

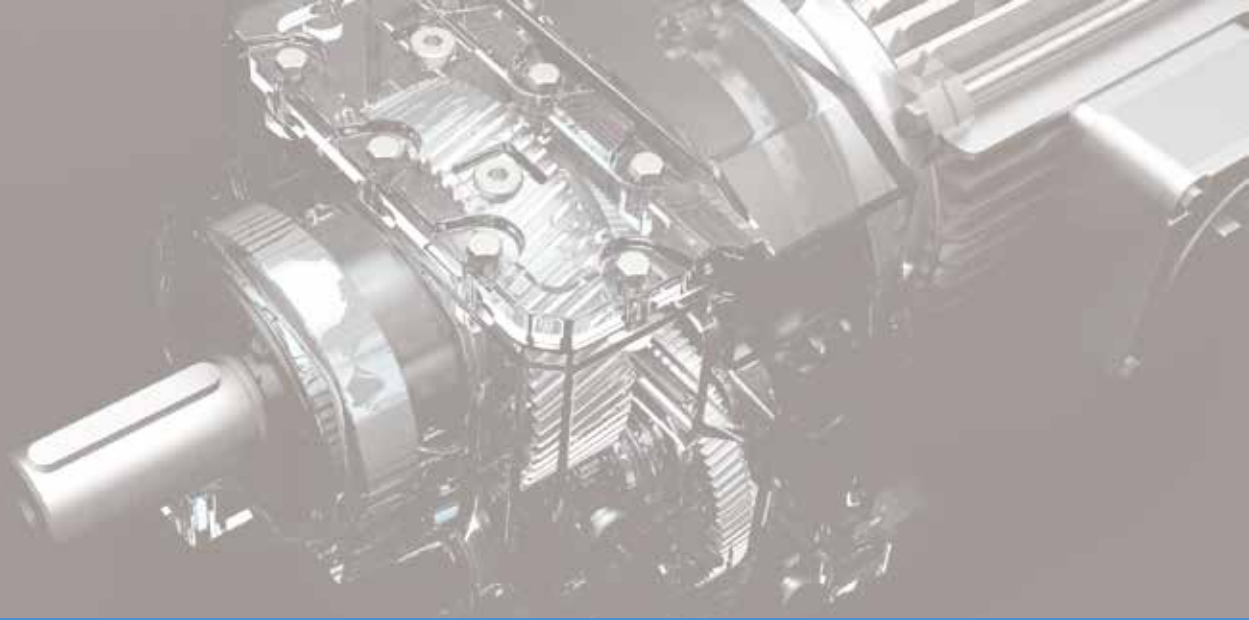
K SERIES HELICAL BEVEL GEAR UNITS



08 / 2017

Note!

1. The structure scheme, appearance diagram and other attached diagrams in sample are examples, there is no strict proportion requirement. If you need exact dimension of certain types, please contact our sales dept.. (The unmarked dimension units are mm).
2. Gear unit has been tested before delivered, users should add lubrication oil before running.
3. We can only refer to the marked oil in the mannul. Actual oil filling level should be the same with the mark on oil immersion lens.
4. Lubrication oil viscosity should be selected according to working conditions and ambient temperature.
5. To prevent accidents, all the rotation parts should be added with protective covers according to safety regulation of the nation and region.
6. The solid shaft input structure gear unit is not equipped with any motor.
7. Motors of Y series are supplied with protection grade of IP54 unless otherwise specified.
8. Unless otherwise specified, you will receive the terminal box at 0°.



Guidelines for the selection

- ❑ Gear units are designed under the circumstance of steady load, stated operating time per day and a few starting times, but the practical condition will be not as perfect as the designed circumstance. so we must confirm driven machine factor f_1 , prime mover factor f_2 , starting factor f_3 according to actual load type, operating time, starting frequency. let it less than or equal to the service factor f_b of selection table, viz $f_1 \times f_2 \times f_3 \leq f_b$. the needed torque of service machine multiply the service factor ($f_1 \times f_2 \times f_3$) should less than or equal to gear units' permissible torque.

$$\text{Viz } T_N \geq T_2 \times f_1 \times f_2 \times f_3$$

f_1 — Driven machine factor(See table 1)

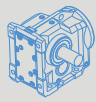
f_2 — Prime mover factor(See table 2)

f_3 — Start factor(See table 3)

T_2 — The torque required by driven machine

T_N — Gear unit permissible torque(See page 03)

- ❑ We accept the orders of products of special specification, and provide our customer with exclusive design service.
- ❑ Along with the technology advanced etc., the prouct of the manull of RED SUN will be changed, please forgive.



Service factor:

Table 1				Driven machine factor				f1		
Driven equipment	Daily operating time with load(hour)			Driven equipment	Daily operating time with load(hour)					
	≤ 2	> 2-10	> 10		≤ 2	> 2-10	> 10			
Sewage treatment				Conveying machine						
Concentrator(Central Transmission)	-	-	1.2	Bucket conveyer	-	1.4	1.5			
Compressed filter	1.0	1.3	1.5	Winch	1.4	1.6	1.6			
Flocculator	0.8	1.0	1.3	Hoist	-	1.5	1.8			
Aerator	-	1.8	2.0	Belt conveyor≤150kW	1.0	1.2	1.3			
Collector	1.0	1.2	1.3	Belt conveyor≥150kW	1.1	1.3	1.4			
Vertical,rotary group				Elevators for goods*	-	1.2	1.5			
Blended collector	1.0	1.3	1.5	Elevators for customers*	-	1.5	1.8			
Concentrator	-	1.1	1.3	Scraper conveyor	-	1.2	1.5			
Screw pump	-	1.3	1.5	Automatic ladder	1.0	1.2	1.4			
Water wheel machine	-	-	2.0	Rail traveling mechanism	-	1.5	-			
Pump				Various frequency device	-	1.8	2.0			
Centrifugal pump	1.0	1.2	1.3	Reciprocating compressor	-	1.8	1.9			
Volume-down pump				Hoisting mechanism**						
1Piston	1.3	1.4	1.8	Rotary mechanism*		1.4	1.8			
>1Piston	1.2	1.4	1.5	Pitching mechanism		1.1	1.4			
Dredge				Traveling mechanism		1.6	2.0			
Bucket conveyer	-	1.6	1.6	Lifting mechanism		1.1	1.4			
Unloading device	-	1.3	1.5	Jibcrane		1.2	1.6			
Carterpillar traveling mechanism	1.2	1.6	1.8	Cooling tower						
Bucket digger				Cooling tower fan	-	-	2.0			
Be used for picking up	-	1.7	1.7	Fan (Shaft flow and centrifugal type)	-	1.4	1.5			
Be used for rough materials	-	2.2	2.2	Food industry						
Chopper	-	2.2	2.2	Sugar production						
Traveling mechanism*	-	1.4	1.8	Sugar-cane cutter*	-	-	1.7			
Plate blender	-	1.0	1.0	Sugar crane mill						
Chemical industry				Beet sugar production	-	-	1.7			
Extruder	-	-	1.6	Beet masher	-	-	1.2			
Paste mixer	-	1.8	1.8	Squeeze machine, mechanical refrigerator, cooking machine	-	-	1.4			
Rubber calendar	-	1.5	1.5	Beet cleaner	-	-	1.5			
Cooling cylinder	-	1.3	1.4	Beet chopper						
Material mixer,be used for				Paper-making machinery						
Uniform medium	1.0	1.3	1.4	Various kinds***	-	1.8	2.0			
Non-uniform medium	1.4	1.6	1.7	Pulper driving device	Supply goods according to customer requirements					
Blender,be used for				Centrifugal compressor	-	1.4	1.5			
Uniform density medium	1.0	1.3	1.5	Rope way cable car						
Un-uniformed medium	1.2	1.4	1.6	Delivery ropeway	-	1.3	1.4			
Un-uniformed gas absorption	1.4	1.6	1.8	Cableway of shuttle system	-	1.6	1.8			
Oven	1.0	1.3	1.5	T rod elevator	-	1.3	1.4			
Centrifugal machine	1.0	1.2	1.3	Continuous cableway	-	1.4	1.6			
Metal processing equipment				Cement industry						
Plate turnover	1.0	1.0	1.2	Concrete blender	-	1.5	1.5			
Steel pushing device	1.0	1.2	1.2	Crusher*	-	1.2	1.4			
Winding machine	-	1.6	1.6	Rotary kiln	-	-	2.0			
Cooling bed transverse frame	-	1.5	1.5	Tube mill	-	-	2.0			
Roller leveler	-	1.6	1.6	Powder concentrator	-	1.6	1.6			
Roller path				Roller press	-	-	2.0			
Continuous	-	1.5	1.5							
Interval	-	2.0	2.0							
Reversing mill	-	1.8	1.8							
Cutter										
Continuous*	-	1.5	1.5							
Crank type*	1.0	1.0	1.0							
Continuous casting driving device	-	1.4	1.4							
Rolling mill										
Reversing cogging mill	-	2.5	2.5							
Reversing plate slab mill	-	2.5	2.5							
Reversing wire mill	-	1.8	1.8							
Reversing thin plate mill	-	2.0	2.0							
Reversing middle thickness plate mill	-	1.8	1.8							
Roll gap adjusting and driving device	0.9	1.0	-							



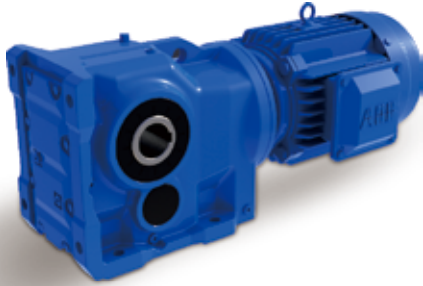
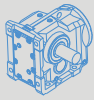
Table 1				Driven machine factor			f ₁		
Driven equipment	Daily running time with load(hour)			Driven equipment	Daily running time with load(hour)				
	≤ 2	> 2-10	> 10		≤ 2	> 2-10	> 10		
Wood industry				Plastics industry					
Barking machine				Miller, compound grinding	1.25	1.25	1.25		
Feed drive	1.25	1.25	1.50	Coating, film					
Main drive	1.75	1.75	1.75	Conveying pipe, Pulling rod, thin type					
Conveyor				Pipe type, Pile drawer	1.25	1.25	1.50		
Burner, repeating saw	1.25	1.25	1.50	Continuous mixer, Calender	1.50	1.50	1.50		
Rotary tower, transit transport	1.50	1.50	1.50	Blow film, to plasticizing					
Main loading, heavy loading	1.50	1.50	1.50	Batch mixer	1.75	1.75	1.75		
Main original wood, land base	1.75	1.75	2.00						
Conveying chain				Rubber industry					
Floor	1.50	1.50	1.50	Continuous strong inner mixer, Mix roller,					
Green-wood	1.50	1.50	1.75	Batch feeding mixer (except for double sticks)	1.50	1.50	1.50		
Cutting Chain				Refiner, calender					
Saw transmission, traction	1.50	1.50	1.75	Double roller clamp feeding and mixed miller	1.25	1.25	1.50		
Peeling barrel	1.75	1.75	2.00						
Feed drive				Batch strong inner mixer,					
Edging, wood trimmer				Double stick single groove grain stick	1.75	1.75	1.75		
Planer feed, assorting table,	1.25	1.25	1.50	Miller heater, double sticks					
Automatic incline lifting				Batch feeding mixer					
Multi-shaft feed, raw wood	1.75	1.75	1.75	Wave stick miller	2.00	2.00	2.00		
Transportation and rotation									
Transportation				Generator and exciter	1.00	1.00	1.25		
Charging tray									
Plywood lathe drive	1.50	1.50	1.75	Hammer crusher	1.75	1.75	2.00		
Conveying chain, Lifting									
				Sand miller	1.25	1.25	1.50		

⚠ Note: Determine required power P₂ of the driven equipment:
 *)Determine rated power according to maximum torque.
 **)It's necessary to check thermal capacity.

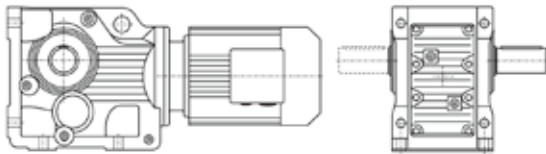
Prime mover factor

Table 2	Factor for prime mover	f ₂
Electric motors, hydraulic motors, turbines		1.0
Piston engines 4-6 cylinders		1.25
Piston engines 1-3 cylinders		1.5

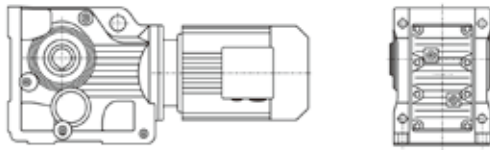
Table 3		Start factor				f ₃
f ₃	f ₁ x f ₂	1	1.25	2-	≥ 3	
Starts per hour			-1.75	2.75		
≤ 5		1	1	1	1	
6-25		1.2	1.12	1.06	1	
26-60		1.3	1.2	1.12	1.06	
61-180		1.5	1.3	1.2	1.12	
> 180		1.7	1.5	1.3	1.2	



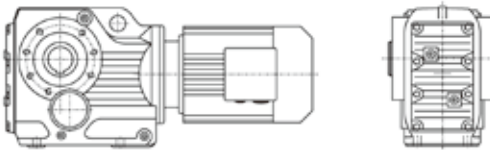
K series gear units are available in the following designs:



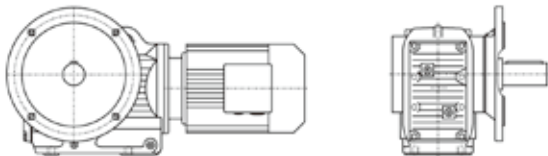
K...Y..
Foot-mounted solid shaft helical bevel gear units



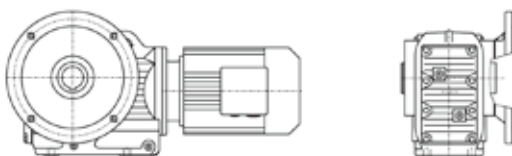
KAB...Y..
Foot-mounted hollow shaft helical bevel gear units



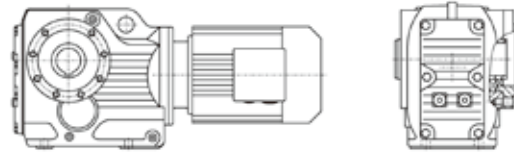
KA...Y..
Hollow shaft helical bevel gear units



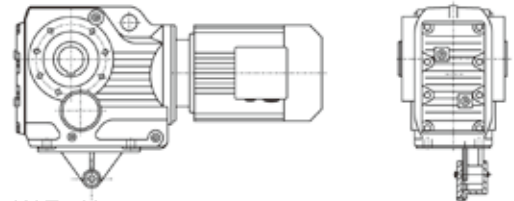
KF...Y..
Flanged-mounted solid shaft helical bevel units



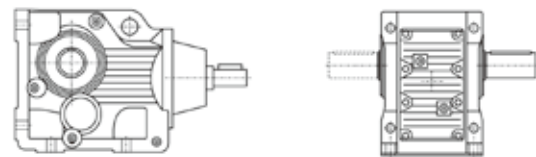
KAF...Y..
Flange-mounted hollow shaft helical bevel gear units



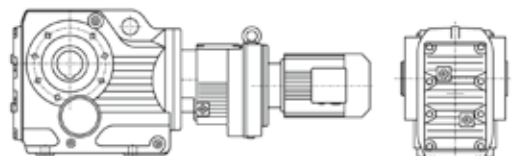
KAZ...Y..
Short-flange-mounted hollow shaft helical bevel gear units



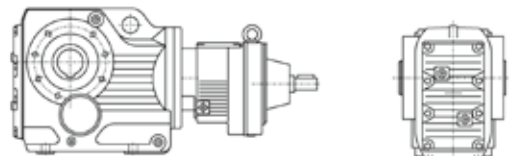
KAT...Y..
Torque-arm-mounted hollow shaft helical bevel gear units



K (KF, KA, KAF, KAB, KAZ) S...
Helical bevel gear units with solid shaft input



KA (K, KF, KAF, KAB, KAZ) ...R...Y...
Combi-type helical bevel gear units

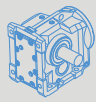


KA (K, KF, KAF, KAB, KAZ) S...R...
Combi-type helical bevel gear units with solid shaft input

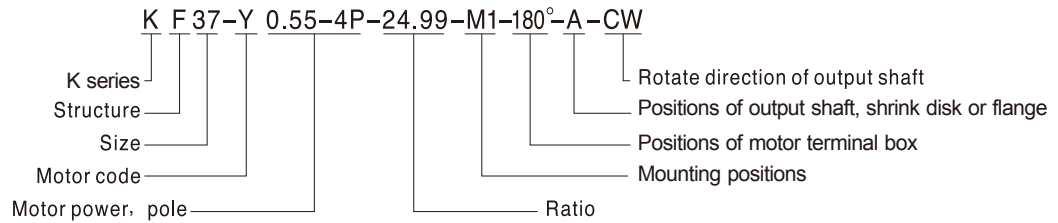


KA (K, KF, KAF, KAB, KAZ) ...Y...
Customers provide the motor by themselves need connected flange.





Type Designations:



K series:
Helical bevel gear units

Structure:

Foot-mounted solid shaft	(-)
Hollow shaft	A
Flange-mounted solid shaft	F
Flange-mounted hollow shaft	AF
Short-flange-mounted hollow shaft	AZ
Foot-mounted hollow shaft	AB
Torque-arm-mounted hollow shaft	AT
Foot-mounted solid shaft with solid shaft input	S
Hollow shaft with solid shaft input	AS
Flange-mounted solid shaft with solid shaft input	FS
Flange-mounted hollow shaft with solid shaft input	AFS
Hollow shaft with shrink disk	H..(H, HF, HZ, HT)

Size:
(see selection table)

Motor code:

Common motor	Y(Y2)
Flameproof motor	B
Direct current motor	Z
Brake motor	YEJ
Multi-speed motor	D
Variable frequency motor	YVP
Electromagnetic variable speed motor	YCT
Metallurgy hoisting motor	R
Transduction braking motor	YVPJ
Roller way	G

Motor power, pole :
See selection table

Ratio:
See selection table

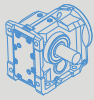
Mounting positions:
M1, M2, M3, M4, M5, M6(See page 03)

Positions of motor terminal box:
0°, 90°, 180°, 270°(See page 03)

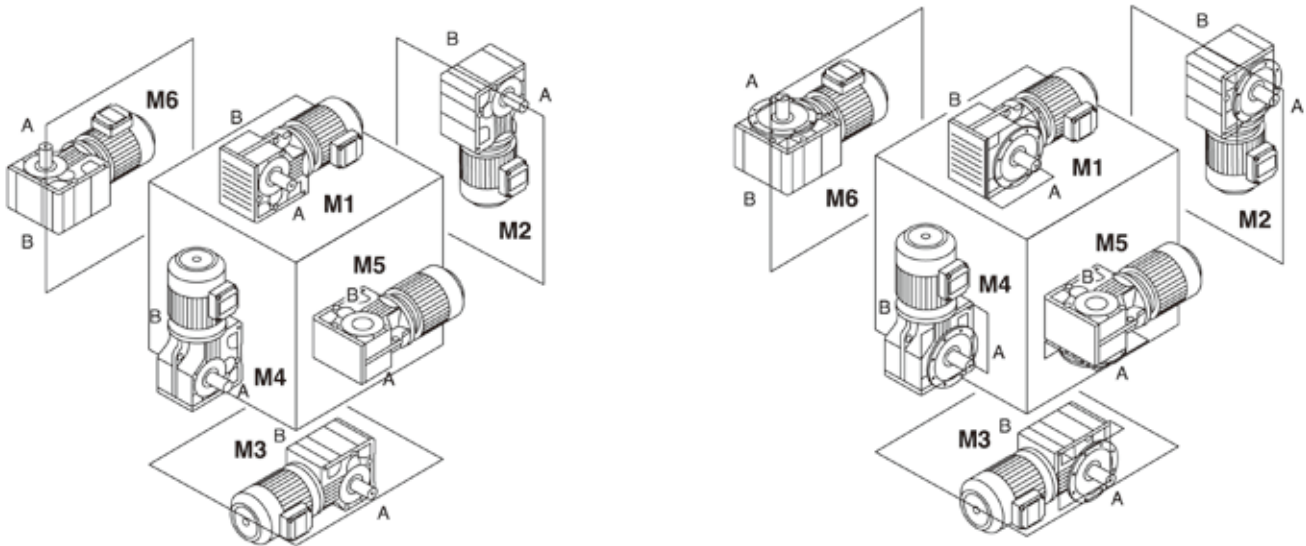
Output shaft \ flange \ shrink disc directions:
Viewing from motor end: left side = A, right side = B,
both side = AB(See mounting positions)

Direction of rotation from the output shaft end:
Clockwise CW
Counter clockwise CCW

*Dimensions of hollow shaft with shrink disc, see page 40-41.

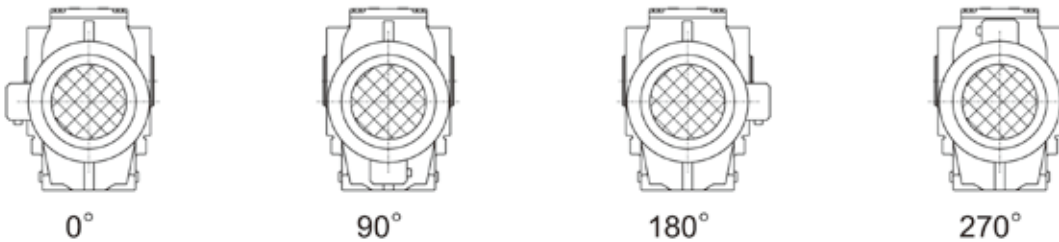


Mounting positions



K

Positions of motor terminal box:



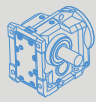
Input power rating and permissible torque

Size	37	47	57	67	77	87	97	107	127	157	167	187
Structure	K KA KF KAF KAZ KAT KAB											
Input power rating(kw)	0.18~3.0	0.18~3.0	0.18~5.5	0.18~5.5	0.37~11	0.75~22	1.1~30	3~45	7.5~90	11~160	11~200	18.5~200
Ratio	5.36~106.38	5.81~131.87	6.57~145.14	7.14~144.79	7.24~192.18	7.19~197.37	8.95~176.05	8.74~141.46	8.68~146.07	12.65~150.41	17.28~163.91	17.27~180.78
Permissible torque (n.m)	200	400	600	820	1550	2700	4300	8000	13000	18000	32000	50000

Gear unit weight

Size	37	47	57	67	77	87	97	107	127	157	167	187
Weight (kgs)	11	20	27	33	57	85	130	250	380	610	1015	1700

The marked weight is average value, it has no constraint force.



Oil

K...,KAB...:

Size	Oil level(L)					
	M1	M2	M3	M4	M5	M6
K..37	0.5	1	1	1.3	1	1
K..47	0.8	1.3	1.5	2	1.6	1.6
K..57	1.2	2.3	2.5	3	2.6	2.4
K..67	1.1	2.4	2.6	3.4	2.6	2.6
K..77	2.2	4.1	4.4	5.9	4.2	4.4
K..87	3.7	8	8.7	10.9	7.8	8
K..97	7	14	15.7	20	15.7	15.5
K..107	10	21	25.5	33.5	24	24
K..127	21	41.5	44	54	40	41
K..157	31	62	65	90	58	62
K..167	35	100	100	125	85	85
K..187	60	170	170	205	130	130

KF...:

Size	Oil level(L)					
	M1	M2	M3	M4	M5	M6
KF37	0.5	1.1	1.1	1.5	1	1
KF47	0.8	1.3	1.7	2.2	1.6	1.6
KF57	1.3	2.3	2.7	3	2.9	2.7
KF67	1.1	2.4	2.8	3.6	2.7	2.7
KF77	2.1	4.1	4.4	6	4.5	4.5
KF87	3.7	8.2	9	11.9	8.4	8.4
KF97	7	14.7	17.3	21.5	15.7	16.5
KF107	10	22	26	35	25	25
KF127	21	41.5	46	55	41	41
KF157	31	66	69	92	62	62

KA..., KAF..., KAZ...:

Size	Oil level(L)					
	M1	M2	M3	M4	M5	M6
K..37	0.5	1	1	1.4	1	1
K..47	0.8	1.3	1.6	2.1	1.6	1.6
K..57	1.3	2.3	2.7	3	2.9	2.7
K..67	1.1	2.4	2.7	3.6	2.6	2.6
K..77	2.1	4.1	4.6	6	4.4	4.4
K..87	3.7	8.2	8.8	11.1	8	8
K..97	7	14.7	15.7	20	15.7	15.7
K..107	10	20.5	24	32	24	24
K..127	21	41.5	43	52	40	40
K..157	31	66	67	87	62	62
KA..167	35	100	100	125	85	85
KA..187	60	170	170	205	130	130



Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p
0.18kW						0.18kW					
0.09	16482	14975	0.74			1.5	994	903	0.78		
0.11	13692	12440	0.89			1.8	873	793	0.88		
0.13	12013	10914	1.0			2.0	767	697	1.0		
0.14	10807	9819	1.1			2.3	675	613	1.1	K 67R37	4
0.16	9293	8443	1.3	K 127R77	4	2.6	597	542	1.3	KF 67R37	4
0.19	8236	7483	1.5	KF 127R77	4	3.0	518	471	1.5	KA 67R37	4
0.21	7226	6565	1.7	KA 127R77	4	3.3	462	420	1.7	KAF67R37	4
0.24	6388	5804	1.9	KAF127R77	4	3.9	397	361	1.9		
0.28	5533	5027	2.2			4.3	356	323	2.2		
0.31	4868	4423	2.5			5.1	299	272	2.6		
0.37	4184	3801	2.9								
0.43	3563	3237	3.4								
						2.3	677	615	0.8		
						2.6	599	544	0.9		
						2.9	521	473	1.1		
						3.3	463	421	1.2		
						3.8	398	362	1.4	K 57R37	4
						4.4	351	319	1.6	KF 57R37	4
						5.1	300	273	1.9	KA 57R37	4
						5.8	264	240	2.1	KAF57R37	4
						6.5	237	215	2.4		
						7.2	211	192	2.7		
						8.4	183	166	3.1		
						3.7	413	375	0.9		
						4.3	359	326	1.0		
						4.8	318	289	1.2	K 47R37	4
						5.6	275	250	1.4	KF 47R37	4
						6.2	248	225	1.5	KA 47R37	4
						7.0	218	198	1.7	KAF47R37	4
						8.3	184	167	2.0		
						9.3	164	149	2.3		
						11	141	128	2.7		
						6.8	226	205	0.83	K 37R17	4
						7.7	199	181	0.94	KF 37R17	4
						8.7	176	160	1.07	KA 37R17	4
						10	150	136	1.26	KAF37R17	4
						11	140	127	1.34		
						5.9	275	144.79	2.8	K 67	6
						6.9	235	123.54	3.3	KF 67	6
						7.9	205	108.03	3.8	KA 67	6
						8.3	195	102.62	4.0	KAF67	6
						9.6	168	144.79	4.6	K 67	4
						11	144	123.54	5.4	KF 67	4
						13	126	108.03	6.1	KA 67	4
						5.9	276	145.14	2.0	K 57	6
						6.9	235	123.85	2.4	KF 57	6
						7.8	206	108.29	2.7	KA 57	6
						8.3	196	102.88	2.9	KAF57	6
						9.4	172	90.26	3.3		
						9.6	169	145.14	3.3		
						11	144	123.85	3.9	K 57	4
						13	126	108.29	4.5	KF 57	4
						14	120	102.88	4.7	KA 57	4
						15	105	90.26	5.4	KAF57	4
						18	89	76.56	6.3		
						6.4	251	131.87	1.50	K 47	6
						7.0	231	121.48	1.63	KF 47	6
						8.1	198	104.37	1.90	KA 47	6
						9.4	173	90.86	2.2	KAF47	6
						10	162	85.12	2.3		

K



K

Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p
0.18kW						0.25kW					
11	153	131.87	2.5	K 47	4	0.86	2484	1625	1.6		
12	141	121.48	2.7	KF 47	4	1.0	2186	1430	1.8	K 97R57	4
13	121	104.37	3.1	KA 47	4	1.1	1928	1261	2.1	KF 97R57	4
15	106	90.86	3.6	KAF47	4	1.3	1685	1102	2.4	KA 97R57	4
16	99	85.12	3.8			1.5	1463	957	2.8	KAF97R57	4
8.0	202	106.38	0.93	K 37	6	1.6	1307	855	3.1		
8.7	186	97.81	1.01	KF 37	6	0.7	3192	2088	0.80		
10	159	83.69	1.18	KA 37	6	0.7	2834	1854	0.90		
12	138	72.54	1.36	KAF37	6	0.8	2535	1658	1.0		
13	124	106.38	1.52			1.0	2163	1415	1.2	K 87R57	4
14	114	97.81	1.65			1.1	1879	1229	1.4	KF 87R57	4
17	97	83.69	1.93			1.3	1648	1078	1.5	KA 87R57	4
19	84	72.54	2.2			1.5	1454	951	1.7	KAF87R57	4
21	79	67.80	2.4			1.7	1280	837	2.0		
24	68	58.60	2.8			1.9	1110	726	2.3		
28	58	49.79	3.2			2.2	975	638	2.6		
31	52	44.46	3.6			1.3	1610	1053	0.9		
37	44	37.97	4.3			1.5	1413	924	1.0		
39	41	35.57	4.5	K 37	4	1.7	1246	815	1.2		
46	35	29.96	5.4	KF 37	4	2.0	1084	709	1.3		
48	34	28.83	5.6	KA 37	4	2.2	951	622	1.5		
56	29	24.99	6.5	KAF37	4	2.5	844	552	1.7		
60	27	23.36	6.7			2.9	741	485	2.0	K 77R37	4
69	23	20.19	7.4			3.2	654	428	2.2	KF 77R37	4
81	20	17.15	8.5			3.9	547	358	2.7	KA 77R37	4
91	18	15.31	9.2			4.3	489	320	3.0	KAF77R37	4
106	15	13.08	10			4.9	433	283	3.4		
114	14	12.14	11			5.7	376	246	3.9		
133	12	10.49	12			6.4	330	216	4.4		
156	10	8.91	15			7.3	292	191	5.0		
175	9	7.96	16			8.2	260	170	5.6		
0.25kW						0.25kW					
0.14	15010	9819	0.81			2.3	937	613	0.8		
0.16	12907	8443	0.95			2.6	829	542	0.9		
0.19	11438	7482	1.07			3.0	720	471	1.1	K 67R37	4
0.21	10036	6565	1.2	K 127R77	4	3.3	642	420	1.2	KF 67R37	4
0.24	8872	5804	1.4	KF 127R77	4	3.9	552	361	1.4	KA 67R37	4
0.28	7685	5027	1.6	KA 127R77	4	4.3	494	323	1.6	KAF67R37	4
0.31	6761	4423	1.8	KAF127R77	4	5.1	416	272	1.9		
0.37	5811	3801	2.1			5.8	367	240	2.1		
0.43	4948	3237	2.5			6.4	332	217	2.3		
0.23	9320	6097	0.81			3.3	644	421	0.9		
0.25	8533	5582	0.88			3.8	553	362	1.0		
0.27	7743	5065	1.0			4.4	488	319	1.2		
0.32	6572	4299	1.1			5.1	417	273	1.4		
0.37	5743	3757	1.3			5.8	367	240	1.5	K 57R37	4
0.43	4947	3236	1.5	K 107R77	4	6.5	329	215	1.7	KF 57R37	4
0.48	4386	2869	1.7	KF 107R77	4	7.2	294	192	1.9	KA 57R37	4
0.56	3828	2504	2.0	KA 107R77	4	8.4	254	166	2.2	KAF57R37	4
0.63	3368	2203	2.2	KAF107R77	4	9.9	216	141	2.6		
0.74	2857	1869	2.6			11	193	126	2.9		
0.82	2582	1689	2.9			13	165	108	3.4		
0.91	2343	1533	3.2			15	145	95	3.9		
1.06	2013	1317	3.7			4.2	536	154.02	2.7	K 77	8
0.45	4751	3108	0.9			4.8	471	135.28	3.1	KF 77	8
0.50	4215	2757	1.0	K 97R57	4	5.0	447	128.52	3.3	KA 77	8
0.57	3698	2419	1.1	KF 97R57	4	5.7	395	113.56	3.7	KAF77	8
0.65	3245	2123	1.2	KA 97R57	4	4.4	507	192.18	2.9	K 77	6
0.75	2837	1856	1.4	KAF97R57	4	4.7	474	179.37	3.1	KF 77	6
						5.5	407	154.02	3.6	KA 77	6
						6.3	357	135.28	4.1	KAF77	6



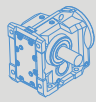
Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p
0.25kW						0.37kW					
5.2	430	123.54	1.8	K 67	8	0.19	16930	7483	0.72		
6.0	376	108.03	2.1	KF 67	8	0.21	14853	6565	0.82		
6.3	357	102.62	2.2	KA 67	8	0.24	13131	5804	0.93	K 127R77	4
7.2	313	90.04	2.5	KAF67	8	0.28	11373	5027	1.07	KF 127R77	4
						0.31	10007	4423	1.22	KA 127R77	4
5.9	382	144.79	2.0	K 67	6	0.37	8600	3801	1.42	KAF127R77	4
6.9	326	123.54	2.4	KF 67	6	0.43	7324	3237	1.67		
7.9	285	108.03	2.7	KA 67	6	0.72	4357	1926	2.80		
8.3	271	102.62	2.8	KAF67	6	0.79	3975	1757	3.07		
						0.90	3486	1541	3.51		
9.6	234	144.79	3.3	K 67	4	0.37	8500	3757	0.88		
11	199	123.54	3.9	KF 67	4	0.43	7321	3236	1.03		
13	174	108.03	4.4	KA 67	4	0.48	6491	2869	1.16		
14	166	102.62	4.7	KAF67	4	0.56	5665	2504	1.33	K 107R77	4
5.9	383	145.14	1.5	K 57	6	0.63	4984	2203	1.51	KF 107R77	4
6.9	327	123.85	1.7	KF 57	6	0.74	4229	1869	1.78	KA 107R77	4
7.8	286	108.29	2.0	KA 57	6	0.82	3821	1689	1.97	KAF107R77	4
8.3	272	102.88	2.1	KAF57	6	0.91	3468	1533	2.2		
9.4	238	90.26	2.4			1.06	2980	1317	2.5		
11	202	76.56	2.8			1.21	2602	1150	2.9		
9.6	234	145.14	2.4			0.65	4803	2123	0.84		
11	200	123.85	2.8	K 57	4	0.75	4199	1856	0.96		
13	175	108.29	3.2	KF 57	4	0.86	3676	1625	1.10		
14	166	102.88	3.4	KA 57	4	0.97	3235	1430	1.25	K 97R57	4
15	146	90.26	3.9	KAF57	4	1.1	2853	1261	1.42	KF 97R57	4
18	124	76.56	4.6			1.3	2493	1102	1.62	KA 97R57	4
						1.5	2165	957	1.87	KAF97R57	4
6.4	348	131.87	1.08	K 47	6	1.6	1934	855	2.1		
7.0	321	121.48	1.17	KF 47	6	1.9	1681	743	2.4		
8.1	276	104.37	1.36	KA 47	6	2.1	1473	651	2.7		
9.4	240	90.86	1.57	KAF47	6	2.4	1296	573	3.1		
10	225	85.12	1.67								
11	213	131.87	1.77	K 47	4	1.0	3201	1415	0.79		
11	196	121.48	1.92	KF 47	4	1.1	2781	1229	0.91		
13	169	104.37	2.2	KA 47	4	1.3	2439	1078	1.04		
15	147	90.86	2.6	KAF47	4	1.5	2152	951	1.18	K 87R57	4
16	137	85.12	2.7			1.7	1894	837	1.34	KF 87R57	4
						1.9	1643	726	1.55	KA 87R57	4
10	221	83.69	0.9	K 37	6	2.2	1443	638	1.76	KAF87R57	4
12	192	72.54	1.0	KF 37	6	2.5	1272	562	2.0		
13	179	67.80	1.1	KA 37	6	2.9	1072	474	2.4		
15	155	58.60	1.2	KAF37	6	3.3	964	426	2.6		
17	131	49.79	1.4			3.7	844	373	3.0		
13	172	106.38	1.1			1.7	1844	815	0.79		
14	158	97.81	1.2			2.0	1604	709	0.91		
17	135	83.69	1.4			2.2	1407	622	1.04		
19	117	72.54	1.6			2.5	1249	552	1.17		
21	109	67.80	1.7			2.9	1097	485	1.33	K 77R37	4
24	95	58.60	2.0			3.2	968	428	1.50	KF 77R37	4
28	80	49.79	2.3			3.9	810	358	1.80	KA 77R37	4
31	72	44.46	2.6			4.3	724	320	2.0	KAF77R37	4
37	61	37.97	3.1			4.9	640	283	2.3		
39	57	35.57	3.3	K 37	4	5.7	557	246	2.6		
46	48	29.96	3.9	KF 37	4	6.4	489	216	3.0		
48	47	28.83	4.0	KA 37	4	7.3	432	191	3.4		
56	40	24.99	4.7	KAF37	4	8.2	385	170	3.8		
60	38	23.36	4.9			9.3	339	150	4.3		
69	33	20.19	5.3								
81	28	17.15	6.1			3.3	950	420	0.81		
91	25	15.31	6.7			3.9	817	361	0.94		
106	21	13.08	7.3			4.3	731	323	1.05	K 67R37	4
114	20	12.14	7.7			5.1	615	272	1.25	KF 67R37	4
133	17	10.49	8.9			5.8	543	240	1.42	KA 67R37	4
156	14	8.91	10			6.4	491	217	1.57	KAF67R37	4
175	13	7.96	11			7.3	432	191	1.78		
204	11	6.80	13			8.4	376	166	2.05		
218	10	6.37	13			9.7	326	144	2.37		
						12	269	119	2.86		

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Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p
0.37kW						0.37kW					
5.1	618	273	0.91			8.5	392	104.37	0.96	K 47	6
5.8	543	240	1.04			9.7	341	90.86	1.10	KF 47	6
6.5	486	215	1.16	K 57R37	4	10	319	85.12	1.18	KA 47	6
7.2	434	192	1.30	KF 57R37	4	12	282	75.2	1.33	KAF47	6
8.4	376	166	1.50	KA 57R37	4	11	315	131.87	1.19		
9.9	319	141	1.77	KAF57R37	4	12	290	121.48	1.30		
11	285	126	1.98			13	249	104.37	1.51	K 47	4
13	244	108	2.3			15	217	90.86	1.73	KF 47	4
15	215	95	2.6			16	203	85.12	1.85	KA 47	4
3.8	868	174.99	2.9	K 87	8	18	180	75.20	2.1	KAF47	4
4.1	813	164.05	3.1	KF 87	8	20	167	69.84	2.3		
4.6	729	147.09	3.5	KA 87	8	22	151	63.30	2.5		
				KAF87	8	14	234	97.81	0.80		
4.5	740	197.27	3.4	K 87	6	17	200	83.69	0.94		
5.1	657	174.99	3.9	KF 87	6	19	173	72.54	1.08		
				KA 87	6	21	162	67.80	1.16		
				KAF87	6	24	140	58.60	1.34		
5.0	671	135.28	2.2	K 77	8	28	119	49.79	1.58		
5.2	637	128.52	2.3	KF 77	8	31	106	44.46	1.77		
5.9	563	113.56	2.6	KA 77	8	37	91	37.97	2.07		
6.9	481	97.05	3.0	KAF77	8	39	85	35.57	2.21	K 37	4
						46	72	29.96	2.63	KF 37	4
5.7	578	154.02	2.5	K 77	6	48	69	28.83	2.73	KA 37	4
6.5	508	135.28	2.9	KF 77	6	56	60	24.99	3.15	KAF37	4
6.9	482	128.52	3.0	KA 77	6	60	56	23.36	3.28		
7.8	426	113.56	3.4	KAF77	6	69	48	20.19	3.60		
						81	41	17.15	4.13		
7.23	459	192.18	3.2	K 77	4	91	37	15.31	4.5		
7.75	429	179.37	3.4	KF 77	4	106	31	13.08	5.0		
9.02	368	154.02	4.0	KA 77	4	114	29	12.14	5.2		
				KAF77	4	133	25	10.49	6.0		
6.2	536	108.03	1.44	K 67	8	156	21	8.91	7.1		
6.5	509	102.62	1.52	KF 67	8	175	19	7.96	7.7		
7.4	446	90.04	1.73	KA 67	8	204	16	6.80	8.7		
				KAF67	8	218	15	6.37	9.0		
7.2	464	123.54	1.66	K 67	6	259	13	5.56	10		
8.2	405	108.03	1.90	KF 67	6	0.55kW					
8.6	385	102.62	2.0	KA 67	6	0.08	57099	16978	0.82		
9.8	338	90.04	2.3	KAF67	6	0.10	47998	14272	0.98	K 187R97	4
						0.11	44111	13116	1.07	KA 187R97	4
9.6	346	144.79	2.2	K 67	4	0.12	39170	11647	1.20		
11	295	123.54	2.6	KF 67	4	0.19	24662	7333	1.9		
13	258	108.03	3.0	KA 67	4	0.12	38783	11532	0.78		
15	215	90.04	3.6	KAF67	4	0.14	34395	10227	0.87		
18	182	76.37	4.2			0.16	28913	8597	1.04	K 167R97	4
						0.21	21988	6538	1.37	KA 167R97	4
7.1	465	123.85	1.2	K 57	6	0.26	18046	5366	1.67		
8.2	406	108.29	1.4	KF 57	6	0.34	13651	4059	2.2		
8.6	386	102.88	1.5	KA 57	6	0.20	23142	6881	0.73	K 157R97	4
10	339	90.26	1.7	KAF57	6	0.23	19947	5931	0.85	KF 157R97	4
12	287	76.56	2.0			0.35	13365	3974	1.27	KA 157R97	4
13	259	69.12	2.2			0.46	10247	3047	1.65	KAF157R97	4
						0.31	14875	4423	0.82		
9.6	347	145.14	1.6	K 57	4	0.37	12783	3801	0.96		
11	296	123.85	1.9	KF 57	4	0.43	10886	3237	1.12		
13	259	108.29	2.2	KA 57	4	0.47	9891	2941	1.24		
14	246	102.88	2.3	KAF57	4	0.55	8569	2548	1.43	K 127R77	4
15	216	90.26	2.6			0.72	6477	1926	1.89	KF 127R77	4
18	183	76.56	3.1			0.79	5909	1757	2.1	KA 127R77	4
20	165	69.12	3.4			0.90	5183	1541	2.4	KAF127R77	4
						1.0	4513	1342	2.7		
						1.2	3958	1177	3.1		
						1.4	3447	1025	3.5		



Output speed	Output torque	Ratio	Service factor	Type	Pole	Output speed	Output torque	Ratio	Service factor	Type	Pole
r/min	Nm	i	f _B	Type	p	r/min	Nm	i	f _B	Type	p
0.55kW						0.55kW					
0.48	9649	2869	0.78			3.8	1290	174.99	2.0	K 87	8
0.56	8421	2504	0.89			4.1	1209	164.05	2.1	KF 87	8
0.63	7409	2203	1.01			4.5	1084	147.09	2.3	KA 87	8
0.74	6286	1869	1.20							KAF87	8
0.82	5680	1689	1.32	K 107R77	4	4.5	1101	197.27	2.3	K 87	6
0.91	5156	1533	1.46	KF 107R77	4	5.1	976	174.99	2.6	KF 87	6
1.1	4429	1317	1.70	KA 107R77	4	5.4	915	164.05	2.8	KA 87	6
1.2	3868	1150	1.94	KAF107R77	4	6.0	821	147.09	3.1	KAF87	6
1.4	3414	1015	2.2			6.5	755	135.28	1.9	K 77	8
1.6	2929	871	2.6			6.9	717	128.52	2.0	KF 77	8
1.8	2630	782	2.9			7.8	634	113.56	2.3	KA 77	8
2.0	2307	686	3.3			9.1	541	97.05	2.7	KAF77	8
2.3	2038	606	3.7								
1.0	4809	1430	0.8			5.7	859	154.02	1.70	K 77	6
1.1	4241	1261	1.0			6.5	755	135.28	1.93	KF 77	6
1.3	3706	1102	1.1			6.9	717	128.52	2.0	KA 77	6
1.5	3218	957	1.3			7.8	634	113.56	2.3	KAF77	6
1.6	2875	855	1.4	K 97R57	4						
1.9	2499	743	1.6	KF 97R57	4	9.0	547	154.02	2.7	K 77	4
2.1	2189	651	1.8	KA 97R57	4	10	481	135.28	3.0	KF 77	4
2.4	1927	573	2.1	KAF97R57	4	11	457	128.52	3.2	KA 77	4
2.8	1695	504	2.4			12	403	113.56	3.6	KAF77	4
3.2	1470	437	2.8			14	345	97.05	4.2		
3.6	1285	382	3.1								
4.6	1026	305	3.9			7.2	689	123.54	1.12	K 67	6
						8.2	603	108.03	1.28	KF 67	6
						8.6	573	102.62	1.35	KA 67	6
						10	502	90.04	1.53	KAF67	6
						12	426	76.37	1.81		
						11	439	123.54	1.76	K 67	4
						13	384	108.03	2.0	KF 67	4
						15	320	90.04	2.4	KA 67	4
						18	271	76.37	2.8	KAF67	4
						8.2	604	108.29	0.93		
						8.6	574	102.88	0.98		
						9.8	504	90.26	1.12	K 57	6
						12	427	76.56	1.32	KF 57	6
						13	386	69.12	1.46	KA 57	6
						14	339	60.81	1.66	KAF57	6
						15	320	57.42	1.76		
						11	440	123.85	1.28		
						13	385	108.29	1.47		
						14	365	102.88	1.54	K 57	4
						15	321	90.26	1.76	KF 57	4
						18	272	76.56	2.1	KA 57	4
						20	246	69.12	2.3	KAF57	4
						23	216	60.81	2.6		
						24	204	57.42	2.8		
						13	371	104.37	1.01		
						15	323	90.86	1.17		
						16	302	85.12	1.24	K 47	4
						18	267	75.20	1.41	KF 47	4
						20	248	69.84	1.52	KA 47	4
						22	225	63.30	1.67	KAF47	4
						24	202	56.83	1.86		
						28	174	48.95	2.2		
						30	164	46.03	2.3		
						24	208	58.6	0.90	K 37	4
						28	177	49.79	1.06	KF 37	4
						31	158	44.46	1.19	KA 37	4
						37	135	37.97	1.39	KAF37	4

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Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p
0.55kW						0.75kW					
39	126	35.57	1.49			1.9	3329	726	0.76		
46	106	29.96	1.77			2.2	2926	638	0.87		
48	102	28.83	1.84			2.5	2577	562	0.98		
56	89	24.99	2.1	K 37	4	2.9	2174	474	1.17	K 87R57	4
60	83	23.36	2.2	KF 37	4	3.3	1954	426	1.30	KF 87R57	4
69	72	20.19	2.4	KA 37	4	3.7	1711	373	1.48	KA 87R57	4
81	61	17.15	2.8	KAF37	4	4.2	1513	330	1.68	KAF87R57	4
91	54	15.31	3.0			4.7	1344	293	1.89		
106	46	13.08	3.3			5.6	1147	250	2.2		
114	43	12.14	3.5			5.9	1082	236	2.3		
133	37	10.49	4.0			6.9	922	201	2.8		
156	32	8.91	4.8								
175	28	7.96	5.2			3.9	1642	358	0.89		
204	24	6.80	5.8			4.3	1468	320	0.99	K 77R37	4
218	23	6.37	6.0			4.9	1298	283	1.12	KF 77R37	4
259	19	5.36	6.9			5.7	1128	246	1.29	KA 77R37	4
						6.4	991	216	1.47	KAF77R37	4
0.75kW						0.75kW					
0.11	60151	13116	0.78			3.9	1737	175.47	2.3	K 97	8
0.12	53414	11647	0.88			4.4	1508	152.31	2.7	KF 97	8
0.19	33630	7333	1.40	K 187R97	4	4.8	1389	140.28	2.9	KA 97	8
0.21	30901	6738	1.52	KA 187R97	4					KAF97	8
0.23	27443	5984	1.71								
0.16	39426	8597	0.76			4.6	1456	147.09	1.7	K 87	8
0.21	29984	6538	1.00	K 167R97	4	5.4	1254	126.68	2.0	KF 87	8
0.26	24609	5366	1.22	KA 167R97	4	5.9	1140	115.16	2.2	KA 87	8
0.34	18615	4059	1.62			6.6	1017	102.71	2.5	KAF87	8
0.41	15405	3359	1.95								
0.35	18225	3974	0.93	K 157R97	4	5.2	1295	174.99	2.0	K 87	6
0.46	13974	3047	1.21	KF 157R97	4	5.5	1214	164.05	2.1	KF 87	6
0.83	7705	1680	2.2	KA 157R97	4	6.2	1088	147.09	2.3	KA 87	6
1.02	6260	1365	2.7	KAF157R97	4	7.2	937	126.68	2.7	KAF87	6
0.43	14845	3237	0.82								
0.47	13488	2941	0.91			7.0	956	197.27	2.7	K 87	4
0.55	11685	2548	1.05			8.0	848	174.99	3.0	KF 87	4
0.72	8833	1926	1.38	K 127R77	4	8.5	795	164.05	3.2	KA 87	4
0.79	8058	1757	1.52	KF 127R77	4	9.4	712	147.09	3.6	KAF87	4
0.90	7067	1541	1.73	KA 127R77	4						
1.0	6154	1342	1.99	KAF127R77	4	6.7	1001	135.28	1.46		
1.2	5398	1177	2.3			7.1	951	128.52	1.53	K 77	6
1.4	4701	1025	2.6			7.9	840	113.56	1.73	KF 77	6
1.5	4123	899	3.0			8.0	840	113.56	1.73	KA 77	6
						9.4	718	97.05	2.0	KAF77	6
						10	658	88.97	2.2		
0.82	7746	1689	0.97								
0.91	7030	1533	1.07			9.0	746	154.02	1.95	K 77	4
1.1	6040	1317	1.25			10	655	135.28	2.2	KF 77	4
1.2	5274	1150	1.43	K 107R77	4	11	623	128.52	2.3	KA 77	4
1.4	4655	1015	1.62	KF 107R77	4	12	550	113.56	2.6	KAF77	4
1.6	3994	871	1.88	KA 107R77	4	14	470	97.05	3.1		
1.8	3586	782	2.1	KAF107R77	4						
2.0	3146	686	2.4			11	598	123.54	1.29		
2.3	2779	606	2.7			13	523	108.03	1.47		
						15	436	90.04	1.77	K 67	4
1.3	5054	1102	0.8			18	370	76.37	2.1	KF 67	4
1.5	4389	957	0.9			20	334	68.95	2.3	KA 67	4
1.6	3921	855	1.0			23	294	60.66	2.6	KAF67	4
1.9	3407	743	1.2	K 97R57	4	24	277	57.28	2.8		
2.1	2986	651	1.4	KF 97R57	4						
2.4	2628	573	1.5	KA 97R57	4	11	600	123.85	0.9		
2.8	2311	504	1.7	KAF97R57	4	13	525	108.29	1.1		
3.2	2004	437	2.0			14	498	102.88	1.1		
3.6	1752	382	2.3			15	437	90.26	1.3	K 57	4
4.6	1399	305	2.9			18	371	76.56	1.5	KF 57	4
5.4	1183	258	3.4			20	335	69.12	1.7	KA 57	4
6.0	1064	232	3.8			23	295	60.81	1.9	KAF57	4
7.0	913	199	4.4			24	278	57.42	2.0		
						28	237	48.89	2.4		
						31	215	44.43	2.6		



Output speed	Output torque	Ratio	Service factor	Type	Pole	Output speed	Output torque	Ratio	Service factor	Type	Pole
r/min	Nm	i	f _B	Type	p	r/min	Nm	i	f _B	Type	p
0.75kW						1.1kW					
18	364	75.2	1.03			1.5	6047	899	2.0		
20	338	69.84	1.11			1.8	5314	790	2.3	K 127R77	4
22	307	63.30	1.23	K 47	4	2.0	4641	690	2.6	KF 127R77	4
24	275	56.83	1.37	KF 47	4	2.3	4029	599	3.0	KA 127R77	4
28	237	48.95	1.59	KA 47	4	2.6	3625	539	3.4	KAF127R77	4
30	223	46.03	1.69	KAF47	4	3.0	3148	468	3.9		
35	192	39.61	1.96			1.2	7735	1150	1.0		
39	171	35.39	2.2			1.4	6827	1015	1.1		
45	151	31.19	2.5			1.6	5859	871	1.3		
31	215	44.46	0.87			1.8	5260	782	1.4	K 107R77	4
37	184	37.97	1.02			2.0	4614	686	1.6	KF 107R77	4
39	172	35.57	1.09			2.3	4076	606	1.8	KA 107R77	4
46	145	29.96	1.30			2.7	3464	515	2.2	KAF107R77	4
48	140	28.83	1.35			3.1	3060	455	2.5		
56	121	24.99	1.55			3.5	2704	402	2.8		
60	113	23.36	1.62			4.0	2361	351	3.2		
69	98	20.19	1.78	K 37	4	4.5	2065	307	3.6		
81	83	17.15	2.0	KF 37	4	1.9	4998	743	0.81		
91	74	15.31	2.2	KA 37	4	2.1	4379	651	0.92		
106	63	13.08	2.4	KAF37	4	2.4	3854	573	1.05	K 97R57	4
114	59	12.14	2.6			2.8	3390	504	1.19	KF 97R57	4
133	51	10.49	3.0			3.2	2939	437	1.38	KA 97R57	4
156	43	8.91	3.5			3.6	2569	382	1.57	KAF97R57	4
175	39	7.96	3.8			4.1	2300	342	1.76		
204	33	6.80	4.3			2.9	3188	474	0.80		
218	31	6.37	4.4			3.3	2865	426	0.89		
259	26	5.36	5.1			3.7	2509	373	1.01	K 87R57	4
1.1kW						4.2	2220	330	1.14	KF 87R57	4
0.15	62528	9363	0.75			4.7	1971	293	1.29	KA 87R57	4
0.17	54267	8126	0.87			5.6	1682	250	1.51	KAF87R57	4
0.19	48971	7333	0.96	K 187R97	4	5.9	1587	236	1.60		
0.21	44998	6738	1.04	KA 187R97	4	6.9	1352	201	1.88		
0.23	39962	5984	1.18			3.9	2548	175.47	1.6	K 97	8
0.26	35728	5350	1.32			4.4	2212	152.31	1.8	KF 97	8
0.29	32122	4810	1.46			4.8	2037	140.28	2.0	KA 97	8
0.32	29144	4364	1.61			5.5	1810	124.61	2.2	KAF97	8
0.26	35835	5366	0.84			5.2	1904	175.47	2.1	K 97	6
0.29	32042	4798	0.94			5.9	1653	152.31	2.4	KF 97	6
0.34	27107	4059	1.11			6.5	1522	140.28	2.7	KA 97	6
0.42	22432	3359	1.34	K 167R97	4	7.3	1352	124.61	3.0	KAF97	6
0.51	18305	2741	1.64	KA 167R97	4	8.0	1238	175.47	3.3	K 97	4
0.64	14518	2174	2.1			9.1	1074	152.31	3.7	KF 97	4
0.82	11340	1698	2.7			10	989	140.28	4.1	KA 97	4
1.00	9363	1402	3.2			10	989	140.28	4.1	KAF97	4
1.08	8622	1291	3.5			5.2	1899	174.99	1.34	K 87	6
0.40	23480	3516	0.72			5.5	1780	164.05	1.42	KF 87	6
0.46	20375	3051	0.83			6.2	1596	147.09	1.59	KA 87	6
0.54	17430	2610	0.97			7.2	1375	126.68	1.84	KAF87	6
0.60	15507	2322	1.09	K 157R97	4	8.0	1234	174.99	2.1	K 87	4
0.83	11219	1680	1.51	KF 157R97	4	8.5	1157	164.05	2.2	KF 87	4
1.0	9116	1365	1.86	KA 157R97	4	9.5	1037	147.09	2.4	KA 87	4
1.1	8207	1229	2.1	KAF157R97	4	11	894	126.68	2.8	KAF87	4
1.3	7299	1093	2.3			12	812	115.16	3.1		
1.5	6291	942	2.7			6.7	1468	135.28	0.99	K 77	6
1.6	5703	854	3.0			7.1	1395	128.52	1.04	KF 77	6
0.72	12955	1926	0.9			8.0	1232	113.56	1.18	KA 77	6
0.79	11818	1757	1.0	K 127R77	4	9.4	1053	97.05	1.38	KAF77	6
0.90	10365	1541	1.2	KF 127R77	4						
1.0	9027	1342	1.4	KA 127R77	4						
1.2	7917	1177	1.5	KAF127R77	4						
1.4	6894	1025	1.8								

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Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p
1.1kW						1.5kW					
10	954	135.28	1.53			0.21	61360	6738	0.77		
11	906	128.52	1.61	K 77	4	0.23	54494	5984	0.86		
12	801	113.56	1.82	KF 77	4	0.26	48720	5350	0.96		
14	685	97.05	2.1	KA 77	4	0.29	43803	4810	1.07	K 187R97	4
16	628	88.97	2.3	KAF77	4	0.32	39741	4364	1.18	KA 187R97	4
18	551	78.07	2.6			0.39	32866	3609	1.43		
19	522	73.99	2.8			0.46	27884	3062	1.69		
						0.56	22940	2519	2.0		
						0.62	20654	2268	2.3		
13	762	108.03	1.01			0.34	36964	4059	0.81		
14	724	102.62	1.06			0.42	30589	3359	0.98		
16	635	90.04	1.21			0.51	24961	2741	1.21		
18	539	76.37	1.43	K 67	4	0.64	19798	2174	1.52	K 167R97	4
20	486	68.95	1.58	KF 67	4	0.82	15463	1698	1.95	KA 167R97	4
23	428	60.66	1.80	KA 67	4	1.0	12767	1402	2.4		
24	404	57.28	1.91	KAF67	4	1.1	11757	1291	2.6		
29	344	48.77	2.2			0.6	21118	2319	0.8		
32	313	44.32	2.5			0.8	15299	1680	1.1		
36	271	38.39	2.8			1.0	12431	1365	1.4	K 157R97	4
16	637	90.26	0.89			1.1	11192	1229	1.5	KF 157R97	4
18	540	76.56	1.04			1.3	9954	1093	1.7	KA 157R97	4
20	488	69.12	1.16			1.5	8578	942	2.0	KAF157R97	4
23	429	60.81	1.31			1.6	7777	854	2.2		
24	405	57.42	1.39			2.5	5145	565	3.3		
29	345	48.89	1.64			2.8	4581	503	3.7		
32	313	44.43	1.80			2.6	4881	536	2.5	K 127R87	4
36	271	38.49	2.1			3.3	3807	418	3.2	KF 127R87	4
39	252	35.70	2.2			3.8	3342	367	3.7	KA 127R87	4
46	214	30.28	2.6							KAF127R87	4
51	193	27.34	2.9	K 57	4	0.80	16000	1757	0.76		
58	170	24.05	3.3	KF 57	4	0.91	14033	1541	0.87		
62	160	22.71	3.5	KA 57	4	1.0	12221	1342	1.00		
72	136	19.34	4.0	KAF57	4	1.2	10718	1177	1.14		
80	124	17.57	4.2			1.4	9334	1025	1.31	K 127R77	4
92	107	15.22	4.6			1.6	8187	899	1.49	KF 127R77	4
106	93	13.25	4.7			1.8	7194	790	1.70	KA 127R77	4
117	84	11.92	4.9			2.0	6284	690	1.94	KAF127R77	4
124	79	11.26	5.1			2.3	5455	599	2.2		
146	68	9.59	5.6			2.6	4908	539	2.5		
161	61	8.71	6.0			3.0	4262	468	2.9		
185	53	7.55	6.4			3.4	3734	410	3.3		
213	46	6.57	7.0			1.4	9243	1015	0.8		
25	401	56.83	0.94			1.6	7932	871	0.9		
29	345	48.95	1.09			1.8	7121	782	1.1		
30	325	46.03	1.16			2.0	6247	686	1.2	K 107R77	4
35	279	39.61	1.35	K 47	4	2.3	5519	606	1.4	KF 107R77	4
40	250	35.39	1.51	KF 47	4	2.7	4690	515	1.6	KA 107R77	4
45	220	31.19	1.71	KA 47	4	3.1	4144	455	1.8	KAF107R77	4
48	207	29.32	1.82	KAF47	4	3.5	3661	402	2.1		
54	183	25.91	2.1			4.0	3196	351	2.4		
64	154	21.81	2.4			4.6	2796	307	2.7		
72	138	19.58	2.7			2.4	5218	573	0.8		
47	211	29.96	0.89			2.8	4590	504	0.9		
56	176	24.99	1.07			3.2	3980	437	1.0		
60	165	23.36	1.11			3.7	3479	382	1.2	K 97R57	4
69	142	20.19	1.22			4.1	3114	342	1.3	KF 97R57	4
82	121	17.15	1.40			4.6	2778	305	1.5	KA 97R57	4
91	108	15.31	1.52	K 37	4	5.4	2350	258	1.7	KAF97R57	4
107	92	13.08	1.68	KF 37	4	6.0	2113	232	1.9		
115	86	12.14	1.76	KA 37	4	7.0	1812	199	2.2		
133	74	10.49	2.0	KAF37	4						
157	63	8.91	2.4								
176	56	7.96	2.6								
206	48	6.80	2.9								
220	45	6.37	3.0								
261	38	5.36	3.5								

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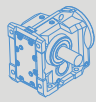
Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p
1.5kW						1.5kW					
4.2	3005	330	0.84	K 87R57	4	23	585	60.81	0.96		
4.8	2668	293	0.95	KF 87R57	4	24	552	57.42	1.02		
5.6	2277	250	1.11	KA 87R57	4	29	470	48.89	1.20		
5.9	2149	236	1.18	KAF87R57	4	32	427	44.43	1.32	K 57	4
7.0	1830	201	1.39			36	370	38.49	1.52	KF 57	4
7.7	1667	183	1.52			39	343	35.70	1.64	KA 57	4
						46	291	30.28	1.94	KAF57	4
4.9	2770	141.93	2.7	K 107	8	51	263	27.34	2.1		
5.8	2334	119.58	3.2	KF 107	8	58	231	24.05	2.4		
6.2	2163	110.83	3.5	KA 107	8	62	218	22.71	2.6		
				KAF107	8	72	186	19.34	2.9		
4.5	2972	152.31	1.36	K 97	8	35	381	39.61	0.99		
4.9	2738	140.28	1.48	KF 97	8	40	340	35.39	1.10		
5.5	2432	124.61	1.66	KA 97	8	45	300	31.19	1.25		
				KAF97	8	48	282	29.32	1.33	K 47	4
5.2	2569	175.47	1.57	K 97	6	54	249	25.91	1.51	KF 47	4
6.0	2229	152.31	1.81	KF 97	6	64	210	21.81	1.79	KA 47	4
6.6	2053	140.28	1.97	KA 97	6	72	188	19.58	2.0	KAF47	4
7.4	1824	124.61	2.2	KAF97	6	83	162	16.86	2.2		
8.0	1688	175.47	2.4	K 97	4	88	153	15.86	2.3		
9.2	1465	152.31	2.7	KF 97	4	103	131	13.65	2.6		
10	1349	140.28	3.0	KA 97	4	115	117	12.19	2.8		
11	1199	124.61	3.4	KAF97	4	119	113	11.77	3.0		
6.3	2153	147.09	1.18	K 87	6	60	225	23.36	0.82		
7.2	1854	126.68	1.37	KF 87	6	69	194	20.19	0.90		
7.9	1686	115.16	1.50	KA 87	6	82	165	17.15	1.03		
9.0	1503	102.71	1.69	KAF87	6	91	147	15.31	1.12	K 37	4
8.0	1683	174.99	1.51			107	126	13.08	1.23	KF 37	4
8.5	1578	164.05	1.61			115	117	12.14	1.29	KA 37	4
9.5	1415	147.09	1.79	K 87	4	133	101	10.49	1.49	KAF37	4
11	1218	126.68	2.1	KF 87	4	157	86	8.91	1.75		
12	1108	115.16	2.3	KA 87	4	176	77	7.96	1.90		
14	988	102.71	2.6	KAF87	4	206	65	6.80	2.2		
16	830	86.34	3.1			220	61	6.37	2.2		
						261	52	5.36	2.6		
8.0	1680	113.56	0.87	K 77	6	2.2kW					
9.4	1436	97.05	1.01	KF 77	6	0.33	57466	4364	0.82		
10	1317	88.97	1.11	KA 77	6	0.39	47524	3609	0.99		
12	1155	78.07	1.26	KAF77	6	0.46	40321	3062	1.17		
10	1301	135.28	1.12			0.50	37108	2818	1.27		
11	1236	128.52	1.18			0.56	33171	2519	1.42	K 187R97	4
12	1092	113.56	1.33			0.63	29866	2268	1.57	KA 187R97	4
14	933	97.05	1.56			0.69	27048	2054	1.74		
16	856	88.97	1.70	K 77	4	0.78	23979	1821	1.96		
18	751	78.07	1.94	KF 77	4	0.88	21135	1605	2.2		
19	712	73.99	2.0	KA 77	4						
22	623	64.75	2.3	KAF77	4	0.52	36094	2741	0.83		
24	561	58.34	2.6			0.63	29655	2252	1.01		
27	492	51.18	3.0			0.65	28628	2174	1.05	K 167R97	4
31	434	45.16	3.4			0.84	22360	1698	1.35	KA 167R97	4
35	385	40.04	3.8			1.0	18462	1402	1.63		
16	866	90.04	0.89			1.1	17000	1291	1.77		
18	735	76.37	1.05			1.3	14498	1101	2.1		
20	663	68.95	1.16			1.5	12431	944	2.4		
23	583	60.66	1.32			0.85	22123	1680	0.76		
24	551	57.28	1.40	K 67	4	1.0	17975	1365	0.94	K 157R97	4
29	469	48.77	1.64	KF 67	4	1.2	16184	1229	1.05	KF 157R97	4
32	426	44.32	1.81	KA 67	4	1.3	14393	1093	1.18	KA 157R97	4
36	369	38.39	2.1	KAF67	4	1.5	12404	942	1.36	KAF157R97	4
39	343	35.62	2.2			1.7	11246	854	1.50		
46	291	30.22	2.7			1.9	9955	756	1.70		
51	262	27.28	2.9								
58	231	24.00	3.3								

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Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p
2.2kW						2.2kW					
2.6	7058	536	1.73	K 127R87	4	40	490	35.20	3.0	K 77	4
3.0	6229	473	1.96	KF 127R87	4	46	430	30.89	3.4	KF 77	4
3.4	5504	418	2.2	KA 127R87	4	49	407	29.27	3.6	KA 77	4
3.9	4833	367	2.5	KAF127R87	4	55	356	25.62	4.1	KAF77	4
4.3	4346	330	2.8								
1.4	13497	1025	0.91			23	844	60.66	0.91		
1.6	11838	899	1.03			25	797	57.28	0.97		
1.8	10403	790	1.17	K 127R77	4	29	678	48.77	1.14		
2.1	9086	690	1.34	KF 127R77	4	32	616	44.32	1.25		
2.4	7888	599	1.55	KA 127R77	4	37	534	38.39	1.44		
2.6	7098	539	1.72	KAF127R77	4	40	495	35.62	1.56		
3.0	6163	468	1.98			47	420	30.22	1.83		
3.5	5399	410	2.3			52	379	27.28	2.0		
						59	334	24.00	2.3	K 67	4
						63	315	22.66	2.3	KF 67	4
2.3	7980	606	0.94			74	268	19.30	2.7	KA 67	4
2.8	6782	515	1.11			81	244	17.54	2.9	KAF67	4
3.1	5992	455	1.26	K 107R77	4	93	211	15.19	3.1		
3.5	5294	402	1.42	KF 107R77	4	107	184	13.22	3.4		
4.0	4622	351	1.63	KA 107R77	4	116	170	12.24	2.9		
4.6	4043	307	1.86	KAF107R77	4	136	145	10.42	3.2		
5.1	3648	277	2.1			150	132	9.47	3.4		
5.8	3200	243	2.4			173	114	8.20	3.6		
						199	99	7.14	4.0		
3.7	5030	382	0.80			32	618	44.43	0.91		
4.2	4504	342	0.90	K 97R57	4	37	535	38.49	1.05		
4.7	4016	305	1.01	KF 97R57	4	40	497	35.70	1.14		
5.5	3397	258	1.19	KA 97R57	4	47	421	30.28	1.34		
6.1	3055	232	1.32	KAF97R57	4	52	380	27.34	1.48	K 57	4
7.1	2620	199	1.54			59	334	24.05	1.69	KF 57	4
						63	316	22.71	1.79	KA 57	4
5.0	3948	141.93	1.90	K 107	8	73	269	19.34	2.0	KAF57	4
5.9	3326	119.58	2.3	KF 107	8	81	244	17.57	2.1		
6.4	3083	110.83	2.4	KA 107	8	93	212	15.22	2.4		
7.1	2763	99.34	2.7	KAF107	8	107	184	13.25	2.3		
						119	166	11.92	2.4		
6.1	3200	152.31	1.26	K 97	6	126	157	11.26	2.5		
6.7	2947	140.28	1.37	KF 97	6						
7.5	2618	124.61	1.54	KA 97	6						
14	1443	103.78	2.80	KAF97	6						
						55	360	25.91	1.04		
8.1	2440	175.47	1.66			65	303	21.81	1.24		
9.3	2118	152.31	1.91	K 97	4	73	272	19.58	1.38	K 47	4
10	1951	140.28	2.1	KF 97	4	84	234	16.86	1.52	KF 47	4
11	1733	124.61	2.3	KA 97	4	90	221	15.86	1.62	KA 47	4
14	1443	103.78	2.8	KAF97	4	104	190	13.65	1.78	KAF47	4
15	1346	96.80	3.0			116	170	12.19	1.94		
						121	164	11.77	1.61		
9.7	2046	147.09	1.24			134	147	10.56	1.79		
11	1762	126.68	1.44			156	127	9.10	2.1		
12	1602	115.16	1.58	K 87	4						
14	1428	102.71	1.78	KF 87	4						
16	1201	86.34	2.1	KA 87	4						
18	1103	79.34	2.3	KAF87	4						
20	980	70.46	2.6								
23	876	63.00	2.9								
						109	182	13.08	0.85		
13	1579	113.56	0.9			135	146	10.49	1.03	K 37	4
15	1350	97.05	1.08			159	124	8.91	1.21	KF 37	4
16	1237	88.97	1.18			178	111	7.96	1.32	KA 37	4
18	1086	78.07	1.34			209	95	6.80	1.49	KAF37	4
19	1029	73.99	1.42	K 77	4	223	89	6.37	1.54		
22	901	64.75	1.62	KF 77	4	265	75	5.36	1.77		
24	811	58.34	1.80	KA 77	4						
28	712	51.18	2.0	KAF77	4						
31	628	45.16	2.3								
35	557	40.04	2.6								



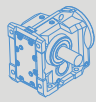
Output speed	Output torque	Ratio	Service factor	Type	Pole	Output speed	Output torque	Ratio	Service factor	Type	Pole
r/min	Nm	i	f _B	Type	p	r/min	Nm	i	f _B	Type	p
3.0kW						3.0kW					
0.46	54983	3062	0.85							K 107	4
0.5	50602	2818	0.93			10	2692	141.93	2.8	KF 107	4
0.56	45233	2519	1.04			12	2268	119.58	3.3	KA 107	4
0.63	40726	2268	1.15	K 187R97	4					KAF107	4
0.69	36883	2054	1.27	KA 187R97	4						
0.78	32699	1821	1.44			7.7	3496	124.61	1.16	K 97	6
0.88	28820	1605	1.63			9.3	2911	103.78	1.39	KF 97	6
1.0	25050	1395	1.88			9.9	2716	96.80	1.49	KA 97	6
1.2	21476	1196	2.2			11	2427	86.52	1.67	KAF97	6
0.84	30490	1698	0.99			8.1	3328	175.47	1.21		
1.0	25175	1402	1.2			9.3	2889	152.31	1.40		
1.1	23182	1291	1.3	K 167R97	4	10	2660	140.28	1.52		
1.3	19770	1101	1.52	KF 167R97	4	11	2363	124.61	1.71		
1.5	16951	944	1.77	KA 167R97	4	14	1968	103.78	2.05	K 97	4
1.7	15137	843	1.99	KAF167R97	4	15	1836	96.80	2.20	KF 97	4
1.9	13593	757	2.2			16	1646	86.52	2.46	KA 97	4
						18	1477	77.89	2.74	KAF97	4
1.2	22069	1229	0.77			20	1338	70.54	3.02		
1.3	19627	1093	0.86			23	1186	62.55	3.41		
1.5	16915	942	1.00	K 157R97	4	25	1072	56.55	3.77		
1.7	15335	854	1.10	KF 157R97	4						
1.9	13575	756	1.25	KA 157R97	4	9.6	2790	147.09	0.91		
2.5	10146	565	1.67	KAF157R97	4	11	2403	126.68	1.06		
2.8	9032	503	1.87			12	2184	115.16	1.16		
						14	1948	102.71	1.30		
2.6	9625	536	1.27			16	1637	86.34	1.55	K 87	4
3.0	8494	473	1.44	K 127R87	4	16	1637	86.34	1.55	KF 87	4
3.4	7506	418	1.63	KF 127R87	4	18	1505	79.34	1.69	KA 87	4
3.9	6590	367	1.85	KA 127R87	4	20	1336	70.46	1.90	KAF87	4
4.3	5926	330	2.1	KAF127R87	4	23	1195	63.00	2.1		
4.9	5207	290	2.3			25	1074	56.64	2.4		
						29	932	49.16	2.7		
1.8	14186	790	0.86			32	835	44.02	2.9		
2.1	12390	690	0.99	K 127R77	4	39	693	36.52	3.4		
2.4	10756	599	1.14	KF 127R77	4						
2.6	9679	539	1.26	KA 127R77	4	16	1687	88.97	0.86		
3.0	8404	468	1.45	KAF127R77	4	18	1481	78.07	0.98		
3.5	7362	410	1.66			19	1403	73.99	1.04		
						22	1228	64.75	1.19	K 77	4
3.1	8170	455	0.92			24	1106	58.34	1.32	KF 77	4
3.5	7219	402	1.04			28	971	51.18	1.50	KA 77	4
4.0	6303	351	1.19			31	856	45.16	1.70	KAF77	4
4.6	5513	307	1.36	K 107R77	4	35	759	40.04	1.92		
5.1	4974	277	1.51	KF 107R77	4	40	668	35.20	2.2		
5.8	4363	243	1.72	KA 107R77	4	46	586	30.89	2.5		
6.6	3861	215	1.95	KAF107R77	4						
7.5	3394	189	2.2			32	841	44.32	0.92		
8.5	3017	168	2.5			37	728	38.39	1.06		
9.5	2676	149	2.8			40	676	35.62	1.14		
10	2496	139	3.0			47	573	30.22	1.34		
						52	517	27.28	1.49		
						59	455	24.00	1.65	K 67	4
5.5	4893	258	0.83	K 97R57	4	63	430	22.66	1.71	KF 67	4
6.1	4400	232	0.92	KF 97R57	4	74	366	19.30	1.95	KA 67	4
7.1	3774	199	1.07	KA 97R57	4	81	333	17.54	2.1	KAF67	4
						93	288	15.19	2.3		
						107	251	13.22	2.5		
5.0	5366	141.46	1.40	K 107	8	116	232	12.24	2.1		
5.9	4543	119.76	1.66	KF 107	8	136	198	10.42	2.4		
6.4	4204	110.83	1.79	KA 107	8	150	180	9.47	2.5		
7.1	3768	99.34	2.0	KAF107	8						
7.9	3402	89.68	2.2			47	574	30.28	0.98	K 57	4
						52	519	27.34	1.09	KF 57	4
6.8	3968	141.46	1.9	K 107	6	59	456	24.05	1.24	KA 57	4
8.0	3360	119.76	2.2	KF 107	6	63	431	22.71	1.31	KAF57	4
8.7	3109	110.83	2.4	KA 107	6	73	367	19.34	1.47		
9.7	2787	99.34	2.7	KAF107	6	81	333	17.57	1.57		

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Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p
3.0kW						4.0kW					
93	289	15.22	1.74			4.0	8404	351	0.89		
107	251	13.25	1.9			4.6	7350	307	1.02		
119	226	11.92	1.7	K 57	4	5.1	6632	277	1.13	K 107R77	4
126	214	11.26	1.8	KF 57	4	5.8	5818	243	1.29	KF 107R77	4
148	182	9.59	2.1	KA 57	4	6.6	5148	215	1.46	KA 107R77	4
163	165	8.71	2.2	KAF57	4	7.5	4525	189	1.66	KAF107R77	4
188	143	7.55	2.4			8.5	4022	168	1.68		
216	125	6.57	2.6			9.5	3567	149	1.9		
						11	3232	135	2.1		
73	371	19.58	1.01			7.1	5032	199	0.80	K 97R57	4
84	320	16.86	1.12							KF 97R57	4
90	301	15.86	1.19							KA 97R57	4
104	259	13.65	1.31							KAF97R57	4
116	231	12.19	1.42	K 47	4	5.3	6825	134.94	1.8	K 127	8
121	223	11.77	1.18	KF 47	4	5.8	6202	122.60	2.0	KF 127	8
134	200	10.56	1.31	KA 47	4	6.4	5570	110.13	2.2	KA 127	8
156	173	9.1	1.53	KAF47	4					KAF127	8
166	162	8.56	1.56			6.6	5464	146.07	2.2	K 127	6
193	140	7.36	1.68			7.1	5047	134.94	2.4	KF 127	6
216	125	6.58	1.81			7.8	4587	122.60	2.7	KA 127	6
244	110	5.81	1.96			8.7	4119	110.13	3.0	KAF127	6
159	169	8.91	0.89	K 37	4	6.4	5605	110.83	1.34	K 107	8
178	151	7.96	0.97	KF 37	4	7.1	5024	99.34	1.50	KF 107	8
209	129	6.8	1.09	KA 37	4	7.9	4536	89.68	1.66	KA 107	8
223	121	6.37	1.13	KAF37	4	8.7	4120	81.46	1.83	KAF107	8
265	102	5.36	1.29			6.8	5309	141.93	1.42	K 107	6
4.0kW						8.0	4473	119.58	1.68	KF 107	6
1.7	19697	825	2.4	K 187R107	4	8.7	4146	110.83	1.81	KA 107	6
2.8	12272	514	3.8	KA 187R107	4	9.7	3716	99.34	2.0	KAF107	6
0.57	59473	2510	0.79			11	3354	89.68	2.2		
0.63	53547	2268	0.88			10	3527	141.46	2.1		
0.70	48494	2054	0.97			12	2986	119.76	2.5		
0.79	42993	1821	1.09	K 187R97	4	13	2764	110.83	2.7	K 107	4
0.90	37894	1605	1.24	KA 187R97	4	14	2477	99.34	3.0	KF 107	4
1.0	32936	1395	1.43			16	2236	89.68	3.4	KA 107	4
1.2	28237	1196	1.66			18	2031	81.46	3.7	KAF107	4
1.4	24696	1046	1.90			20	1802	72.27	4.2		
1.5	22240	942	2.1			10	3498	140.28	1.16		
1.0	33101	1402	0.91			12	3107	124.61	1.30	K 97	4
1.1	30480	1291	0.99			14	2588	103.78	1.56	KF 97	4
1.3	25994	1101	1.16	K 167R97	4	15	2414	96.80	1.67	KA 97	4
1.5	22288	944	1.35	KA 167R97	4	17	2157	86.52	1.87	KAF97	4
1.7	19903	843	1.51			18	1942	77.89	2.1		
1.9	17873	757	1.68			20	1759	70.54	2.3		
2.3	14874	630	2.0			13	2872	115.16	0.88		
1.7	20163	854	0.84			14	2561	102.71	0.99		
1.9	17849	756	0.95	K 157R97	4	17	2153	86.34	1.18		
2.5	13339	565	1.27	KF 157R97	4	18	1978	79.34	1.28	K 87	4
2.9	11876	503	1.42	KA 157R97	4	20	1757	70.46	1.44	KF 87	4
3.3	10223	433	1.66	KAF157R97	4	23	1571	63.00	1.62	KA 87	4
2.7	12655	536	0.97			25	1412	56.64	1.80	KAF87	4
3.0	11167	473	1.09	K 127R87	4	29	1226	49.16	2.1		
3.4	9869	418	1.24	KF 127R87	4	33	1098	44.02	2.3		
3.9	8665	367	1.41	KA 127R87	4	39	911	36.52	2.8		
4.3	7901	330	1.55	KAF127R87	4						
4.9	6943	290	1.76								
5.6	6057	253	2.0								
2.4	14341	599	0.85	K 127R77	4						
2.6	12905	539	0.95	KF 127R77	4						
3.0	11205	468	1.09	KA 127R77	4						
3.5	9816	410	1.24	KAF127R77	4						



Output speed	Output torque	Ratio	Service factor	Type	Pole	Output speed	Output torque	Ratio	Service factor	Type	Pole
r/min	Nm	i	f _B	Type	p	r/min	Nm	i	f _B	Type	p
4.0kW						5.5kW					
22	1615	64.75	0.90			3.4	13570	418	0.90		
25	1455	58.34	1.00			3.9	11914	367	1.03		
28	1276	51.18	1.14			4.4	10713	330	1.14	K 127R87	4
32	1126	45.16	1.29	K 77	4	5.0	9414	290	1.30	KF 127R87	4
36	998	40.04	1.46	KF 77	4	5.7	8213	253	1.49	KA 127R87	4
38	957	38.39	1.52	KA 77	4	6.7	6980	215	1.75	KAF127R87	4
41	878	35.20	1.66	KAF77	4	7.1	6590	203	1.71		
47	770	30.89	1.89			8.6	5454	168	2.1		
49	730	29.27	2.0			9.7	4805	148	2.3		
56	639	25.62	2.3			6.7	6980	215	1.08		
62	576	23.08	2.5			7.6	6136	189	1.23	K 107R77	4
71	505	20.25	2.9			8.6	5454	168	1.38	KF 107R77	4
						9.7	4837	149	1.55	KA 107R77	4
						11	4383	135	1.72	KAF107R77	4
48	754	30.22	1.02			4.8	10288	150.03	1.64	K 157	8
53	680	27.28	1.13			5.9	8423	122.83	2.0	KF 157	8
60	598	24.00	1.26			7.2	6833	99.65	2.5	KA 157	8
64	565	22.66	1.30			7.8	6338	92.42	2.7	KAF157	8
75	481	19.30	1.48	K 67	4	5.3	9253	134.94	1.3	K 127	8
82	437	17.54	1.59	KF 67	4	5.9	8399	122.60	1.5	KF 127	8
95	379	15.19	1.74	KA 67	4	6.5	7556	110.13	1.6	KA 127	8
109	330	13.22	1.91	KAF67	4	8.1	6143	89.43	2.0	KAF127	8
118	305	12.24	1.63			7.1	6940	134.94	1.76	K 127	6
138	260	10.42	1.81			7.8	6299	122.60	1.94	KF 127	6
152	236	9.47	1.91			8.7	5667	110.13	2.2	KA 127	6
176	204	8.20	2.02			11	4599	89.43	2.7	KAF127	6
202	178	7.14	2.2			8.7	5700	110.83	1.32	K 107	6
60	600	24.05	0.94			9.7	5109	99.34	1.47	KF 107	6
63	566	22.71	1.00			11	4612	89.68	1.63	KA 107	6
74	482	19.34	1.12			12	4190	81.46	1.79	KAF107	6
82	438	17.57	1.19			10	4866	141.93	1.55		
95	380	15.22	1.33	K 57	4	12	4100	119.58	1.83	K 107	4
109	330	13.25	1.45	KF 57	4	13	3800	110.83	1.98	KF 107	4
121	297	11.92	1.31	KA 57	4	14	3406	99.34	2.2	KA 107	4
128	281	11.26	1.39	KAF57	4	16	3075	89.68	2.4	KAF107	4
150	239	9.59	1.59			18	2793	81.46	2.7		
165	217	8.71	1.69			12	4273	124.61	0.95		
191	188	7.55	1.82			14	3558	103.78	1.1		
219	164	6.57	1.98			15	3319	96.80	1.2	K 97	4
5.5kW						17	2967	86.52	1.35	KF 97	4
0.79	59116	1821	0.80			18	2671	77.89	1.5	KA 97	4
0.90	52104	1605	0.90			20	2419	70.54	1.65	KAF97	4
1.0	45286	1395	1.04	K 187R97	4	23	2145	62.55	1.85		
1.2	38826	1196	1.21	KA 187R97	4	25	1939	56.55	2.1		
1.4	33957	1046	1.38			30	1643	47.93	2.4		
1.5	30580	942	1.54			12	4273	124.61	0.95		
2.0	23926	737	2.0			14	3558	103.78	1.1		
2.3	20095	619	2.3			15	3319	96.80	1.2	K 97	4
1.31	35742	1101	0.84			17	2967	86.52	1.35	KF 97	4
1.5	30645	944	0.98			18	2720	79.34	0.95		
1.7	27367	843	1.10			20	2416	70.46	1.05		
1.9	24575	757	1.22	K 167R97	4	23	2160	63.00	1.15	K 87	4
2.3	20452	630	1.47	KA 167R97	4	25	1942	56.64	1.3	KF 87	4
2.6	18212	561	1.65			29	1686	49.16	1.5	KA 87	4
3.0	15550	479	1.93			33	1509	44.02	1.6	KAF87	4
3.4	13700	422	2.2			39	1252	36.52	1.85		
2.2	21458	661	0.79			46	1076	31.39	2.3		
2.5	18342	565	0.92	K 157R97	4	52	956	27.88	2.5		
2.9	16329	503	1.04	KF 157R97	4	32	1548	45.16	0.94	K 77	4
3.3	14057	433	1.20	KA 157R97	4	36	1373	40.04	1.06	KF 77	4
3.8	12271	378	1.38	KAF157R97	4	47	1059	30.89	1.38	KA 77	4
4.3	10778	332	1.57			49	1004	29.27	1.45	KAF77	4
						56	878	25.62	1.66		

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Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p
5.5kW						7.5kW					
62	791	23.08	1.84			6.4	10522	150.03	1.6		
71	694	20.25	2.0			7.8	8614	122.83	2.0	K 157	6
81	613	17.87	2.2	K 77	4	9.6	6989	99.65	2.4	KF 157	6
91	543	15.84	2.4	KF 77	4	10	6482	92.42	2.6	KA 157	6
107	464	13.52	2.5	KA 77	4	12	5593	79.75	3.0	KAF157	6
117	424	12.36	2.6	KAF77	4	7.1	9464	134.94	1.29	K 127	6
133	371	10.81	2.7			7.8	8590	122.48	1.42	KF 127	6
60	823	24.00	0.91			8.7	7727	110.18	1.58	KA 127	6
64	777	22.66	0.94			11	6272	89.43	1.95	KAF127	6
75	662	19.30	1.08			10	6736	146.07	1.81		
82	601	17.54	1.16			11	6223	134.94	1.96	K 127	4
95	521	15.19	1.26	K 67	4	12	5648	122.60	2.2	KF 127	4
109	453	13.22	1.39	KF 67	4	13	5081	110.13	2.4	KA 127	4
118	420	12.24	1.39	KA 67	4	16	4124	89.43	3.0	KAF127	4
138	357	10.42	1.32	KAF67	4	18	3805	82.52	3.2		
152	325	9.47	1.39			21	3272	70.95	3.7		
176	281	8.20	1.47			10	6545	141.93	1.15		
202	245	7.14	1.61			12	5514	119.58	1.36		
82	602	17.57	0.87			13	5111	110.83	1.47		
95	522	15.22	0.96			15	4581	99.34	1.64		
109	454	13.25	0.97			16	4136	89.68	1.82	K 107	4
121	409	11.92	1.01	K 57	4	18	3757	81.46	2.00	KF 107	4
128	386	11.26	1.06	KF 57	4	20	3333	72.27	2.3	KA 107	4
150	329	9.59	1.16	KA 57	4	22	3024	65.58	2.5	KAF107	4
165	299	8.71	1.23	KAF57	4	26	2599	56.37	2.9		
191	259	7.55	1.33			30	2269	49.20	3.2		
219	225	6.57	1.44			35	1925	41.74	3.6		
40						40	1682	36.48	4.0		
7.5kW						7.5kW					
1.8	36021	825	1.30	K 187R107	4	15	4464	96.80	0.91		
2.0	31437	720	1.50	KA 187R107	4	17	3990	86.52	1.01		
2.4	26808	614	1.75			19	3592	77.89	1.13		
1.2	52220	1196	0.90			21	3253	70.54	1.24	K 97	4
1.4	45670	1046	1.03			23	2884	62.55	1.40	KF 97	4
1.5	41129	942	1.14	K 187R97	4	26	2608	56.55	1.55	KA 97	4
2.0	32179	737	1.46	KA 187R97	4	30	2210	47.93	1.83	KAF97	4
2.4	27027	619	1.74			35	1931	41.87	2.1		
2.8	22879	524	2.1			38	1766	38.30	2.3		
1.7	36807	843	0.82			43	1579	34.23	2.6		
1.9	33052	757	0.91	K 167R97	4	23	2905	63.00	0.87		
2.3	27507	630	1.09	KF 167R97	4	26	2612	56.64	0.97		
2.6	24494	561	1.23	KA 167R97	4	30	2267	49.16	1.12		
3.0	20914	479	1.44	KAF167R97	4	33	2030	44.02	1.20		
3.5	18425	422	1.63			40	1684	36.52	1.40		
4.0	16024	367	1.88			47	1448	31.39	1.75	K 87	4
3.4	18906	433	0.89	K 157R97	4	52	1286	27.88	1.90	KF 87	4
3.9	16504	378	1.03	KF 157R97	4	59	1149	24.92	2.0	KA 87	4
4.4	14496	332	1.17	KA 157R97	4	65	1033	22.41	2.1	KAF87	4
5.0	12662	290	1.34	KAF157R97	4	75	897	19.45	2.4		
4.4	14408	330	0.85			84	803	17.42	2.6		
5.0	12662	290	0.97	K 127R87	4	92	736	15.95	2.3		
5.8	11046	253	1.11	KF 127R87	4	101	666	14.45	3.0		
6.8	9387	215	1.30	KA 127R87	4	47	1424	30.89	1.02		
7.2	8863	203	1.38	KAF127R87	4	50	1350	29.27	1.08		
8.7	7335	168	1.67			57	1181	25.62	1.23		
9.9	6462	148	1.89			63	1064	23.08	1.37		
4.4	15382	164.44	2.0	K 167	8	72	934	20.25	1.56	K 77	4
5.3	12623	135.38	2.4	KA 167	8	82	824	17.87	1.65	KF 77	4
5.8	11537	164.44	2.61	K 167	6	92	730	15.84	1.80	KA 77	4
7.1	9467	135.38	3.18	KA 167	6	108	623	13.52	1.82	KAF77	4
						118	570	12.36	1.89		
						135	499	10.81	1.95		
						153	440	9.54	2.0		
						173	390	8.46	2.1		
						202	333	7.22	2.3		



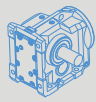
Output speed	Output torque	Ratio	Service factor	Type	Pole	Output speed	Output torque	Ratio	Service factor	Type	Pole
r/min	Nm	i	f _B	Type	p	r/min	Nm	i	f _B	Type	p
11kW						11kW					
1.8	52831	825	0.89			20	4888	72.27	1.54		
2.0	46107	720	1.02	K 187R107	4	22	4435	65.58	1.70	K 107	4
2.4	39319	614	1.20	KA 187R107	4	26	3813	56.37	1.97	KF 107	4
2.8	32915	514	1.43			30	3328	49.2	2.2	KA 107	4
3.3	28753	449	1.63			35	2823	41.74	2.5	KAF107	4
4.0	23374	365	2.0			40	2467	36.48	2.7		
2.0	47196	737	1.00	K 187R97	4	21	4771	70.54	0.85		
2.4	39639	619	1.19	KA 187R97	4	23	4231	62.55	0.96		
2.8	33556	524	1.40			26	3825	56.55	1.06	K 97	4
4.7	20044	313	1.50			30	3242	47.93	1.25	KF 97	4
5.3	17482	273	1.72	K 167R107	4	35	2832	41.87	1.43	KA 97	4
5.8	16009	250	1.88	KA 167R107	4	38	2590	38.3	1.56	KAF97	4
6.7	13960	218	2.2			43	2315	34.23	1.75		
7.2	13000	203	2.3			47	2085	30.82	1.94		
2.6	35925	561	0.84			52	1888	27.91	2.1		
3.0	30674	479	0.98	K 167R97	4	59	1674	24.75	2.4		
3.5	27024	422	1.11	KA 167R97	4	65	1513	22.37	2.7		
4.0	23502	367	1.28			33	2977	44.02	0.82		
4.4	21260	332	0.80	K 157R97	4	40	2470	36.52	0.95		
5.0	18571	290	0.91	KF 157R97	4	47	2123	31.39	1.20		
				KA 157R97	4	52	1886	27.88	1.30		
				KAF157R97	4	59	1685	24.92	1.39		
6.8	13768	215	0.89	K 127R87	4	65	1516	22.41	1.43	K 87	4
7.2	13000	203	0.94	KF 127R87	4	75	1315	19.45	1.64	KF 87	4
8.7	10758	168	1.14	KA 127R87	4	84	1178	17.42	1.76	KA 87	4
9.9	9478	148	1.29	KAF127R87	4	92	1079	15.95	1.57	KAF87	4
5.4	18313	135.38	1.64	K 167	8	101	977	14.45	1.9		
6.6	14932	110.38	2.0	KA 167	8	116	849	12.56	2.0		
5.9	16740	164.44	1.80	K 167	6	131	753	11.13	2.1		
7.2	13782	135.38	2.2	KA 167	6	147	674	9.96	2.2		
8.9	11122	164.44	2.7	K 167	4	177	559	8.27	2.4		
11	9158	135.38	3.3	KA 167	4	203	486	7.19	2.5		
5.9	16615	122.83	1.02	K 157	8	63	1561	23.08	0.93		
7.3	13480	99.65	1.26	KF 157	8	72	1370	20.25	1.03		
7.9	12502	92.42	1.35	KA 157	8	82	1209	17.87	1.13		
9.1	10788	79.75	1.57	KAF157	8	92	1071	15.84	1.23	K 77	4
6.5	15273	150.03	1.11	K 157	6	108	914	13.52	1.38	KF 77	4
7.9	12504	122.83	1.35	KF 157	6	118	836	12.36	1.12	KA 77	4
9.7	10144	99.65	1.67	KA 157	6	135	731	10.81	1.27	KAF77	4
10	9408	92.42	1.80	KAF157	6	153	645	9.54	1.37		
12	8119	79.75	2.1			173	572	8.46	1.46		
9.7	10147	150.03	1.67	K 157	4	202	488	7.22	1.57		
12	8308	122.83	2.0	KF 157	4	15kW					
15	6740	99.65	2.5	KA 157	4	2.4	53617	614	0.88		
16	6251	92.42	2.7	KAF157	4	2.8	44884	514	1.05	K 187R107	4
11	9127	134.94	1.34			3.3	39208	449	1.20	KA 187R107	4
12	8295	122.60	1.47	K 127	4	4.0	31873	365	1.47		
13	7449	110.13	1.64	KF 127	4	5.4	23403	268	2.0		
16	6049	89.43	2.0	KA 127	4	4.7	27332	313	1.10		
18	5581	82.52	2.2	KAF127	4	5.3	23839	273	1.26		
21	4799	70.95	2.5			5.8	21831	250	1.38		
13	7496	110.83	1.00	K 107	4	6.7	19037	218	1.58	K 167R107	4
15	6719	99.34	1.12	KF 107	4	7.2	17727	203	1.70	KA 167R107	4
16	6066	89.68	1.24	KA 107	4	7.9	16155	185	1.86		
18	5510	81.46	1.36	KAF107	4	9.0	14234	163	2.1		
						6.2	20696	237	0.82		
						7.0	18338	210	0.92	K 157R107	4
						7.9	16068	184	1.05	KF 157R107	4
						9.4	13535	155	1.25	KA 157R107	4
						12	11003	126	1.54	KAF157R107	4
						13	9606	110	1.76		

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Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p
15kW						18.5kW					
5.4	25096	180.78	1.87	K 187	6	2.9	54981	514	0.85		
6.0	22285	160.53	2.1	KA 187	6	3.3	48028	449	0.98	K 187R107	4
						4.0	39043	365	1.20	KA 187R107	4
7.2	18793	135.38	1.60	K 167	6	5.5	28667	268	1.64		
8.8	15324	110.39	1.96	KA 167	6	6.5	24281	227	1.9		
8.9	15166	164.44	1.12	K 167	4	4.7	33481	313	0.90		
11	12486	135.38	1.36	KA 167	4	5.4	29202	273	1.03		
						5.9	26742	250	1.12		
7.9	16990	122.39	1.00	K 157	6	6.7	23319	218	1.29	K 167R107	4
9.7	13833	99.65	1.22	KF 157	6	7.2	21714	203	1.39	KA 167R107	4
10	12830	92.42	1.32	KA 157	6	7.9	19789	185	1.52		
12	11071	79.75	1.53	KAF157	6	9.0	17436	163	1.73		
14	9770	70.35	1.73			11	14868	139	2.0		
						12	12943	121	2.3		
9.7	13837	150.03	1.22	K 157	4	8.0	19682	184	0.86	K 157R107	4
12	11329	122.83	1.49	KF 157	4	9.5	16580	155	1.02	KF 157R107	4
15	9191	99.65	1.84	KA 157	4	12	13478	126	1.26	KA 157R107	4
16	8524	92.42	2.0	KAF157	4	13	11766	110	1.44	KAF157R107	4
18	7355	79.75	2.3								
11	12445	134.94	0.97			5.4	30951	180.78	1.52		
12	11307	122.60	1.08			6.0	27484	160.53	1.71	K 187	6
13	10157	110.13	1.20			6.7	24745	144.53	1.9	KA 187	6
16	8248	89.43	1.48	K 127	4	7.4	22317	130.35	2.1		
18	7611	82.52	1.61	KF 127	4						
21	6544	70.95	1.87	KA 127	4	8.1	20424	180.78	2.3		
23	5774	62.60	2.1	KAF127	4	9.2	18136	160.53	2.6	K 187	4
27	4987	54.07	2.5			10	16328	144.53	2.9	KA 187	4
31	4410	47.82	2.8			11	14726	130.35	3.2		
16	8271	89.68	0.91			11	15195	134.5	1.98	K 167	4
18	7513	81.46	1.00			13	12471	110.39	2.4	KA 167	4
20	6665	72.27	1.13			17	9851	87.20	3.1		
22	6048	65.58	1.24								
26	5199	56.37	1.45	K 107	4	10	17061	99.65	0.99	K 157	6
30	4538	49.2	1.62	KF 107	4	11	15823	92.42	1.08	KF 157	6
35	3850	41.74	1.80	KA 107	4	12	13654	79.75	1.24	KA 157	6
40	3365	36.48	2.0	KAF107	4	14	12050	70.38	1.4	KAF157	6
45	2972	32.22	2.2								
47	2844	30.84	2.3			12	13827	122.39	1.22		
51	2637	28.59	2.6			15	11258	99.65	1.50		
						16	10441	92.42	1.62	K 157	4
30	4421	47.93	0.91			18	9010	79.75	1.88	KF 157	4
35	3862	41.87	1.05			21	7951	70.38	2.1	KA 157	4
38	3532	38.3	1.14			24	6894	61.02	2.5	KAF157	4
43	3157	34.23	1.28	K 97	4	27	6133	54.29	2.8		
47	2843	30.82	1.42	KF 97	4	31	5286	46.79	3.2		
52	2574	27.91	1.57	KA 97	4	39	4295	38.02	3.9		
59	2283	24.75	1.77	KAF97	4						
65	2063	22.37	1.96			13	12442	110.13	0.98		
77	1749	18.96	2.3			16	10103	89.43	1.21		
88	1527	16.56	2.6			18	9323	82.52	1.31		
						21	8016	70.95	1.52	K 127	4
47	2895	31.39	0.88			23	7072	62.60	1.73	KF 127	4
52	2571	27.88	0.99			27	6109	54.07	2.0	KA 127	4
59	2298	24.92	1.10			31	5403	47.82	2.3	KAF127	4
65	2067	22.41	1.23			37	4540	40.19	2.7		
75	1794	19.45	1.37	K 87	4	41	4121	36.48	3.0		
84	1607	17.42	1.41	KF 87	4	47	3544	31.36	3.4		
92	1471	15.95	1.48	KA 87	4	53	3127	27.67	3.9		
101	1333	14.45	1.5	KAF87	4						
116	1158	12.56	1.53			20	8165	72.27	0.92		
131	1027	11.13	1.58			22	7409	65.58	1.01	K 107	4
147	919	9.96	1.73			26	6368	56.37	1.18	KF 107	4
177	763	8.27	1.84			30	5558	49.2	1.35	KA 107	4
203	663	7.19	2.2			35	4716	41.74	1.47	KAF107	4
						40	4121	36.48	1.64		



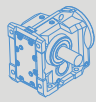
Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p
18.5kW						22kW					
46	3640	32.22	1.86			9.7	20289	99.65	0.83	K 157	6
48	3484	30.84	1.88	K 107	4	11	18817	92.42	0.90	KF 157	6
51	3230	28.59	2.1	KF 107	4	12	16237	79.75	1.04	KA 157	6
57	2931	25.94	2.3	KA 107	4	14	14330	70.38	1.18	KAF157	6
66	2519	22.30	2.7	KAF107	4	16	12424	61.02	1.36		
76	2199	19.46	3.1			12	16502	122.83	1.03		
89	1865	16.51	3.6			15	13388	99.65	1.26		
35	4730	41.87	0.85			16	12417	92.42	1.36		
48	3482	30.82	1.16			18	10714	79.75	1.58	K 157	4
53	3153	27.91	1.28	K 97	4	21	9456	70.38	1.79	KF 157	4
59	2796	24.75	1.45	KF 97	4	24	8198	61.02	2.1	KA 157	4
66	2527	22.37	1.60	KA 97	4	27	7294	54.29	2.3	KAF157	4
78	2142	18.96	1.9	KAF97	4	31	6286	46.79	2.7		
89	1871	16.56	2.2			39	5108	38.02	3.3		
106	1565	13.85	2.6			16	12015	89.43	1.02		
123	1355	11.99	2.7			18	11087	82.52	1.10		
59	2815	24.92	0.83			21	9532	70.95	1.28		
66	2532	22.41	0.85			23	8410	62.60	1.45		
76	2197	19.45	0.98			27	7264	54.07	1.68	K 127	4
84	1968	17.42	1.05	K 87	4	31	6425	47.82	1.90	KF 127	4
102	1633	14.45	1.12	KF 87	4	37	5400	40.19	2.3	KA 127	4
117	1419	12.56	1.21	KA 87	4	40	4901	36.48	2.5	KAF127	4
132	1257	11.13	1.25	KAF87	4	47	4215	31.36	2.9		
148	1125	9.96	1.32			53	3719	27.67	3.3		
178	934	8.27	1.41			61	3212	23.90	3.8		
204	812	7.19	1.50			70	2841	21.14	4.3		
22kW						22kW					
3.3	57114	449	0.82			26	7573	56.37	0.99		
4.0	46429	365	1.01			30	6610	49.20	1.11		
5.5	34091	268	1.38	K 187R107	4	35	5608	41.74	1.23		
6.5	28875	227	1.63	KA 187R107	4	40	4901	36.48	1.38		
7.4	25313	199	1.86			46	4329	32.22	1.56		
8.8	21370	168	2.2			48	4143	30.84	1.54	K 107	4
5.4	34727	273	0.87			51	3841	28.59	1.76	KF 107	4
5.9	31801	250	0.95			57	3485	25.94	1.94	KA 107	4
6.7	27730	218	1.08	K 167R107	4	66	2996	22.30	2.2	KAF107	4
7.2	25822	203	1.16	KA 167R107	4	76	2614	19.46	2.3		
7.9	23533	185	1.28			89	2218	16.51	2.6		
9.0	20734	163	1.45			102	1939	14.43	2.6		
11	17681	139	1.70			109	1815	13.51	2.9		
12	15392	121	2.0			125	1584	11.79	3.0		
9.5	19717	155	0.86	K 157R107	4	147	1343	10	3.3		
12	16028	126	1.06	KF 157R107	4	48	4141	30.82	0.98		
13	13992	110	1.21	KA 157R107	4	53	3750	27.91	1.08		
5.4	36807	180.78	1.28			59	3325	24.75	1.22		
6.0	32684	160.53	1.44	K 187	6	66	3005	22.37	1.34	K 97	4
6.7	29427	144.53	1.60	KA 187	6	78	2547	18.96	1.59	KF 97	4
7.4	26540	130.35	1.77			89	2225	16.56	1.82	KA 97	4
8.6	23044	113.18	2.0			106	1861	13.85	1.87	KAF97	4
8.1	24288	180.78	1.94			123	1611	11.99	2.1		
9.2	21567	160.53	2.2	K 187	4	137	1439	10.71	2.2		
10	19418	144.53	2.4	KA 187	4	164	1202	8.95	2.3		
11	17512	130.35	2.7			76	2613	19.45	0.83		
11	18070	134.5	1.66			84	2340	17.42	0.88	K 87	4
13	14831	110.39	2.0	K 167	4	102	1941	14.45	0.94	KF 87	4
17	11715	87.20	2.6	KA 167	4	117	1687	12.56	1.02	KA 87	4
19	10460	77.86	2.9			132	1495	11.13	1.05	KAF87	4
						148	1338	9.96	1.11		
						178	1111	8.27	1.18		
						204	966	7.19	1.27		

K



K

Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p
30kW						37kW					
5.5	49099	268	0.96			5.5	56947	268	0.83		
6.5	41587	227	1.13	K 187R107	4	6.5	48235	227	0.97	K 187R107	4
7.4	36458	199	1.29	KA 187R107	4	7.4	42285	199	1.11	KA 187R107	4
8.8	30778	168	1.5			8.8	35698	168	1.32		
6.7	39938	218	0.75			8.0	39310	185	0.77		
7.2	37190	203	0.81			9.1	34635	163	0.87	K 167R107	4
7.9	33893	185	0.89			11	29536	139	1.02	KA 167R107	4
9.0	29862	163	1.01	K 167R107	4	12	25711	121	1.17		
11	25465	139	1.18	KA 167R107	4	8.2	40572	180.78	1.16		
12	22168	121	1.36			8.9	37268	166.06	1.26		
8.1	33120	180.78	1.42			10	32436	144.53	1.45		
8.9	30423	166.06	1.54			11	29395	130.98	1.60	K 187	4
10	26478	144.53	1.78	K 187	4	13	25400	113.18	1.85	KA 187	4
11	23996	130.98	1.96	KA 187	4	14	23046	102.69	2.0		
13	20735	113.18	2.3			17	19853	88.46	2.4		
14	18813	102.69	2.5			14	24559	109.43	1.22		
17	16206	88.46	2.9			17	19646	87.54	1.53		
13	20048	109.43	1.50			19	17828	78.44	1.69	K 167	4
17	15975	87.20	1.88	K 167	4	22	15301	68.18	2.0	KA 167	4
19	14554	79.44	2.1	KA 167	4	24	13582	60.52	2.2		
22	12427	67.83	2.4			35	9592	42.74	3.1		
24	11088	60.52	2.7			16	20741	92.42	0.82		
15	18256	99.65	0.93			19	17898	79.75	0.95		
16	16932	92.42	1.00			21	15795	70.38	1.07	K 157	4
18	14611	79.75	1.16			24	13694	61.02	1.24	KF 157	4
21	12894	70.38	1.31	K 157	4	27	12184	54.29	1.39	KA 157	4
24	11179	61.02	1.51	KF 157	4	32	10501	46.79	1.61	KAF157	4
27	9946	54.29	1.70	KA 157	4	39	8533	38.02	1.98		
31	8572	46.79	1.97	KAF157	4	47	7025	31.30	2.4		
39	6965	38.02	2.4			24	14049	62.60	0.87		
47	5734	31.30	3.0			27	12135	54.07	1.01		
21	12998	70.95	0.94			31	10732	47.82	1.14		
23	11469	62.60	1.07			37	9020	40.19	1.35		
27	9906	54.07	1.23	K 127	4	41	8187	36.48	1.49		
31	8761	47.82	1.39	KF 127	4	47	7040	31.36	1.74	K 127	4
37	7363	40.19	1.66	KA 127	4	53	6212	27.67	1.97	KF 127	4
40	6683	36.48	1.83	KAF127	4	62	5366	23.90	2.3	KA 127	4
47	5747	31.36	2.1			70	4747	21.14	2.6	KAF127	4
53	5071	27.67	2.4			83	3988	17.77	2.8		
61	4380	23.90	2.8			103	3220	14.35	3.1		
35	7647	41.74	0.90			116	2870	12.78	3.1		
40	6683	36.48	1.01			138	2410	10.74	3.5		
46	5903	32.22	1.08			171	1948	8.68	3.5		
51	5238	28.59	1.29			41	8187	36.48	0.83		
57	4752	25.94	1.42	K 107	4	48	6921	30.84	0.92		
66	4085	22.30	1.63	KF 107	4	52	6416	28.59	1.05		
76	3565	19.46	1.66	KA 107	4	57	5822	25.94	1.16		
89	3025	16.51	1.87	KAF107	4	66	5005	22.3	1.33	K 107	4
102	2644	14.43	1.90			76	4367	19.46	1.35	KF 107	4
109	2475	13.51	2.15			90	3705	16.51	1.53	KA 107	4
125	2160	11.79	2.19			103	3238	14.43	1.55	KAF107	4
147	1832	10.00	2.39			110	3032	13.51	1.75		
168	1601	8.74	2.45			126	2646	11.79	1.79		
59	4534	24.75	0.89			148	2244	10.00	1.82		
66	4098	22.37	0.99			169	1961	8.74	1.95		
78	3474	18.96	1.16	K 97	4						
89	3034	16.56	1.33	KF 97	4						
106	2537	13.85	1.59	KA 97	4						
123	2197	11.99	1.66	KAF97	4						
137	1962	10.71	1.37								
164	1640	8.95	1.52								



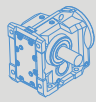
Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p
45kW						55kW					
6.5	58664	227	0.80			17	29204	87.54	1.03		
7.4	51428	199	0.91	K 187R107	4	19	25974	77.86	1.16		
8.8	43416	168	1.08	KA 187R107	4	22	22745	68.18	1.32	K 167	4
						24	20263	60.74	1.48	KA 167	4
11	35922	139	0.84	K 167R107	4	29	17207	51.58	1.75		
12	31270	121	0.96	KA 167R107	4	35	14258	42.74	2.1		
						41	12170	36.48	2.5		
8.2	49344	180.78	0.95			24	20357	61.02	0.83		
8.9	45326	166.06	1.04			27	18111	54.29	0.93		
10	39449	144.53	1.19			32	15609	46.79	1.08		
11	35751	130.98	1.31	K 187	4	39	12684	38.02	1.33		
13	30892	113.18	1.52	KA 187	4	47	10442	31.30	1.62	K 157	4
14	28029	102.69	1.68			54	9214	27.62	1.84	KF 157	4
17	24145	88.46	1.9			62	7990	23.95	2.1	KA 157	4
20	20291	74.34	2.3			69	7109	21.31	2.4	KAF157	4
						81	6128	18.37	2.8		
14	29869	109.43	1.01			99	4977	14.92	3.4		
17	23894	87.54	1.26			117	4220	12.65	3.8		
19	21683	79.44	1.42	K 167	4						
22	18610	68.18	1.62	KA 167	4	37	13408	40.19	0.91		
24	16519	60.52	1.82			47	10465	31.36	1.17		
29	14079	51.58	2.1			53	9234	27.67	1.32		
35	11666	42.74	2.6			62	7976	23.90	1.53	K 127	4
						70	7056	21.14	1.73	KF 127	4
21	19210	70.38	0.88			83	5928	17.77	2.06	KA 127	4
24	16655	61.02	1.02			103	4787	14.35	2.38	KAF127	4
27	14818	54.29	1.14			116	4267	12.78	1.88		
32	12771	46.79	1.32	K 157	4	138	3583	10.74	2.1		
39	10378	38.02	1.63	KF 157	4	171	2896	8.68	2.3		
47	8543	31.30	2.0	KA 157	4						
54	7539	27.62	2.2	KAF157	4	75kW					
62	6537	23.95	2.6			11	59298	130.35	0.79		
69	5817	21.31	2.9			13	52224	114.80	0.90		
81	5014	18.37	3.4			14	47016	103.35	1.00	K 187	4
						17	40242	88.46	1.17	KA 187	4
31	13052	47.82	0.94			20	33818	74.34	1.39		
37	10970	40.19	1.11			23	29283	64.37	1.61		
41	9957	36.48	1.23			28	24402	53.64	1.9		
47	8562	31.36	1.43			32	20803	45.73	2.3		
53	7555	27.67	1.62	K 127	4						
62	6526	23.90	1.87	KF 127	4	19	35420	77.86	0.85		
70	5773	21.14	2.1	KA 127	4	22	30857	67.83	0.97		
83	4850	17.77	2.3	KAF127	4	24	27531	60.52	1.09		
103	3917	14.35	2.5			29	23496	51.65	1.28		
116	3491	12.78	2.6			34	19598	43.08	1.53	K 167	4
138	2931	10.74	2.8			41	16595	36.48	1.81	KA 167	4
171	2369	8.68	2.9			46	14616	32.13	2.1		
						52	13042	28.67	2.3		
52	7804	28.59	0.87			61	11114	24.43	2.7		
57	7080	25.94	0.96								
66	6087	22.30	1.10			39	17296	38.02	0.98		
76	5312	19.46	1.11	K 107	4	47	14239	31.30	1.19		
90	4506	16.51	1.26	KF 107	4	54	12565	27.62	1.35	K 157	4
103	3939	14.43	1.44	KA 107	4	62	10895	23.95	1.55	KF 157	4
110	3688	13.51	1.47	KAF107	4	69	9694	21.31	1.75	KA 157	4
126	3218	11.79	1.55			81	8357	18.37	2.0	KAF157	4
148	2729	10.00	1.60			99	6787	14.92	2.5		
169	2386	8.74	1.64			117	5755	12.65	2.9		
55kW						47	14271	31.36	0.86		
10	45904	145.33	1.02			53	12592	27.67	0.97		
11	41371	130.98	1.14			62	10877	23.90	1.12	K 127	4
13	36261	114.80	1.30	K 187	4	70	9621	21.14	1.27	KF 127	4
14	32436	102.69	1.45	KA 187	4	83	8084	17.77	1.36	KA 127	4
17	29511	88.46	1.59			103	6528	14.35	1.51	KAF127	4
20	24800	74.34	1.90			114	5900	12.78	1.54		
23	21474	64.37	2.19			138	4886	10.74	1.72		
						171	3949	8.68	1.74		

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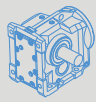
Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _B	Type Type	Pole p
90kW						132kW					
14	56058	102.69	0.84			20	59121	74.34	0.79		
16	51134	93.67	0.92			23	51192	64.37	0.92		
19	42242	77.38	1.11			28	42659	53.64	1.10		
23	35139	64.37	1.34	K 187	4	31	38499	48.41	1.22		
28	29282	53.64	1.61	KA 187	4	34	34666	43.59	1.36	K 187	4
31	26427	48.41	1.8			38	30841	38.78	1.52	KA 187	4
34	23796	43.59	2.0			45	26570	33.41	1.77		
38	21170	38.78	2.2			53	22331	28.08	2.1		
						61	19333	24.31	2.3		
						74	16112	20.26	2.6		
						86	13734	17.27	2.8		
22	37028	67.83	0.81								
24	33038	60.52	0.91			35	33990	42.74	0.88		
29	28157	51.58	1.07			41	29012	36.48	1.04		
35	23332	42.74	1.29	K 167	4	46	25942	32.62	1.16	K 167	4
40	19953	36.55	1.51	KA 167	4	54	22053	27.73	1.36	KA 167	4
45	17807	32.62	1.69			61	19429	24.43	1.55		
52	15651	28.67	1.92			74	16104	20.25	1.87		
61	13336	24.43	2.3			86	13742	17.28	2.2		
73	11054	20.25	2.7								
86	9433	17.28	3.2			62	19047	23.95	0.89	K 157	4
						70	16947	21.31	1.00	KF 157	4
39	20755	38.02	0.82			81	14609	18.37	1.16	KA 157	4
47	17087	31.30	0.99	K 157	4	100	11866	14.92	1.43	KAF157	4
54	15078	27.62	1.12	KF 157	4	118	10060	12.65	1.59		
62	13074	23.95	1.29	KA 157	4						
69	11633	21.31	1.45	KAF157	4	160kW					
81	10028	18.37	1.69			28	51708	53.64	0.91		
99	8145	14.92	2.1			33	44082	45.73	1.07		
117	6906	12.65	2.5			42	34096	35.37	1.38		
						47	30693	31.84	1.53	K 187	4
62	13052	23.90	0.94			61	23434	24.31	1.9	KA 187	4
70	11546	21.14	1.06	K 127	4	74	19530	20.26	2.1		
83	9701	17.77	1.15	KF 127	4	86	16648	17.27	2.3		
103	7834	14.35	1.26	KA 127	4						
116	6982	12.78	1.28	KAF127	4	41	35166	36.48	0.86		
138	5863	10.74	1.43			62	23338	24.21	1.29	K 167	4
171	4738	8.68	1.45			73	19800	20.54	1.52	KA 167	4
						86	16657	17.28	1.81		
110kW											
17	58625	88.46	0.80			81	17708	18.37	0.96	K 157	4
20	49267	74.34	0.95			100	14382	14.92	1.18	KF 157	4
21	46173	69.67	1.02			118	12194	12.65	1.39	KA 157	4
24	41853	63.14	1.12	K 187	4						
33	30307	45.73	1.55	KA 187	4	200kW					
35	28332	42.75	1.66			33	55103	45.73	0.85		
38	26178	39.50	1.80			45	40258	33.41	1.17		
42	23441	35.37	2.0			47	38366	31.84	1.23	K 187	4
53	18610	28.08	2.5			59	30618	25.41	1.54	KA 187	4
						74	24413	20.26	1.69		
29	34184	51.58	0.88			86	20810	17.27	1.87		
35	28325	42.74	1.06								
41	24176	36.48	1.24			61	29437	24.43	1.02	K 167	4
46	21618	32.62	1.39	K 167	4	73	24750	20.54	1.22	KA 167	4
54	18378	27.73	1.64	KA 167	4	86	20906	17.35	1.44		
61	16191	24.43	1.86								
74	13420	20.25	2.2			100	17978	14.92	0.94	K 157	4
86	11452	17.28	2.6			118	15243	12.65	1.05	KF 157	4
										KA 157	4
60	15872	23.95	1.07	K 157	4					KAF157	4
70	14123	21.31	1.20	KF 157	4						
81	12174	18.37	1.39	KA 157	4						
100	9888	14.92	1.71	KAF157	4						
118	8384	12.65	2.0								



Permissible torque Nm	Output speed r/min	Ratio i	Type Type	Power kW/4p	Permissible torque Nm	Output speed r/min	Ratio i	Type Type	Power kW/4p	
200	5.0	279	K 37R17 KF 37R17 KA 37R17 KAF37R17	0.18	1550	1.0	1388	K 77R37 KF 77R37 KA 77R37 KAF77R37	0.25	
	5.2	267				1.1	1218			
	5.9	234				1.3	1053			
	6.8	205				1.5	924			
	7.7	181		1.7		815	0.37			
	8.7	160		2.0		709	0.55			
	10	136		2.2		622				
	11	127		2.5		552				
	13	110		2.9		485				
	14	96		3.2		428			0.75	
14	96	3.9	358							
400	2.5	552	K 47R37 KF 47R37 KA 47R37 KAF47R37	0.18	2700	4.3	320	K 87R57 KF 87R57 KA 87R57 KAF87R57	1.1	
	2.8	495				4.9	283			
	3.3	416				5.7	246			
	3.7	375		0.34		4037	0.18			
	4.3	326		0.39		3609				
	4.8	289		0.45		3107				
	5.6	250		0.51		2728				
	6.3	219		0.59		2371			0.25	
	7.2	193		0.67		2088				
	8.3	167		0.75		1854	0.37			
9.3	149	0.84	1658							
11	128	0.98	1415							
600	1.5	906	K 57R37 KF 57R37 KA 57R37 KAF57R37	0.18	4300	1.1	1229	K 97R57 KF 97R57 KA 97R57 KAF97R57	0.55	
	1.7	806				1.3	1078			
	2.0	699				1.5	951			
	2.3	615				1.7	837			
	2.6	544		1.9		726	0.75			
	2.9	473		2.2		638	1.1			
	3.3	421		2.5		562				
	3.8	362		3.0		474				
	4.4	319		3.3		426				
	5.1	273		3.8		373			1.5	
5.8	240	4.2	330							
6.5	215	4.8	293	2.2						
7.2	192	5.6	250							
8.4	166	5.9	236							
9.9	141	7.0	201							
820	13	108	K 67R37 KF 67R37 KA 67R37 KAF67R37	1.10	4300	0.23	6027	K 97R57 KF 97R57 KA 97R57 KAF97R57	0.18	
	15	95				0.26	5392			
	1.2	1171		0.30		4669	0.25			
	1.3	1034		0.34		4082				
	1.5	903		0.39		3583				
	1.8	793		0.45		3108				
	2.0	697		0.51		2757			0.37	
	2.3	613		0.58		2419				
	2.6	542		0.66		2123	0.55			
	3.0	471		0.75		1856				
3.3	420	0.86	1625							
3.9	361	0.98	1430							
4.3	323	1.1	1261	0.75						
5.1	272	1.3	1102							
5.8	240	1.5	957							
6.4	217	1.6	855							
1550	7.3	191	K 77R37 KF 77R37 KA 77R37 KAF77R37	0.18	4300	1.9	743	K 97R57 KF 97R57 KA 97R57 KAF97R57	1.1	
	0.59	2370				2.1	651			
	0.68	2050				2.4	573			1.5
	0.78	1772				2.8	504			
	0.92	1514				3.2	437			2.2
	0.92	1514				3.6	382			
						4.1	342			

K

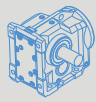
All gear units are overloaded in above table. Determination of operating torque should not higher than the gearunit's nominal torque.



K

Permissible torque Nm	Output speed r/min	Ratio i	Type		Power kW/4p	Permissible torque Nm	Output speed r/min	Ratio i	Type		Power kW/4p				
			Type	Type					Type	Type					
4300	4.6	305	K 97R57	Type	3.0	13000	1.5	899	K 127R77	Type	3.0				
	5.4	258					KF 97R57	1.8				790			
	6.0	232					KA 97R57	2.0				690			
	7.1	199	KAF97R57	4.0	539		4.0								
8000	0.13	10528	K 107R77 KF 107R77 KA 107R77 KAF107R77	Type	0.18		3.0	468	K 127R87 KF 127R87 KA 127R87 KAF127R87	Type	5.5				
	0.15	9391					2.3	599							
	0.17	8211					2.6	539							
	0.19	7167					2.6	536				4.0			
	0.23	6097					2.9	473				5.5			
	0.25	5582					3.3	418				5.5			
	0.27	5065					3.8	367				7.5			
	0.32	4299					4.2	330				7.5			
	0.37	3757					4.8	290				7.5			
	0.43	3236				0.55	0.08	17679				0.55			
	0.48	2869											0.09	15729	
	0.56	2504											0.10	14721	
	0.63	2203											0.11	13097	
	0.74	1869											0.12	11368	
	0.83	1689											0.14	10114	
	0.91	1533											0.16	8718	
	1.1	1317											0.18	7734	
	1.2	1150											0.27	5074	1.1
	1.4	1015											0.31	4514	
	1.6	871											0.35	3974	
	1.8	782											0.40	3516	
	2.0	686				0.46	3047								
	2.3	606				0.48	2899	1.5							
	2.7	515				0.60	2319	1.5							
3.1	455	0.69	2026	2.2											
3.6	402	0.77	1802	2.2											
4.1	351	0.83	1680	2.2											
4.7	307	1.0	1365	2.2											
5.2	277	18000	1.1	1229	3.0										
5.9	243					1.3	1093								
0.08	17550					1.5	942	4.0							
0.09	16006					1.6	854								
0.10	14975					1.8	756								
0.11	12440					2.1	661								
0.13	10914					2.5	565								
0.14	9819					2.9	503								
0.16	8443					3.3	433								
0.19	7483					5.0	290								
0.21	6565					4.8	307		11						
0.24	5804					5.6	260		11						
0.28	5027	6.2	237	15											
0.31	4423	7.0	210	15											
0.37	3801	32000	0.07	19653	0.55										
0.43	3237					0.08	17345								
0.47	2941					0.09	14945								
0.55	2548					0.11	13190								
0.63	2218					0.12	11532								
0.72	1926					0.14	10227								
0.79	1757					0.16	8597	0.75							
0.90	1541					0.21	6538	1.1							
1.0	1342					0.26	5366	1.1							
1.2	1177					0.29	4798	1.5							
1.4	1025					0.34	4059	1.5							

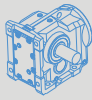
All gear units are overloaded in above table. Determination of operating torque should not higher than the gearunit's nominal torque.



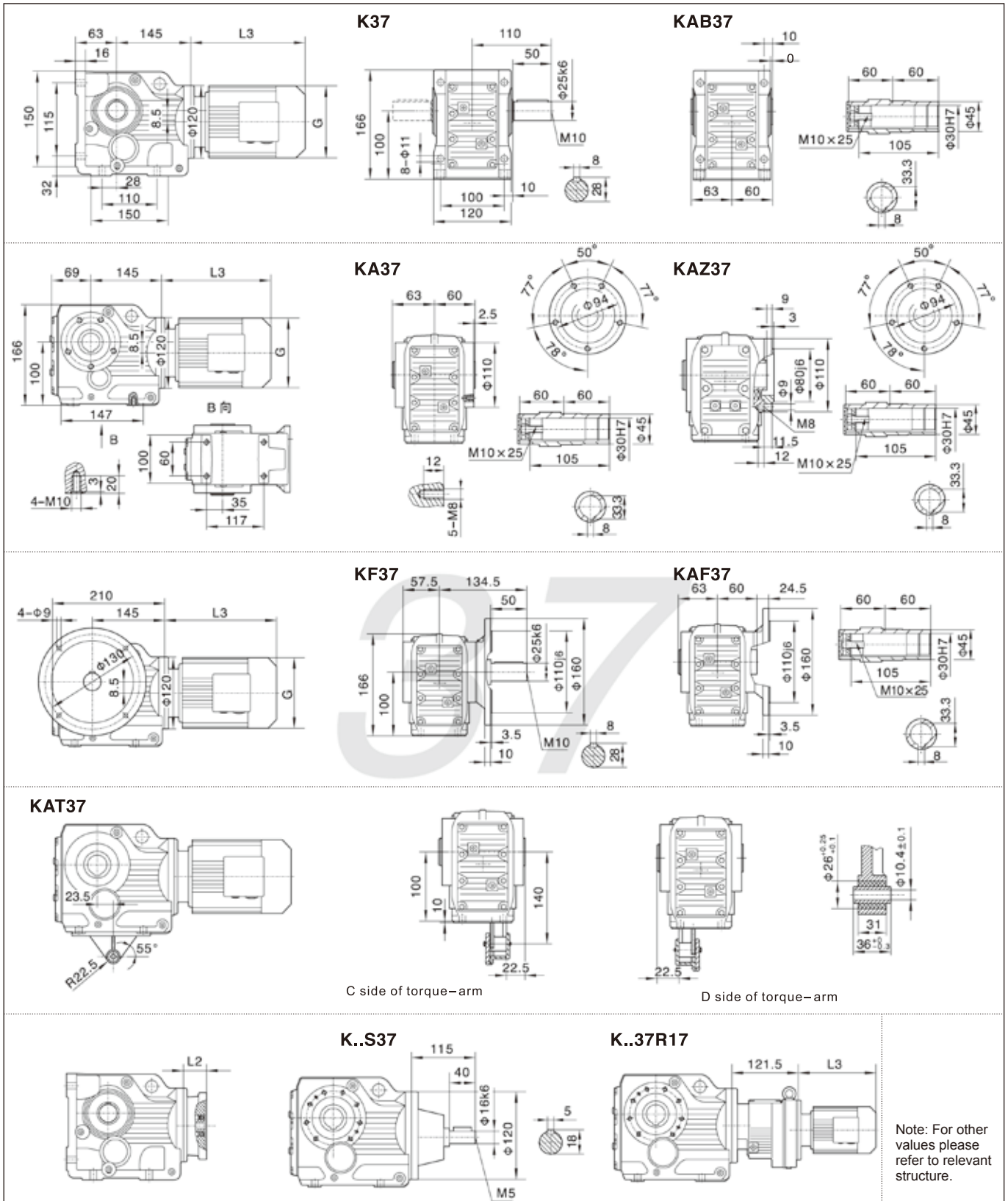
Permissible torque Nm	Output speed r/min	Ratio i	Type Type	Power kW/4p	Permissible torque Nm	Output speed r/min	Ratio i	Type Type	Power kW/4p
32000	0.42	3359	K 167R97 KA 167R97	2.2	50000	2.0	720	K 187R107 KA 187R107	15
	0.52	2741				2.4	614		
	0.63	2252		3		2.9	514		
	0.65	2174				3.3	449		
	0.85	1698		4		4.0	365		
	1.0	1402				5.5	268		
	1.1	1291		5.5		6.5	227		
	1.3	1101				7.4	199		
	1.5	944		7.5		8.8	168		
	1.7	843							
	1.9	757							
	2.6	561		11					
	3.0	479							
	3.4	422		15					
	3.9	367							
	4.7	313		18.5					
	5.4	273							
	5.9	250		22					
	6.7	218							
	7.2	203		30					
7.9	185								
9.0	163	37							
11	139								
12	121	45							
50000	0.04	32625	K 187R97 KA 187R97	0.55					
	0.05	27165							
	0.06	24353							
	0.07	19144							
	0.08	16978							
	0.10	14272		0.75					
	0.11	13116							
	0.12	11647							
	0.13	10413		1.1					
	0.15	9363							
	0.17	8126							
	0.19	7333		1.5					
	0.21	6738							
	0.24	5984							
	0.27	5350		2.2					
	0.30	4810							
	0.33	4364							
	0.39	3609		3					
	0.46	3062							
	0.56	2519		4					
0.63	2268								
0.69	2054								
0.78	1821	5.5							
0.88	1605								
1.0	1395	7.5							
1.2	1196								
2.0	737	15							
2.4	619								
2.8	524	18.5							

K

All gear units are overloaded in above table. Determination of operating torque should not higher than the gearunit's nominal torque.



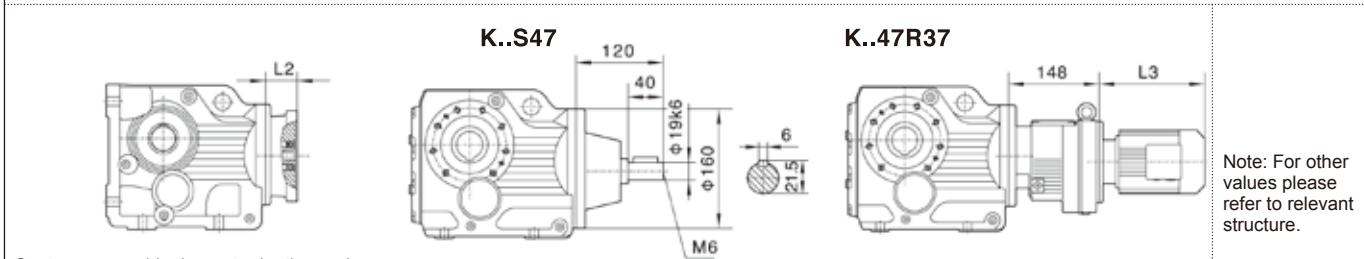
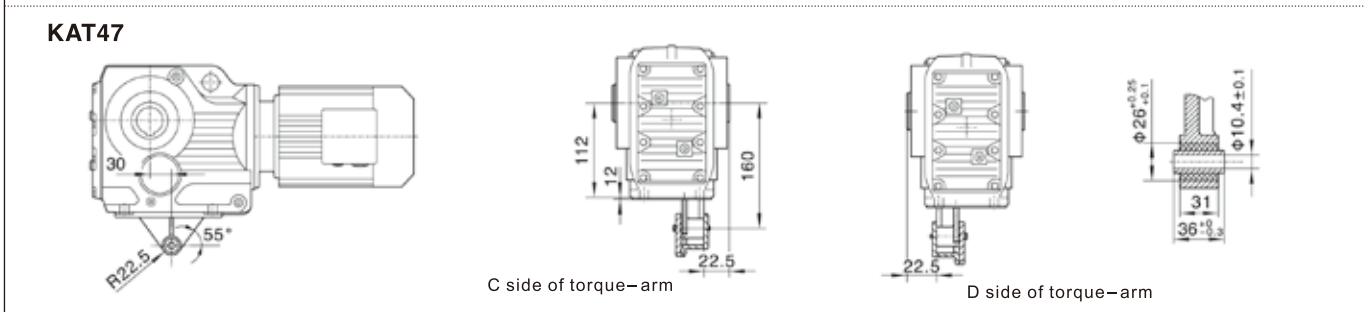
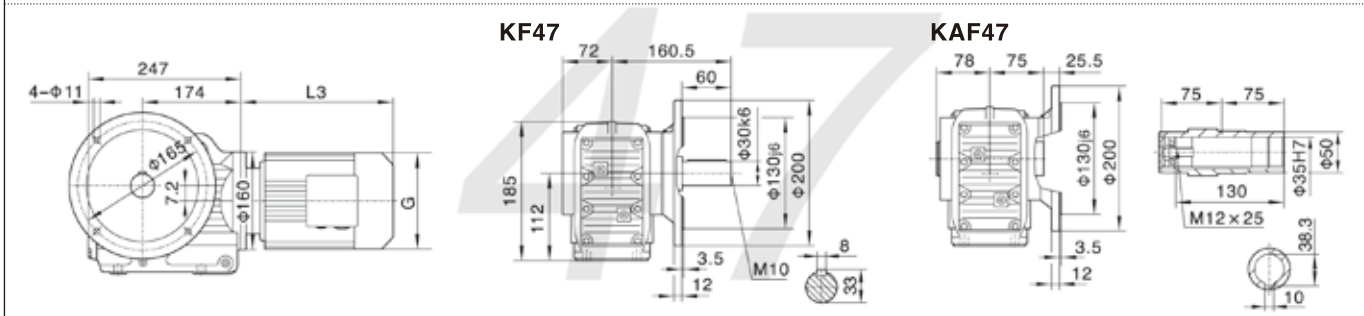
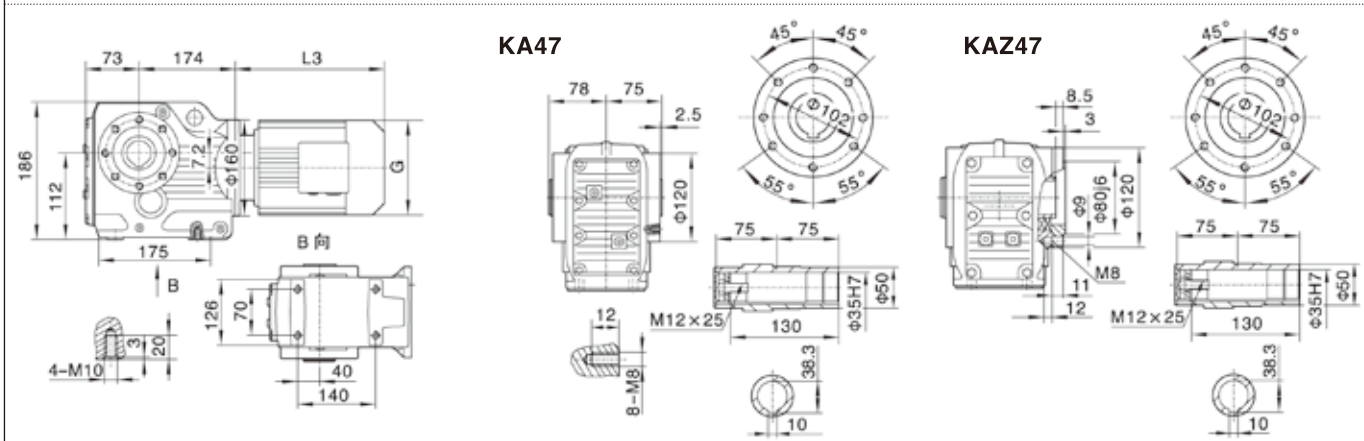
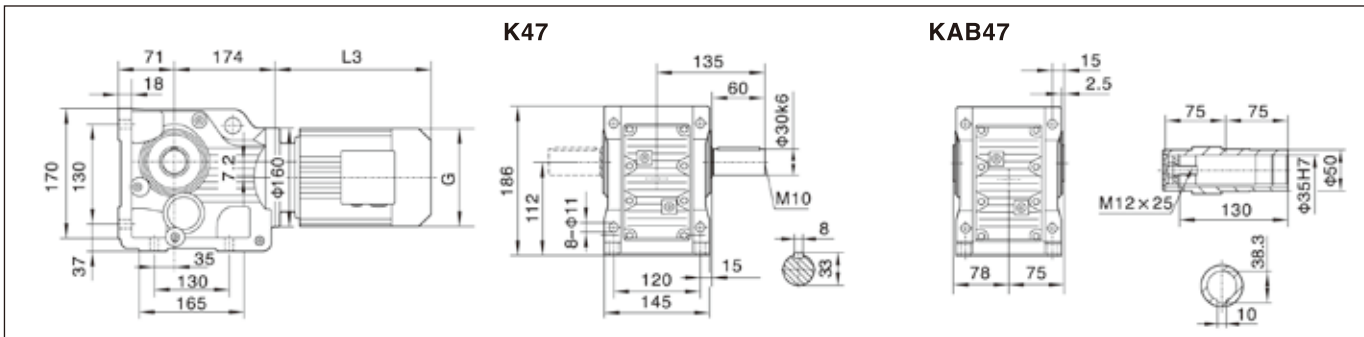
K



Customers provide the motor by themselves need connected flange.

Motor size	63	71	80	90S	90L	100				
Power/(kW)	0.18	0.25 0.37	0.55 0.75	1.1	1.5	2.2 3.0				
L3	235	245	278	304	328	340				
G	130	145	175	195	195	215				
L2	71	71	71	71	71	93				

Note:1.The housings of KA、KF、KAF、KAZ are common parts.The mounting dimensions may consult each other. 2. "K..." means K, KA, KF, KAF, KAZ, KAB.

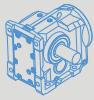


Note: For other values please refer to relevant structure.

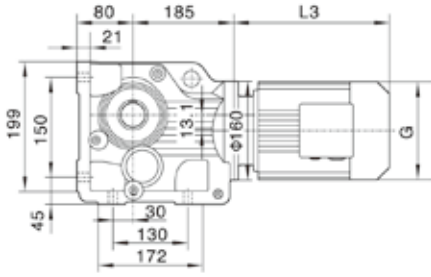
Customers provide the motor by themselves need connected flange.

Motor size	63	71	80	90S	90L	100	112M	132S	
Power/(kW)	0.18	0.25 0.37	0.55 0.75	1.1	1.5	2.2 3.0	4.0	5.5	
L3	223	245	278	304	328	350	383	428	
G	130	145	175	195	195	215	240	275	
L2	81	81	81	81	81	93	68	72	

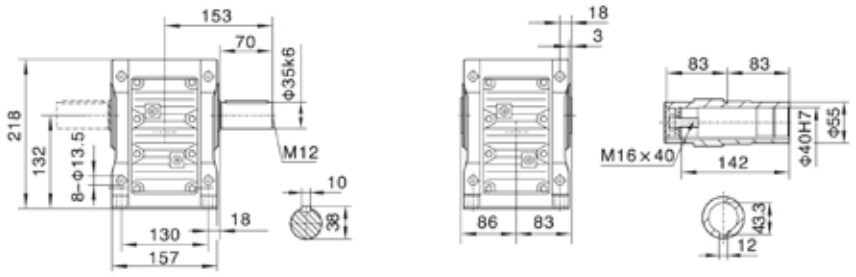
Note:1.The housings of KA, KF, KAF, KAZ are common parts.The mounting dimensions may consult each other. 2. "K..." means K, KA, KF, KAF, KAZ, KAB.



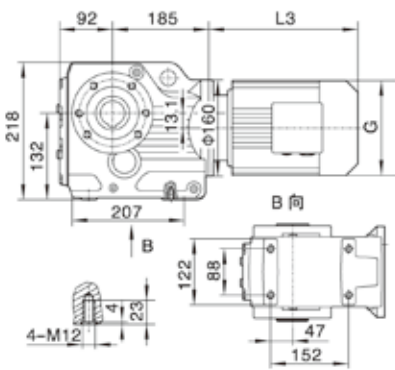
K57



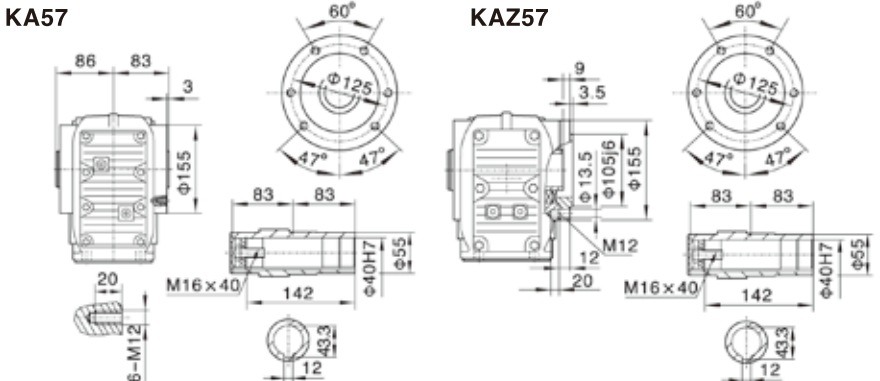
KAB57



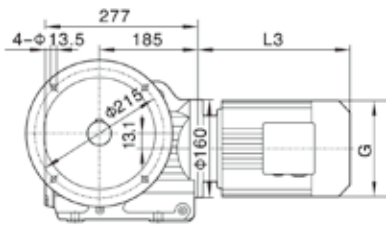
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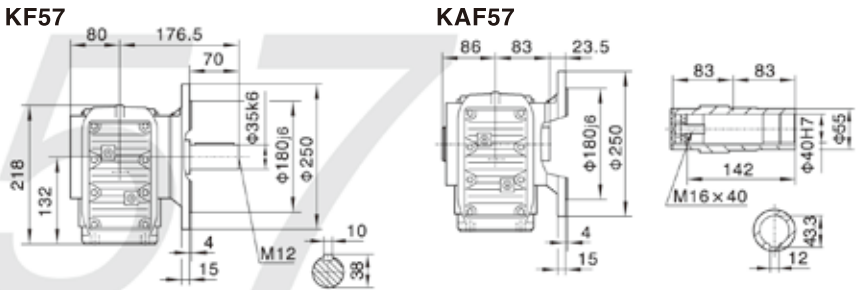
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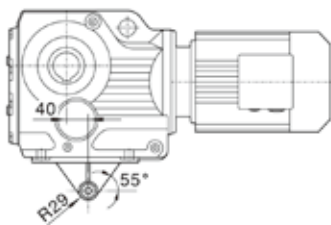
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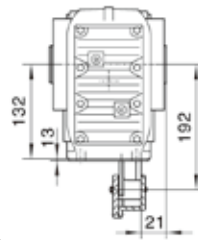
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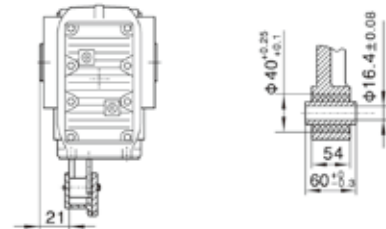
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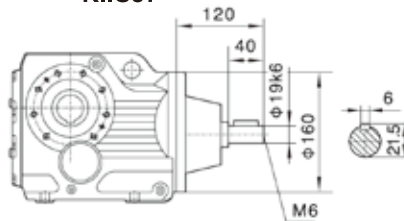
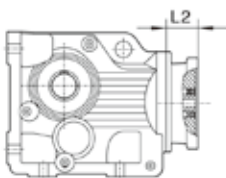
C side of torque-arm



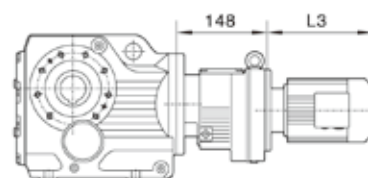
D side of torque-arm



K..S57



K..57R37

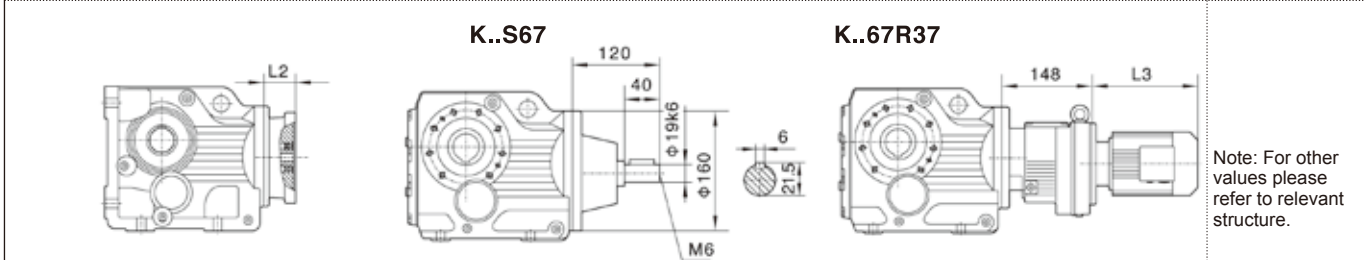
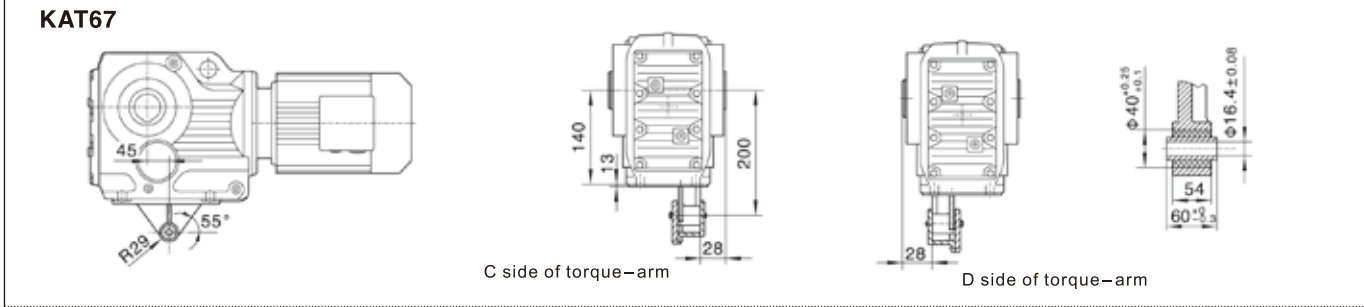
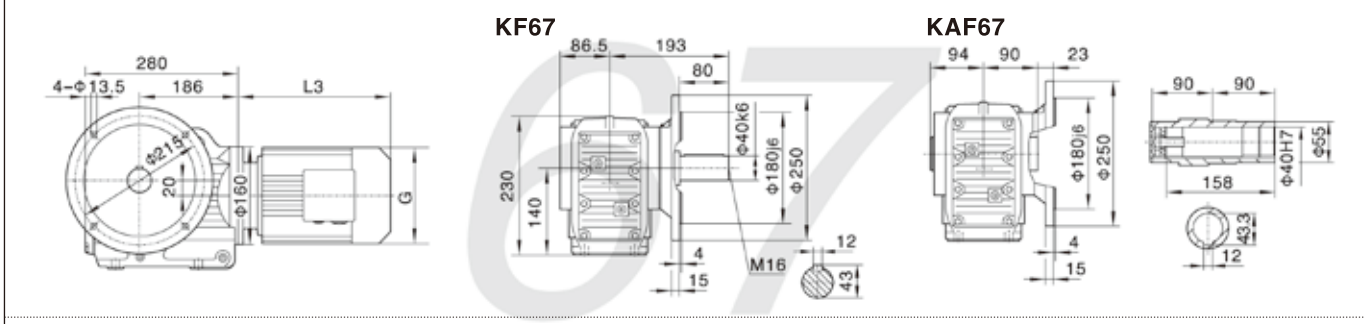
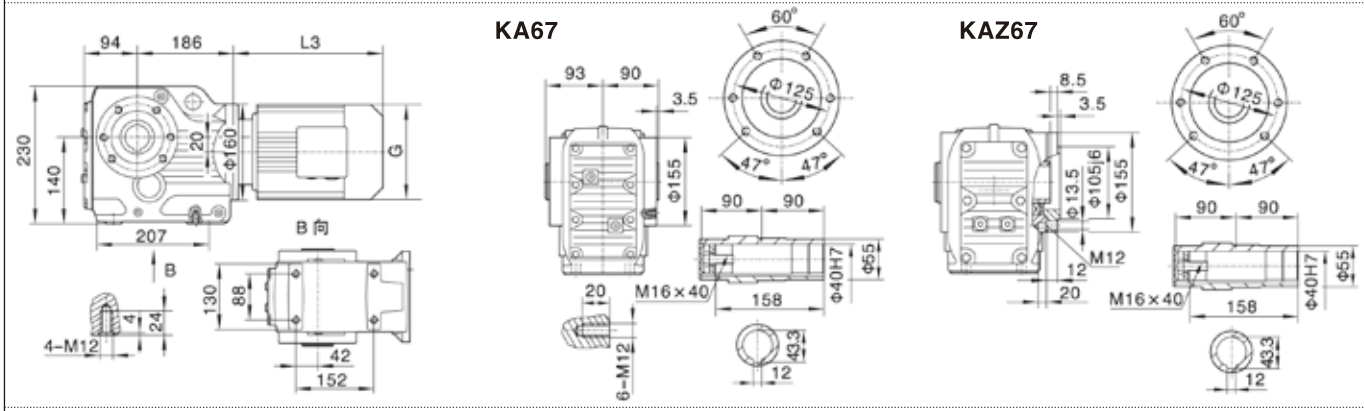
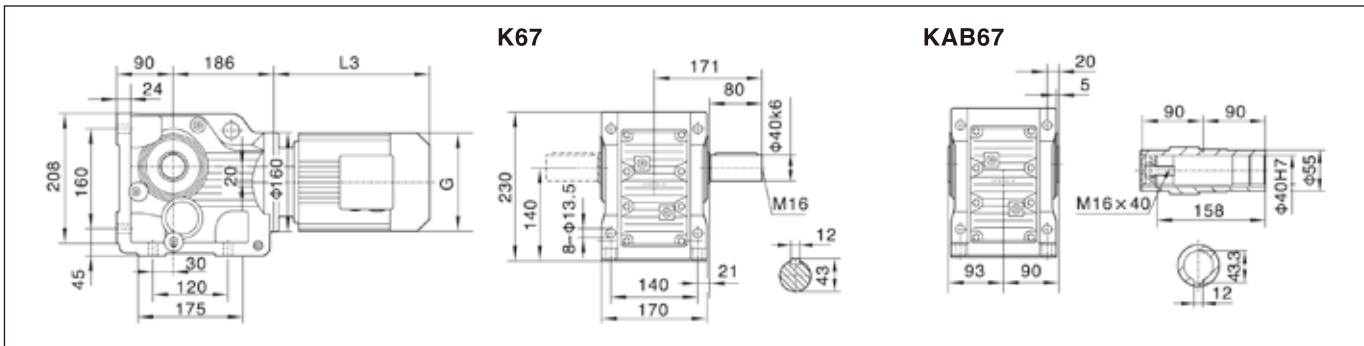


Note: For other values please refer to relevant structure.

Customers provide the motor by themselves need connected flange.

Motor size	63	71	80	90S	90L	100	112M	132S		
Power/(kW)	0.18	0.25 0.37	0.55 0.75	1.1	1.5	2.2 3.0	4.0	5.5		
L3	223	245	278	304	328	350	380	425		
G	130	145	175	195	195	215	240	275		
L2	81	81	81	81	81	93	93	101		

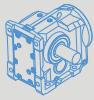
Note:1.The housings of KA、KF、KAF、KAZ are common parts.The mounting dimensions may consult each other. 2. "K..." means K, KA, KF, KAF, KAZ, KAB.



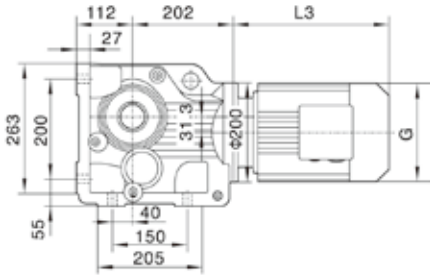
Customers provide the motor by themselves need connected flange.

Motor size	63	71	80	90S	90L	100	112M	132S		
Power/(kW)	0.18	0.25 0.37	0.55 0.75	1.1	1.5	2.2 3.0	4.0	5.5		
L3	223	245	278	304	328	350	380	425		
G	130	145	175	195	195	215	240	275		
L2	81	81	81	81	81	93	93	101		

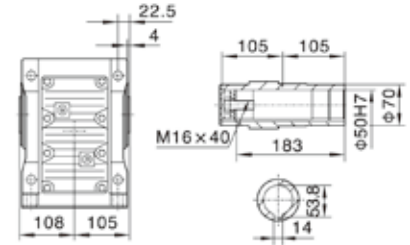
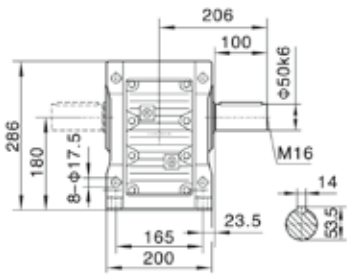
Note:1.The housings of KA, KF, KAF, KAZ are common parts.The mounting dimensions may consult each other. 2. "K..." means K, KA, KF, KAF, KAZ, KAB.



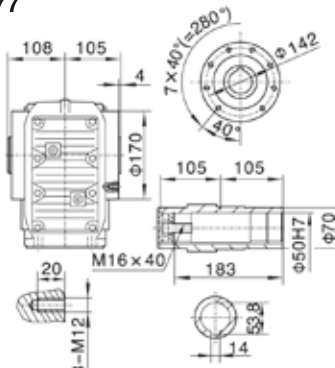
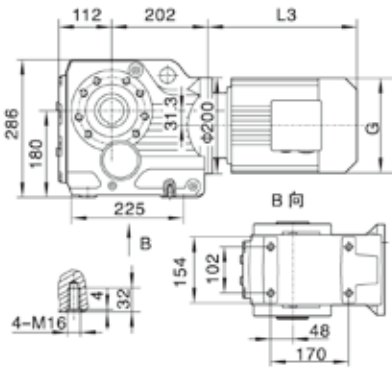
K77



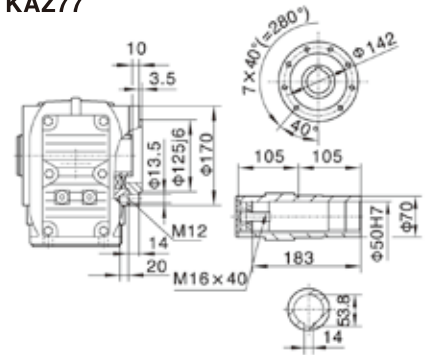
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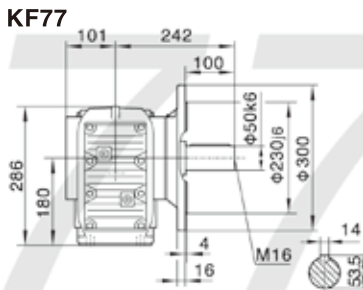
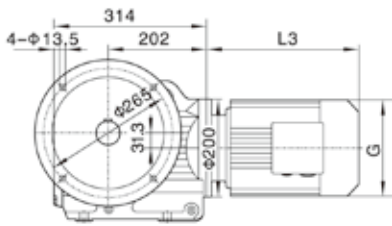
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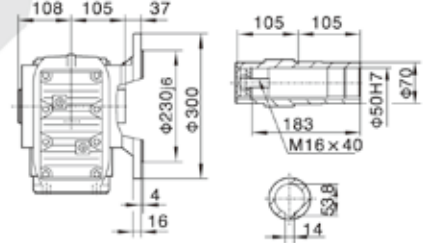
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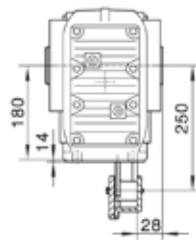
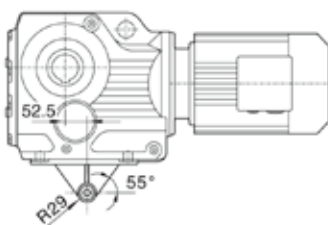
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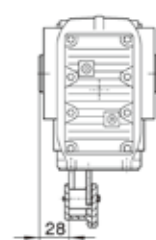
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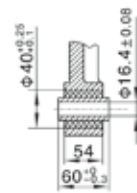
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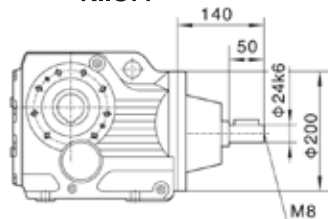
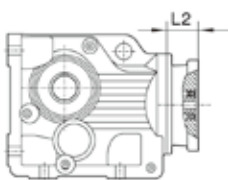
C side of torque-arm



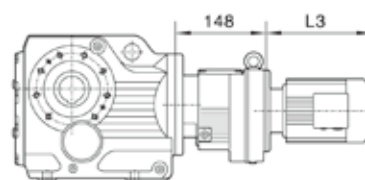
D side of torque-arm



K..S77



K..77R37

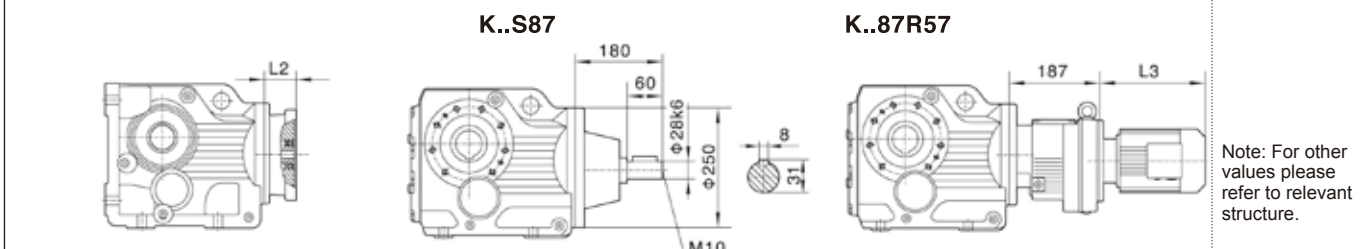
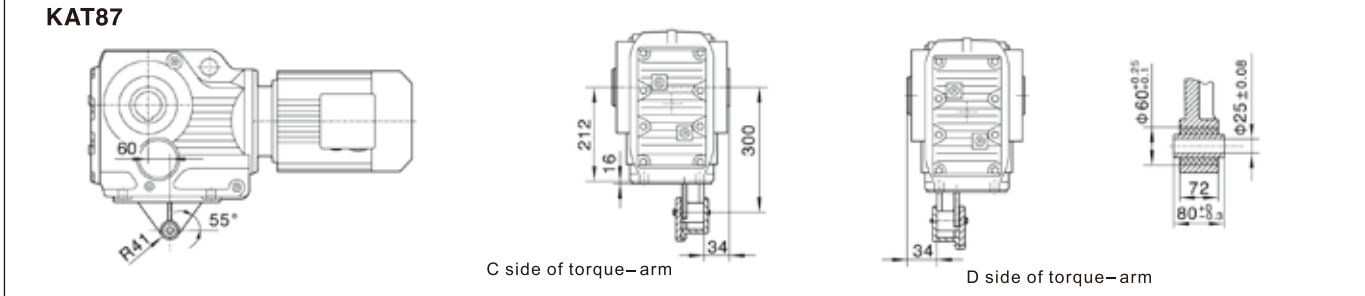
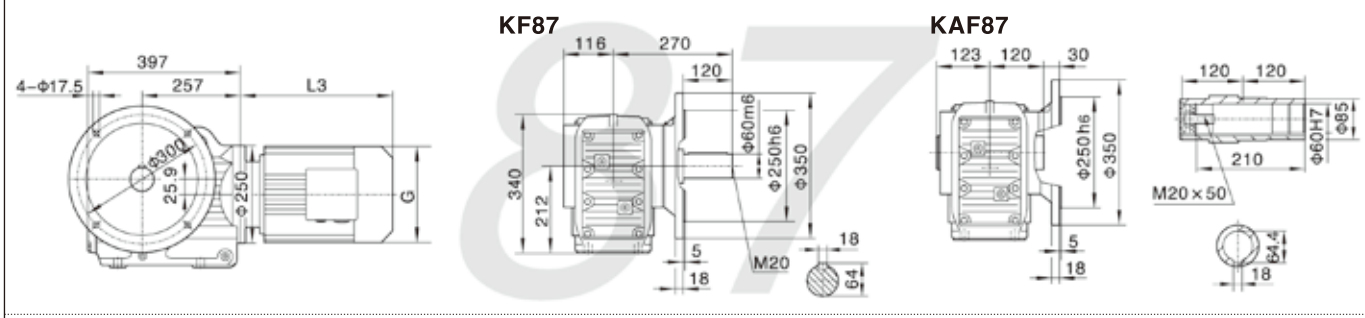
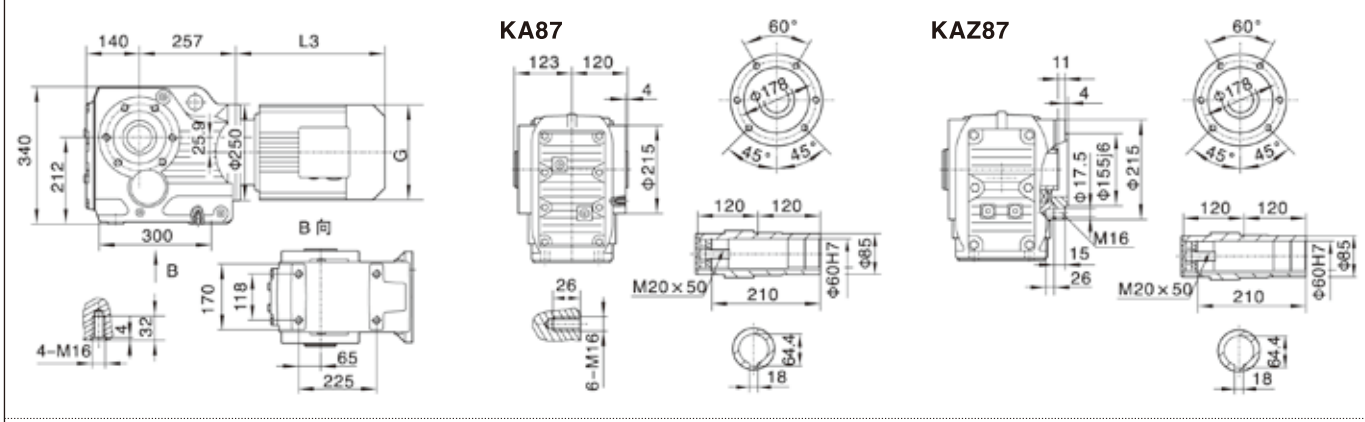
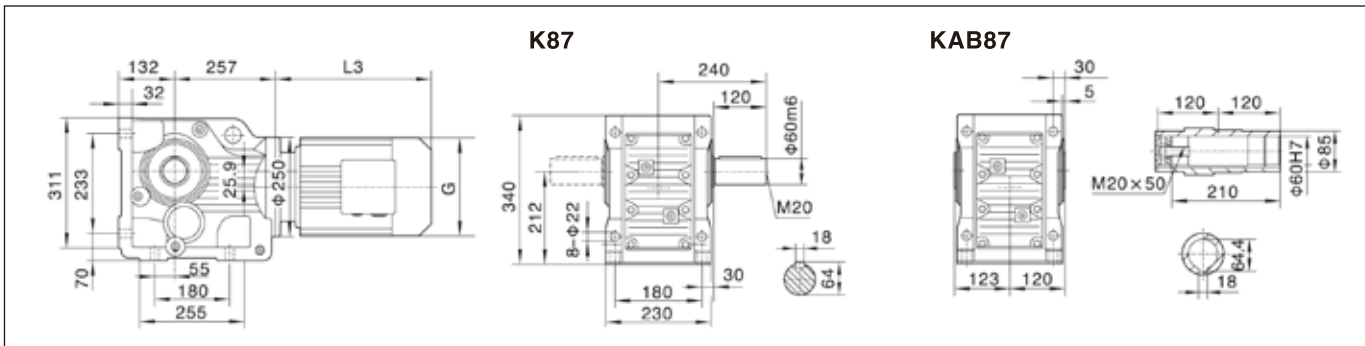
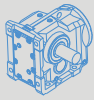


Note: For other values please refer to relevant structure.

Customers provide the motor by themselves need connected flange.

Motor size	71	80	90S	90L	100	112M	132S	132M	160M	
Power/(kW)	0.37	0.55 0.75	1.1	1.5	2.2 3.0	4.0	5.5	7.5	11	
L3	233	278	304	328	350	380	425	461	524	
G	145	175	195	195	215	240	275	275	330	
L2	81	81	81	81	93	93	101	101	126	

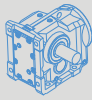
Note:1.The housings of KA、KF、KAF、KAZ are common parts.The mounting dimensions may consult each other. 2. "K.." means K, KA, KF, KAF, KAZ, KAB.



Customers provide the motor by themselves need connected flange.

Motor size	80	90S	90L	100	112M	132S	132M	160M	160L	180M	180L	
Power/(kW)	0.75	1.1	1.5	2.2	3.0	4.0	5.5	7.5	11	15	18.5	22
L3	246	280	304	350	380	425	461	524	547	583	616	
G	175	195	195	215	240	275	275	330	330	380	380	
L2	86	86	86	71	71	101	101	126	126	126	126	

Note:1.The housings of KA, KF, KAF, KAZ are common parts.The mounting dimensions may consult each other. 2. "K..." means K, KA, KF, KAF, KAZ, KAB.



K

K97

KAB97

KA97

KAZ97

KF97

KAF97

KAT97

K..S97

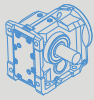
K..97R57

Customers provide the motor by themselves need connected flange.

Note: For other values please refer to relevant structure.

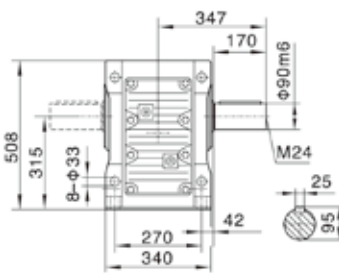
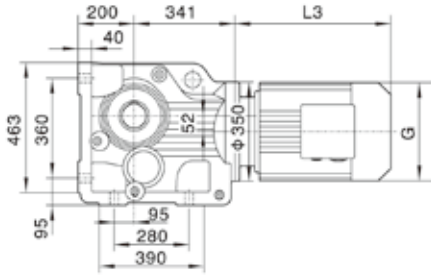
Motor size	90S	90L	100	112M	132S	132M	160M	160L	180M	180L	200	
Power/(kW)	1.1	1.5	2.2	3.0	4.0	5.5	7.5	11	15	18.5	22	30
L3	280	304	315	334	425	461	524	547	555	588	652	
G	195	195	215	240	275	275	330	330	380	380	420	
L2	86	86	101	101	101	101	126	126	126	126	132	

Note:1.The housings of KA、KF、KAF、KAZ are common parts.The mounting dimensions may consult each other. 2. "K.." means K, KA, KF, KAF, KAZ, KAB.

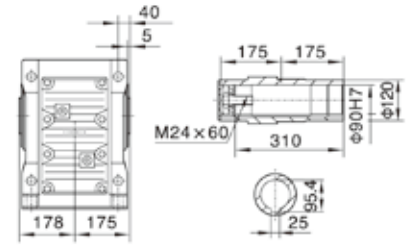


K

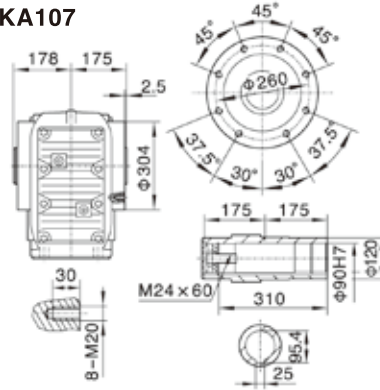
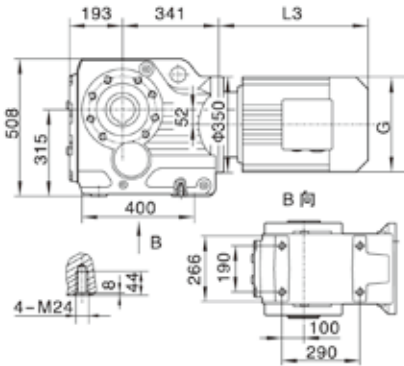
K107



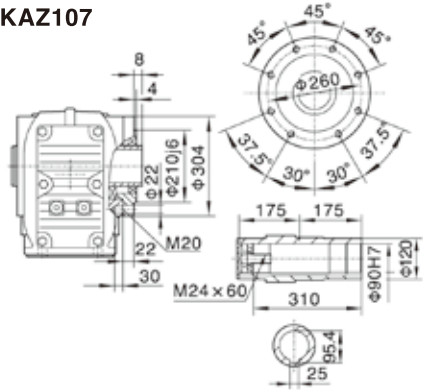
KAB107



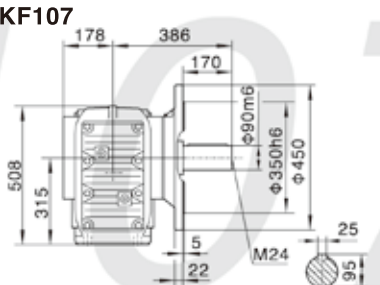
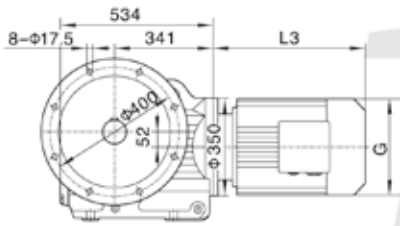
KA107



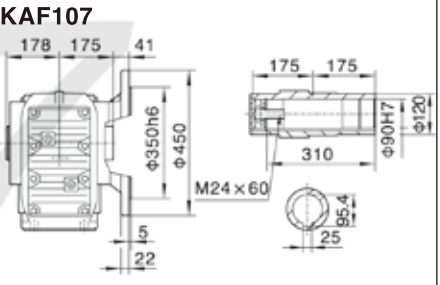
KAZ107



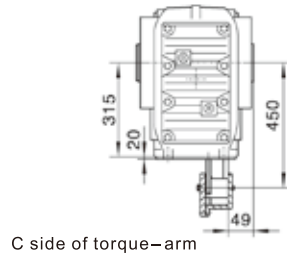
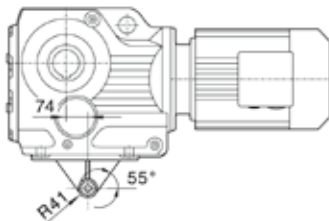
KF107



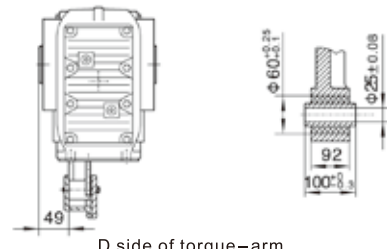
KAF107



KAT107

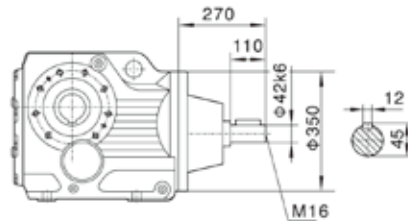
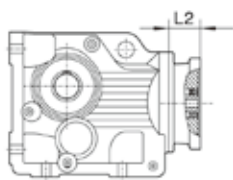


C side of torque-arm

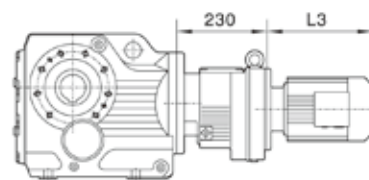


D side of torque-arm

K..S107



K..107R77

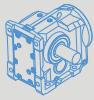


Note: For other values please refer to relevant structure.

Customers provide the motor by themselves need connected flange.

Motor size	100	112M	132S	132M	160M	160L	180M	180L	200	225S	225M
Power/(kW)	3.0	4.0	5.5	7.5	11	15	18.5	22	30	37	45
L3	318	334	386	422	504	519	555	588	654	680	702
G	215	240	275	275	330	330	380	380	420	470	470
L2	101	101	101	101	126	126	126	126	132	132	132

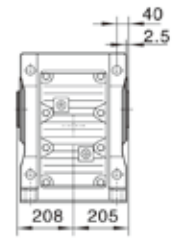
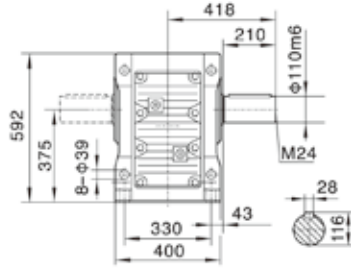
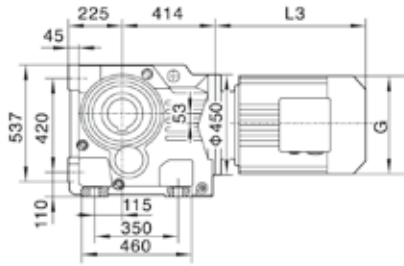
Note:1.The housings of KA, KF, KAF, KAZ are common parts.The mounting dimensions may consult each other. 2. "K..." means K, KA, KF, KAF, KAZ, KAB.



K

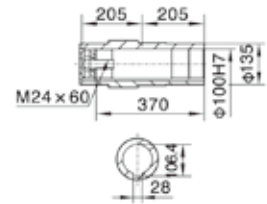
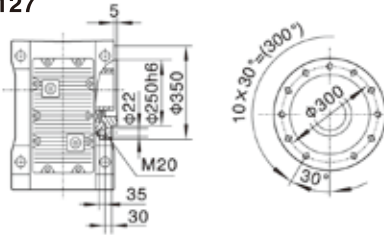
K127

KA(KAB)127



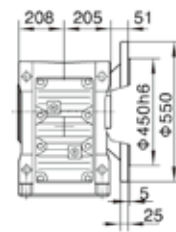
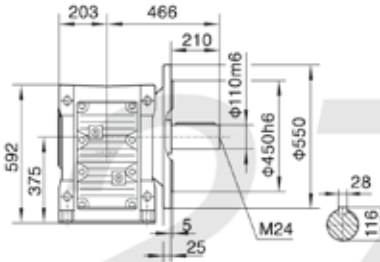
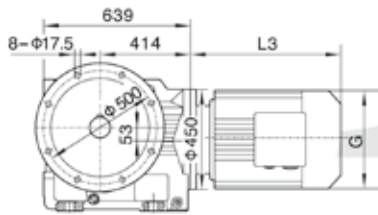
KAZ127

KA127/KAF127/KAZ127
空心轴/Hollow shaft

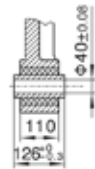
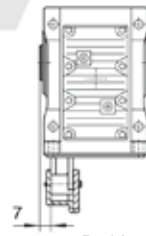
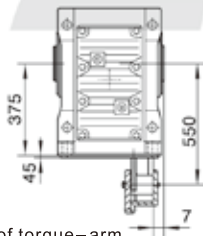
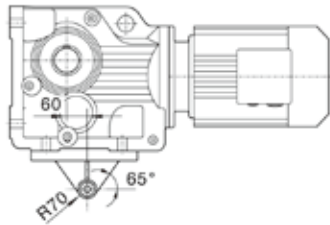


KF127

KAF127



KAT127

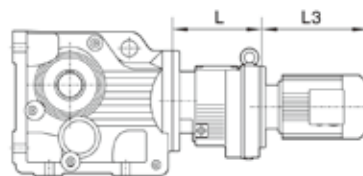
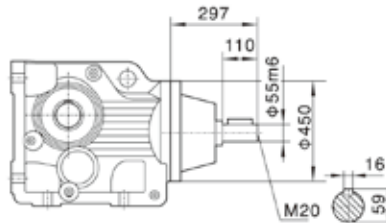
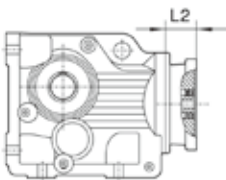


C side of torque-arm

D side of torque-arm

K..S127

K..127R77(R87)



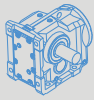
Note: For other values please refer to relevant structure.

Customers provide the motor by themselves need connected flange.

	K..127R77	K..127R87
L	232	275

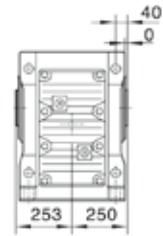
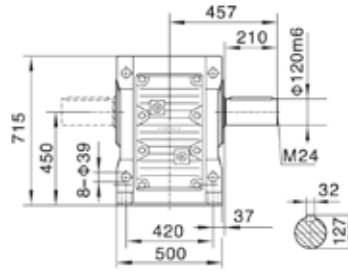
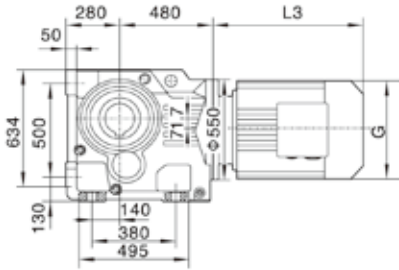
Motor size	132M	160M	160L	180M	180L	200	225S	225M	250	280S	280M
Power/(kW)	7.5	11	15	18.5	22	30	37	45	55	75	90
L3	424	567	602	583	616	654	674	696	775	847	847
G	275	330	330	380	380	420	470	470	510	580	580
L2	132	132	132	132	132	132	143	143	174	174	174

Note:1. The housings of KA, KF, KAF, KAZ are common parts. The mounting dimensions may consult each other. 2. "K..." means K, KA, KF, KAF, KAZ, KAB.

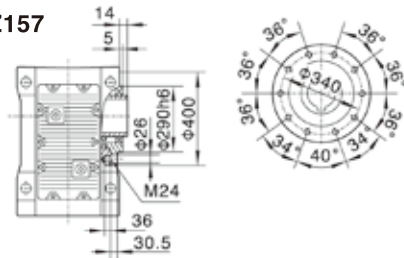


K157

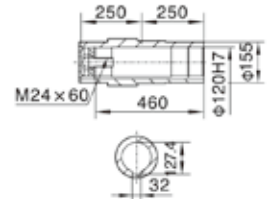
KA(KAB)157



KAZ157

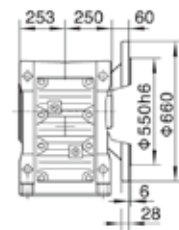
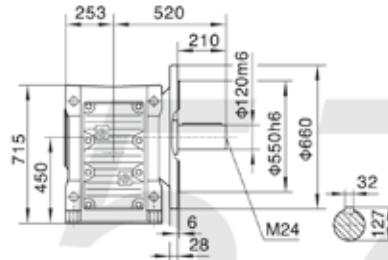
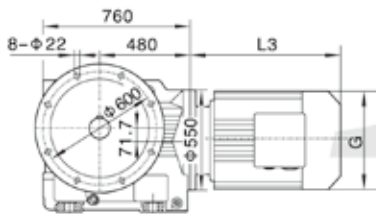


**KA157/KAF157/KAZ157
Hollow shaft**

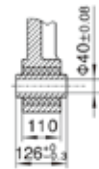
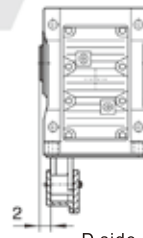
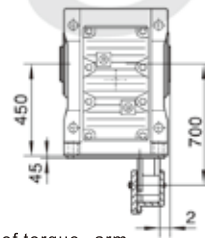
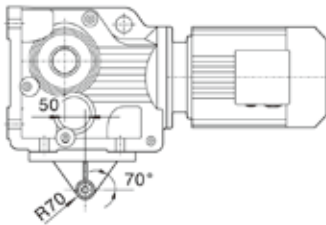


KF157

KAF157



KAT157

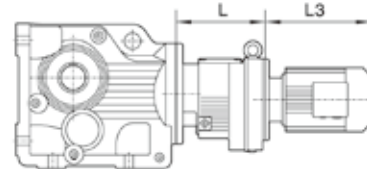
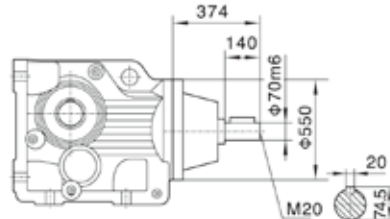
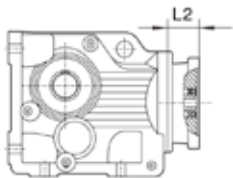


C side of torque-arm

D side of torque-arm

K..S157

K..157R97(R107)



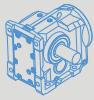
Note: For other values please refer to relevant structure.

Customers provide the motor by themselves need connected flange.

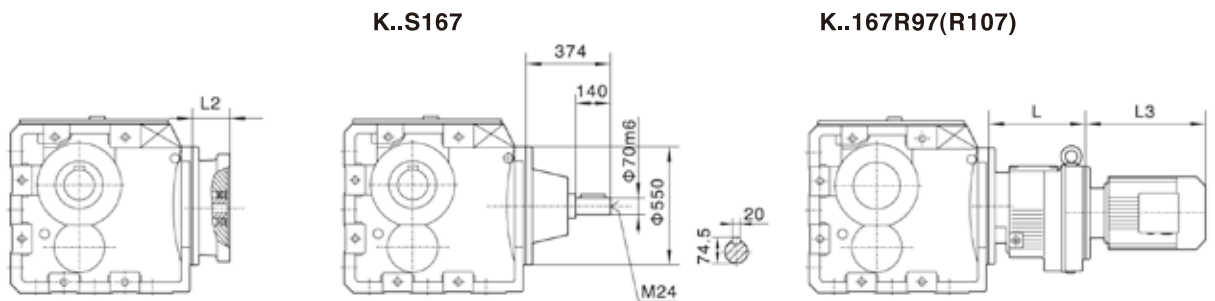
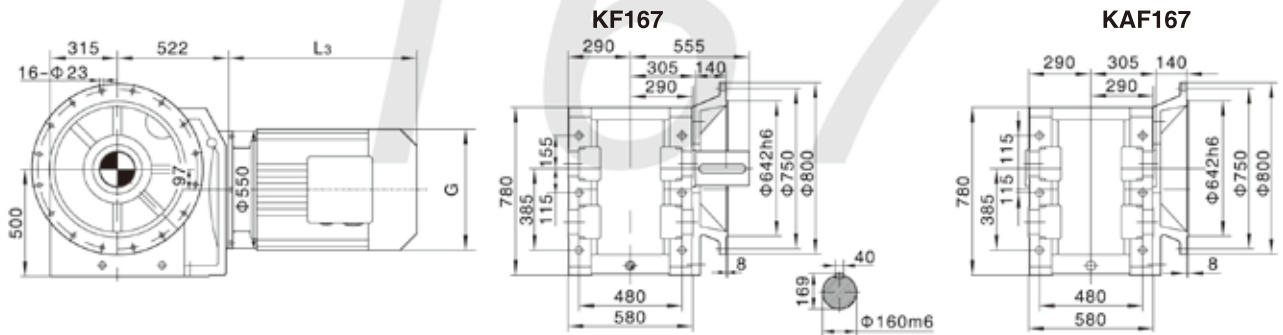
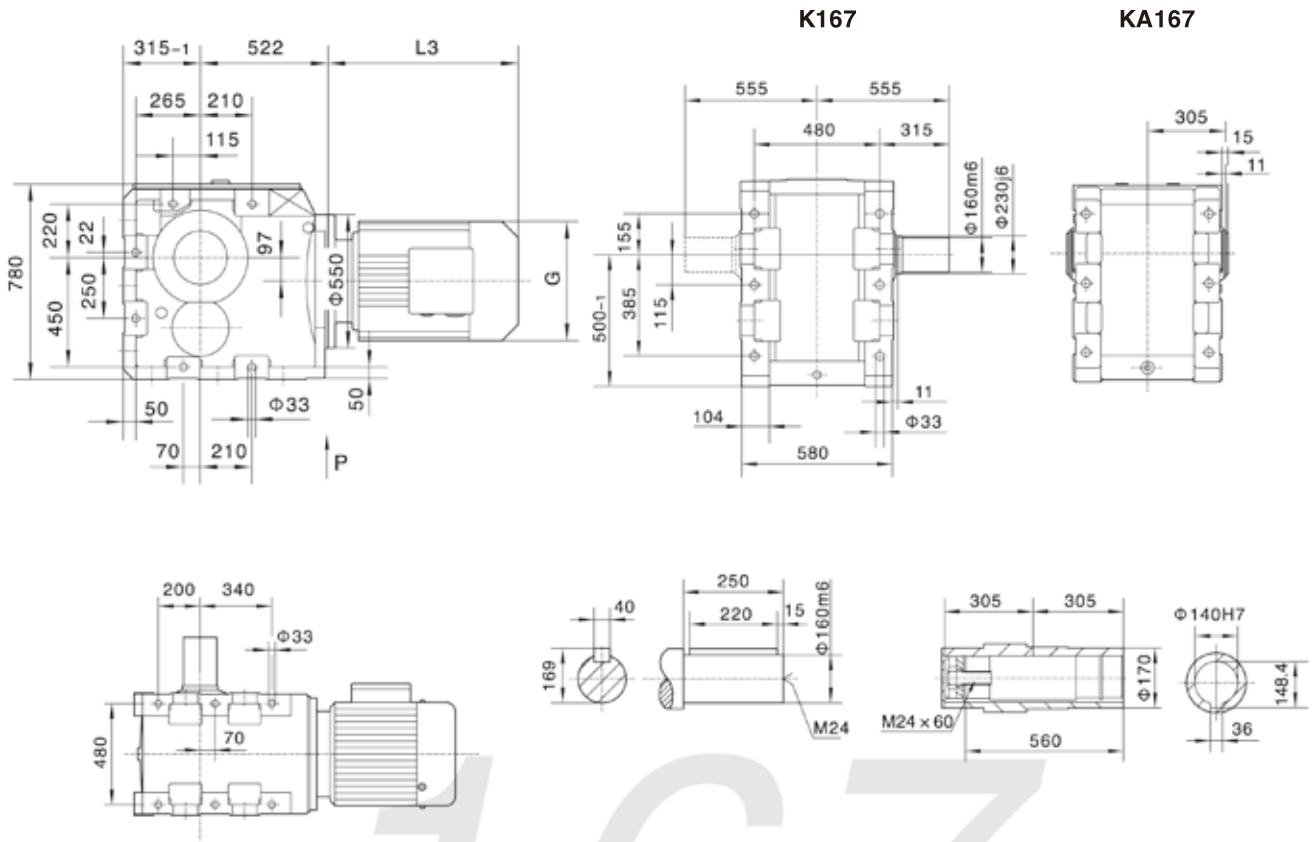
	K..157R97	K..157R107
L	320	370

Motor size	160M	160L	180M	180L	200	225S	225M	250	280S	280M	315S	315M	315L
Power/(kW)	11	15	18.5	22	30	37	45	55	75	90	110	132	160
L3	567	602	635	666	642	669	691	770	828	879	1100	1180	1270
G	330	330	380	380	420	470	470	510	580	580	645	645	645
L2	143	143	143	143	143	143	143	143	143	143	145	145	145

Note:1.The housings of KA, KF, KAF, KAZ are common parts.The mounting dimensions may consult each other. 2. "K..." means K, KA, KF, KAF, KAZ, KAB.



K

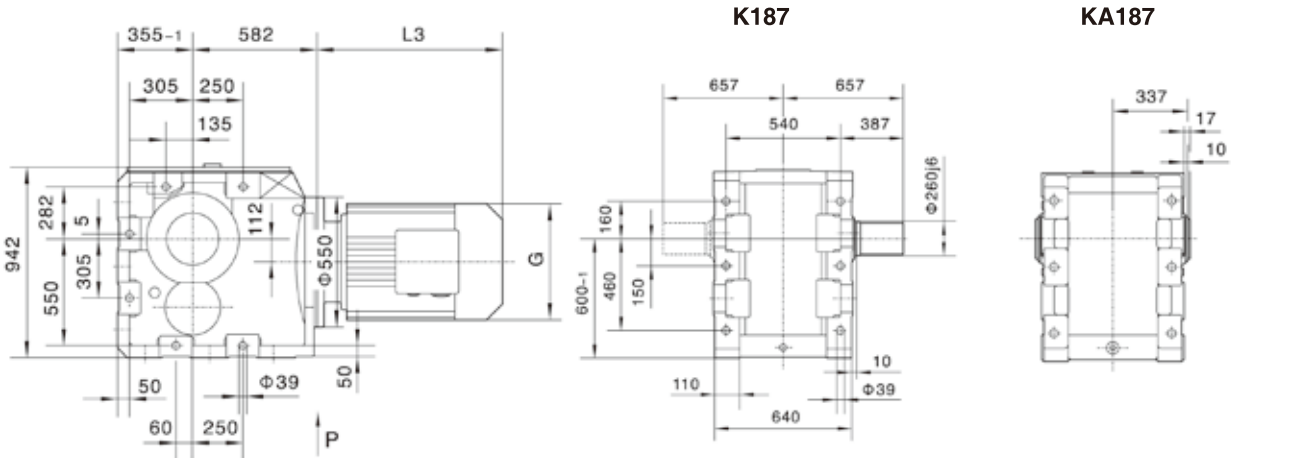
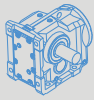


Customers provide the motor by themselves need connected flange.

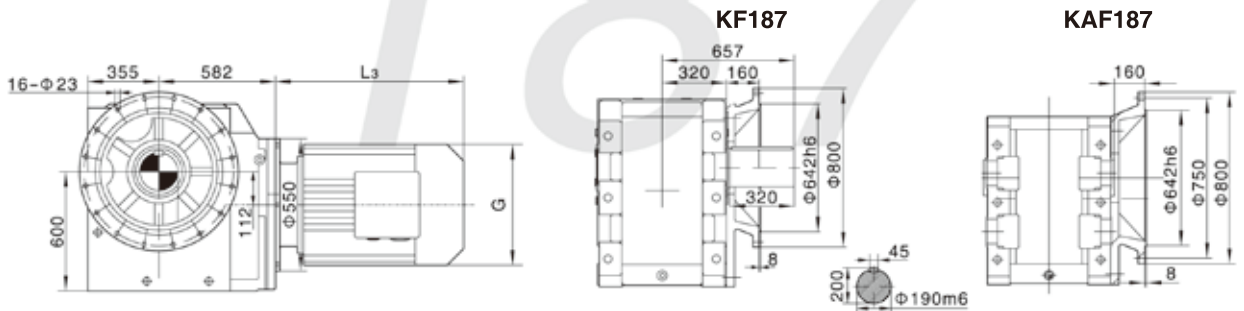
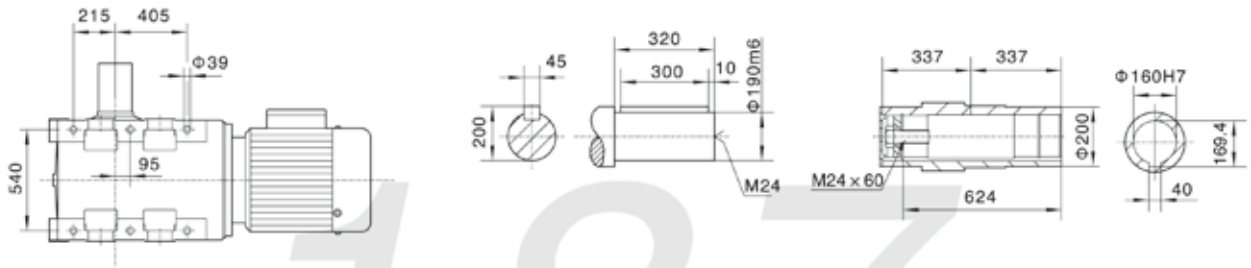
Note: For other values please refer to relevant structure.

	K..167R97										K..167R107		
	L	320									370		
Motor size	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M	315S	315M	315L
Power/(kW)	11	15	18.5	22	30	37	45	55	75	90	110	132	160 200
L3	492	537	593	633	646	673	698	779	847	847	1100	1180	1270
G	330	330	380	380	420	470	470	510	580	580	645	645	645
L2	76	76	76	76	76	98	98	103	103	103	132	132	132

Note:1. The housings of KA, KF, KAF, KAZ are common parts. The mounting dimensions may consult each other. 2. "K..." means K, KA, KF, KAF, KAZ, KAB.

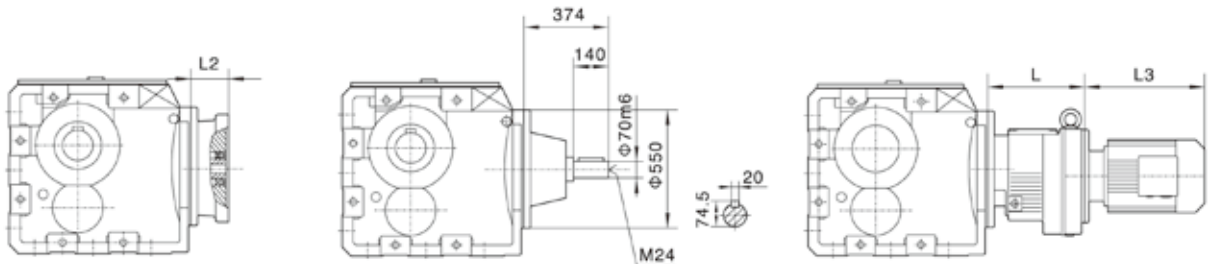


P向



K..S187

K..187R97(R107)

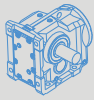


Customers provide the motor by themselves need connected flange.

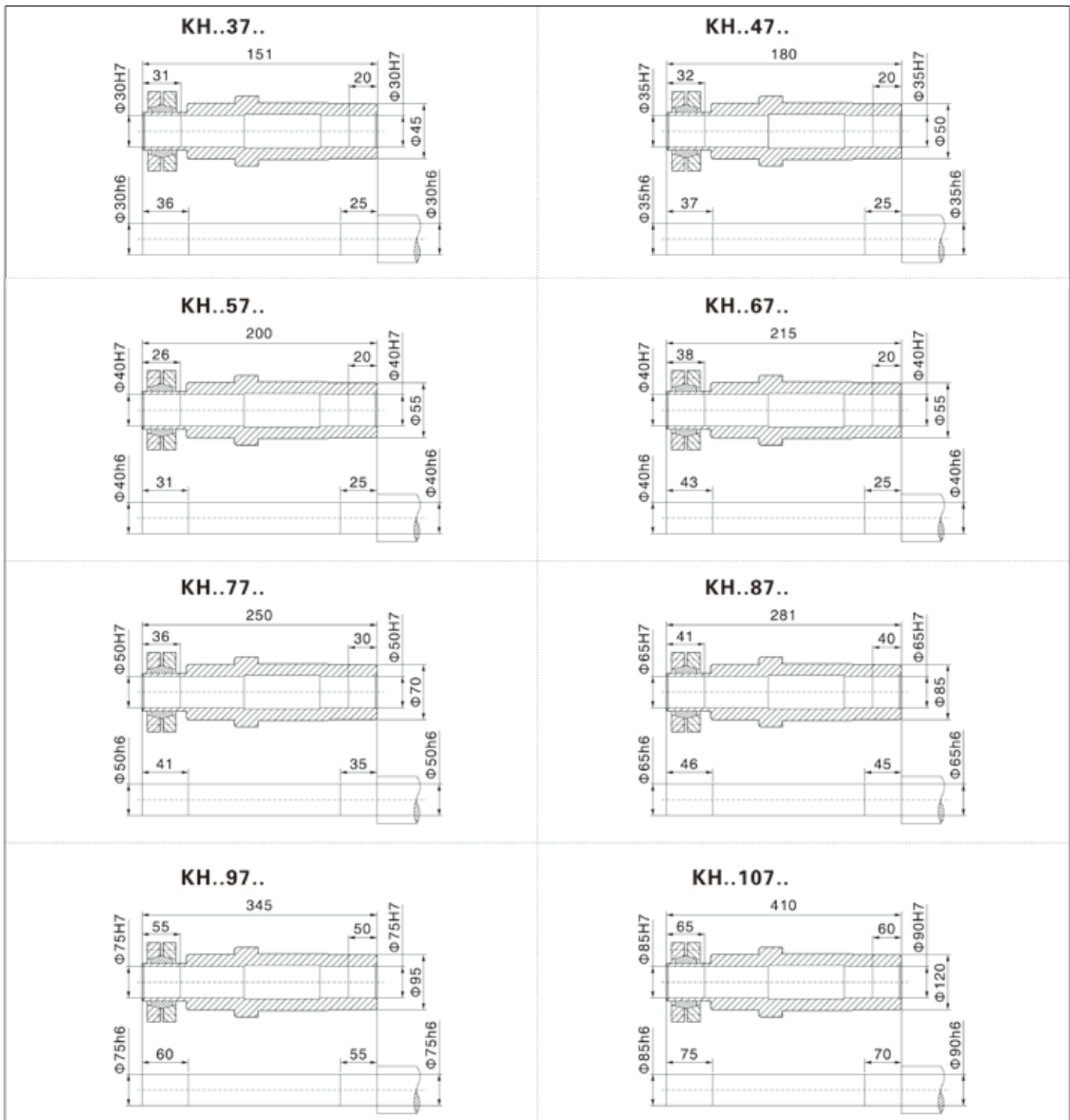
Note: For other values please refer to relevant structure.

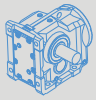
											K..187R97		K..187R107	
											L	320	370	
Motor size	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M	315S	315M	315L	
Power/(kW)	11	15	18.5	22	30	37	45	55	75	90	110	132	160	200
L3	492	537	593	633	646	673	698	779	847	847	1100	1180	1270	
G	330	330	380	380	420	470	470	510	580	580	645	645	645	
L2	76	76	76	76	76	98	98	103	103	103	132	132	132	

Note:1.The housings of KA, KF, KAF, KAZ are common parts.The mounting dimensions may consult each other. 2. "K..." means K, KA, KF, KAF, KAZ, KAB.

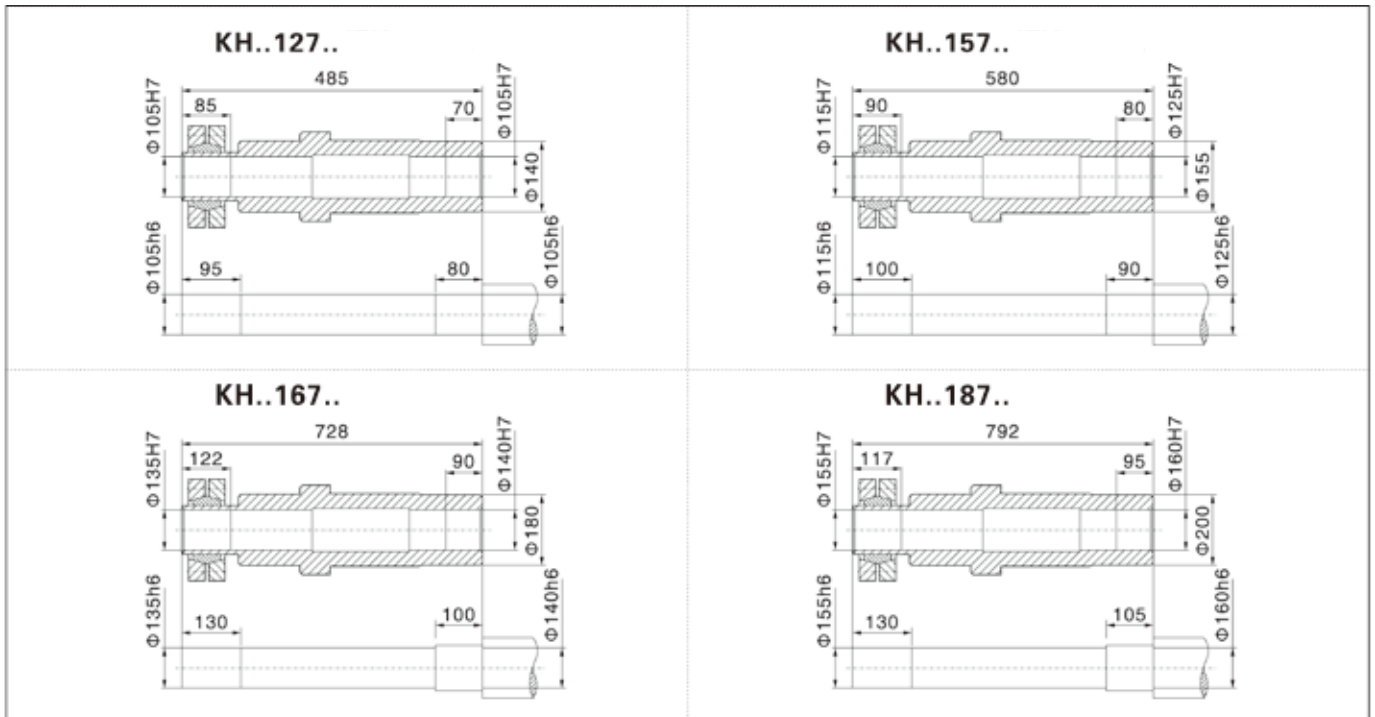


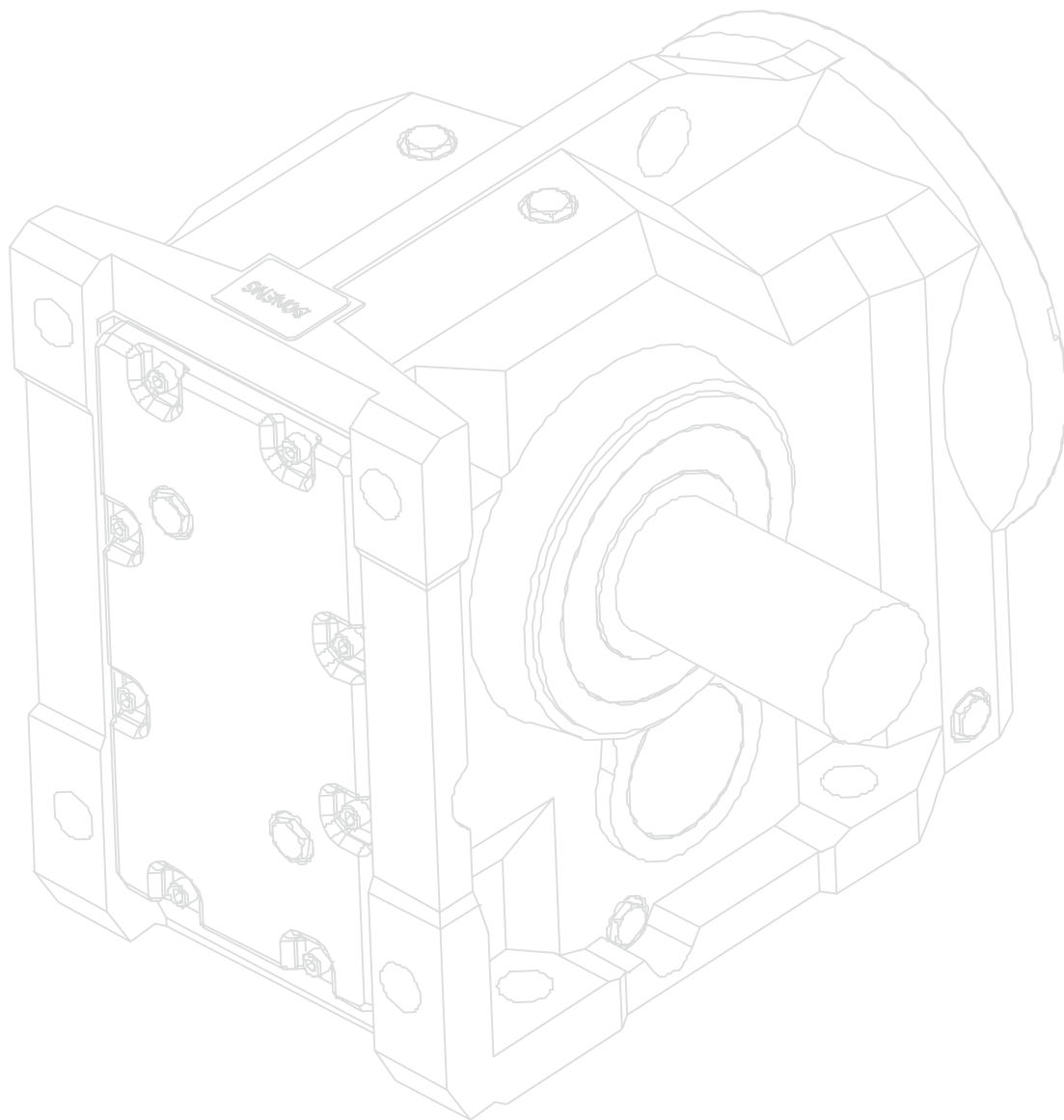
Dimensions of shrink disc





Dimensions of shrink disc





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