
184.80		12	167	0.36	58	9.2	168	0.29	57	7.6	170	0.24	56
158.12		14	167	0.41	60	11	168	0.33	58	8.9	170	0.28	57
137.05		16	165	0.46	60	12	167	0.37	59	10	168	0.31	58
128.10		17	165	0.49	61	13	167	0.39	59	11	168	0.33	58
110.73		20	165	0.55	62	15	167	0.44	61	13	168	0.38	59
94.08		23	165	0.64	63	18	167	0.51	62	15	168	0.43	60
84.00		26	162	0.70	64	20	167	0.57	62	17	167	0.48	61
71.75		31	145	0.73	64	24	167	0.65	63	20	167	0.55	62
67.20		33	137	0.73	64	25	164	0.68	64	21	167	0.58	63
56.61	39	115	0.73	64	30	152	0.74	65	25	165	0.67	64	
69.39	29/2	32	155	0.67	77	24	155	0.52	76	20	155	0.44	75
63.80		34	155	0.72	77	27	155	0.57	76	22	155	0.47	75
54.59		40	155	0.84	78	31	155	0.66	77	26	155	0.55	76
47.32		46	155	0.96	79	36	155	0.75	78	30	155	0.63	77
44.22		50	155	1.0	79	38	155	0.80	78	32	155	0.67	77
38.23		58	154	1.2	80	44	155	0.92	79	37	155	0.76	78
32.48		68	146	1.3	80	52	155	1.1	80	43	155	0.89	79
29.00		76	137	1.3	81	59	154	1.2	80	48	155	0.99	79
24.77		89	117	1.3	81	69	145	1.3	81	57	155	1.1	80
23.20		95	111	1.4	81	73	142	1.3	81	60	152	1.2	80
19.54	113	92	1.3	81	87	123	1.4	81	72	144	1.3	81	
20.33	27/5	108	109	1.4	87	84	110	1.1	87	69	110	0.92	86
17.62		125	108	1.6 *	88	96	109	1.3	87	79	110	1.1	86
16.47		134	108	1.7 *	88	103	109	1.4	87	85	110	1.1	87
14.24		154	108	2.0 *	88	119	109	1.6 *	88	98	110	1.3	87
12.10		182	105	2.3 *	89	140	109	1.8 *	88	116	109	1.5	88
10.80		204	95	2.3 *	89	157	108	2.0 *	88	130	109	1.7 *	88
9.23		238	82	2.3 *	89	184	105	2.3 *	89	152	109	2.0 *	88
8.64		255	77	2.3 *	89	197	100	2.3 *	89	162	109	2.1 *	88
7.28		302	64	2.3 *	89	234	86	2.4 *	89	192	103	2.3 *	89
6.83		322	62	2.4 *	89	249	78	2.3 *	89	205	78	1.9 *	89
6.40	344	58	2.4 *	89	266	76	2.4 *	89	219	76	2.0 *	89	
5.39	408	48	2.3 *	89	315	65	2.4 *	89	260	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<sub>emax</sub> = 1.5 kW



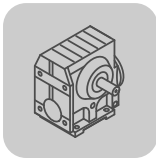
1100 - 700 1/min

02 958 197

i <sub>ges</sub>	i <sub>sch</sub>	n <sub>e</sub> = 1100 1/min				n <sub>e</sub> = 900 1/min				n <sub>e</sub> = 700 1/min			
		n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]
201.00	42/1	5.5	176	0.19	53	4.5	180	0.16	52	3.5	185	0.13	51
184.80		6.0	174	0.20	54	4.9	178	0.17	53	3.8	183	0.14	51
158.12		7.0	172	0.23	55	5.7	176	0.20	54	4.4	180	0.16	52
137.05		8.0	171	0.26	56	6.6	172	0.22	55	5.1	178	0.18	53
128.10		8.6	171	0.27	57	7.0	172	0.23	55	5.5	176	0.19	54
110.73		9.9	169	0.30	58	8.1	171	0.26	56	6.3	174	0.21	55
94.08		12	169	0.35	59	9.6	171	0.30	57	7.4	172	0.24	56
84.00		13	169	0.39	60	11	169	0.32	58	8.3	171	0.26	57
71.75		15	169	0.45	61	13	169	0.37	60	9.8	171	0.30	58
67.20		16	169	0.47	61	13	169	0.40	60	10	171	0.32	58
56.61	19	169	0.55	63	16	169	0.46	61	12	171	0.37	60	
69.39	29/2	16	173	0.39	74	13	176	0.33	73	10	180	0.27	71
63.80		17	173	0.42	74	14	175	0.35	73	11	180	0.29	72
54.59		20	171	0.48	75	16	173	0.40	74	13	176	0.33	73
47.32		23	171	0.55	76	19	173	0.46	75	15	175	0.37	73
44.22		25	171	0.58	76	20	171	0.49	75	16	175	0.39	74
38.23		29	169	0.66	77	24	171	0.56	76	18	173	0.44	75
32.48		34	169	0.77	78	28	171	0.65	77	22	171	0.51	75
29.00		38	170	0.86	78	31	171	0.72	77	24	171	0.57	76
24.77		44	169	0.99	79	36	170	0.83	78	28	171	0.66	77
23.20		47	164	1.0	79	39	170	0.88	79	30	171	0.70	77
19.54	56	154	1.1	80	46	165	1.0	79	36	170	0.81	78	
20.33	54	112	0.75	85	44	114	0.63	84	34	116	0.50	83	
17.62	62	112	0.86	86	51	113	0.71	85	40	115	0.57	84	
16.47	67	112	0.91	86	55	113	0.76	85	43	114	0.60	84	
14.24	77	111	1.0	86	63	112	0.86	86	49	113	0.69	85	
12.10	91	111	1.2	87	74	111	1.0	86	58	113	0.80	85	
10.80	102	111	1.4	87	83	111	1.1	87	65	112	0.88	86	
9.23	27/5	119	110	1.6 *	88	98	111	1.3	87	76	112	1.0	86
8.64		127	109	1.7 *	88	104	111	1.4	87	81	112	1.1	87
7.28		151	109	2.0 *	88	124	111	1.6 *	88	96	111	1.3	87
6.83		161	95	1.8 *	89	132	95	1.5	88	102	95	1.2	88
6.40		172	93	1.9 *	89	141	93	1.6 *	88	109	93	1.2	88
5.39		204	89	2.1 *	89	167	89	1.8 *	89	130	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<sub>emax</sub> = 1.5 kW





500 - 10 1/min

02 958 197

$i_{ges}$	$i_{sch}$	$n_e = 500 \text{ 1/min}$				$n_e = 250 \text{ 1/min}$				$n_e = 10 \text{ 1/min}$			
		$n_a$ [1/min]	$M_{amax}$ [Nm]	$P_e$ [kW]	$\eta$ [%]	$n_a$ [1/min]	$M_{amax}$ [Nm]	$P_e$ [kW]	$\eta$ [%]	$n_a$ [1/min]	$M_{amax}$ [Nm]	$P_e$ [kW]	$\eta$ [%]
201.00	42/1	2.5	185	0.10	49	1.2	185	0.05	48	0.05	185	< 0.05	32
184.80		2.7	185	0.11	49	1.4	185	0.05	48	0.05	185	< 0.05	32
158.12		3.2	185	0.12	50	1.6	185	0.06	48	0.06	185	< 0.05	35
137.05		3.6	185	0.14	51	1.8	185	0.07	48	0.07	185	< 0.05	37
128.10		3.9	183	0.15	51	2.0	185	0.08	48	0.08	185	< 0.05	38
110.73		4.5	181	0.16	52	2.3	185	0.09	49	0.09	185	< 0.05	40
94.08		5.3	178	0.19	54	2.7	185	0.10	49	0.11	185	< 0.05	42
84.00		6.0	176	0.20	54	3.0	185	0.12	50	0.12	185	< 0.05	43
71.75		7.0	174	0.23	56	3.5	185	0.13	51	0.14	185	< 0.05	44
67.20		7.4	172	0.24	56	3.7	185	0.14	51	0.15	185	< 0.05	44
56.61	29/2	8.8	172	0.28	57	4.4	181	0.16	53	0.18	181	< 0.05	45
69.39		7.2	185	0.20	70	3.6	185	0.10	68	0.14	185	< 0.05	56
63.80		7.8	185	0.22	70	3.9	185	0.11	68	0.16	185	< 0.05	57
54.59		9.2	185	0.25	71	4.6	185	0.13	68	0.18	185	< 0.05	60
47.32		11	181	0.28	72	5.3	185	0.15	68	0.21	185	< 0.05	61
44.22		11	180	0.30	72	5.7	185	0.16	69	0.23	185	< 0.05	62
38.23		13	178	0.33	73	6.5	185	0.18	69	0.26	185	< 0.05	63
32.48		15	174	0.38	74	7.7	185	0.21	70	0.31	185	< 0.05	64
29.00		17	174	0.42	74	8.6	185	0.24	71	0.34	185	< 0.05	65
24.77		20	172	0.48	75	10	183	0.27	71	0.40	183	< 0.05	66
23.20	27/5	22	172	0.51	76	11	181	0.28	72	0.43	181	< 0.05	66
19.54		26	172	0.60	77	13	178	0.33	73	0.51	178	< 0.05	67
20.33		25	124	0.39	82	12	157	0.25	80	0.49	157	< 0.05	75
17.62		28	120	0.43	83	14	149	0.28	80	0.57	149	< 0.05	76
16.47		30	118	0.45	83	15	145	0.29	81	0.61	145	< 0.05	76
14.24		35	116	0.51	84	18	138	0.31	81	0.70	138	< 0.05	77
12.10		41	115	0.59	84	21	131	0.35	82	0.83	131	< 0.05	77
10.80		46	114	0.65	85	23	127	0.37	82	0.93	127	< 0.05	77
9.23		54	113	0.75	85	27	121	0.41	83	1.1	121	< 0.05	78
8.64		58	113	0.80	86	29	120	0.44	83	1.2	120	< 0.05	78
7.28	69	112	0.93	86	34	117	0.50	84	1.4	117	< 0.05	78	
6.83	73	95	0.84	87	37	95	0.43	84	1.5	95	< 0.05	81	
6.40	78	93	0.88	87	39	93	0.45	85	1.6	93	< 0.05	81	
5.39	93	89	0.99	87	46	89	0.51	85	1.9	89	< 0.05	81	
4.76	105	87	1.09	88	53	87	0.56	86	2.1	87	< 0.05	81	
4.00	125	84	1.25	88	63	84	0.64	86	2.5	84	< 0.05	81	



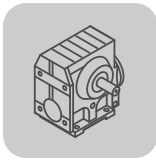
11.13 S, SF, SA, SAF 57

3400 - 2800 1/min

02 959 197

i <sub>ges</sub>	i <sub>sch</sub>	n <sub>e</sub> = 3400 1/min				n <sub>e</sub> = 3200 1/min				n <sub>e</sub> = 2800 1/min			
		n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]
201.00	42/1	17	270	0.75	64	16	270	0.71	63	14	270	0.63	62
184.80		18	270	0.81	64	17	270	0.77	64	15	270	0.68	63
158.12		22	270	0.93	65	20	270	0.88	65	18	270	0.78	64
137.05		25	255	1.0	66	23	270	1.0	66	20	270	0.89	65
128.10		27	245	1.0	66	25	255	1.0	66	22	270	0.94	65
110.73		31	215	1.0	67	29	230	1.0	67	25	255	1.0	66
94.08		36	184	1.0	67	34	196	1.0	67	30	225	1.1	67
84.00		40	165	1.0	67	38	175	1.0	67	33	200	1.0	67
71.75		47	139	1.0	67	45	149	1.0	67	39	174	1.1	67
67.20		51	128	1.0	66	48	139	1.0	67	42	164	1.1	67
56.61		60	103	1.0	65	57	114	1.0	66	49	138	1.1	67
69.39		49	220	1.4	81	46	220	1.3	80	40	220	1.2	80
63.80		53	220	1.5	81	50	220	1.4	81	44	220	1.3	80
54.59		62	220	1.8	81	59	220	1.7	81	51	220	1.5	81
47.32		72	210	1.9	82	68	220	1.9	82	59	220	1.7	81
44.22	77	197	1.9	82	72	205	1.9	82	63	220	1.8	81	
38.23	29/2	89	174	2.0	82	84	184	2.0	82	73	205	1.9	82
32.48		105	148	2.0	82	99	157	2.0	82	86	180	2.0	82
29.00		117	131	2.0	82	110	141	2.0	82	97	162	2.0	82
24.77		137	111	1.9	82	129	120	2.0	82	113	139	2.0	82
23.20		147	102	1.9	82	138	111	2.0	82	121	131	2.0	82
19.54	174	81	1.8	81	164	90	1.9	82	143	109	2.0	82	
20.33	167	160	3.2 *	89	157	160	3.0	89	138	160	2.6	88	
17.62	193	140	3.2 *	89	182	149	3.2 *	89	159	160	3.0	89	
16.47	206	132	3.2 *	89	194	140	3.2 *	89	170	158	3.2 *	89	
14.24	239	116	3.2 *	89	225	123	3.2 *	89	197	139	3.2 *	89	
12.10	281	99	3.3 *	89	264	105	3.3 *	89	231	121	3.3 *	89	
10.80	315	88	3.3 *	89	296	94	3.3 *	89	259	108	3.3 *	89	
9.23	27/5	368	73	3.2 *	89	347	79	3.2 *	89	303	93	3.3 *	89
8.64		394	68	3.2 *	89	370	74	3.2 *	89	324	87	3.3 *	89
7.28		467	54	3.0	88	440	60	3.1 *	89	385	72	3.2 *	89
6.83		498	54	3.2 *	89	469	58	3.2 *	89	410	69	3.3 *	90
6.40		531	50	3.1 *	89	500	54	3.2 *	89	438	64	3.3 *	89
5.39		631	41	3.1 *	89	594	44	3.1 *	89	519	53	3.2 *	89
4.76		714	35	3.0 *	88	672	38	3.0 *	89	588	46	3.2 *	89
4.00	850	28	2.8	88	800	31	2.9	88	700	38	3.1 *	89	

\* P<sub>emax</sub> = 3.0 kW

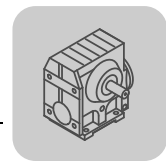


2200 - 1400 1/min

02 959 197

$i_{ges}$	$i_{sch}$	$n_e = 2200 \text{ 1/min}$				$n_e = 1700 \text{ 1/min}$				$n_e = 1400 \text{ 1/min}$			
		$n_a$ [1/min]	$M_{amax}$ [Nm]	$P_e$ [kW]	$\eta$ [%]	$n_a$ [1/min]	$M_{amax}$ [Nm]	$P_e$ [kW]	$\eta$ [%]	$n_a$ [1/min]	$M_{amax}$ [Nm]	$P_e$ [kW]	$\eta$ [%]
201.00	42/1	11	295	0.55	61	8.5	295	0.44	59	7.0	295	0.37	58
184.80		12	295	0.60	62	9.2	295	0.48	60	7.6	295	0.40	58
158.12		14	295	0.69	63	11	295	0.55	61	8.9	295	0.46	60
137.05		16	295	0.78	64	12	295	0.62	62	10	295	0.52	61
128.10		17	295	0.83	64	13	295	0.66	62	11	295	0.55	61
110.73		20	290	0.93	65	15	295	0.75	63	13	295	0.63	62
94.08		23	275	1.0	66	18	300	0.88	65	15	295	0.73	63
84.00		26	250	1.0	67	20	285	0.93	65	17	295	0.80	64
71.75		31	220	1.1	67	24	275	1.0	66	20	290	0.91	65
67.20		33	210	1.1	67	25	260	1.0	67	21	285	0.95	65
56.61	29/2	39	179	1.1	68	30	225	1.1	67	25	265	1.0	67
69.39		32	245	1.0	79	24	245	0.81	77	20	245	0.68	76
63.80		34	245	1.1	79	27	245	0.88	78	22	245	0.73	77
54.59		40	245	1.3	80	31	245	1.0	79	26	245	0.85	78
47.32		46	245	1.5	81	36	245	1.2	79	30	245	0.97	79
44.22		50	245	1.6	81	38	245	1.2	80	32	245	1.0	79
38.23		58	245	1.8	81	44	245	1.4	80	37	245	1.2	80
32.48		68	225	1.9	82	52	245	1.7	81	43	245	1.4	80
29.00		76	200	1.9	82	59	245	1.8	81	48	245	1.5	81
24.77		89	177	2.0	82	69	220	1.9	82	57	245	1.8	81
23.20	95	167	2.0	83	73	210	2.0	82	60	245	1.9	82	
19.54	27/5	113	143	2.0	83	87	183	2.0	83	72	215	2.0	82
20.33		108	168	2.2	88	84	168	1.7	87	69	168	1.4	87
17.62		125	168	2.5	88	96	168	1.9	88	79	168	1.6	87
16.47		134	169	2.7	88	103	168	2.1	88	85	168	1.7	87
14.24		154	169	3.1 *	89	119	169	2.4	88	98	169	2.0	88
12.10		182	150	3.2 *	89	140	169	2.8	89	116	169	2.3	88
10.80		204	136	3.2 *	89	157	169	3.1 *	89	130	169	2.6	88
9.23		238	119	3.3 *	89	184	149	3.2 *	89	152	169	3.0	89
8.64		255	112	3.3 *	89	197	141	3.3 *	89	162	166	3.2 *	89
7.28		302	96	3.4 *	90	234	122	3.3 *	90	192	146	3.3 *	89
6.83	322	91	3.4 *	90	249	100	2.9	90	205	100	2.4	89	
6.40	344	85	3.4 *	90	266	98	3.0	90	219	98	2.5	89	
5.39	408	72	3.4 *	90	315	95	3.5 *	90	260	95	2.9	90	
4.76	462	63	3.4 *	90	357	84	3.5 *	90	294	93	3.2 *	90	
4.00	550	53	3.4 *	90	425	71	3.5 *	90	350	88	3.6 *	90	

\*  $P_{emax} = 3.0 \text{ kW}$

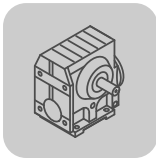


1100 - 700 1/min

02 960 197

i <sub>ges</sub>	i <sub>sch</sub>	n <sub>e</sub> = 1100 1/min				n <sub>e</sub> = 900 1/min				n <sub>e</sub> = 700 1/min			
		n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]
201.00	42/1	5.5	295	0.30	56	4.5	300	0.26	55	3.5	310	0.21	53
184.80		6.0	295	0.32	57	4.9	300	0.28	55	3.8	305	0.23	54
158.12		7.0	295	0.37	58	5.7	295	0.31	56	4.4	300	0.25	55
137.05		8.0	295	0.42	59	6.6	295	0.35	57	5.1	300	0.29	56
128.10		8.6	295	0.45	59	7.0	295	0.37	58	5.5	295	0.30	56
110.73		9.9	295	0.51	61	8.1	295	0.43	59	6.3	295	0.34	57
94.08		12	295	0.59	62	9.6	295	0.49	60	7.4	295	0.39	58
84.00		13	295	0.65	63	11	295	0.54	61	8.3	295	0.43	59
71.75		15	295	0.74	64	13	295	0.62	62	9.8	295	0.50	61
67.20		16	300	0.80	64	13	295	0.66	63	10	295	0.53	61
56.61	19	290	0.91	65	16	300	0.78	64	12	295	0.61	62	
69.39	29/2	16	270	0.60	75	13	270	0.49	74	10	270	0.39	73
63.80		17	270	0.64	76	14	270	0.53	75	11	270	0.42	73
54.59		20	270	0.74	77	16	270	0.62	75	13	270	0.49	74
47.32		23	270	0.85	77	19	270	0.70	76	15	270	0.56	75
44.22		25	270	0.91	78	20	270	0.75	77	16	270	0.59	75
38.23		29	270	1.0	79	24	270	0.86	77	18	270	0.68	76
32.48		34	270	1.2	79	28	270	1.0	78	22	270	0.79	77
29.00		38	270	1.3	80	31	270	1.1	79	24	270	0.88	78
24.77		44	270	1.6	81	36	270	1.3	80	28	270	1.0	78
23.20		47	270	1.7	81	39	270	1.4	80	30	270	1.1	79
19.54	56	250	1.8	81	46	270	1.6	81	36	270	1.3	80	
20.33	54	168	1.1	86	44	170	0.93	85	34	172	0.74	84	
17.62	62	169	1.3	86	51	169	1.1	86	40	170	0.83	85	
16.47	67	168	1.4	87	55	168	1.1	86	43	170	0.89	85	
14.24	77	168	1.6	87	63	168	1.3	86	49	170	1.0	86	
12.10	91	169	1.8	88	74	169	1.5	87	58	169	1.2	86	
10.80	102	169	2.1	88	83	169	1.7	87	65	169	1.3	87	
9.23	27/5	119	170	2.4	88	98	168	2.0	88	76	168	1.5	87
8.64		127	170	2.6	88	104	169	2.1	88	81	168	1.6	87
7.28		151	170	3.0	89	124	170	2.5	88	96	170	1.9	88
6.83		161	120	2.3	89	132	120	1.9	89	102	120	1.5	88
6.4		172	117	2.4	89	141	117	1.9	89	109	117	1.5	88
5.39		204	111	2.7	90	167	111	2.2	89	130	111	1.7	89
4.76	231	108	2.9	90	189	108	2.4	90	147	108	1.9	89	
4.00	275	103	3.3 *	90	225	103	2.7	90	175	103	2.1	89	

\* P<sub>emax</sub> = 3.0 kW



500 - 10 1/min

02 960 197

i <sub>ges</sub>	i <sub>sch</sub>	n <sub>e</sub> = 500 1/min				n <sub>e</sub> = 250 1/min				n <sub>e</sub> = 10 1/min			
		n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]
201.00	42/1	2.5	330	0.17	51	1.2	330	0.09	49	0.05	330	< 0.05	42
184.80		2.7	330	0.18	51	1.4	330	0.10	49	0.05	330	< 0.05	43
158.12		3.2	315	0.20	52	1.6	330	0.11	49	0.06	330	< 0.05	44
137.05		3.6	310	0.22	53	1.8	330	0.13	50	0.07	330	< 0.05	45
128.10		3.9	305	0.23	54	2.0	330	0.14	50	0.08	330	< 0.05	46
110.73		4.5	300	0.26	55	2.3	330	0.15	51	0.09	330	< 0.05	46
94.08		5.3	300	0.30	56	2.7	330	0.18	51	0.11	330	< 0.05	47
84.00		6.0	295	0.32	57	3.0	325	0.19	52	0.12	325	< 0.05	47
71.75		7.0	295	0.37	58	3.5	310	0.21	53	0.14	310	< 0.05	48
67.20		7.4	295	0.39	58	3.7	310	0.23	54	0.15	310	< 0.05	48
56.61	29/2	8.8	295	0.46	60	4.4	300	0.25	55	0.18	300	< 0.05	48
69.39		7.2	300	0.32	71	3.6	300	0.17	68	0.14	300	< 0.05	63
63.80		7.8	300	0.34	71	3.9	300	0.18	68	0.16	300	< 0.05	64
54.59		9.2	300	0.40	72	4.6	300	0.21	69	0.18	300	< 0.05	65
47.32		11	300	0.45	73	5.3	300	0.24	70	0.21	300	< 0.05	66
44.22		11	300	0.48	74	5.7	300	0.25	70	0.23	300	< 0.05	66
38.23		13	295	0.54	74	6.5	300	0.29	71	0.26	300	< 0.05	67
32.48		15	295	0.63	75	7.7	300	0.34	71	0.31	300	< 0.05	67
29.00		17	295	0.70	76	8.6	300	0.38	72	0.34	300	< 0.05	67
24.77		20	295	0.81	77	10	300	0.43	73	0.40	300	< 0.05	68
23.20	27/5	22	295	0.86	77	11	300	0.46	73	0.43	300	< 0.05	68
19.54		26	295	1.0	78	13	295	0.53	74	0.51	295	< 0.05	68
20.33		25	181	0.56	83	12	215	0.35	80	0.49	215	< 0.05	77
17.62		28	175	0.62	83	14	210	0.39	81	0.57	210	< 0.05	77
16.47		30	174	0.66	84	15	205	0.40	81	0.61	205	< 0.05	78
14.24		35	172	0.75	84	18	198	0.45	81	0.70	198	< 0.05	78
12.10		41	170	0.87	85	21	188	0.49	82	0.83	188	< 0.05	78
10.80		46	170	0.97	85	23	184	0.54	83	0.93	184	< 0.05	78
9.23		54	170	1.1	86	27	177	0.60	83	1.1	177	< 0.05	79
8.64		58	170	1.2	86	29	175	0.64	83	1.2	175	< 0.05	79
7.28	69	170	1.4	87	34	172	0.73	84	1.4	172	< 0.05	79	
6.83	73	120	1.1	87	37	120	0.54	85	1.5	120	< 0.05	81	
6.40	78	117	1.1	87	39	117	0.56	85	1.6	117	< 0.05	81	
5.39	93	111	1.2	88	46	111	0.63	86	1.9	111	< 0.05	81	
4.76	105	108	1.4	88	53	108	0.69	86	2.1	108	< 0.05	81	
4.00	125	1.52	1.5	89	63	103	0.78	87	2.5	103	< 0.05	81	



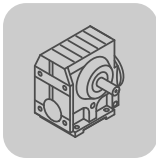
11.14 S, SF, SA, SAF 67

3400 - 2800 1/min

02 961 097

i <sub>ges</sub>	i <sub>sch</sub>	n <sub>e</sub> = 3400 1/min				n <sub>e</sub> = 3200 1/min				n <sub>e</sub> = 2800 1/min				
		n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	
217.41	42/1	16	465	1.2	66	15	465	1.1	66	13	465	0.96	65	
190.11		18	465	1.3	67	17	465	1.2	67	15	465	1.1	66	
180.60		19	465	1.4	67	18	465	1.3	67	16	465	1.1	66	
158.45		21	465	1.5	68	20	465	1.5	68	18	465	1.3	67	
134.40		25	465	1.8	69	24	465	1.7	68	21	465	1.5	68	
121.33		28	455	1.9	69	26	465	1.9	69	23	465	1.6	68	
106.75		32	405	2.0	69	30	430	2.0	69	26	465	1.9	69	
100.80		34	380	1.9	69	32	410	2.0	69	28	465	2.0	69	
85.83		40	320	1.9	69	37	345	1.9	69	33	400	2.0	70	
78.00		44	285	1.9	69	41	310	1.9	69	36	365	2.0	70	
67.57		50	235	1.8	67	47	260	1.9	68	41	315	2.0	69	
58.80		58	184	1.7	65	54	215	1.8	67	48	270	1.9	69	
75.06		29/2	45	435	2.5	82	43	435	2.4	82	37	435	2.1	81
65.63			52	435	2.9	82	49	435	2.7	82	43	435	2.4	82
62.35	55		435	3.0	83	51	435	2.8	82	45	435	2.5	82	
54.70	62		435	3.4	83	59	435	3.2	83	51	435	2.8	83	
46.40	73		395	3.6	83	69	415	3.6	83	60	435	3.3	83	
41.89	81		355	3.6	83	76	380	3.6	83	67	430	3.6	83	
36.85	92		310	3.6	83	87	335	3.6	84	76	380	3.6	84	
34.80	98		295	3.6	83	92	315	3.6	84	80	365	3.7	84	
29.63	115		250	3.6	83	108	270	3.7	83	94	310	3.7	84	
26.93	126		220	3.5	83	119	240	3.6	83	104	280	3.6	84	
23.33	146		182	3.4	82	137	200	3.5	83	120	245	3.7	84	
20.30	167		141	3.1	81	158	164	3.3	82	138	205	3.6	83	
24.44	139		315	5.1	90	131	315	4.8	90	115	315	4.2	89	
23.22	146		315	5.4	90	138	315	5.1	90	121	315	4.4	90	
20.37	167	315	6.1 *	90	157	315	5.8 *	90	137	315	5.0	90		
17.28	197	270	6.2 *	90	185	290	6.2 *	90	162	315	5.9 *	90		
15.60	218	245	6.2 *	90	205	260	6.2 *	90	179	295	6.1 *	90		
13.73	27/5	248	215	6.2 *	90	233	230	6.2 *	90	204	265	6.3 *	90	
12.96		262	200	6.1 *	90	247	215	6.1 *	90	216	250	6.3 *	90	
11.03		308	169	6.1 *	90	290	183	6.2 *	90	254	215	6.3 *	90	
10.03		339	151	6.0 *	90	319	164	6.1 *	90	279	194	6.3 *	90	
8.69		391	124	5.7 *	89	368	137	5.9 *	90	322	166	6.2 *	90	
7.56	450	95	5.1	88	423	112	5.6 *	89	370	141	6.1 *	90		

\* P<sub>emax</sub> = 5.5 kW



2200 - 1400 1/min

02 961 097

$i_{ges}$	$i_{sch}$	$n_e = 2200 \text{ 1/min}$				$n_e = 1700 \text{ 1/min}$				$n_e = 1400 \text{ 1/min}$				
		$n_a$ [1/min]	$M_{amax}$ [Nm]	$P_e$ [kW]	$\eta$ [%]	$n_a$ [1/min]	$M_{amax}$ [Nm]	$P_e$ [kW]	$\eta$ [%]	$n_a$ [1/min]	$M_{amax}$ [Nm]	$P_e$ [kW]	$\eta$ [%]	
217.41	42/1	10	520	0.86	64	7.8	520	0.69	62	6.4	520	0.58	61	
190.11		12	520	0.97	65	8.9	520	0.77	63	7.4	520	0.65	62	
180.60		12	520	1.0	65	9.4	520	0.81	63	7.8	520	0.68	62	
158.45		14	520	1.1	66	11	520	0.91	64	8.8	520	0.76	63	
134.40		16	520	1.3	67	13	520	1.1	65	10	520	0.88	64	
121.33		18	520	1.5	68	14	520	1.2	66	12	520	0.97	65	
106.75		21	520	1.6	68	16	520	1.3	67	13	520	1.1	66	
100.80		22	510	1.7	69	17	520	1.4	67	14	520	1.1	66	
85.83		26	490	1.9	69	20	520	1.6	68	16	520	1.3	67	
78.00		28	465	2.0	70	22	510	1.7	69	18	520	1.4	68	
67.57		33	410	2.0	70	25	495	1.9	69	21	520	1.6	69	
58.80		37	360	2.0	70	29	460	2.0	70	24	500	1.8	69	
75.06		29/2	29	480	1.8	81	23	480	1.4	79	19	480	1.2	79
65.63			34	480	2.1	81	26	480	1.6	80	21	480	1.4	79
62.35			35	480	2.2	81	27	480	1.7	80	22	480	1.4	79
54.70			40	480	2.5	82	31	480	1.9	81	26	480	1.6	80
46.40	47		480	2.9	82	37	480	2.3	82	30	480	1.9	81	
41.89	53		480	3.2	83	41	480	2.5	82	33	480	2.1	81	
36.85	60		475	3.6	83	46	480	2.8	82	38	480	2.3	82	
34.80	63		450	3.6	83	49	480	3.0	83	40	480	2.5	82	
29.63	74		395	3.7	84	57	480	3.5	83	47	480	2.9	83	
26.93	82		360	3.7	84	63	455	3.6	83	52	480	3.2	83	
23.33	94		320	3.8	84	73	405	3.7	84	60	480	3.6	83	
20.30	108		280	3.8	84	84	360	3.8	84	69	425	3.7	84	
24.44	27/5		90	340	3.6	89	70	340	2.8	88	57	340	2.3	88
23.22			95	340	3.8	89	73	340	2.9	89	60	340	2.4	88
20.37			108	340	4.3	89	83	340	3.3	89	69	340	2.8	88
17.28			127	340	5.0	90	98	340	3.9	89	81	340	3.2	89
15.60		141	340	5.6 *	90	109	340	4.3	89	90	340	3.6	89	
13.73		160	330	6.1 *	90	124	340	4.9	90	102	340	4.1	89	
12.96		170	315	6.2 *	90	131	340	5.2	90	108	340	4.3	89	
11.03		199	275	6.3 *	90	154	340	6.1 *	90	127	340	5.0	90	
10.03		219	250	6.3 *	91	169	315	6.2 *	90	140	340	5.5	90	
8.69		253	220	6.4 *	91	196	280	6.3 *	91	161	335	6.3 *	90	
7.56		291	192	6.5 *	91	225	250	6.5 *	91	185	295	6.3 *	91	

\*  $P_{emax} = 5.5 \text{ kW}$



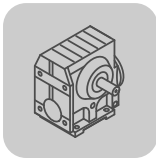
1100 - 700 1/min

02 962 097

i <sub>ges</sub>	i <sub>sch</sub>	n <sub>e</sub> = 1100 1/min				n <sub>e</sub> = 900 1/min				n <sub>e</sub> = 700 1/min			
		n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]
217.41	42/1	5.1	555	0.50	59	4.1	560	0.42	58	3.2	570	0.34	56
190.11		5.8	555	0.56	60	4.7	560	0.47	59	3.7	565	0.38	57
180.60		6.1	555	0.59	61	5.0	555	0.49	59	3.9	565	0.40	57
158.45		6.9	550	0.65	62	5.7	555	0.55	60	4.4	560	0.44	58
134.40		8.2	550	0.75	63	6.7	550	0.63	61	5.2	555	0.51	60
121.33		9.1	550	0.82	63	7.4	550	0.69	62	5.8	555	0.56	60
106.75		10	550	0.92	64	8.4	550	0.77	63	6.6	555	0.62	61
100.80		11	550	0.97	65	8.9	550	0.81	63	6.9	555	0.66	62
85.83		13	550	1.1	66	10	550	0.94	64	8.2	550	0.75	63
78.00		14	550	1.2	66	12	550	1.0	65	9.0	550	0.82	63
67.57	29/2	16	550	1.4	67	13	550	1.2	66	10	550	0.93	64
58.80		19	530	1.5	68	15	550	1.3	67	12	550	1.0	65
75.06		15	525	1.0	77	12	525	0.86	76	9.3	525	0.68	75
65.63		17	525	1.2	78	14	525	0.98	77	11	525	0.77	76
62.35		18	525	1.2	78	14	525	1.0	77	11	525	0.81	76
54.70		20	525	1.4	79	16	525	1.2	78	13	525	0.92	77
46.40		24	525	1.6	80	19	525	1.4	79	15	525	1.1	78
41.89		26	525	1.8	80	21	525	1.5	79	17	525	1.2	78
36.85		30	525	2.0	81	24	525	1.7	80	19	525	1.3	79
34.80		32	525	2.1	81	26	525	1.8	80	20	525	1.4	79
29.63	27/5	37	525	2.5	82	30	525	2.1	81	24	525	1.6	80
26.93		41	525	2.7	82	33	525	2.3	81	26	525	1.8	80
23.33		47	525	3.1	83	39	525	2.6	82	30	525	2.0	81
20.30		54	520	3.5	83	44	525	3.0	82	34	525	2.3	81
24.44		45	355	1.9	87	37	360	1.6	87	29	365	1.3	86
23.22		47	355	2.0	87	39	360	1.7	87	30	365	1.3	86
20.37		54	355	2.3	88	44	355	1.9	87	34	365	1.5	86
17.28		64	355	2.7	88	52	355	2.2	88	41	360	1.8	87
15.60		71	350	2.9	88	58	355	2.4	88	45	355	1.9	87
13.73		80	350	3.3	89	66	355	2.8	88	51	355	2.2	88
12.96	85	350	3.5	89	69	350	2.9	88	54	355	2.3	88	
11.03	100	350	4.1	89	82	350	3.4	89	63	355	2.7	88	
10.03	110	345	4.4	90	90	350	3.7	89	70	355	2.9	88	
8.69	127	345	5.1	90	104	350	4.2	89	81	350	3.3	89	
7.56	146	345	5.8 *	90	119	345	4.8	90	93	350	3.8	89	

\* P<sub>emax</sub> = 5.5 kW





500 - 10 1/min

02 962 097

$i_{ges}$	$i_{sch}$	$n_e = 500 \text{ 1/min}$				$n_e = 250 \text{ 1/min}$				$n_e = 10 \text{ 1/min}$				
		$n_a$ [1/min]	$M_{amax}$ [Nm]	$P_e$ [kW]	$\eta$ [%]	$n_a$ [1/min]	$M_{amax}$ [Nm]	$P_e$ [kW]	$\eta$ [%]	$n_a$ [1/min]	$M_{amax}$ [Nm]	$P_e$ [kW]	$\eta$ [%]	
217.41	42/1	2.3	570	0.25	54	1.1	570	0.13	51	0.05	570	< 0.05	47	
190.11		2.6	570	0.29	55	1.3	570	0.15	51	0.05	570	< 0.05	48	
180.60		2.8	570	0.30	55	1.4	570	0.16	51	0.06	570	< 0.05	48	
158.45		3.2	570	0.34	56	1.6	570	0.18	52	0.06	570	< 0.05	49	
134.40		3.7	565	0.38	57	1.9	570	0.21	53	0.07	570	< 0.05	50	
121.33		4.1	560	0.42	58	2.1	570	0.23	53	0.08	570	< 0.05	50	
106.75		4.7	560	0.47	59	2.3	570	0.26	54	0.09	570	< 0.05	50	
100.80		5.0	560	0.49	59	2.5	570	0.27	55	0.10	570	< 0.05	50	
85.83		5.8	555	0.56	60	2.9	570	0.31	56	0.12	570	< 0.05	51	
78.00		6.4	555	0.61	61	3.2	570	0.34	56	0.13	570	< 0.05	51	
67.57		7.4	555	0.69	62	3.7	565	0.38	57	0.15	565	< 0.05	51	
58.80		8.5	550	0.78	63	4.3	560	0.43	58	0.17	560	< 0.05	51	
75.06		29/2	6.7	570	0.54	73	3.3	570	0.28	70	0.13	570	< 0.05	68
65.63			7.6	570	0.61	74	3.8	570	0.32	71	0.15	570	< 0.05	68
62.35			8.0	570	0.64	74	4.0	570	0.34	71	0.16	570	< 0.05	69
54.70	9.1		570	0.73	75	4.6	570	0.38	71	0.18	570	< 0.05	69	
46.40	11		570	0.85	76	5.4	570	0.44	72	0.22	570	< 0.05	69	
41.89	12		570	0.93	76	6.0	570	0.49	73	0.24	570	< 0.05	69	
36.85	14		570	1.1	77	6.8	570	0.55	73	0.27	570	< 0.05	69	
34.80	14		570	1.1	77	7.2	570	0.58	74	0.29	570	< 0.05	69	
29.63	17		565	1.3	78	8.4	570	0.68	75	0.34	570	< 0.05	70	
26.93	19		565	1.4	79	9.3	570	0.74	75	0.37	570	< 0.05	70	
23.33	21		565	1.6	79	11	570	0.84	76	0.43	570	< 0.05	70	
20.30	25		565	1.8	80	12	570	0.96	77	0.49	570	< 0.05	70	
24.44	27/5		20	365	0.93	85	10	355	0.46	82	0.41	355	0.019	80
23.22			22	365	0.97	85	11	355	0.49	82	0.43	355	< 0.05	80
20.37			25	380	1.1	85	12	365	0.57	83	0.49	365	< 0.05	80
17.28		29	365	1.3	86	14	435	0.79	83	0.58	435	< 0.05	81	
15.60		32	365	1.4	86	16	430	0.86	84	0.64	430	< 0.05	81	
13.73		36	365	1.6	87	18	415	0.94	84	0.73	415	< 0.05	81	
12.96		39	360	1.7	87	19	410	0.98	84	0.77	410	< 0.05	81	
11.03		45	355	1.9	87	23	390	1.1	85	0.91	390	< 0.05	81	
10.03		50	355	2.1	88	25	380	1.2	85	1.0	380	< 0.05	81	
8.69		58	355	2.4	88	29	370	1.3	86	1.2	370	0.06	81	
7.56		66	355	2.8	88	33	365	1.5	86	1.3	365	0.06	81	



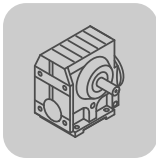
11.15 S, SF, SA, SAF 77

3400 - 2800 1/min

02 963 097

i <sub>ges</sub>	i <sub>sch</sub>	n <sub>e</sub> = 3400 1/min				n <sub>e</sub> = 3200 1/min				n <sub>e</sub> = 2800 1/min			
		n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]
256.47	40/1	13	1160	2.3	71	12	1160	2.1	71	11	1160	1.9	70
225.26		15	1130	2.5	72	14	1150	2.4	71	12	1160	2.1	71
214.00		16	1110	2.6	72	15	1140	2.5	71	13	1160	2.2	71
189.09		18	1080	2.8	72	17	1100	2.7	72	15	1140	2.5	71
161.60		21	1040	3.1	73	20	1050	3.0	73	17	1090	2.7	72
148.15		23	1010	3.3	73	22	1030	3.2	73	19	1070	2.9	73
130.00		26	970	3.6	74	25	990	3.5	74	22	1030	3.2	73
123.20		28	950	3.7	74	26	970	3.6	74	23	1010	3.3	73
107.83		32	900	4.0	74	30	920	3.9	74	26	970	3.6	74
97.14		35	860	4.2	75	33	880	4.1	74	29	930	3.8	74
85.22		40	770	4.3	75	38	820	4.3	75	33	880	4.1	75
75.20		45	675	4.3	74	43	725	4.3	75	37	830	4.3	75
66.67		51	585	4.2	74	48	635	4.3	75	42	745	4.4	75
56.92		60	485	4.1	73	56	530	4.2	74	49	635	4.4	75
75.09		45	1020	5.6	86	43	1020	5.3	86	37	1020	4.6	86
71.33	48	1020	5.9	87	45	1020	5.5	86	39	1020	4.9	86	
63.03	54	1020	6.6	87	51	1020	6.2	87	44	1020	5.5	86	
53.87	63	980	7.4	87	59	1000	7.1	87	52	1020	6.4	87	
49.38	69	950	7.8	87	65	970	7.5	87	57	1010	6.9	87	
43.33	78	910	8.5	88	74	930	8.2	88	65	970	7.5	87	
41.07	83	900	8.9	88	78	910	8.5	88	68	950	7.8	87	
35.94	95	800	9.0	88	89	850	9.0	88	78	910	8.5	88	
32.38	105	725	9.1	88	99	770	9.1	88	86	880	9.1	88	
28.41	120	635	9.1	88	113	680	9.1	88	99	780	9.1	88	
25.07	136	560	9.1	88	128	600	9.1	88	112	695	9.2	88	
22.22	153	485	8.9	88	144	525	9.0	88	126	615	9.2	88	
18.97	179	395	8.5	87	169	440	8.9	88	148	520	9.1	88	
22.89	149	590	10.0 *	91	140	590	9.5 *	91	122	590	8.3	91	
20.99	162	590	10.9 *	92	152	590	10.3 *	92	133	590	9.0	91	
18.42	185	590	12.4 *	92	174	590	11.7 *	92	152	590	10.3 *	92	
17.45	195	590	13.1 *	92	183	590	12.4 *	92	160	590	10.8 *	92	
15.28	223	530	13.5 *	92	209	560	13.4 *	92	183	590	12.3 *	92	
13.76	247	480	13.5 *	92	233	505	13.4 *	92	203	585	13.6 *	92	
12.07	282	415	13.3 *	92	265	445	13.4 *	92	232	515	13.6 *	92	
10.65	319	365	13.3 *	92	300	390	13.4 *	92	263	455	13.6 *	92	
9.44	360	315	13.0 *	92	339	345	13.3 *	92	297	405	13.7 *	92	
8.06	422	260	12.6 *	91	397	285	12.9 *	92	347	340	13.5 *	92	

\* P<sub>emax</sub> = 9.2 kW

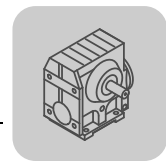


2200 - 1400 1/min

02 963 097

$i_{ges}$	$i_{sch}$	$n_e = 2200 \text{ 1/min}$				$n_e = 1700 \text{ 1/min}$				$n_e = 1400 \text{ 1/min}$				
		$n_a$ [1/min]	$M_{amax}$ [Nm]	$P_e$ [kW]	$\eta$ [%]	$n_a$ [1/min]	$M_{amax}$ [Nm]	$P_e$ [kW]	$\eta$ [%]	$n_a$ [1/min]	$M_{amax}$ [Nm]	$P_e$ [kW]	$\eta$ [%]	
256.47	40/1	8.6	1260	1.6	69	6.6	1270	1.3	67	5.5	1270	1.1	66	
225.26		9.8	1230	1.8	69	7.5	1270	1.5	68	6.2	1270	1.2	67	
214.00		10	1220	1.9	70	7.9	1270	1.6	68	6.5	1270	1.3	67	
189.09		12	1200	2.1	70	9.0	1240	1.7	69	7.4	1270	1.5	68	
161.60		14	1160	2.3	71	11	1220	1.9	70	8.7	1260	1.7	69	
148.15		15	1140	2.5	72	11	1200	2.1	70	9.4	1240	1.8	69	
130.00		17	1100	2.7	72	13	1170	2.3	71	11	1210	1.9	70	
123.20		18	1080	2.8	73	14	1150	2.3	71	11	1200	2.0	70	
107.83		20	1040	3.0	73	16	1110	2.5	72	13	1170	2.2	71	
97.14		23	1010	3.3	74	18	1090	2.8	73	14	1140	2.4	72	
85.22		26	970	3.5	74	20	1050	3.0	73	16	1100	2.6	72	
75.20		29	920	3.8	74	23	1010	3.2	74	19	1070	2.9	73	
66.67		33	880	4.1	75	25	970	3.5	74	21	1040	3.1	73	
56.92		39	830	4.5	75	30	920	3.9	75	25	990	3.4	74	
75.09		40/3	29	1100	4.0	85	23	1100	3.1	84	19	1100	2.6	83
71.33			31	1100	4.2	85	24	1100	3.2	85	20	1100	2.7	84
63.03			35	1100	4.7	86	27	1100	3.7	85	22	1100	3.0	84
53.87			41	1100	5.5	86	32	1100	4.3	86	26	1100	3.5	85
49.38			45	1080	5.8	87	34	1100	4.6	86	28	1100	3.8	85
43.33	51		1050	6.4	87	39	1100	5.2	86	32	1100	4.3	86	
41.07	54		1030	6.6	87	41	1100	5.5	86	34	1100	4.6	86	
35.94	61		980	7.2	87	47	1060	6.1	87	39	1100	5.2	86	
32.38	68		960	7.8	88	53	1040	6.6	87	43	1090	5.7	87	
28.41	77		920	8.5	88	60	990	7.1	87	49	1050	6.2	87	
25.07	88		870	9.1	88	68	960	7.8	88	56	1020	6.8	87	
22.22	99		790	9.3 *	88	77	920	8.4	88	63	980	7.4	87	
18.97	116		680	9.4 *	88	90	860	9.2	88	74	930	8.2	88	
22.89	34/6		96	710	7.9	91	74	705	6.1	90	61	705	5.0	90
20.99			105	710	8.6	91	81	705	6.6	91	67	705	5.5	90
18.42			119	720	9.9 *	91	92	710	7.6	91	76	705	6.2	90
17.45			126	720	10.4 *	91	97	710	8.0	91	80	710	6.6	91
15.28			144	720	11.9 *	92	111	720	9.2	91	92	710	7.5	91
13.76			160	725	13.2 *	92	124	720	10.2 *	91	102	710	8.3	91
12.07		182	650	13.5 *	92	141	725	11.7 *	92	116	720	9.6 *	91	
10.65		207	580	13.6 *	92	160	725	13.2 *	92	131	720	10.8 *	92	
9.44		233	520	13.8 *	92	180	655	13.4 *	92	148	725	12.3 *	92	
8.06		273	445	13.8 *	92	211	575	13.8 *	92	174	680	13.5 *	92	

\*  $P_{emax} = 9.2 \text{ kW}$

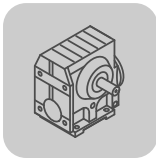


1100 - 700 1/min

02 964 097

i <sub>ges</sub>	i <sub>sch</sub>	n <sub>e</sub> = 1100 1/min				n <sub>e</sub> = 900 1/min				n <sub>e</sub> = 700 1/min			
		n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]
256.47	40/1	4.3	1270	0.89	64	3.5	1270	0.75	63	2.7	1270	0.60	61
225.26		4.9	1270	1.0	65	4.0	1270	0.84	63	3.1	1270	0.67	62
214.00		5.1	1270	1.0	65	4.2	1270	0.88	64	3.3	1270	0.70	62
189.09		5.8	1270	1.2	66	4.8	1270	0.98	65	3.7	1270	0.78	63
161.60		6.8	1270	1.3	67	5.6	1270	1.1	66	4.3	1270	0.90	64
148.15		7.4	1270	1.5	68	6.1	1270	1.2	66	4.7	1270	0.97	65
130.00		8.5	1260	1.6	69	6.9	1270	1.4	67	5.4	1270	1.1	66
123.20		8.9	1250	1.7	69	7.3	1270	1.4	68	5.7	1270	1.1	66
107.83		10	1220	1.9	70	8.3	1260	1.6	69	6.5	1270	1.3	67
97.14		11	1200	2.0	70	9.3	1250	1.8	69	7.2	1270	1.4	68
85.22		13	1170	2.2	71	11	1220	1.9	70	8.2	1270	1.6	69
75.20		15	1140	2.4	72	12	1190	2.1	71	9.3	1250	1.8	69
66.67		16	1110	2.6	72	13	1160	2.3	71	10	1220	1.9	70
56.92		19	1060	2.9	73	16	1120	2.6	72	12	1190	2.2	71
75.09		15	1120	2.1	83	12	1130	1.7	82	9.3	1170	1.4	81
71.33		15	1120	2.2	83	13	1130	1.8	82	9.8	1120	1.4	81
63.03	17	1120	2.5	83	14	1120	2.0	82	11	1130	1.6	81	
53.87	20	1120	2.9	84	17	1120	2.4	83	13	1120	1.9	82	
49.38	22	1120	3.1	84	18	1120	2.6	83	14	1120	2.0	82	
43.33	25	1130	3.5	85	21	1120	2.9	84	16	1120	2.3	83	
41.07	27	1130	3.7	85	22	1120	3.1	84	17	1120	2.4	83	
35.94	31	1150	4.3	85	25	1130	3.5	85	19	1120	2.7	84	
32.38	34	1130	4.7	86	28	1130	3.9	85	22	1120	3.0	84	
28.41	39	1110	5.2	86	32	1150	4.5	86	25	1130	3.4	85	
25.07	44	1080	5.7	87	36	1120	4.9	86	28	1130	3.9	85	
22.22	50	1050	6.3	87	41	1100	5.4	86	32	1150	4.4	86	
18.97	58	1010	7.0	87	47	1060	6.1	87	37	1120	5.0	86	
22.89	48	695	3.9	89	39	695	3.2	89	31	705	2.6	88	
20.99	52	705	4.3	90	43	695	3.5	89	33	705	2.8	88	
18.42	60	700	4.9	90	49	700	4.0	89	38	700	3.1	89	
17.45	63	700	5.1	90	52	700	4.2	90	40	700	3.3	89	
15.28	72	710	5.9	90	59	700	4.8	90	46	700	3.8	89	
13.76	80	710	6.6	91	65	700	5.3	90	51	700	4.2	90	
12.07	91	710	7.5	91	75	710	6.1	90	58	700	4.7	90	
10.65	103	715	8.5	91	85	710	6.9	91	66	710	5.4	90	
9.44	117	720	9.6 *	91	95	715	7.8	91	74	710	6.1	90	
8.06	136	725	11.3 *	92	112	720	9.2	91	87	710	7.1	91	

\* P<sub>emax</sub> = 9.2 kW



500 - 10 1/min

02 964 097

i <sub>ges</sub>	i <sub>sch</sub>	n <sub>e</sub> = 500 1/min				n <sub>e</sub> = 250 1/min				n <sub>e</sub> = 10 1/min			
		n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]
256.47	40/1	1.9	1270	0.44	59	0.97	1270	0.23	56	0.04	1270	< 0.05	54
225.26		2.2	1270	0.49	60	1.1	1270	0.26	56	0.04	1270	< 0.05	55
214.00		2.3	1270	0.52	60	1.2	1270	0.28	56	0.05	1270	< 0.05	55
189.09		2.6	1270	0.58	61	1.3	1270	0.31	57	0.05	1270	< 0.05	55
161.60		3.1	1270	0.67	62	1.5	1270	0.36	58	0.06	1270	< 0.05	55
148.15		3.4	1270	0.72	62	1.7	1270	0.39	58	0.07	1270	< 0.05	55
130.00		3.8	1270	0.81	63	1.9	1270	0.43	59	0.08	1270	< 0.05	55
123.20		4.1	1270	0.85	64	2.0	1270	0.46	59	0.08	1270	< 0.05	55
107.83		4.6	1270	0.95	65	2.3	1270	0.51	60	0.09	1270	< 0.05	56
97.14		5.1	1270	1.0	65	2.6	1270	0.56	61	0.10	1270	< 0.05	56
85.22		5.9	1270	1.2	66	2.9	1270	0.63	62	0.12	1270	< 0.05	56
75.20		6.6	1270	1.3	67	3.3	1270	0.71	62	0.13	1270	< 0.05	56
66.67		7.5	1270	1.5	68	3.7	1270	0.79	63	0.15	1270	< 0.05	56
56.92		8.8	1260	1.7	69	4.4	1270	0.91	64	0.18	1270	< 0.05	56
75.09		6.7	1160	1.0	79	3.3	1120	0.51	76	0.13	1120	< 0.05	75
71.33		7.0	1110	1.0	79	3.5	1060	0.51	77	0.14	1060	< 0.05	75
63.03	7.9	1230	1.3	80	4.0	1200	0.65	77	0.16	1200	< 0.05	76	
53.87	9.3	1180	1.4	81	4.6	1240	0.77	78	0.19	1240	< 0.05	76	
49.38	10	1160	1.5	81	5.1	1240	0.84	78	0.20	1240	< 0.05	76	
43.33	12	1120	1.7	82	5.8	1240	0.95	79	0.23	1240	< 0.05	76	
41.07	12	1120	1.7	82	6.1	1240	1.0	79	0.24	1240	< 0.05	76	
35.94	14	1120	2.0	82	7.0	1240	1.1	79	0.28	1240	< 0.05	76	
32.38	15	1120	2.2	83	7.7	1240	1.3	80	0.31	1240	0.05	76	
28.41	18	1120	2.5	83	8.8	1190	1.4	80	0.35	1190	0.06	76	
25.07	20	1120	2.8	84	10	1170	1.5	81	0.40	1170	0.06	76	
22.22	23	1130	3.2	84	11	1130	1.6	81	0.45	1130	0.07	76	
18.97	26	1130	3.7	85	13	1120	1.9	82	0.53	1120	0.08	76	
22.89	22	690	1.8	87	11	675	0.91	85	0.44	675	< 0.05	83	
20.99	24	725	2.1	87	12	740	1.1	85	0.48	740	< 0.05	83	
18.42	27	705	2.3	88	14	830	1.4	86	0.54	830	0.06	83	
17.45	29	705	2.4	88	14	810	1.4	86	0.57	810	0.06	83	
15.28	33	705	2.7	88	16	785	1.6	86	0.65	785	0.06	83	
13.76	36	695	3.0	89	18	770	1.7	87	0.73	770	0.07	83	
12.07	41	695	3.4	89	21	750	1.9	87	0.83	750	0.08	83	
10.65	47	695	3.8	89	23	725	2.0	87	0.94	725	0.09	83	
9.44	53	705	4.4	90	26	705	2.2	88	1.1	705	0.09	83	
8.06	62	705	5.1	90	31	705	2.6	88	1.2	705	0.11	83	



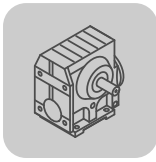
11.16 S, SF, SA, SAF 87

3400 - 2800 1/min

02 965 097

i <sub>ges</sub>	i <sub>sch</sub>	n <sub>e</sub> = 3400 1/min				n <sub>e</sub> = 3200 1/min				n <sub>e</sub> = 2800 1/min			
		n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]
288.00		12	2030	3.4	74	11	2070	3.3	73	9.7	2070	2.9	73
258.18		13	1990	3.7	74	12	2010	3.5	74	11	2070	3.2	73
222.40		15	1910	4.1	75	14	1950	4.0	74	13	2010	3.6	74
202.96		17	1850	4.3	75	16	1890	4.2	75	14	1970	3.8	74
180.00		19	1800	4.7	75	18	1830	4.5	75	16	1910	4.2	75
151.30		22	1690	5.3	75	21	1730	5.1	75	19	1800	4.6	75
139.05	40/1	24	1630	5.5	76	23	1680	5.4	76	20	1760	4.9	75
123.48		28	1570	6.0	76	26	1600	5.7	76	23	1690	5.3	76
110.40		31	1430	6.1	76	29	1540	6.2	76	25	1620	5.7	76
99.26		34	1260	6.0	75	32	1380	6.2	76	28	1550	6.0	76
86.15		39	1030	5.8	74	37	1150	6.0	75	33	1390	6.2	76
77.14		44	830	5.3	72	41	970	5.7	74	36	1220	6.1	76
64.00		53	500	4.3	65	50	620	4.7	68	44	960	5.9	75
91.20		37	1470	6.6	88	35	1470	6.2	87	31	1470	5.4	87
81.76		42	1470	7.3	88	39	1470	6.9	88	34	1470	6.0	87
70.43		48	1470	8.4	88	45	1470	7.9	88	40	1470	7.0	88
64.27		53	1470	9.2	88	50	1470	8.7	88	44	1470	7.6	88
57.00		60	1470	10.4	88	56	1470	9.8	88	49	1470	8.6	88
47.91		71	1470	12.3	89	67	1470	11.6	89	58	1470	10.2	88
44.03	38/3	77	1470	13.4	89	73	1470	12.6	89	64	1470	11.0	89
39.10		87	1300	13.3	89	82	1400	13.5	89	72	1470	12.4	89
34.96		97	1140	13.1	89	92	1240	13.4	89	80	1440	13.6	89
31.43		108	1000	12.8	88	102	1090	13.1	89	89	1290	13.5	89
27.28		125	810	12.1	88	117	910	12.7	88	103	1110	13.4	89
24.43		139	660	11.1	87	131	775	12.1	88	115	960	13.0	89
20.27		168	395	8.4	82	158	490	9.6	84	138	755	12.4	88
25.50		133	990	15.0	92	125	990	14.1	92	110	990	12.4	92
21.43		159	990	17.8 *	92	149	990	16.8 *	92	131	990	14.7	92
19.70		173	990	19 *	92	162	990	18.3 *	92	142	990	16.0 *	92
17.49		194	870	19 *	92	183	930	19 *	92	160	990	18.0 *	92
15.64		217	760	19 *	92	205	830	19 *	92	179	960	19 *	92
14.06	34/6	242	660	18.2 *	92	228	725	19 *	92	199	860	19 *	92
12.21		278	540	17.2 *	91	262	605	18.1 *	92	229	730	19 *	92
10.93		311	440	15.8 *	90	293	510	17.1 *	91	256	645	19 *	92
9.07		375	255	11.5	87	353	325	13.5	89	309	500	17.7 *	92
7.88		431	200	10.5	86	406	230	11.3	87	355	375	15.5 *	90

\* P<sub>emax</sub> = 15 kW



2200 - 1400 1/min

02 965 097

i <sub>ges</sub>	i <sub>sch</sub>	n <sub>e</sub> = 2200 1/min				n <sub>e</sub> = 1700 1/min				n <sub>e</sub> = 1400 1/min			
		n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]
288.00		7.6	2210	2.5	71	5.9	2280	2.0	70	4.9	2280	1.7	69
258.18		8.5	2170	2.7	72	6.6	2260	2.2	71	5.4	2280	1.9	69
222.40		9.9	2130	3.0	73	7.6	2210	2.5	71	6.3	2280	2.1	70
202.96		11	2080	3.2	73	8.4	2190	2.7	72	6.9	2260	2.3	71
180.00		12	2020	3.5	74	9.4	2130	2.9	73	7.8	2210	2.5	72
151.30		15	1940	4.0	75	11	2060	3.3	74	9.3	2150	2.9	73
139.05	40/1	16	1880	4.2	75	12	2020	3.5	74	10	2100	3.0	73
123.48		18	1820	4.5	75	14	1960	3.8	74	11	2060	3.3	74
110.40		20	1770	4.9	76	15	1900	4.1	75	13	2000	3.6	74
99.26		22	1700	5.2	76	17	1840	4.4	75	14	1960	3.9	75
86.15		26	1620	5.7	76	20	1770	4.8	76	16	1880	4.3	75
77.14		29	1540	6.0	76	22	1700	5.2	76	18	1820	4.6	76
64.00		34	1360	6.4	77	27	1580	5.7	77	22	1700	5.1	76
91.20		24	1540	4.5	87	19	1520	3.5	86	15	1510	2.9	85
81.76		27	1600	5.2	87	21	1600	4.0	86	17	1600	3.4	86
70.43		31	1600	6.0	87	24	1600	4.7	87	20	1600	3.9	86
64.27		34	1600	6.6	88	26	1600	5.1	87	22	1600	4.2	86
57.00		39	1600	7.4	88	30	1600	5.7	87	25	1600	4.8	87
47.91		46	1600	8.7	88	35	1600	6.8	88	29	1600	5.6	87
44.03	38/3	50	1600	9.5	88	39	1600	7.4	88	32	1600	6.1	87
39.10		56	1600	10.6	89	43	1600	8.3	88	36	1600	6.8	88
34.96		63	1600	11.9	89	49	1600	9.2	88	40	1600	7.6	88
31.43		70	1600	13.2	89	54	1600	10.2	89	45	1600	8.5	88
27.28		81	1450	13.7	89	62	1600	11.7	89	51	1600	9.7	89
24.43		90	1310	13.8	89	70	1600	13.1	89	57	1600	10.8	89
20.27		109	1080	13.8	89	84	1420	14.0	89	69	1600	13.0	89
25.50		86	1240	12.2	92	67	1240	9.5	91	55	1240	7.8	91
21.43		103	1240	14.5	92	79	1240	11.2	92	65	1240	9.3	91
19.70		112	1240	15.7 *	92	86	1240	12.2	92	71	1240	10.1	91
17.49		126	1240	17.7 *	92	97	1240	13.7	92	80	1240	11.3	92
15.64	34/6	141	1230	20 *	92	109	1240	15.3 *	92	90	1240	12.7	92
14.06		156	1110	20 *	92	121	1240	17.0 *	92	100	1240	14.1	92
12.21		180	970	20 *	93	139	1240	20 *	92	115	1240	16.1 *	92
10.93		201	870	20 *	93	156	1130	20 *	93	128	1240	18.0 *	92
9.07		243	720	20 *	92	187	950	20 *	93	154	1140	20 *	93
7.88		279	605	19 *	92	216	830	20 *	93	178	1010	20 *	93

\* P<sub>emax</sub> = 15 kW



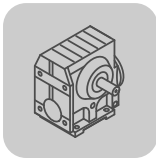
1100 - 700 1/min

02 966 097

i <sub>ges</sub>	i <sub>sch</sub>	n <sub>e</sub> = 1100 1/min				n <sub>e</sub> = 900 1/min				n <sub>e</sub> = 700 1/min			
		n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]
288.00	40/1	3.8	2400	1.4	67	3.1	2450	1.2	66	2.4	2480	0.98	64
258.18		4.3	2380	1.6	68	3.5	2430	1.3	67	2.7	2470	1.1	65
222.40		4.9	2350	1.8	69	4.0	2400	1.5	68	3.1	2450	1.2	66
202.96		5.4	2330	1.9	70	4.4	2380	1.6	68	3.4	2430	1.3	67
180.00		6.1	2280	2.1	70	5.0	2350	1.8	69	3.9	2400	1.4	68
151.30		7.3	2240	2.4	71	5.9	2310	2.0	70	4.6	2350	1.7	69
139.05		7.9	2190	2.5	72	6.5	2260	2.2	71	5.0	2330	1.8	69
123.48		8.9	2150	2.8	73	7.3	2240	2.4	71	5.7	2310	2.0	70
110.40		10	2110	3.0	73	8.2	2190	2.6	72	6.3	2280	2.1	71
99.26		11	2070	3.3	74	9.1	2150	2.8	73	7.1	2240	2.3	71
86.15		13	2000	3.6	74	10	2090	3.1	73	8.1	2190	2.6	72
77.14		14	1940	3.9	75	12	2040	3.4	74	9.1	2150	2.8	73
64.00		17	1840	4.4	76	14	1960	3.9	75	11	2070	3.2	74
91.20		38/3	12	1490	2.2	84	9.9	1480	1.8	83	7.7	1460	1.4
81.76	13		1760	2.9	85	11	1760	2.4	84	8.6	1760	1.9	83
70.43	16		1760	3.4	85	13	1760	2.8	85	9.9	1760	2.2	83
64.27	17		1760	3.7	86	14	1760	3.0	85	11	1760	2.4	84
57.00	19		1760	4.1	86	16	1760	3.4	85	12	1760	2.7	84
47.91	23		1760	4.9	87	19	1760	4.0	86	15	1760	3.2	85
44.03	25		1760	5.3	87	20	1760	4.4	86	16	1760	3.4	85
39.10	28		1760	6.0	87	23	1760	4.9	87	18	1760	3.9	86
34.96	31		1760	6.6	88	26	1760	5.5	87	20	1760	4.3	86
31.43	35		1760	7.4	88	29	1760	6.1	87	22	1760	4.7	87
27.28	40		1760	8.4	88	33	1760	6.9	88	26	1760	5.4	87
24.43	45		1760	9.4	88	37	1760	7.7	88	29	1760	6.0	87
20.27	54		1760	11.3	89	44	1760	9.3	88	35	1760	7.2	88
25.50	34/6		43	1340	6.7	90	35	1340	5.5	90	27	1340	4.3
21.43		51	1340	7.9	91	42	1340	6.5	90	33	1340	5.1	90
19.70		56	1340	8.6	91	46	1340	7.1	91	36	1340	5.5	90
17.49		63	1340	9.7	91	51	1340	7.9	91	40	1340	6.2	90
15.64		70	1340	10.8	92	58	1340	8.9	91	45	1340	6.9	91
14.06		78	1340	12.0	92	64	1340	9.8	91	50	1340	7.7	91
12.21		90	1340	13.8	92	74	1340	11.3	92	57	1340	8.8	91
10.93		101	1340	15.3 *	92	82	1340	12.6	92	64	1340	9.8	91
9.07		121	1340	18.4 *	92	99	1340	15.1 *	92	77	1340	11.8	92
7.88		140	1260	20 *	93	114	1340	17.4 *	92	89	1340	13.6	92

\* P<sub>emax</sub> = 15 kW





500 - 10 1/min

02 966 097

i <sub>ges</sub>	i <sub>sch</sub>	n <sub>e</sub> = 500 1/min				n <sub>e</sub> = 250 1/min				n <sub>e</sub> = 10 1/min			
		n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]
288.00	40/1	1.7	2500	0.73	62	0.87	2500	0.38	59	0.03	2500	< 0.05	58
258.18		1.9	2500	0.80	63	0.97	2500	0.43	59	0.04	2500	< 0.05	58
222.40		2.2	2500	0.92	64	1.1	2500	0.49	60	0.04	2500	< 0.05	59
202.96		2.5	2480	0.99	64	1.2	2500	0.53	61	0.05	2500	< 0.05	59
180.00		2.8	2480	1.1	65	1.4	2500	0.60	61	0.06	2500	< 0.05	59
151.30		3.3	2430	1.3	67	1.7	2500	0.70	62	0.07	2500	< 0.05	59
139.05		3.6	2430	1.4	67	1.8	2500	0.75	63	0.07	2500	< 0.05	59
123.48		4.0	2400	1.5	68	2.0	2500	0.84	63	0.08	2500	< 0.05	59
110.40		4.5	2380	1.6	69	2.3	2500	0.93	64	0.09	2500	< 0.05	59
99.26		5.0	2330	1.8	69	2.5	2470	1.0	65	0.10	2470	< 0.05	59
86.15		5.8	2310	2.0	70	2.9	2450	1.1	66	0.12	2450	0.05	59
77.14		6.5	2260	2.2	71	3.2	2430	1.2	66	0.13	2430	0.06	59
64.00		7.8	2220	2.5	72	3.9	2400	1.5	68	0.16	2400	0.07	59
91.20		5.5	1450	1.0	81	2.7	1390	0.51	79	0.11	1390	< 0.05	78
81.76		6.1	1960	1.5	82	3.1	1880	0.76	79	0.12	1880	< 0.05	78
70.43	7.1	1980	1.8	82	3.5	1980	0.92	80	0.14	1980	< 0.05	79	
64.27	7.8	1980	2.0	83	3.9	1980	1.0	80	0.16	1980	< 0.05	79	
57.00	8.8	1980	2.2	83	4.4	1980	1.1	80	0.18	1980	< 0.05	79	
47.91	10	1980	2.6	84	5.2	1980	1.3	81	0.21	1980	0.06	79	
44.03	11	1980	2.8	84	5.7	1980	1.4	81	0.23	1980	0.06	79	
39.10	13	1980	3.1	85	6.4	1980	1.6	82	0.26	1980	0.07	79	
34.96	14	1980	3.5	85	7.2	1980	1.8	82	0.29	1980	0.08	79	
31.43	16	1980	3.9	85	8.0	1980	2.0	83	0.32	1980	0.08	79	
27.28	18	1980	4.4	86	9.2	1980	2.3	83	0.37	1980	0.10	79	
24.43	20	1980	4.9	86	10	1980	2.5	84	0.41	1980	0.11	79	
20.27	25	1980	5.9	87	12	1980	3.0	85	0.49	1980	0.13	79	
25.50	20	1430	3.3	88	9.8	1390	1.6	87	0.39	1390	0.07	85	
21.43	23	1420	3.9	89	12	1510	2.1	87	0.47	1510	0.09	85	
19.70	25	1410	4.2	89	13	1570	2.4	87	0.51	1570	0.10	85	
17.49	29	1390	4.6	89	14	1570	2.7	88	0.57	1570	0.11	85	
15.64	32	1390	5.2	90	16	1540	2.9	88	0.64	1540	0.12	85	
14.06	36	1390	5.7	90	18	1510	3.2	88	0.71	1510	0.13	85	
12.21	41	1390	6.6	90	20	1460	3.5	89	0.82	1460	0.15	85	
10.93	46	1390	7.3	91	23	1430	3.9	89	0.91	1430	0.16	85	
9.07	55	1410	8.9	91	28	1390	4.5	89	1.1	1390	0.19	85	
7.88	63	1410	10.3	91	32	1390	5.1	90	1.3	1390	0.22	85	



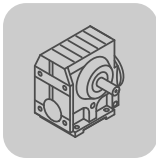
11.17 S, SF, SA, SAF 97

3400 - 2800 1/min

02 967 097

i <sub>ges</sub>	i <sub>sch</sub>	n <sub>e</sub> = 3400 1/min				n <sub>e</sub> = 3200 1/min				n <sub>e</sub> = 2800 1/min			
		n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]
286.40		12	3520	5.8	76	11	3590	5.6	76	9.8	3700	5.0	75
262.22		13	3450	6.2	76	12	3520	5.9	76	11	3630	5.4	75
231.67		15	3310	6.7	76	14	3380	6.4	76	12	3520	5.9	76
196.52		17	3120	7.4	77	16	3210	7.2	76	14	3350	6.6	76
180.95		19	3030	7.8	77	18	3120	7.5	77	15	3250	6.9	76
161.74		21	2910	8.3	77	20	2970	8.0	77	17	3120	7.4	77
145.60	40/1	23	2760	8.8	77	22	2850	8.5	77	19	3000	7.9	77
131.85		26	2660	9.4	77	24	2740	9.1	77	21	2880	8.3	77
116.92		29	2320	9.3	76	27	2550	9.5	77	24	2740	8.9	77
105.71		32	1980	8.9	75	30	2210	9.2	76	26	2630	9.5	77
89.60		38	1280	7.3	70	36	1670	8.5	74	31	2210	9.4	77
78.26		43	920	6.4	65	41	1040	6.7	67	36	1770	8.8	75
65.45		52	675	5.9	63	49	775	6.2	64	43	1030	6.8	68
80.85		42	3150	15.5	89	40	3150	14.6	89	35	3150	12.8	89
71.43		48	3090	17.2	90	45	3150	16.5	89	39	3150	14.5	89
60.59		56	2910	19	90	53	2970	18.3	90	46	3120	16.9	90
55.79		61	2820	20	90	57	2880	19	90	50	3030	17.8	90
49.87		68	2710	22	90	64	2760	21	90	56	2910	19	90
44.89	37/3	76	2430	21	90	71	2630	22	90	62	2790	20	90
40.65		84	2170	21	90	79	2350	22	90	69	2680	21	90
36.05		94	1830	20	89	89	2020	21	89	78	2400	22	90
32.60		104	1560	19	89	98	1760	20	89	86	2150	22	90
27.63		123	1010	15.2	86	116	1320	18.2	88	101	1740	21	89
24.13		141	725	12.9	83	133	820	13.6	84	116	1390	19	88
26.39		129	1750	25 *	93	121	1750	24 *	93	106	1750	21	93
23.59		144	1750	28 *	93	136	1750	27 *	93	119	1750	23 *	93
21.23		160	1750	32 *	93	151	1750	30 *	93	132	1750	26 *	93
19.23		177	1550	31 *	93	166	1680	31 *	93	146	1750	29 *	93
17.05		199	1320	30 *	93	188	1450	31 *	93	164	1730	32 *	93
15.42	35/6	220	1110	28 *	92	208	1260	30 *	93	182	1540	31 *	93
13.07		260	725	22	90	245	940	26 *	92	214	1240	30 *	93
11.41		298	515	18.3	88	280	585	19	89	245	1000	28 *	92
9.55		356	375	16.2	87	335	435	17.5	87	293	580	20	89
8.26		412	290	14.7	85	387	335	15.8	86	339	455	18.4	88

\* P<sub>emax</sub> = 22 kW

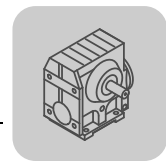


2200 - 1400 1/min

02 967 097

i <sub>ges</sub>	i <sub>sch</sub>	n <sub>e</sub> = 2200 1/min				n <sub>e</sub> = 1700 1/min				n <sub>e</sub> = 1400 1/min			
		n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]
286.40		7.7	3920	4.2	74	5.9	4000	3.4	73	4.9	4000	2.9	72
262.22		8.4	3840	4.5	75	6.5	4000	3.7	73	5.3	4000	3.1	72
231.67		9.5	3770	5.0	75	7.3	3960	4.1	74	6.0	4000	3.5	73
196.52		11	3580	5.5	76	8.7	3840	4.7	75	7.1	4000	4.0	74
180.95		12	3510	5.9	76	9.4	3770	4.9	75	7.7	3920	4.3	74
161.74		14	3410	6.4	76	11	3650	5.3	76	8.7	3840	4.7	75
145.60	40/1	15	3270	6.8	77	12	3550	5.7	76	9.6	3730	5.0	75
131.85		17	3170	7.2	77	13	3440	6.1	76	11	3650	5.4	76
116.92		19	3020	7.7	77	15	3340	6.6	77	12	3510	5.8	76
105.71		21	2930	8.3	77	16	3210	7.0	77	13	3440	6.2	76
89.60		25	2730	9.1	77	19	3020	7.8	77	16	3240	6.9	77
78.26		28	2540	9.6	78	22	2870	8.4	78	18	3080	7.5	77
65.45		34	2120	9.7	77	26	2650	9.2	78	21	2900	8.3	78
80.85		27	3300	10.6	89	21	3270	8.2	88	17	3230	6.7	88
71.43		31	3300	12.0	89	24	3300	9.3	88	20	3300	7.7	88
60.59		36	3300	14.1	89	28	3300	10.9	89	23	3300	9.0	88
55.79		39	3270	15.1	89	30	3300	11.8	89	25	3300	9.8	88
49.87		44	3170	16.3	90	34	3300	13.2	89	28	3300	10.9	89
44.89	37/3	49	3050	17.5	90	38	3300	14.6	89	31	3300	12.1	89
40.65		54	2950	19	90	42	3230	15.8	90	34	3300	13.3	89
36.05		61	2810	20	90	47	3110	17.1	90	39	3300	15.0	89
32.60		67	2700	21	90	52	2980	18.1	90	43	3200	16.0	90
27.63		80	2390	22	90	62	2810	20	90	51	3010	17.8	90
24.13		91	2060	22	90	70	2670	22	90	58	2870	19	90
26.39		83	2550	24 *	93	64	2600	19	93	53	2600	15.6	92
23.59		93	2450	26 *	93	72	2600	21	93	59	2600	17.5	93
21.23		104	2380	28 *	93	80	2570	23 *	93	66	2600	19	93
19.23		114	2280	29 *	93	88	2500	25 *	93	73	2600	21	93
17.05		129	2170	31 *	93	100	2400	27 *	93	82	2570	24 *	93
15.42	35/6	143	2040	33 *	93	110	2300	28 *	93	91	2470	25 *	93
13.07		168	1720	32 *	93	130	2170	32 *	93	107	2330	28 *	93
11.41		193	1480	32 *	93	149	2000	33 *	93	123	2210	30 *	93
9.55		230	1200	31 *	93	178	1670	33 *	93	147	2040	33 *	94
8.26		266	980	30 *	93	206	1440	33 *	93	169	1770	34 *	94

\* P<sub>emax</sub> = 22 kW

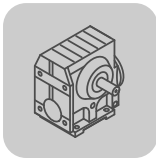


1100 - 700 1/min

02 968 097

i <sub>ges</sub>	i <sub>sch</sub>	n <sub>e</sub> = 1100 1/min				n <sub>e</sub> = 900 1/min				n <sub>e</sub> = 700 1/min			
		n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]
286.40		3.8	4200	2.4	70	3.1	4200	2.0	69	2.4	4200	1.6	68
262.22		4.2	4200	2.6	71	3.4	4200	2.2	70	2.7	4200	1.7	68
231.67		4.7	4200	2.9	72	3.9	4200	2.4	70	3.0	4200	1.9	69
196.52		5.6	4160	3.4	73	4.6	4200	2.8	71	3.6	4200	2.2	70
180.95		6.1	4120	3.6	73	5.0	4200	3.0	72	3.9	4200	2.4	70
161.74		6.8	4030	3.9	74	5.6	4160	3.3	73	4.3	4200	2.7	71
145.60	40/1	7.6	3950	4.2	74	6.2	4080	3.6	73	4.8	4200	2.9	72
131.85		8.3	3880	4.5	75	6.8	4030	3.9	74	5.3	4200	3.2	72
116.92		9.4	3760	4.9	75	7.7	3910	4.2	74	6.0	4120	3.5	73
105.71		10	3650	5.3	76	8.5	3840	4.6	75	6.6	4030	3.8	74
89.60		12	3500	5.9	76	10	3690	5.1	76	7.8	3910	4.3	75
78.26		14	3370	6.5	77	12	3580	5.7	76	8.9	3800	4.7	75
65.45		17	3170	7.2	77	14	3400	6.4	77	11	3650	5.4	76
80.85		14	3230	5.3	87	11	3200	4.3	86	8.7	3170	3.4	85
71.43		15	3600	6.7	87	13	3600	5.5	87	9.8	3600	4.3	86
60.59		18	3600	7.8	88	15	3600	6.4	87	12	3600	5.0	86
55.79		20	3600	8.5	88	16	3600	7.0	87	13	3600	5.5	87
49.87		22	3600	9.4	88	18	3600	7.8	88	14	3600	6.1	87
44.89	37/3	25	3600	10.4	88	20	3600	8.6	88	16	3600	6.7	87
40.65		27	3600	11.5	89	22	3600	9.5	88	17	3600	7.4	88
36.05		31	3530	12.7	89	25	3600	10.6	89	19	3600	8.3	88
32.60		34	3420	13.5	89	28	3600	11.7	89	21	3600	9.2	88
27.63		40	3260	15.2	90	33	3460	13.2	89	25	3600	10.8	89
24.13		46	3130	16.6	90	37	3320	14.5	89	29	3560	12.2	89
26.39		42	2650	12.6	92	34	2620	10.2	92	27	2620	8.0	91
23.59		47	2650	14.0	92	38	2650	11.5	92	30	2620	8.9	91
21.23		52	2650	15.6	92	42	2650	12.8	92	33	2620	9.9	92
19.23		57	2650	17.2	93	47	2650	14.1	92	36	2620	10.9	92
17.05	35/6	65	2670	19	93	53	2650	15.9	92	41	2650	12.4	92
15.42		71	2670	21	93	58	2650	17.5	93	45	2650	13.7	92
13.07		84	2540	24 *	93	69	2670	21	93	54	2650	16.1	92
11.41		96	2420	26 *	93	79	2590	23 *	93	61	2650	18.4	93
9.55		115	2280	29 *	93	94	2440	26 *	93	73	2650	22	93
8.26		133	2140	32 *	94	109	2320	28 *	93	85	2540	24 *	93

\* P<sub>emax</sub> = 22 kW



500 - 10 1/min

02 968 097

i <sub>ges</sub>	i <sub>sch</sub>	n <sub>e</sub> = 500 1/min				n <sub>e</sub> = 250 1/min				n <sub>e</sub> = 10 1/min			
		n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]	n <sub>a</sub> [1/min]	M <sub>amax</sub> [Nm]	P <sub>e</sub> [kW]	η [%]
286.40	40/1	1.7	4200	1.2	65	0.87	4200	0.62	62	0.03	4200	< 0.05	60
262.22		1.9	4200	1.3	66	0.95	4200	0.68	62	0.04	4200	< 0.05	60
231.67		2.2	4200	1.4	67	1.1	4200	0.76	63	0.04	4200	< 0.05	60
196.52		2.5	4200	1.6	68	1.3	4200	0.88	64	0.05	4200	< 0.05	60
180.95		2.8	4200	1.8	68	1.4	4200	0.95	64	0.06	4200	< 0.05	60
161.74		3.1	4200	2.0	69	1.5	4200	1.1	65	0.06	4200	< 0.05	60
145.60		3.4	4200	2.2	70	1.7	4200	1.2	65	0.07	4200	0.05	60
131.85		3.8	4200	2.4	70	1.9	4200	1.3	66	0.08	4200	0.06	60
116.92		4.3	4200	2.6	71	2.1	4200	1.4	67	0.09	4200	0.06	60
105.71		4.7	4200	2.9	72	2.4	4200	1.5	67	0.09	4200	0.07	60
89.60	37/3	5.6	4160	3.3	73	2.8	4200	1.8	69	0.11	4200	0.08	60
78.26		6.4	4080	3.7	74	3.2	4200	2.0	69	0.13	4200	0.09	60
65.45		7.6	3910	4.2	75	3.8	4200	2.4	70	0.15	4200	0.11	60
80.85		6.2	3110	2.4	84	3.1	3010	1.2	82	0.12	3010	< 0.05	80
71.43		7.0	4200	3.6	85	3.5	4160	1.9	82	0.14	4160	0.08	81
60.59		8.3	4200	4.3	85	4.1	4080	2.1	83	0.17	4080	0.09	81
55.79		9.0	4200	4.6	86	4.5	4200	2.4	83	0.18	4200	0.10	81
49.87		10	4200	5.1	86	5.0	4200	2.6	83	0.20	4200	0.11	81
44.89		11	4160	5.6	86	5.6	4200	2.9	84	0.22	4200	0.12	81
40.65		12	4120	6.1	87	6.2	4200	3.2	84	0.25	4200	0.13	81
36.05	35/6	14	4080	6.8	87	6.9	4200	3.6	85	0.28	4200	0.15	81
32.60		15	3990	7.3	87	7.7	4200	4.0	85	0.31	4200	0.17	81
27.63		18	3910	8.4	88	9.0	4200	4.7	86	0.36	4200	0.20	81
24.13		21	3800	9.3	88	10	4200	5.3	86	0.41	4200	0.23	81
26.39		19	2590	5.7	90	9.5	2540	2.8	89	0.38	2540	0.12	87
23.59		21	2590	6.3	91	11	2540	3.2	89	0.42	2540	0.13	87
21.23		24	2590	7.0	91	12	2570	3.6	89	0.47	2570	0.15	87
19.23		26	2620	7.8	91	13	2570	3.9	89	0.52	2570	0.16	87
17.05		29	2620	8.8	91	15	2570	4.4	90	0.59	2570	0.18	87
15.42		32	2620	9.7	92	16	2570	4.8	90	0.65	2570	0.20	87
13.07	35/6	38	2650	11.6	92	19	2590	5.7	90	0.77	2590	0.24	87
11.41		44	2650	13.2	92	22	2590	6.6	91	0.88	2590	0.27	87
9.55		52	2650	15.7	92	26	2620	7.9	91	1.0	2620	0.33	87
8.26		61	2650	18.1	93	30	2620	9.1	91	1.2	2620	0.38	87