

GEDAEFFECT

ЦИЛИНДРО-КОНИЧЕСКИЕ
МОТОР-РЕДУКТОРЫ



серия К



Gedaeffect
The Engineering Company



ОПИСАНИЕ ПРОДУКЦИИ

Цилиндро-конические мотор-редукторы серии К оснащены двумя парами конических шестерен и одним спиральным зубчатым колесом, что позволяет сформировать правильный угол входа и выхода.

Цилиндро-конические мотор-редукторы обладают высоким коэффициентом наложения, высокой несущей способностью, уравновешенным приводом и высокой надежностью.

Материал конической шестерни – легированная сталь 200CrMnTi, твердость – до 58-62 HRC после отпуска, цементации, закалки, термообработки и т.д.

Момент (2 ступени): 200-2767 Н м; момент (3 ступени): 155-50000 Н м. Коэффициент (2 ступени): 3,5-6,8; коэффициент (3 ступени): 8,1-191.

Мощность (2 ступени): 1,5-90 кВт; мощность (3 ступени): 0,12-200 кВт.

Способ монтажа: на лапах, на фланце В5 или В14, на коротком фланце, на моментном рычаге.

Выходной вал: сплошной вал, полый вал (со шпонкой, стяжной муфтой, эвольвентными шлицами).

Используются, главным образом, в металлургии, обработке сточных вод, химической промышленности, фармацевтике, сельскохозяйственном оборудовании, нефтедобывающей промышленности, ленточных конвейерах, пищевом оборудовании, миксерах, автоматических производственных линиях, упаковке, транспортировке материалов, производстве бумаги, сахара, инженерном оборудовании, строительстве, электромеханической промышленности и т.д.



ОСНОВНЫЕ МОДЕЛИ

– K37, K47, K57, K67, K77, K87, K97, K107, K127, K157, K167, K187. K: на лапах, сплошной вал
– KA37, KA47, KA57, KA67, KA77, KA87, KA97, KA107, KA127, KA157, KA167, KA187.

KA: полый вал

– KAB37, KAB47, KAB57, KAB67, KAB77, KAB87, KAB97, KAB107, KAB127, KAB157, KAB167, KAB187. KAB: на лапах, полый вал

– KF37, KF47, KF57, KF67, KF77, KF87, KF97, KF107, KF127, KF157, KF167, KF187. KF: на фланце, сплошной вал

– KAF37, KAF47, KAF57, KAF67, KAF77, KAF87, KAF97, KAF107, KAF127, KAF157, KAF167, KAF187. KAF: на фланце, полый вал

– KAT37, KAT47, KAT57, KAT67, KAT77, KAT87, KAT97, KAT107, KAT127, KAT157, KAT167, KAT187. KAT: на моментном рычаге, полый вал

– KAZ37, KAZ47, KAZ57, KAZ67, KAZ77, KAZ87, KAZ97, KAZ107, KAZ127, KAZ157, KAZ167, KAZ187. KAZ: на коротком фланце, полый вал

ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ

- Высокомодульная конструкция, компактность
- Высокая эффективность зубчатых передач, свыше 90%
- Многоступенчатые передачи (2 или 3 ступени) для обеспечения низкой выходной скорости
- Способность выдерживать высокие нагрузки, стабильность передачи, низкий уровень шума
- Высокая степень герметичности, экономия затрат, низкая стоимость обслуживания, широкий спектр применения

СФЕРЫ ПРИМЕНЕНИЯ

- Серия Y Стандарт IEC и IE2 Односкоростные и двухскоростные высокоэффективные двигатели
- Серия YVP, YVPEJ, YEJ, YDEJ Трехфазные асинхронные тормозные двигатели переменной частоты
- Серия YZP, YZPEJ, YZRE Трехфазные асинхронные двигатели для кранов и металлургической промышленности
- Серия YB, YBEJ, YBPT, YFB Трехфазные асинхронные взрывозащитные двигатели
- Серия YGa, YGb Двигатели для рольгангов
- Синхронные двигатели, двигатели постоянного тока, серводвигатели

РУКОВОДСТВО ПО ВЫБОРУ ОБОРУДОВАНИЯ

Конструкция двигателей предусматривает постоянные нагрузки, заявленное время работы, также время пуска. Коэффициент привода f_1 , коэффициент первичного пуска f_2 , пусковой коэффициент f_3 – согласно фактической нагрузке, времени работы, пусковой частоте.

Принимаются значения, меньше либо равные расчетному коэффициенту f_b Таблицы, то есть $f_1 * f_2 * f_3 \leq f_b$.

Требуемый момент при умножении на расчетный коэффициент ($f_1 * f_2 * f_3$) должен быть меньше либо равен допустимому моменту редуктора.

Таким образом,

$$T_N \geq T_2 * f_1 * f_2 * f_3$$

f_1 – коэффициент привода (см. Таблицу 1)

f_2 – коэффициент первичного пуска (см. Таблицу 2)

f_3 – коэффициент пуска (см. Таблицу 3)

T_2 – требуемый момент

T_N – допустимый

Sample Part Number

Service factor:

Table 1				Driven machine factor				f ₁
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 conveyor	-	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	-	-	-					
Centrifugal pump	1.0	1.2	1.3	Various frequency device	-	1.8	2.0	
Volume-down pump	-	-	-					
1Piston	1.3	1.4	1.8	Reciprocating compressor	-	1.8	1.9	
>1Piston	1.2	1.4	1.5					
Dredge				Hoisting mechanism**				
Bucket conveyor	-	1.6	1.6	Rotary mechanism*	-	1.4	1.8	
Unloading device	-	1.3	1.5	Pitching mechanism	-	1.1	1.4	
Carterpillar traveling mechanism	1.2	1.6	1.8	Traveling mechanism	-	1.6	2.0	
Bucket digger	-	-	-	Lifting mechanism	-	1.1	1.4	
Be used for picking up	-	1.7	1.7	Jibcrane	-	1.2	1.6	
Be used for rough materials	-	2.2	2.2					
Chopper	-	2.2	2.2	Cooling tower				
Traveling mechanism*	-	1.4	1.8	Cooling tower fan	-	-	2.0	
				Fan (Shaft flow and centrifugal type)	-	1.4	1.5	
Plate blender	-	1.0	1.0					
Chemical industry				Food industry				
Extruder	-	-	1.6	Sugar production				
Paste mixer	-	1.8	1.8	Sugar-cane cutter*	-	-	1.7	
Rubber calendar	-	1.5	1.5	Sugar crane mill	-	-	1.7	
Cooling cylinder	-	1.3	1.4	Beet sugar production	-	-	1.7	
Material mixer,be used for				Beet masher	-	-	1.2	
Uniform medium	1.0	1.3	1.4	Squeeze machine,	-	-	1.4	
Non-uniform medium	1.4	1.6	1.7	mechanical refrigerator,	-	-	1.4	
Blender,be used for				cooking machine	-	-	1.5	
Uniform density medium	1.0	1.3	1.5	Beet cleaner	-	-	1.5	
Un-uniformed medium	1.2	1.4	1.6	Beet chopper	-	-	1.5	
Un-uniformed gas absorption	1.4	1.6	1.8					
Oven	1.0	1.3	1.5	Paper-making machinery				
Centrifugal machine	1.0	1.2	1.3	Various kinds***	-	1.8	2.0	
				Pulper driving device	Supply goods according to customer requirements			
Metal processing equipment								
Plate turnover	1.0	1.0	1.2	Centrifugal compressor	-	1.4	1.5	
Steel pushing device	1.0	1.2	1.2					
Winding machine	-	1.6	1.6	Rope way cable car				
Cooling bed transverse frame	-	1.5	1.5	Delivery ropeway	-	1.3	1.4	
Roller leveler	-	1.6	1.6	Cableway of shuttle system	-	1.6	1.8	
Roller path	-	-	-					
Continuous	-	1.5	1.5	T rod elevator	-	1.3	1.4	
Interval	-	2.0	2.0	Continuous cableway	-	1.4	1.6	
Reversing mill	-	1.8	1.8					
Cutter				Cement industry				
Continuous*	-	1.5	1.5	Concrete blender	-	1.5	1.5	
Crank type*	1.0	1.0	1.0	Crusher*	-	1.2	1.4	
Continuous casting driving device	-	1.4	1.4	Rotary kiln	-	-	2.0	
Rolling mill	-	-	-	Tube mill	-	-	2.0	
Reversing cogging mill	-	2.5	2.5	Powder concentrator	-	1.6	1.6	
Reversing plate slab mill	-	2.5	2.5	Roller press	-	-	2.0	
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	-					

Sample Part Number

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				
Feed drive	1.25	1.25	1.50	Coating, film	1.25	1.25	1.25	
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	1.75	1.75	2.00	Batch mixer	1.75	1.75	1.75	
Main original wood, land base								
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					
Peeling barrel	1.75	1.75	2.00	Double roller clamp feeding and mixed miller	1.25	1.25	1.50	
Feed drive								
Edging, wood trimmer				Batch strong inner mixer,				
Planer feed, assorting table,	1.25	1.25	1.50	Double stick single groove grain stick	1.75	1.75	1.75	
Automatic incline lifting				Miller heater, double sticks				
Multi-shaft feed, raw wood	1.75	1.75	1.75	Batch feeding mixer				
Transportation and rotation				Wave stick miller	2.00	2.00	2.00	
Transportation								
Charging tray				Generator and exciter	1.00	1.00	1.25	
Plywood lathe drive	1.50	1.50	1.75					
Conveying chain, Lifting				Hammer crusher	1.75	1.75	2.00	
				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

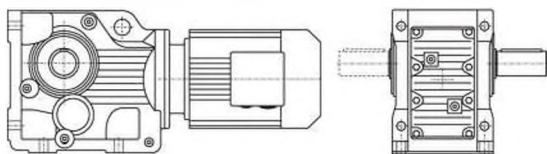
Table 2	Factor for prime mover	f ₂
Electric motors, hydraulic motors, turbines		1.0
Piston engines 4-6 cylinders		1.25
Piston engines 1-3 cylinders		1.5

Table 3	Start factor				f ₃
	1	1.25 -1.75	2- 2.75	≥ 3	
Starts per hour?					
≤ 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	

Sample Part Number

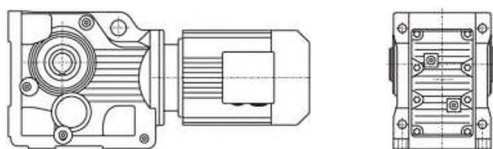


K series gear units are available in the following designs:



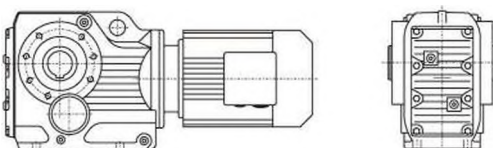
K..Y..

Foot-mounted solid shaft helical bevel gear units



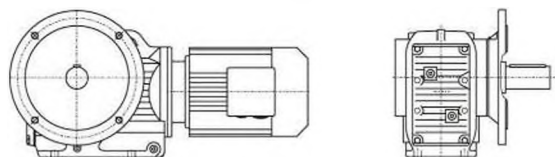
KAB...Y..

Foot-mounted hollow shaft helical bevel gear units



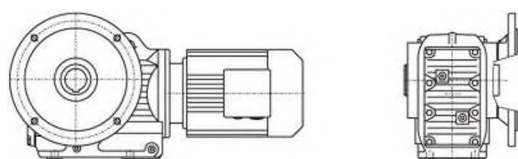
KA...Y..

Hollow shaft helical bevel gear units



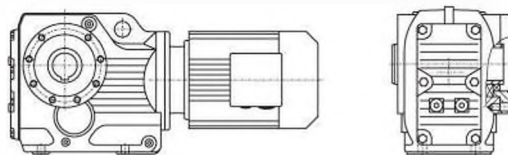
KF...Y..

Flanged-mounted solid shaft helical bevel units



KAF...Y..

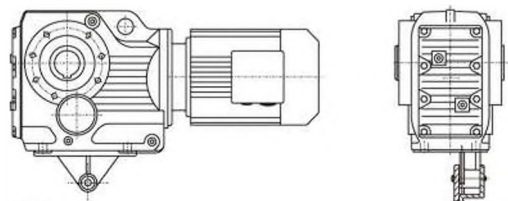
Flange-mounted hollow shaft helical bevel gear units



KAZ...Y..

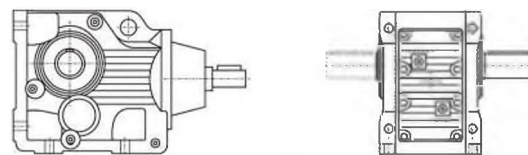
Short-flange-mounted hollow shaft helical bevel gear units

g



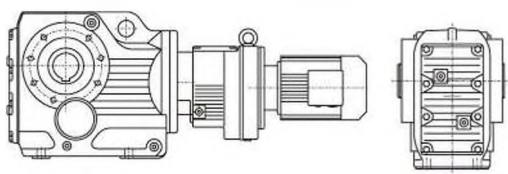
KAT...Y..

Torque-arm-mounted hollow shaft helical bevel gear units



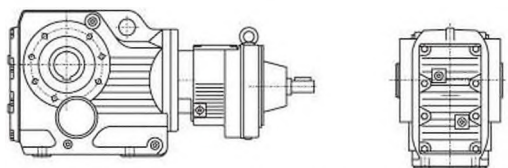
K (KF, KA, KAF, KAB, KAZ) S..

Helical bevel gear units with solid shaft input



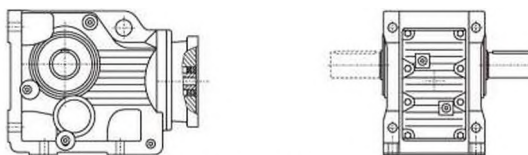
KA (K, KF, KAF, KAB, KAZ) ...R...Y..

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.

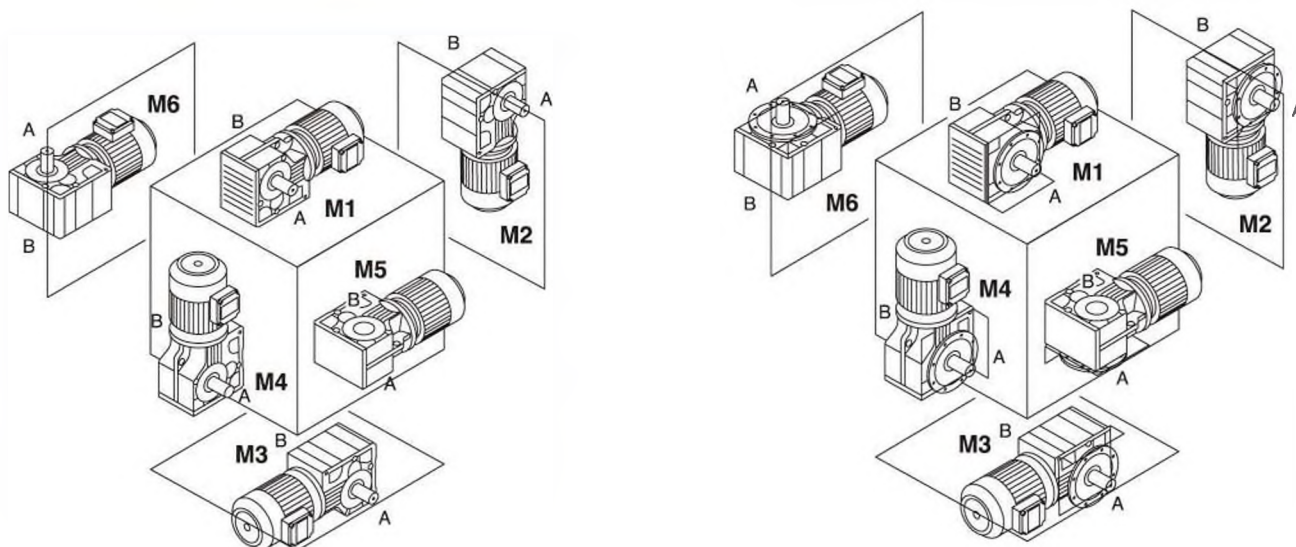
Sample Part Number

Type Designations:

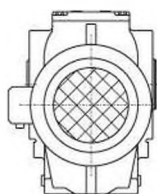
K F 37-Y 0.55-4P-24.99-M1-180-A-CW K series Structure Size Motor code Motor power, pole Ratio Rotate direction of output shaft Positions of output shaft, shrink disk or flange Positions of motor terminal box Mounting positions	
K Series: Helical-bevel Gearmotors	
Structure:	
Foot-mounted solid shaft	(-)
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	
Positions of motor terminal box: 0°, 90°, 180°, 270°	
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	

Sample Part Number

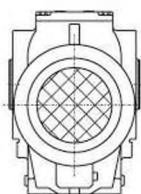
Mounting positions



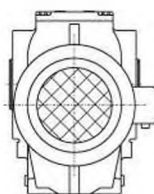
Positions of motor terminal box:



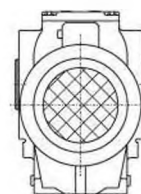
0°



90°



180°



270°

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

Product 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

Sample Part Number

Oil Quantity

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



K Series

Technical Parameter Table

Output speed r/min	Output torque Nm	Ratio i	Service factor f _s	Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _s	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								
0.17	9037	8211	0.8			2.3	677	615	0.8		
0.19	7888	7167	1.0			2.6	599	544	0.9		
0.23	6711	6097	1.1			2.9	521	473	1.1		
0.25	6144	5582	1.2			3.3	463	421	1.2		
0.27	5575	5065	1.3	K 107R77	4	3.8	398	362	1.4	K 57R37	4
0.32	4732	4299	1.6	KF 107R77	4	4.4	351	319	1.6	KF 57R37	4
0.37	4135	3757	1.8	KA 107R77	4	5.1	300	273	1.9	KA 57R37	4
0.43	3562	3236	2.1	KAF107R77	4	5.8	264	240	2.1	KAF57R37	4
0.48	3158	2869	2.4			6.5	237	215	2.4		
0.56	2756	2504	2.7			7.2	211	192	2.7		
0.63	2425	2203	3.1			8.4	183	166	3.1		
0.30	5139	4669	0.79			3.7	413	375	0.9		
0.34	4493	4082	0.90			4.3	359	326	1.0		
0.39	3944	3583	1.0			4.8	318	289	1.2	K 47R37	4
0.45	3421	3108	1.2			5.6	275	250	1.4	KF 47R37	4
0.50	3035	2757	1.3			6.2	248	225	1.5	KA 47R37	4
0.57	2662	2419	1.5			7.0	218	198	1.7	KAF47R37	4
0.65	2337	2123	1.7	K 97R57	4	8.3	184	167	2.0		
0.75	2043	1856	2.0	KF 97R57	4	9.3	164	149	2.3		
0.86	1789	1625	2.3	KA 97R57	4	11	141	128	2.7		
0.97	1574	1430	2.6	KAF97R57	4						
1.1	1388	1261	2.9			6.8	226	205	0.83	K 37R17	4
1.3	1213	1102	3.3			7.7	199	181	0.94	KF 37R17	4
1.5	1053	957	3.8			8.7	176	160	1.07	KA 37R17	4
1.6	941	855	4.3			10	150	136	1.26	KAF37R17	4
1.9	818	743	4.9			11	140	127	1.34		
2.1	717	651	5.6								
0.45	3420	3107	0.74			5.9	275	144.79	2.8	K 67	6
0.51	3003	2728	0.85			6.9	235	123.54	3.3	KF 67	6
0.59	2610	2371	0.97			7.9	205	108.03	3.8	KA 67	6
0.67	2298	2088	1.1			8.3	195	102.62	4.0	KAF67	6
0.75	2041	1854	1.2	K 87R57	4						
0.84	1825	1658	1.4	KF 87R57	4	9.6	168	144.79	4.6	K 67	4
1.0	1557	1415	1.6	KA 87R57	4	11	144	123.54	5.4	KF 67	4
1.1	1353	1229	1.9	KAF87R57	4	13	126	108.03	6.1	KA 67	4
1.3	1187	1078	2.1								
1.5	1047	951	2.4			5.9	276	145.14	2.0	K 57	6
1.7	921	837	2.8			6.9	235	123.85	2.4	KF 57	6
1.9	799	726	3.2			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		
0.9	1666	1514	0.9								
1.0	1528	1388	1.0			9.6	169	145.14	3.3		
1.1	1341	1218	1.1			11	144	123.85	3.9	K 57	4
1.3	1159	1053	1.3	K 77R37	4	13	126	108.29	4.5	KF 57	4
1.5	1017	924	1.4	KF 77R37	4	14	120	102.88	4.7	KA 57	4
1.7	897	815	1.6	KA 77R37	4	15	105	90.26	5.4	KAF57	4
2.0	780	709	1.9	KAF77R37	4	18	89	76.56	6.3		
2.2	685	622	2.1								
2.5	608	552	2.4			6.4	251	131.87	1.50	K 47	6
2.9	534	485	2.7			7.0	231	121.48	1.63	KF 47	6
3.2	471	428	3.1			8.1	198	104.37	1.90	KA 47	6
3.8	404	367	3.6			9.4	173	90.86	2.2	KAF47	6
						10	162	85.12	2.3		

Technical Parameter Table

Output speed r/min	Output torque Nm	Ratio i	Service factor f_b	Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f_b	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
						1.6	1307	855	3.1		
8.0	202	106.38	0.93	K 37	6	0.7	3192	2088	0.80		
8.7	186	97.81	1.01	KF 37	6	0.7	2834	1854	0.90		
10	159	83.69	1.18	KA 37	6	0.8	2535	1658	1.0	K 87R57	4
12	138	72.54	1.36	KAF37	6	1.0	2163	1415	1.2	KF 87R57	4
13	124	106.38	1.52			1.1	1879	1229	1.4	KA 87R57	4
14	114	97.81	1.65			1.3	1648	1078	1.5	KAF87R57	4
17	97	83.69	1.93			1.5	1454	951	1.7		
19	84	72.54	2.2			1.7	1280	837	2.0		
21	79	67.80	2.4			1.9	1110	726	2.3		
24	68	58.60	2.8			2.2	975	638	2.6		
28	58	49.79	3.2								
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	K 77R37	4
60	27	23.36	6.7			2.9	741	485	2.0	KF 77R37	4
69	23	20.19	7.4			3.2	654	428	2.2	KA 77R37	4
81	20	17.15	8.5			3.9	547	358	2.7	KAF77R37	4
91	18	15.31	9.2			4.3	489	320	3.0		
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						2.3	937	613	0.8		
0.14	15010	9819	0.81			2.6	829	542	0.9		
0.16	12907	8443	0.95			3.0	720	471	1.1	K 67R37	4
0.19	11438	7482	1.07	K 127R77	4	3.3	642	420	1.2	KF 67R37	4
0.21	10036	6565	1.2	KF 127R77	4	3.9	552	361	1.4	KA 67R37	4
0.24	8872	5804	1.4	KA 127R77	4	4.3	494	323	1.6	KAF67R37	4
0.28	7685	5027	1.6	KAF127R77	4	5.1	416	272	1.9		
0.31	6761	4423	1.8			5.8	367	240	2.1		
0.37	5811	3801	2.1			6.4	332	217	2.3		
0.43	4948	3237	2.5								
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								
0.45	4751	3108	0.9	K 97R57	4	4.2	536	154.02	2.7	K 77	8
0.50	4215	2757	1.0	KF 97R57	4	4.8	471	135.28	3.1	KF 77	8
0.57	3698	2419	1.1	KA 97R57	4	5.0	447	128.52	3.3	KA 77	8
0.65	3245	2123	1.2	KAF97R57	4	5.7	395	113.56	3.7	KAF77	8
0.75	2837	1856	1.4								
						4.4	507	192.18	2.9	K 77	6
						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



K Series

Technical Parameter Table

Output speed r/min	Output torque Nm	Ratio i	Service factor f _s	Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _s	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	K 57	4	0.65	4803	2123	0.84		
11	200	123.85	2.8	KF 57	4	0.75	4199	1856	0.96		
13	175	108.29	3.2	KA 57	4	0.86	3676	1625	1.10		
14	166	102.88	3.4	KAF57	4	0.97	3235	1430	1.25	K 97R57	4
15	146	90.26	3.9			1.1	2853	1261	1.42	KF 97R57	4
18	124	76.56	4.6			1.3	2493	1102	1.62	KA 97R57	4
6.4	348	131.87	1.08	K 47	6	1.5	2165	957	1.87	KAF97R57	4
7.0	321	121.48	1.17	KF 47	6	1.6	1934	855	2.1		
8.1	276	104.37	1.36	KA 47	6	1.9	1681	743	2.4		
9.4	240	90.86	1.57	KAF47	6	2.1	1473	651	2.7		
10	225	85.12	1.67			2.4	1296	573	3.1		
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
10	221	83.69	0.9	K 37	6	1.9	1643	726	1.55	KA 87R57	4
12	192	72.54	1.0	KF 37	6	2.2	1443	638	1.76	KAF87R57	4
13	179	67.80	1.1	KA 37	6	2.5	1272	562	2.0		
15	155	58.60	1.2	KAF37	6	2.9	1072	474	2.4		
17	131	49.79	1.4			3.3	964	426	2.6		
						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	K 77R37	4
21	109	67.80	1.7			2.9	1097	485	1.33	KF 77R37	4
24	95	58.60	2.0			3.2	968	428	1.50	KA 77R37	4
28	80	49.79	2.3			3.9	810	358	1.80	KAF77R37	4
31	72	44.46	2.6			4.3	724	320	2.0		
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			3.3	950	420	0.81		
81	28	17.15	6.1			3.9	817	361	0.94		
91	25	15.31	6.7			4.3	731	323	1.05	K 67R37	4
106	21	13.08	7.3			5.1	615	272	1.25	KF 67R37	4
114	20	12.14	7.7			5.8	543	240	1.42	KA 67R37	4
133	17	10.49	8.9			6.4	491	217	1.57	KAF67R37	4
156	14	8.91	10			7.3	432	191	1.78		
175	13	7.96	11			8.4	376	166	2.05		
204	11	6.80	13			9.7	326	144	2.37		
218	10	6.37	13			12	269	119	2.86		

Technical Parameter Table

Output speed	Output torque	Ratio	Service factor	Type	Pole	Output speed	Output torque	Ratio	Service factor	Type	Pole	
r/min	Nm	i	f _s	Type	p	r/min	Nm	i	f _s	Type	p	
0.37kW						0.37kW						
5.1	618	273	0.91	K 57R37 KF 57R37 KA 57R37 KAF57R37	4	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			10	319	85.12	1.18	KA 47	6	
7.2	434	192	1.30			12	282	75.2	1.33	KAF47	6	
8.4	376	166	1.50									
9.9	319	141	1.77									
11	285	126	1.98									
13	244	108	2.3									
15	215	95	2.6			11	315	131.87	1.19	K 47 KF 47 KA 47 KAF47	4	
3.8 4.1 4.6	868 813 729	174.99 164.05 147.09	2.9 3.1 3.5	K 87 KF 87 KA 87 KAF87	8	12	290	121.48	1.30			
						13	249	104.37	1.51			
						15	217	90.86	1.73			
						16	203	85.12	1.85			
					18	180	75.20	2.1				
					20	167	69.84	2.3				
					22	151	63.30	2.5				
4.5 5.1	740 657	197.27 174.99	3.4 3.9	K 87 KF 87 KA 87 KAF87	6	14	234	97.81	0.80	K 37 KF 37 KA 37 KAF37	4	
						17	200	83.69	0.94			
						19	173	72.54	1.08			
						21	162	67.80	1.16			
					24	140	58.60	1.34				
					28	119	49.79	1.58				
					31	106	44.46	1.77				
					37	91	37.97	2.07				
					39	85	35.57	2.21				
					46	72	29.96	2.63				
					48	69	28.83	2.73				
					56	60	24.99	3.15				
					60	56	23.36	3.28				
					69	48	20.19	3.60				
					81	41	17.15	4.13				
					91	37	15.31	4.5				
					106	31	13.08	5.0				
					114	29	12.14	5.2				
					133	25	10.49	6.0				
					156	21	8.91	7.1				
					175	19	7.96	7.7				
					204	16	6.80	8.7				
					218	15	6.37	9.0				
					259	13	5.56	10				
						0.55kW						
						0.08	57099	16978	0.82	K 187R97 KA 187R97	4	
						0.10	47998	14272	0.98			
						0.11	44111	13116	1.07			
						0.12	39170	11647	1.20			
						0.19	24662	7333	1.9			
						0.12	38783	11532	0.78	K 167R97 KA 167R97	4	
						0.14	34395	10227	0.87			
						0.16	28913	8597	1.04			
						0.21	21988	6538	1.37			
						0.26	18046	5366	1.67			
						0.34	13651	4059	2.2			
						0.20	23142	6881	0.73	K 157R97	4	
						0.23	19947	5931	0.85	KF 157R97	4	
						0.35	13365	3974	1.27	KA 157R97	4	
						0.46	10247	3047	1.65	KAF157R97	4	
						0.31	14875	4423	0.82	K 127R77 KF 127R77 KA 127R77 KAF127R77	4	
						0.37	12783	3801	0.96			
						0.43	10886	3237	1.12			
						0.47	9891	2941	1.24			
						0.55	8569	2548	1.43			
						0.72	6477	1926	1.89			
						0.79	5909	1757	2.1			
						0.90	5183	1541	2.4			
						1.0	4513	1342	2.7			
						1.2	3958	1177	3.1			
						1.4	3447	1025	3.5			

Technical Parameter Table

Output speed r/min	Output torque Nm	Ratio i	Service factor f_s	Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f_s	Type	Pole p
0.55kW						0.55kW					
0.48	9649	2869	0.78	K 107R77 KF 107R77 KA 107R77 KAF107R77	4	3.8	1290	174.99	2.0	K 87	8
0.56	8421	2504	0.89		4	4.1	1209	164.05	2.1	KF 87	8
0.63	7409	2203	1.01		4	4.5	1084	147.09	2.3	KA 87	8
0.74	6286	1869	1.20		4					KAF87	8
0.82	5680	1689	1.32		4	4.5	1101	197.27	2.3	K 87	6
0.91	5156	1533	1.46		4	5.1	976	174.99	2.6	KF 87	6
1.1	4429	1317	1.70		4	5.4	915	164.05	2.8	KA 87	6
1.2	3868	1150	1.94		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	K 97R57 KF 97R57 KA 97R57 KAF97R57	4	5.7	859	154.02	1.70	K 77	6
1.1	4241	1261	1.0		4	6.5	755	135.28	1.93	KF 77	6
1.3	3706	1102	1.1		4	6.9	717	128.52	2.0	KA 77	6
1.5	3218	957	1.3		4	7.8	634	113.56	2.3	KAF77	6
1.6	2875	855	1.4		4	9.0	547	154.02	2.7	K 77	4
1.9	2499	743	1.6		4	10	481	135.28	3.0	KF 77	4
2.1	2189	651	1.8		4	11	457	128.52	3.2	KA 77	4
2.4	1927	573	2.1		4	12	403	113.56	3.6	KAF77	4
2.8	1695	504	2.4			14	345	97.05	4.2		
3.2	1470	437	2.8			7.2	689	123.54	1.12	K 67	6
3.6	1285	382	3.1			8.2	603	108.03	1.28	KF 67	6
4.6	1026	305	3.9			8.6	573	102.62	1.35	KA 67	6
1.5	3198	951	0.79	K 87R57 KF 87R57 KA 87R57 KAF87R57	4	10	502	90.04	1.53	KAF67	6
1.7	2815	837	0.90		4	12	426	76.37	1.81		
1.9	2442	726	1.04		4	11	439	123.54	1.76	K 67	4
2.2	2146	638	1.18		4	13	384	108.03	2.0	KF 67	4
2.5	1890	562	1.34		4	15	320	90.04	2.4	KA 67	4
2.9	1594	474	1.59		4	18	271	76.37	2.8	KAF67	4
3.3	1433	426	1.77		4	8.2	604	108.29	0.93	K 57 KF 57 KA 57 KAF57	6
3.7	1254	373	2.0		4	8.6	574	102.88	0.98		6
4.2	1110	330	2.3		4	9.8	504	90.26	1.12		6
4.7	985	293	2.6			12	427	76.56	1.32		6
5.6	841	250	3.0			13	386	69.12	1.46		6
5.9	794	236	3.2			14	339	60.81	1.66		
6.9	676	201	3.8			15	320	57.42	1.76		
2.5	1856	552	0.78	K 77R37 KF 77R37 KA 77R37 KAF77R37	4	11	440	123.85	1.28	K 57 KF 57 KA 57 KAF57	4
2.9	1631	485	0.89		4	13	385	108.29	1.47		4
3.2	1439	428	1.01		4	14	365	102.88	1.54		4
3.9	1204	358	1.21		4	15	321	90.26	1.76		4
4.3	1076	320	1.35		4	18	272	76.56	2.1		4
4.9	952	283	1.53		4	20	246	69.12	2.3		
5.7	827	246	1.76		4	23	216	60.81	2.6		
6.4	726	216	2.0			24	204	57.42	2.8		
7.3	642	191	2.3			13	371	104.37	1.01	K 47 KF 47 KA 47 KAF47	4
8.2	572	170	2.5			15	323	90.86	1.17		4
9.3	504	150	2.9			16	302	85.12	1.24		4
5.1	915	272	0.84	K 67R37 KF 67R37 KA 67R37 KAF67R37	4	18	267	75.20	1.41		4
5.8	807	240	0.95		4	20	248	69.84	1.52		4
6.4	730	217	1.1		4	22	225	63.30	1.67		
7.3	642	191	1.2		4	24	202	56.83	1.86		
8.4	558	166	1.4		4	28	174	48.95	2.2		
9.7	484	144	1.6			30	164	46.03	2.3		
12	400	119	1.9			24	208	58.6	0.90	K 37	4
7.2	646	192	0.87	K 57R37 KF 57R37 KA 57R37 KAF57R37	4	28	177	49.79	1.06	KF 37	4
8.4	558	166	1.0		4	31	158	44.46	1.19	KA 37	4
9.9	474	141	1.2		4	37	135	37.97	1.39	KAF37	4
11	424	126	1.3		4						
13	363	108	1.6		4						
15	319	95	1.8								

Technical Parameter Table

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

Technical Parameter Table

Output speed r/min	Output torque Nm	Ratio i	Service factor f _s	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _s	Type Type	Pole 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		
						1.8	5260	782	1.4	K 107R77	4
31	215	44.46	0.87			2.0	4614	686	1.6	KF 107R77	4
37	184	37.97	1.02			2.3	4076	606	1.8	KA 107R77	4
39	172	35.57	1.09			2.7	3464	515	2.2	KAF107R77	4
46	145	29.96	1.30			3.1	3060	455	2.5		
48	140	28.83	1.35			3.5	2704	402	2.8		
56	121	24.99	1.55			4.0	2361	351	3.2		
60	113	23.36	1.62			4.5	2065	307	3.6		
69	98	20.19	1.78	K 37	4	1.9	4998	743	0.81		
81	83	17.15	2.0	KF 37	4	2.1	4379	651	0.92	K 97R57	4
91	74	15.31	2.2	KA 37	4	2.4	3854	573	1.05	KF 97R57	4
106	63	13.08	2.4	KAF37	4	2.8	3390	504	1.19	KA 97R57	4
114	59	12.14	2.6			3.2	2939	437	1.38	KAF97R57	4
133	51	10.49	3.0			3.6	2569	382	1.57		
156	43	8.91	3.5			4.1	2300	342	1.76		
175	39	7.96	3.8			2.9	3188	474	0.80		
204	33	6.80	4.3			3.3	2865	426	0.89		
218	31	6.37	4.4			3.7	2509	373	1.01	K 87R57	4
259	26	5.36	5.1			4.2	2220	330	1.14	KF 87R57	4
						4.7	1971	293	1.29	KA 87R57	4
						5.6	1682	250	1.51	KAF87R57	4
						5.9	1587	236	1.60		
						6.9	1352	201	1.88		
						3.9	2548	175.47	1.6	K 97	8
						4.4	2212	152.31	1.8	KF 97	8
						4.8	2037	140.28	2.0	KA 97	8
						5.5	1810	124.61	2.2	KAF97	8
						5.2	1904	175.47	2.1	K 97	6
						5.9	1653	152.31	2.4	KF 97	6
						6.5	1522	140.28	2.7	KA 97	6
						7.3	1352	124.61	3.0	KAF97	6
						8.0	1238	175.47	3.3	K 97	4
						9.1	1074	152.31	3.7	KF 97	4
						10	989	140.28	4.1	KA 97	4
										KAF97	4
						5.2	1899	174.99	1.34	K 87	6
						5.5	1780	164.05	1.42	KF 87	6
						6.2	1596	147.09	1.59	KA 87	6
						7.2	1375	126.68	1.84	KAF87	6
						8.0	1234	174.99	2.1	K 87	4
						8.5	1157	164.05	2.2	KF 87	4
						9.5	1037	147.09	2.4	KA 87	4
						11	894	126.68	2.8	KAF87	4
						12	812	115.16	3.1		
						6.7	1468	135.28	0.99	K 77	6
						7.1	1395	128.52	1.04	KF 77	6
						8.0	1232	113.56	1.18	KA 77	6
						9.4	1053	97.05	1.38	KAF77	6

Technical Parameter Table

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	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								
32	313	44.32	2.5								
36	271	38.39	2.8								
16	637	90.26	0.89			0.6	21118	2319	0.8		
18	540	76.56	1.04			0.8	15299	1680	1.1		
20	488	69.12	1.16			1.0	12431	1365	1.4	K 157R97	4
23	429	60.81	1.31			1.1	11192	1229	1.5	KF 157R97	4
24	405	57.42	1.39			1.3	9954	1093	1.7	KA 157R97	4
29	345	48.89	1.64			1.5	8578	942	2.0	KAF157R97	4
32	313	44.43	1.80			1.6	7777	854	2.2		
36	271	38.49	2.1			2.5	5145	565	3.3		
39	252	35.70	2.2			2.8	4581	503	3.7		
46	214	30.28	2.6								
51	193	27.34	2.9	K 57	4	2.6	4881	536	2.5	K 127R87	4
58	170	24.05	3.3	KF 57	4	3.3	3807	418	3.2	KF 127R87	4
62	160	22.71	3.5	KA 57	4	3.8	3342	367	3.7	KA 127R87	4
72	136	19.34	4.0	KAF57	4						
80	124	17.57	4.2								
92	107	15.22	4.6			0.80	16000	1757	0.76		
106	93	13.25	4.7			0.91	14033	1541	0.87		
117	84	11.92	4.9			1.0	12221	1342	1.00		
124	79	11.26	5.1			1.2	10718	1177	1.14		
146	68	9.59	5.6			1.4	9334	1025	1.31	K 127R77	4
161	61	8.71	6.0			1.6	8187	899	1.49	KF 127R77	4
185	53	7.55	6.4			1.8	7194	790	1.70	KA 127R77	4
213	46	6.57	7.0			2.0	6284	690	1.94	KAF127R77	4
						2.3	5455	599	2.2		
						2.6	4908	539	2.5		
						3.0	4262	468	2.9		
						3.4	3734	410	3.3		
25	401	56.83	0.94			1.4	9243	1015	0.8		
29	345	48.95	1.09			1.6	7932	871	0.9		
30	325	46.03	1.16			1.8	7121	782	1.1		
35	279	39.61	1.35	K 47	4	2.0	6247	686	1.2	K 107R77	4
40	250	35.39	1.51	KF 47	4	2.3	5519	606	1.4	KF 107R77	4
45	220	31.19	1.71	KA 47	4	2.7	4690	515	1.6	KA 107R77	4
48	207	29.32	1.82	KAF47	4	3.1	4144	455	1.8	KAF107R77	4
54	183	25.91	2.1			3.5	3661	402	2.1		
64	154	21.81	2.4			4.0	3196	351	2.4		
72	138	19.58	2.7			4.6	2796	307	2.7		
47	211	29.96	0.89			2.4	5218	573	0.8		
56	176	24.99	1.07			2.8	4590	504	0.9		
60	165	23.36	1.11			3.2	3980	437	1.0		
69	142	20.19	1.22			3.7	3479	382	1.2	K 97R57	4
82	121	17.15	1.40			4.1	3114	342	1.3	KF 97R57	4
91	108	15.31	1.52	K 37	4	4.6	2778	305	1.5	KA 97R57	4
107	92	13.08	1.68	KF 37	4	5.4	2350	258	1.7	KAF97R57	4
115	86	12.14	1.76	KA 37	4	6.0	2113	232	1.9		
133	74	10.49	2.0	KAF37	4	7.0	1812	199	2.2		
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								

Technical Parameter Table

Output speed r/min	Output torque Nm	Ratio i	Service factor f _s	Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _s	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	K 87	4	115	117	12.14	1.29	KA 37	4
9.5	1415	147.09	1.79	KF 87	4	133	101	10.49	1.49	KAF37	4
11	1218	126.68	2.1	KA 87	4	157	86	8.91	1.75		
12	1108	115.16	2.3	KAF87	4	176	77	7.96	1.90		
14	988	102.71	2.6			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	K 77	4	0.69	27048	2054	1.74		
16	856	88.97	1.70	KF 77	4	0.78	23979	1821	1.96		
18	751	78.07	1.94	KA 77	4	0.88	21135	1605	2.2		
19	712	73.99	2.0	KAF77	4	0.52	36094	2741	0.83		
22	623	64.75	2.3			0.63	29655	2252	1.01		
24	561	58.34	2.6			0.65	28628	2174	1.05		
27	492	51.18	3.0			0.84	22360	1698	1.35	K 167R97	4
31	434	45.16	3.4			1.0	18462	1402	1.63	KA 167R97	4
35	385	40.04	3.8			1.1	17000	1291	1.77		
16	866	90.04	0.89			1.3	14498	1101	2.1		
18	735	76.37	1.05			1.5	12431	944	2.4		
20	663	68.95	1.16			0.85	22123	1680	0.76		
23	583	60.66	1.32	K 67	4	1.0	17975	1365	0.94	K 157R97	4
24	551	57.28	1.40	KF 67	4	1.2	16184	1229	1.05	KF 157R97	4
29	469	48.77	1.64	KA 67	4	1.3	14393	1093	1.18	KA 157R97	4
32	426	44.32	1.81	KAF67	4	1.5	12404	942	1.36	KAF157R97	4
36	369	38.39	2.1			1.7	11246	854	1.50		
39	343	35.62	2.2			1.9	9955	756	1.70		
46	291	30.22	2.7								
51	262	27.28	2.9								
58	231	24.00	3.3								

Technical Parameter Table

Output speed r/min	Output torque Nm	Ratio i	Service factor f _s	Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _s	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
						74	268	19.30	2.7	KA 67	4
						81	244	17.54	2.9	KAF67	4
						93	211	15.19	3.1		
						107	184	13.22	3.4		
						116	170	12.24	2.9		
						136	145	10.42	3.2		
						150	132	9.47	3.4		
						173	114	8.20	3.6		
						199	99	7.14	4.0		
2.3	7980	606	0.94			32	618	44.43	0.91		
2.8	6782	515	1.11			37	535	38.49	1.05		
3.1	5992	455	1.26	K 107R77	4	40	497	35.70	1.14		
3.5	5294	402	1.42	KF 107R77	4	47	421	30.28	1.34		
4.0	4622	351	1.63	KA 107R77	4	52	380	27.34	1.48	K 57	4
4.6	4043	307	1.86	KAF107R77	4	59	334	24.05	1.69	KF 57	4
5.1	3648	277	2.1			63	316	22.71	1.79	KA 57	4
5.8	3200	243	2.4			73	269	19.34	2.0	KAF57	4
						81	244	17.57	2.1		
						93	212	15.22	2.4		
						107	184	13.25	2.3		
						119	166	11.92	2.4		
						126	157	11.26	2.5		
3.7	5030	382	0.80	K 97R57	4	55	360	25.91	1.04		
4.2	4504	342	0.90	KF 97R57	4	65	303	21.81	1.24		
4.7	4016	305	1.01	KA 97R57	4	73	272	19.58	1.38	K 47	4
5.5	3397	258	1.19	KAF97R57	4	84	234	16.86	1.52	KF 47	4
6.1	3055	232	1.32			90	221	15.86	1.62	KA 47	4
7.1	2620	199	1.54			104	190	13.65	1.78	KAF47	4
						116	170	12.19	1.94		
						121	164	11.77	1.61		
						134	147	10.56	1.79		
						156	127	9.10	2.1		
5.0	3948	141.93	1.90	K 107	8	109	182	13.08	0.85		
5.9	3326	119.58	2.3	KF 107	8	135	146	10.49	1.03	K 37	4
6.4	3083	110.83	2.4	KA 107	8	159	124	8.91	1.21	KF 37	4
7.1	2763	99.34	2.7	KAF107	8	178	111	7.96	1.32	KA 37	4
						209	95	6.80	1.49	KAF37	4
						223	89	6.37	1.54		
						265	75	5.36	1.77		
6.1	3200	152.31	1.26	K 97	6						
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						
8.1	2440	175.47	1.66								
9.3	2118	152.31	1.91	K 97	4						
10	1951	140.28	2.1	KF 97	4						
11	1733	124.61	2.3	KA 97	4						
14	1443	103.78	2.8	KAF97	4						
15	1346	96.80	3.0								
9.7	2046	147.09	1.24								
11	1762	126.68	1.44	K 87	4						
12	1602	115.16	1.58	KF 87	4						
14	1428	102.71	1.78	KA 87	4						
16	1201	86.34	2.1	KAF87	4						
18	1103	79.34	2.3								
20	980	70.46	2.6								
23	876	63.00	2.9								
13	1579	113.56	0.9								
15	1350	97.05	1.08								
16	1237	88.97	1.18								
18	1086	78.07	1.34								
19	1029	73.99	1.42	K 77	4						
22	901	64.75	1.62	KF 77	4						
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								

Technical Parameter Table

Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f_B	Type	Pole p
3.0kW						3.0kW					
0.46	54983	3062	0.85			10	2692	141.93	2.8	K 107	4
0.5	50602	2818	0.93			12	2268	119.58	3.3	KF 107	4
0.56	45233	2519	1.04							KA 107	4
0.63	40726	2268	1.15	K 187R97	4					KAF107	4
0.69	36883	2054	1.27	KA 187R97	4	7.7	3496	124.61	1.16	K 97	6
0.78	32699	1821	1.44			9.3	2911	103.78	1.39	KF 97	6
0.88	28820	1605	1.63			9.9	2716	96.80	1.49	KA 97	6
1.0	25050	1395	1.88			11	2427	86.52	1.67	KAF97	6
1.2	21476	1196	2.2								
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
						20	1338	70.54	3.02		
						23	1186	62.55	3.41		
						25	1072	56.55	3.77		
1.2	22069	1229	0.77			9.6	2790	147.09	0.91		
1.3	19627	1093	0.86			11	2403	126.68	1.06		
1.5	16915	942	1.00	K 157R97	4	12	2184	115.16	1.16		
1.7	15335	854	1.10	KF 157R97	4	14	1948	102.71	1.30		
1.9	13575	756	1.25	KA 157R97	4	16	1637	86.34	1.55	K 87	4
2.5	10146	565	1.67	KAF157R97	4	18	1505	79.34	1.69	KF 87	4
2.8	9032	503	1.87			20	1336	70.46	1.90	KA 87	4
						23	1195	63.00	2.1	KAF87	4
						25	1074	56.64	2.4		
						29	932	49.16	2.7		
						32	835	44.02	2.9		
						39	693	36.52	3.4		
2.6	9625	536	1.27			16	1687	88.97	0.86		
3.0	8494	473	1.44	K 127R87	4	18	1481	78.07	0.98		
3.4	7506	418	1.63	KF 127R87	4	19	1403	73.99	1.04		
3.9	6590	367	1.85	KA 127R87	4	22	1228	64.75	1.19	K 77	4
4.3	5926	330	2.1	KAF127R87	4	24	1106	58.34	1.32	KF 77	4
4.9	5207	290	2.3			28	971	51.18	1.50	KA 77	4
						31	856	45.16	1.70	KAF77	4
						35	759	40.04	1.92		
						40	668	35.20	2.2		
						46	586	30.89	2.5		
1.8	14186	790	0.86			32	841	44.32	0.92		
2.1	12390	690	0.99	K 127R77	4	37	728	38.39	1.06		
2.4	10756	599	1.14	KF 127R77	4	40	676	35.62	1.14		
2.6	9679	539	1.26	KA 127R77	4	47	573	30.22	1.34		
3.0	8404	468	1.45	KAF127R77	4	52	517	27.28	1.49		
3.5	7362	410	1.66			59	455	24.00	1.65	K 67	4
						63	430	22.66	1.71	KF 67	4
						74	366	19.30	1.95	KA 67	4
						81	333	17.54	2.1	KAF67	4
						93	288	15.19	2.3		
						107	251	13.22	2.5		
						116	232	12.24	2.1		
						136	198	10.42	2.4		
						150	180	9.47	2.5		
3.1	8170	455	0.92			47	574	30.28	0.98	K 57	4
3.5	7219	402	1.04			52	519	27.34	1.09	KF 57	4
4.0	6303	351	1.19			59	456	24.05	1.24	KA 57	4
4.6	5513	307	1.36	K 107R77	4	63	431	22.71	1.31	KAF57	4
5.1	4974	277	1.51	KF 107R77	4	73	367	19.34	1.47		
5.8	4363	243	1.72	KA 107R77	4	81	333	17.57	1.57		
6.6	3861	215	1.95	KAF107R77	4						
7.5	3394	189	2.2								
8.5	3017	168	2.5								
9.5	2676	149	2.8								
10	2496	139	3.0								
5.5	4893	258	0.83	K 97R57	4						
6.1	4400	232	0.92	KF 97R57	4						
7.1	3774	199	1.07	KA 97R57	4						
				KAF97R57	4						
5.0	5366	141.46	1.40								
5.9	4543	119.76	1.66	K 107	8						
6.4	4204	110.83	1.79	KF 107	8						
7.1	3768	99.34	2.0	KA 107	8						
7.9	3402	89.68	2.2	KAF107	8						
6.8	3968	141.46	1.9	K 107	6						
8.0	3360	119.76	2.2	KF 107	6						
8.7	3109	110.83	2.4	KA 107	6						
9.7	2787	99.34	2.7	KAF107	6						

Technical Parameter Table

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						4.0kW											
93	289	15.22	1.74	K 57 KF 57 KA 57 KAF57	4	4.0	8404	351	0.89	K 107R77 KF 107R77 KA 107R77 KAF107R77	4						
107	251	13.25	1.9			4.6	7350	307	1.02								
119	226	11.92	1.7			5.1	6632	277	1.13								
126	214	11.26	1.8			5.8	5818	243	1.29								
148	182	9.59	2.1			6.6	5148	215	1.46								
163	165	8.71	2.2			7.5	4525	189	1.66								
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	K 47 KF 47 KA 47 KAF47	4	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					5.3	6825	134.94	1.8	K 127	8				
121	223	11.77	1.18			KF 127	8										
134	200	10.56	1.31			KA 127	8										
156	173	9.1	1.53			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 KF 37 KA 37 KAF37	4	6.4	5605	110.83	1.34	K 107	8				
178	151	7.96	0.97	7.1	5024									99.34	1.50	KF 107	8
209	129	6.8	1.09	7.9	4536									89.68	1.66	KA 107	8
223	121	6.37	1.13	8.7	4120									81.46	1.83	KAF107	8
265	102	5.36	1.29														
4.0kW						6.8	5309	141.93	1.42	K 107 KF 107 KA 107 KAF107	6						
1.7	19697	825	2.4	K 187R107	4	8.0	4473	119.58	1.68								
2.8	12272	514	3.8	KA 187R107	4	8.7	4146	110.83	1.81								
						9.7	3716	99.34	2.0								
						11	3354	89.68	2.2								
0.57	59473	2510	0.79	K 187R97 KA 187R97	4	10	3527	141.46	2.1	K 107 KF 107 KA 107 KAF107	4						
0.63	53547	2268	0.88			12	2986	119.76	2.5								
0.70	48494	2054	0.97			13	2764	110.83	2.7								
0.79	42993	1821	1.09			14	2477	99.34	3.0								
0.90	37894	1605	1.24			16	2236	89.68	3.4								
1.0	32936	1395	1.43			18	2031	81.46	3.7								
1.2	28237	1196	1.66			20	1802	72.27	4.2								
1.4	24696	1046	1.90														
1.5	22240	942	2.1														
1.0	33101	1402	0.91	K 167R97 KA 167R97	4	10	3498	140.28	1.16	K 97 KF 97 KA 97 KAF97	4						
1.1	30480	1291	0.99			12	3107	124.61	1.30								
1.3	25994	1101	1.16			14	2588	103.78	1.56								
1.5	22288	944	1.35			15	2414	96.80	1.67								
1.7	19903	843	1.51			17	2157	86.52	1.87								
1.9	17873	757	1.68			18	1942	77.89	2.1								
2.3	14874	630	2.0			20	1759	70.54	2.3								
1.7	20163	854	0.84	K 157R97 KF 157R97 KA 157R97 KAF157R97	4	13	2872	115.16	0.88	K 87 KF 87 KA 87 KAF87	4						
1.9	17849	756	0.95									14	2561	102.71	0.99		
2.5	13339	565	1.27									17	2153	86.34	1.18		
2.9	11876	503	1.42									18	1978	79.34	1.28		
3.3	10223	433	1.66			20	1757	70.46	1.44								
2.7	12655	536	0.97	K 127R87 KF 127R87 KA 127R87 KAF127R87	4	23	1571	63.00	1.62								
3.0	11167	473	1.09			25	1412	56.64	1.80								
3.4	9869	418	1.24			29	1226	49.16	2.1								
3.9	8665	367	1.41			33	1098	44.02	2.3								
4.3	7901	330	1.55			39	911	36.52	2.8								
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												

Technical Parameter Table

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	K 77 KF 77 KA 77 KAF77	4	3.4	13570	418	0.90	K 127R87 KF 127R87 KA 127R87 KAF127R87	4
25	1455	58.34	1.00			3.9	11914	367	1.03		
28	1276	51.18	1.14			4.4	10713	330	1.14		
32	1126	45.16	1.29			5.0	9414	290	1.30		
36	998	40.04	1.46			5.7	8213	253	1.49		
38	957	38.39	1.52			6.7	6980	215	1.75		
41	878	35.20	1.66			7.1	6590	203	1.71	K 107R77 KF 107R77 KA 107R77 KAF107R77	4
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		
71	505	20.25	2.9			8.6	5454	168	1.38		
48	754	30.22	1.02	K 67 KF 67 KA 67 KAF67	4	9.7	4837	149	1.55	K 157 KF 157 KA 157 KAF157	8
53	680	27.28	1.13			11	4383	135	1.72		
60	598	24.00	1.26			4.8	10288	150.03	1.64		
64	565	22.66	1.30			5.9	8423	122.83	2.0		
75	481	19.30	1.48			7.2	6833	99.65	2.5		
82	437	17.54	1.59			7.8	6338	92.42	2.7		
95	379	15.19	1.74			5.3	9253	134.94	1.3	K 127 KF 127 KA 127 KAF127	8
109	330	13.22	1.91			5.9	8399	122.60	1.5		
118	305	12.24	1.63			6.5	7556	110.13	1.6		
138	260	10.42	1.81			8.1	6143	89.43	2.0		
152	236	9.47	1.91			7.1	6940	134.94	1.76	K 127 KF 127 KA 127 KAF127	6
176	204	8.20	2.02			7.8	6299	122.60	1.94		
202	178	7.14	2.2			8.7	5667	110.13	2.2		
60	600	24.05	0.94	K 57 KF 57 KA 57 KAF57	4	11	4599	89.43	2.7		
63	566	22.71	1.00			8.7	5700	110.83	1.32	K 107 KF 107 KA 107 KAF107	6
74	482	19.34	1.12			9.7	5109	99.34	1.47		
82	438	17.57	1.19			11	4612	89.68	1.63		
95	380	15.22	1.33			12	4190	81.46	1.79		
109	330	13.25	1.45			10	4866	141.93	1.55	K 107 KF 107 KA 107 KAF107	4
121	297	11.92	1.31			12	4100	119.58	1.83		
128	281	11.26	1.39			13	3800	110.83	1.98		
150	239	9.59	1.59			14	3406	99.34	2.2		
165	217	8.71	1.69			16	3075	89.68	2.4		
191	188	7.55	1.82			18	2793	81.46	2.7	K 97 KF 97 KA 97 KAF97	4
219	164	6.57	1.98			12	4273	124.61	0.95		
5.5kW						14	3558	103.78	1.1		
0.79	59116	1821	0.80	K 187R97 KA 187R97	4	15	3319	96.80	1.2		
0.90	52104	1605	0.90			17	2967	86.52	1.35		
1.0	45286	1395	1.04			18	2671	77.89	1.5		
1.2	38826	1196	1.21			20	2419	70.54	1.65		
1.4	33957	1046	1.38			23	2145	62.55	1.85	K 87 KF 87 KA 87 KAF87	4
1.5	30580	942	1.54			25	1939	56.55	2.1		
2.0	23926	737	2.0			30	1643	47.93	2.4		
2.3	20095	619	2.3			17	2960	86.34	0.85		
1.31	35742	1101	0.84	K 167R97 KA 167R97	4	18	2720	79.34	0.95		
1.5	30645	944	0.98			20	2416	70.46	1.05		
1.7	27367	843	1.10			23	2160	63.00	1.15		
1.9	24575	757	1.22			25	1942	56.64	1.3		
2.3	20452	630	1.47			29	1686	49.16	1.5		
2.6	18212	561	1.65			33	1509	44.02	1.6		
3.0	15550	479	1.93			39	1252	36.52	1.85		
3.4	13700	422	2.2			46	1076	31.39	2.3		
2.2	21458	661	0.79	K 157R97 KF 157R97 KA 157R97 KAF157R97	4	52	956	27.88	2.5		
2.5	18342	565	0.92			32	1548	45.16	0.94		
2.9	16329	503	1.04			36	1373	40.04	1.06		
3.3	14057	433	1.20			47	1059	30.89	1.38		
3.8	12271	378	1.38			49	1004	29.27	1.45		
4.3	10778	332	1.57			56	878	25.62	1.66		

Technical Parameter Table

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

Technical Parameter Table

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

Technical Parameter Table

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

Technical Parameter Table

Output speed r/min	Output torque Nm	Ratio i	Service factor f _s	Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _s	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		
						16	12417	92.42	1.36		
35	4730	41.87	0.85			18	10714	79.75	1.58	K 157	4
48	3482	30.82	1.16			21	9456	70.38	1.79	KF 157	4
53	3153	27.91	1.28	K 97	4	24	8198	61.02	2.1	KA 157	4
59	2796	24.75	1.45	KF 97	4	27	7294	54.29	2.3	KAF157	4
66	2527	22.37	1.60	KA 97	4	31	6286	46.79	2.7		
78	2142	18.96	1.9	KAF97	4	39	5108	38.02	3.3		
89	1871	16.56	2.2								
106	1565	13.85	2.6			16	12015	89.43	1.02		
123	1355	11.99	2.7			18	11087	82.52	1.10		
						21	9532	70.95	1.28		
59	2815	24.92	0.83			23	8410	62.60	1.45		
66	2532	22.41	0.85			27	7264	54.07	1.68	K 127	4
76	2197	19.45	0.98			31	6425	47.82	1.90	KF 127	4
84	1968	17.42	1.05	K 87	4	37	5400	40.19	2.3	KA 127	4
102	1633	14.45	1.12	KF 87	4	40	4901	36.48	2.5	KAF127	4
117	1419	12.56	1.21	KA 87	4	47	4215	31.36	2.9		
132	1257	11.13	1.25	KAF87	4	53	3719	27.67	3.3		
148	1125	9.96	1.32			61	3212	23.90	3.8		
178	934	8.27	1.41			70	2841	21.14	4.3		
204	812	7.19	1.50								
22kW						26	7573	56.37	0.99		
3.3	57114	449	0.82			30	6610	49.20	1.11		
4.0	46429	365	1.01			35	5608	41.74	1.23		
5.5	34091	268	1.38	K 187R107	4	40	4901	36.48	1.38		
6.5	28875	227	1.63	KA 187R107	4	46	4329	32.22	1.56		
7.4	25313	199	1.86			48	4143	30.84	1.54	K 107	4
8.8	21370	168	2.2			51	3841	28.59	1.76	KF 107	4
						57	3485	25.94	1.94	KA 107	4
5.4	34727	273	0.87			66	2996	22.30	2.2	KAF107	4
5.9	31801	250	0.95			76	2614	19.46	2.3		
6.7	27730	218	1.08			89	2218	16.51	2.6		
7.2	25822	203	1.16	K 167R107	4	102	1939	14.43	2.6		
7.9	23533	185	1.28	KA 167R107	4	109	1815	13.51	2.9		
9.0	20734	163	1.45			125	1584	11.79	3.0		
11	17681	139	1.70			147	1343	10	3.3		
12	15392	121	2.0								
9.5	19717	155	0.86	K 157R107	4	48	4141	30.82	0.98		
12	16028	126	1.06	KF 157R107	4	53	3750	27.91	1.08		
13	13992	110	1.21	KA 157R107	4	59	3325	24.75	1.22		
				KAF157R107	4	66	3005	22.37	1.34	K 97	4
5.4	36807	180.78	1.28			78	2547	18.96	1.59	KF 97	4
6.0	32684	160.53	1.44			89	2225	16.56	1.82	KA 97	4
6.7	29427	144.53	1.60	K 187	6	106	1861	13.85	1.87	KAF97	4
7.4	26540	130.35	1.77	KA 187	6	123	1611	11.99	2.1		
8.6	23044	113.18	2.0			137	1439	10.71	2.2		
						164	1202	8.95	2.3		
8.1	24288	180.78	1.94			76	2613	19.45	0.83		
9.2	21567	160.53	2.2	K 187	4	84	2340	17.42	0.88		
10	19418	144.53	2.4	KA 187	4	102	1941	14.45	0.94	K 87	4
11	17512	130.35	2.7			117	1687	12.56	1.02	KF 87	4
						132	1495	11.13	1.05	KA 87	4
11	18070	134.5	1.66			148	1338	9.96	1.11	KAF87	4
13	14831	110.39	2.0	K 167	4	178	1111	8.27	1.18		
17	11715	87.20	2.6	KA 167	4	204	966	7.19	1.27		
19	10460	77.86	2.9								

Technical Parameter Table

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

Technical Parameter Table

Output speed r/min	Output torque Nm	Ratio i	Service factor f _s	Type Type	Pole p	Output speed r/min	Output torque Nm	Ratio i	Service factor f _s	Type Type	Pole p
45kW						55kW					
6.5	58664	227	0.80	K 187R107	4	17	29204	87.54	1.03		
7.4	51428	199	0.91	KA 187R107	4	19	25974	77.86	1.16		
8.8	43416	168	1.08			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						
62	6537	23.95	2.6								
69	5817	21.31	2.9								
81	5014	18.37	3.4								
31	13052	47.82	0.94								
37	10970	40.19	1.11								
41	9957	36.48	1.23								
47	8562	31.36	1.43								
53	7555	27.67	1.62	K 127	4						
62	6526	23.90	1.87	KF 127	4						
70	5773	21.14	2.1	KA 127	4						
83	4850	17.77	2.3	KAF127	4						
103	3917	14.35	2.5								
116	3491	12.78	2.6								
138	2931	10.74	2.8								
171	2369	8.68	2.9								
52	7804	28.59	0.87								
57	7080	25.94	0.96								
66	6087	22.30	1.10								
76	5312	19.46	1.11	K 107	4						
90	4506	16.51	1.26	KF 107	4						
103	3939	14.43	1.44	KA 107	4						
110	3688	13.51	1.47	KAF107	4						
126	3218	11.79	1.55								
148	2729	10.00	1.60								
169	2386	8.74	1.64								
55kW						55kW					
10	45904	145.33	1.02			47	14271	31.36	0.86		
11	41371	130.98	1.14			53	12592	27.67	0.97		
13	36261	114.80	1.30	K 187	4	62	10877	23.90	1.12	K 127	4
14	32436	102.69	1.45	KA 187	4	70	9621	21.14	1.27	KF 127	4
17	29511	88.46	1.59			83	8084	17.77	1.36	KA 127	4
20	24800	74.34	1.90			103	6528	14.35	1.51	KAF127	4
23	21474	64.37	2.19			114	5900	12.78	1.54		
						138	4886	10.74	1.72		
						171	3949	8.68	1.74		

Technical Parameter Table

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

Technical Parameter Table

Permissible torque	Output speed	Ratio	Type	Power	Permissible torque	Output speed	Ratio	Type	Power		
Nm	r/min	i	Type	kW/4p	Nm	r/min	i	Type	kW/4p		
200	5.0	279	K 37R17	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	KF 37R17	0.37		1.7	815				
	8.7	160	KA 37R17			2.0	709				
	10	136	KAF37R17			2.2	622				
	11	127	2.5			552					
	13	110	0.37	2.9		485					
	14	96		3.2		428					
400	2.5	552	K 47R37	0.18		3.9	358		0.75		
	2.8	495				4.3	320				
	3.3	416				4.9	283		1.1		
	3.7	375				5.7	246				
	4.3	326	KF 47R37	0.25	0.34	4037	0.18				
	4.8	289	KA 47R37		0.39	3609					
	5.6	250	KAF47R37		0.45	3107					
	6.3	219	0.51		2728						
	7.2	193	0.37	0.59	2371	0.25					
	8.3	167		0.67	2088						
	9.3	149		0.75	1854						
	11	128		0.84	1658						
	600	1.5	906	K 57R37	0.18	0.98	1415	0.37			
		1.7	806			1.1	1229				
2.0		699	1.3			1078					
2.3		615	1.5			951					
2.6		544	0.25	1.7	837	0.55					
2.9		473		1.9	726						
3.3		421		2.2	638						
3.8		362		2.5	562						
4.4		319	KF 57R37	0.37	3.0	474	1.1				
5.1		273	KA 57R37		3.3	426					
5.8		240	KAF57R37		3.8	373		1.5			
6.5		215	4.2		330						
7.2		192	0.55	4.8	293	2.2					
8.4		166		5.6	250						
9.9		141		5.9	236						
11		126		7.0	201						
820		13	108	0.75	2700	0.23	6027	0.18			
		15	95			0.26	5392				
		1.2	1171			0.30	4669				
		1.3	1034			0.34	4082				
	1.5	903	0.25	0.39		3583					
	1.8	793		0.45		3108					
	2.0	697		0.51		2757					
	2.3	613		0.58		2419					
	2.6	542	0.37	0.66		2123					
	3.0	471		0.75		1856					
	3.3	420		0.86		1625					
	3.9	361		0.98		1430					
	4.3	323	0.55	1.1		1261	0.75				
	5.1	272		1.3		1102					
5.8	240	1.5		957							
6.4	217	1.6		855							
7.3	191	0.75	1.9	743	1.1						
1550	0.59		2370	2.1		651					
	0.68		2050	2.4		573	4300	2.8	504	K 97R57 KF 97R57 KA 97R57 KAF97R57	1.5
	0.78		1772	3.2		437					
	0.92	1514	3.6	382							
	0.59	2370	4.1	342							
	0.68	2050									
0.78	1772										
0.92	1514										

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

Technical Parameter Table

Permissible torque	Output speed	Ratio	Type	Power	Permissible torque	Output speed	Ratio	Type	Power
Nm	r/min	i	Type	kW/4p	Nm	r/min	i	Type	kW/4p
4300	4.6	305	K 97R57	3.0	13000	1.5	899	K 127R77	3.0
	5.4	258	KF 97R57			1.8	790		
	6.0	232	KA 97R57	2.0		690			
	7.1	199	KAF97R57	2.3		599			
8000	0.13	10528	K 107R77	0.18		2.6	539	KAF127R77	4.0
		0.15				9391	3.0	468	5.5
		0.17				8211	3.4	410	4.0
		0.19				7167	2.6	536	4.0
	0.23	6097		2.9		473	K 127R87	5.5	
	0.25	5582		3.3		418	KF 127R87		
	0.27	5065		3.8		367	KA 127R87	7.5	
	0.32	4299		4.2		330	KAF127R87		
	0.37	3757		4.8		290			
	0.43	3236		KAF107R77	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	K 157R97	1.5		
	2.3	606	0.48		2899	KF 157R97			
	2.7	515	0.60		2319	KA 157R97			
	3.1	455	0.69	2026	KAF157R97	2.2			
	3.6	402	0.77	1802					
	4.1	351	0.83	1680					
	4.7	307	1.0	1365					
	5.2	277	5.5	1.1	1229	3.0			
	5.9	243		1.3	1093				
	13000	0.08	17550	0.18	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	0.25	2.5	565	5.5			
0.14		9819		2.9	503				
0.16		8443		3.3	433				
0.19		7483		5.0	290				
0.21		6565	0.37	4.8	307	K 157R107	11		
0.24		5804		5.6	260	KF 157R107			
0.28		5027		6.2	237	KA 157R107			
0.31		4423		7.0	210	KAF157R107			
0.37		3801	KA 127R77	0.75	0.07	19653	0.55		
0.43		3237	KAF127R77		0.08	17345			
0.47		2941	0.09		14945				
0.55		2548	0.11		13190				
0.63		2218	0.12	11532	K 167R97				
0.72		1926	0.14	10227	KA 167R97				
0.79		1757	1.5	0.16	8597	0.75			
0.90		1541		0.21	6538				
1.0		1342		0.26	5366				
1.2		1177		0.29	4798				
1.4		1025	2.2	0.34	4059	1.5			

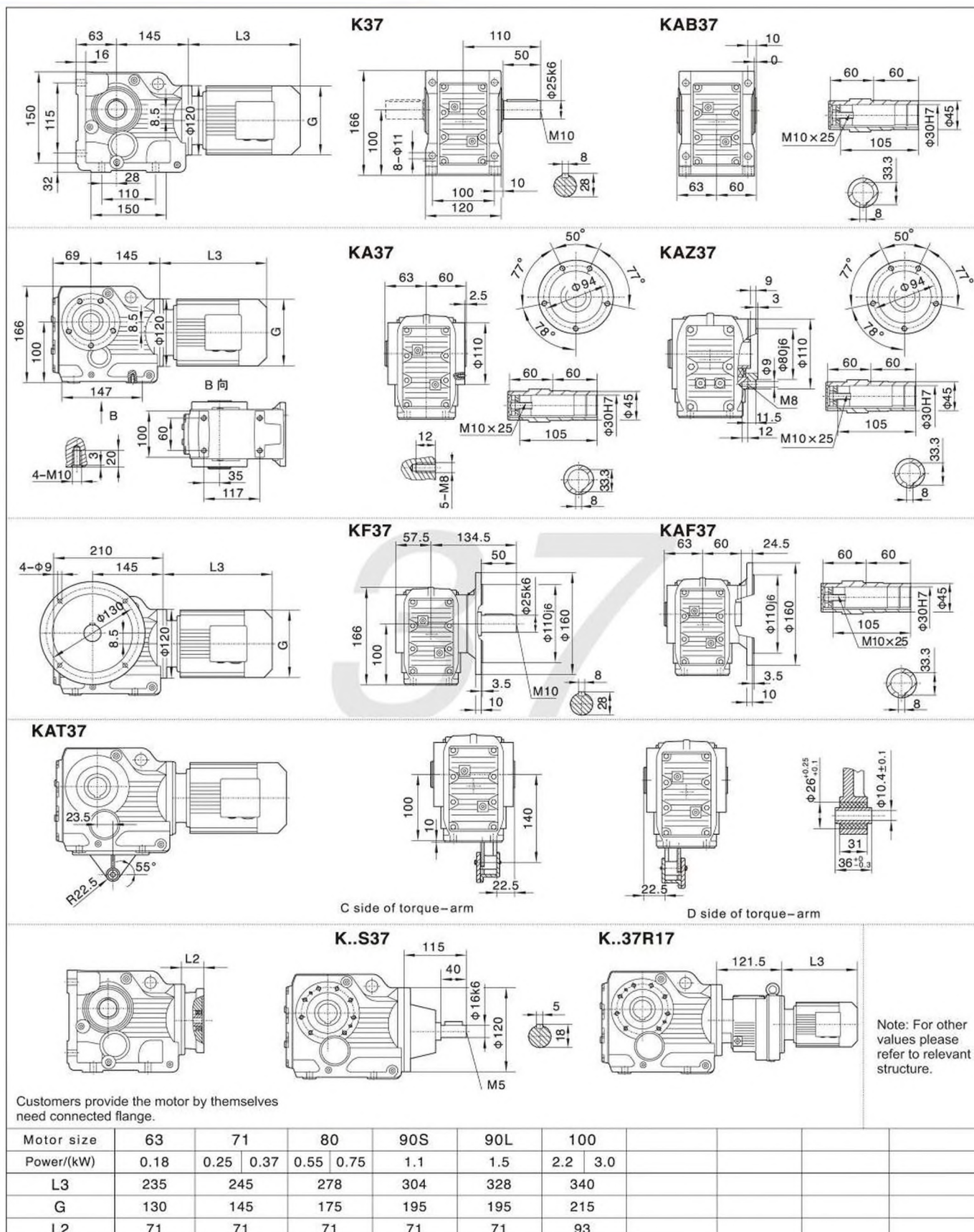
All gear units are overloaded in above table. Determination of operating torque should not higher than the gearunit's nominal torque.

Technical Parameter Table

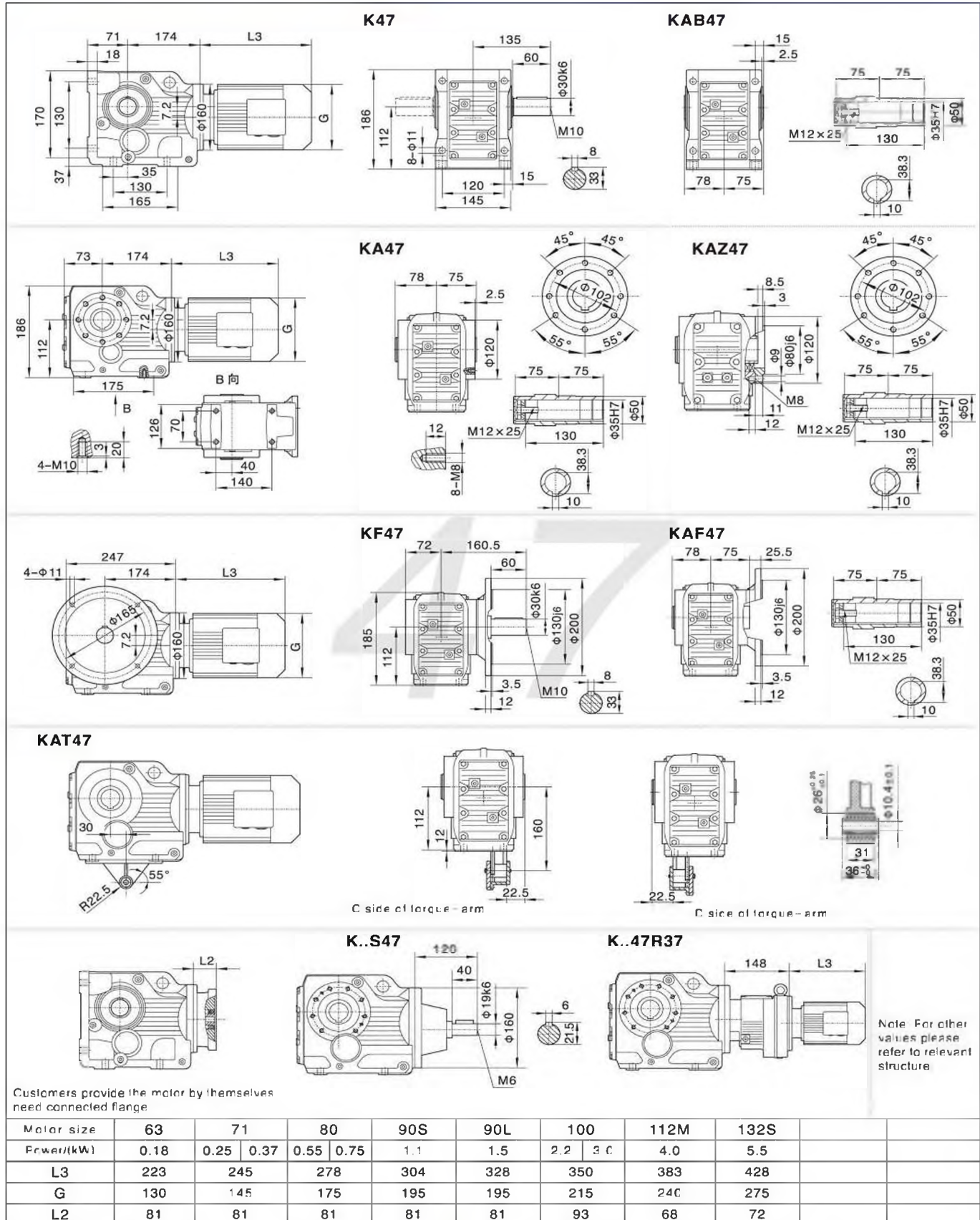
Permissible torque	Output speed	Ratio	Type	Power	Permissible torque	Output speed	Ratio	Type	Power
Nm	r/min	i	Type	kW/4p	Nm	r/min	i	Type	kW/4p
32000	0.42	3359	K 167R97 KA 167R97	2.2	50000	2.0	720	K 187R107 KA 187R107	15
	0.52	2741		2.4		614	18.5		
	0.63	2252		2.9		514	30		
	0.65	2174		3.3		449	37		
	0.85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

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

Dimensional Drawings

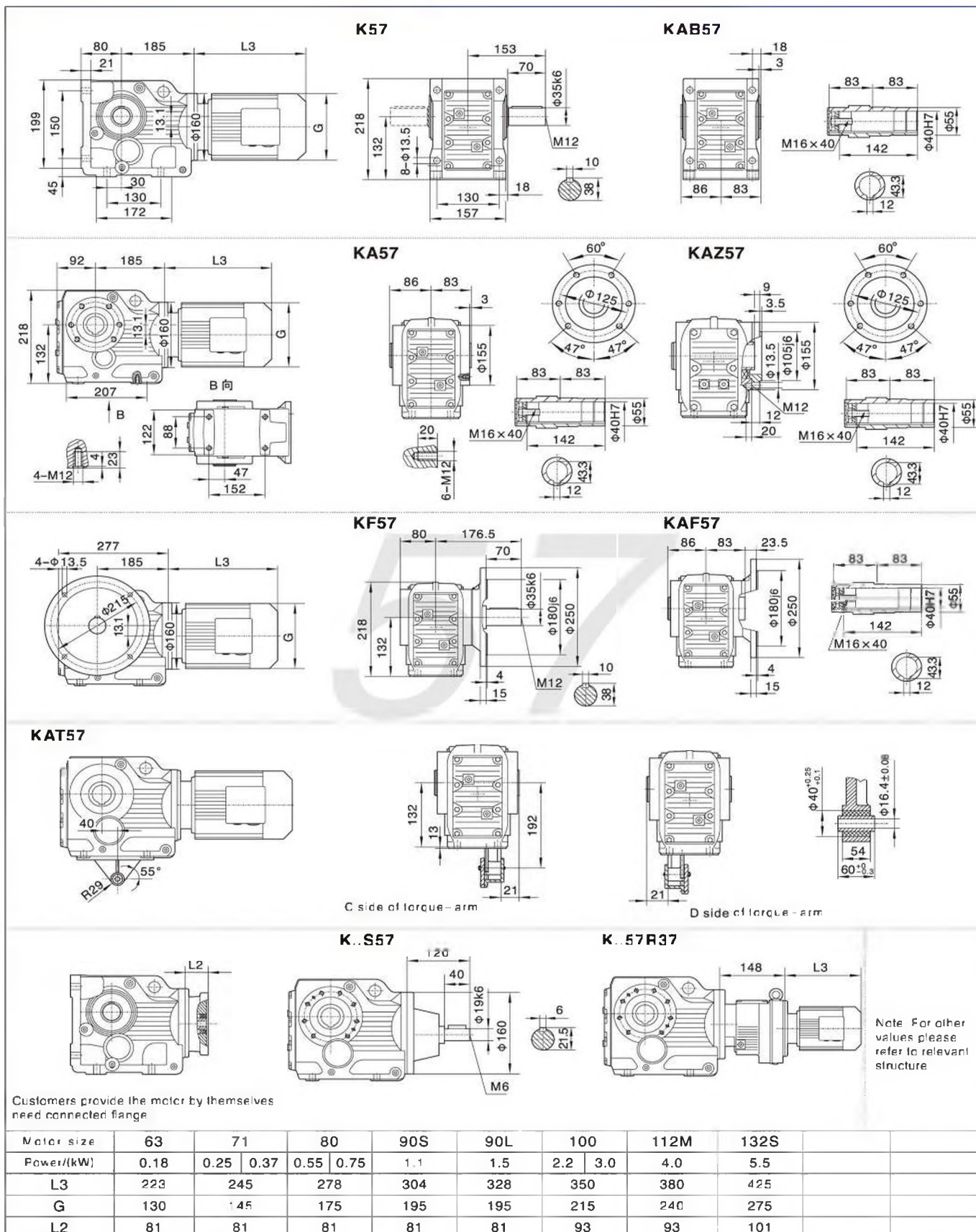


Dimensional Drawings

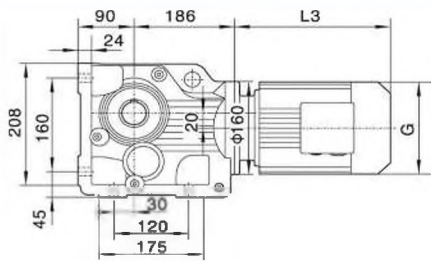


Note: 1. The housings of KA, KF, KAF, KAZ are common parts. The mounting dimensions may consult each other. 2. "K.." means K, KA, KF, KAF, KAZ, KAF.

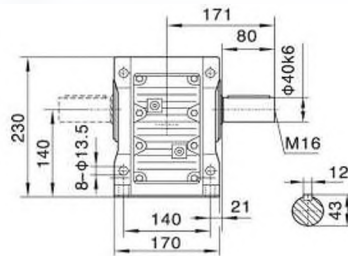
Dimensional Drawings



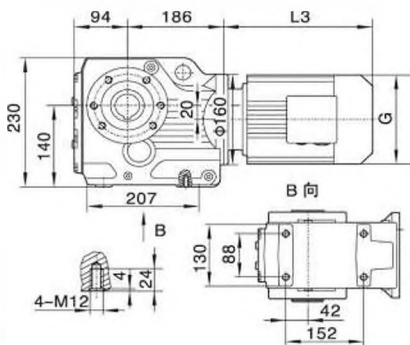
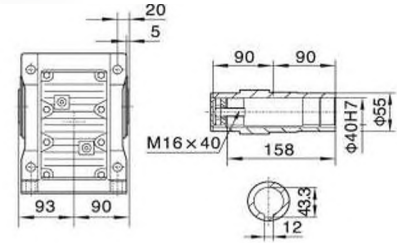
Dimensional Drawings



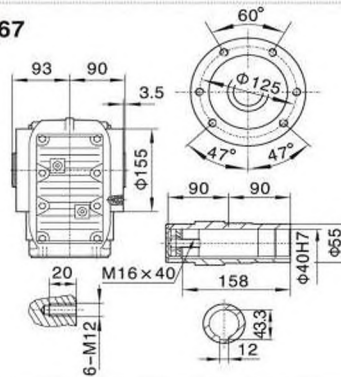
K67



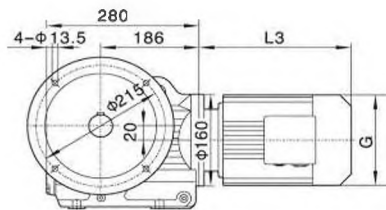
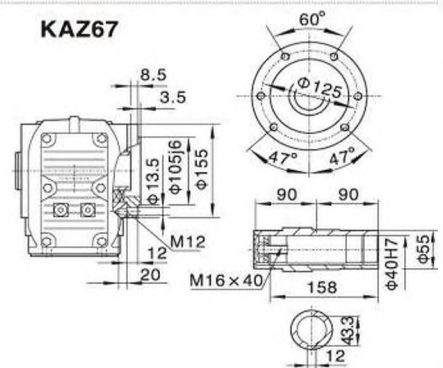
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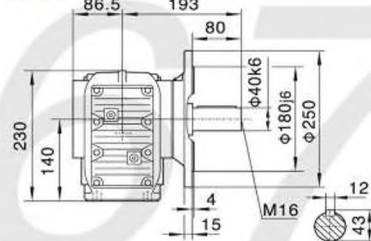
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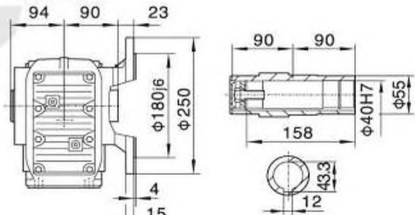
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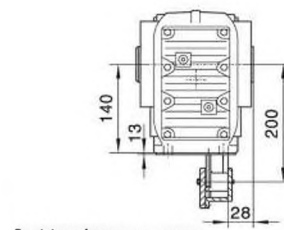
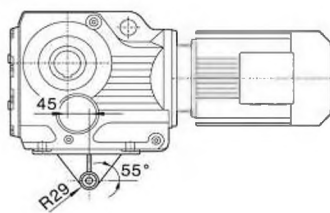
KF67



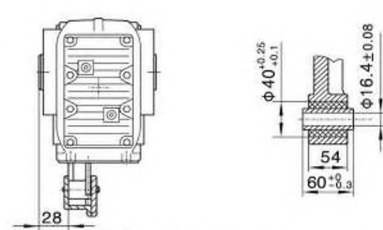
KAF67



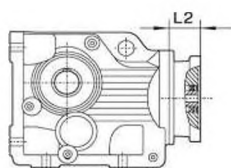
KAT67



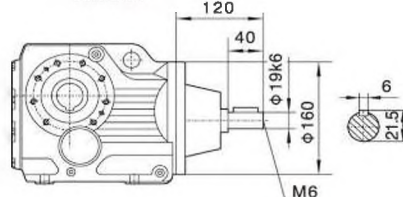
C side of torque-arm



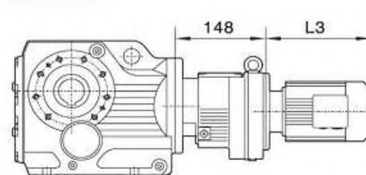
D side of torque-arm



K..S67



K..67R37



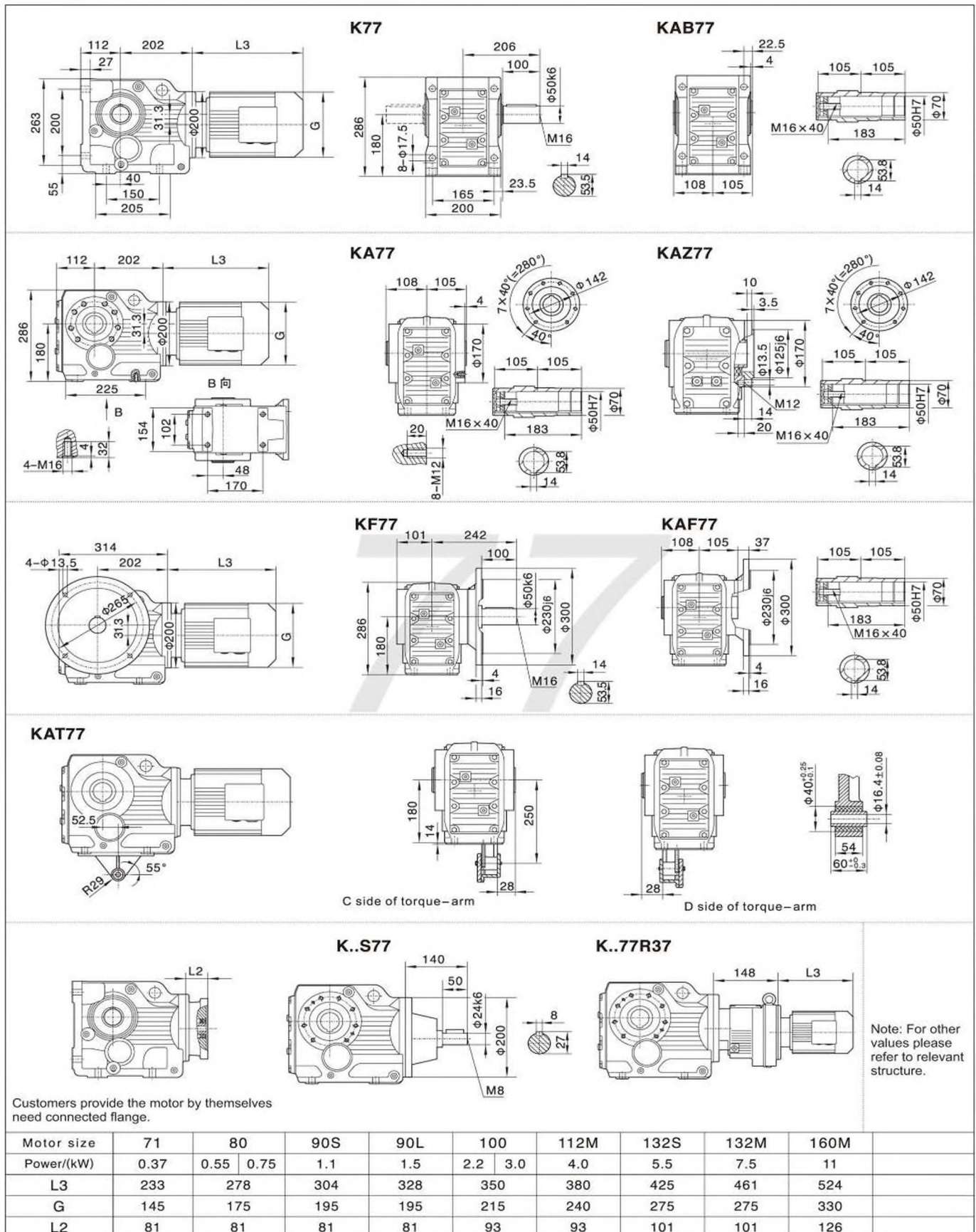
Note: For other values please refer to relevant structure.

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		

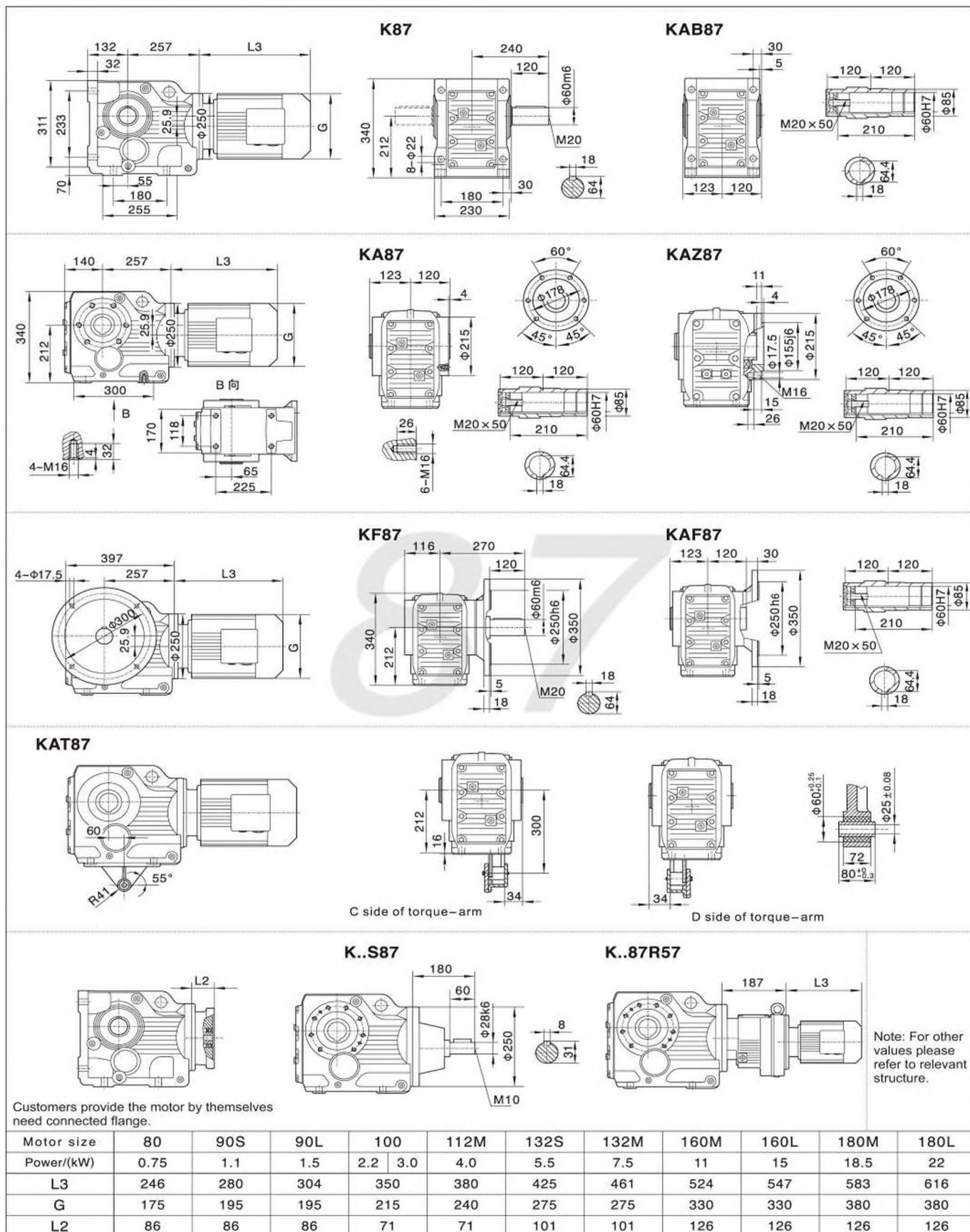
Note: 1. The housings of KA, KF, KAF, KAZ are common parts. The mounting dimensions may consult each other. 2. "K..." means K, KA, KF, KAF, KAZ, KAB

Dimensional Drawings



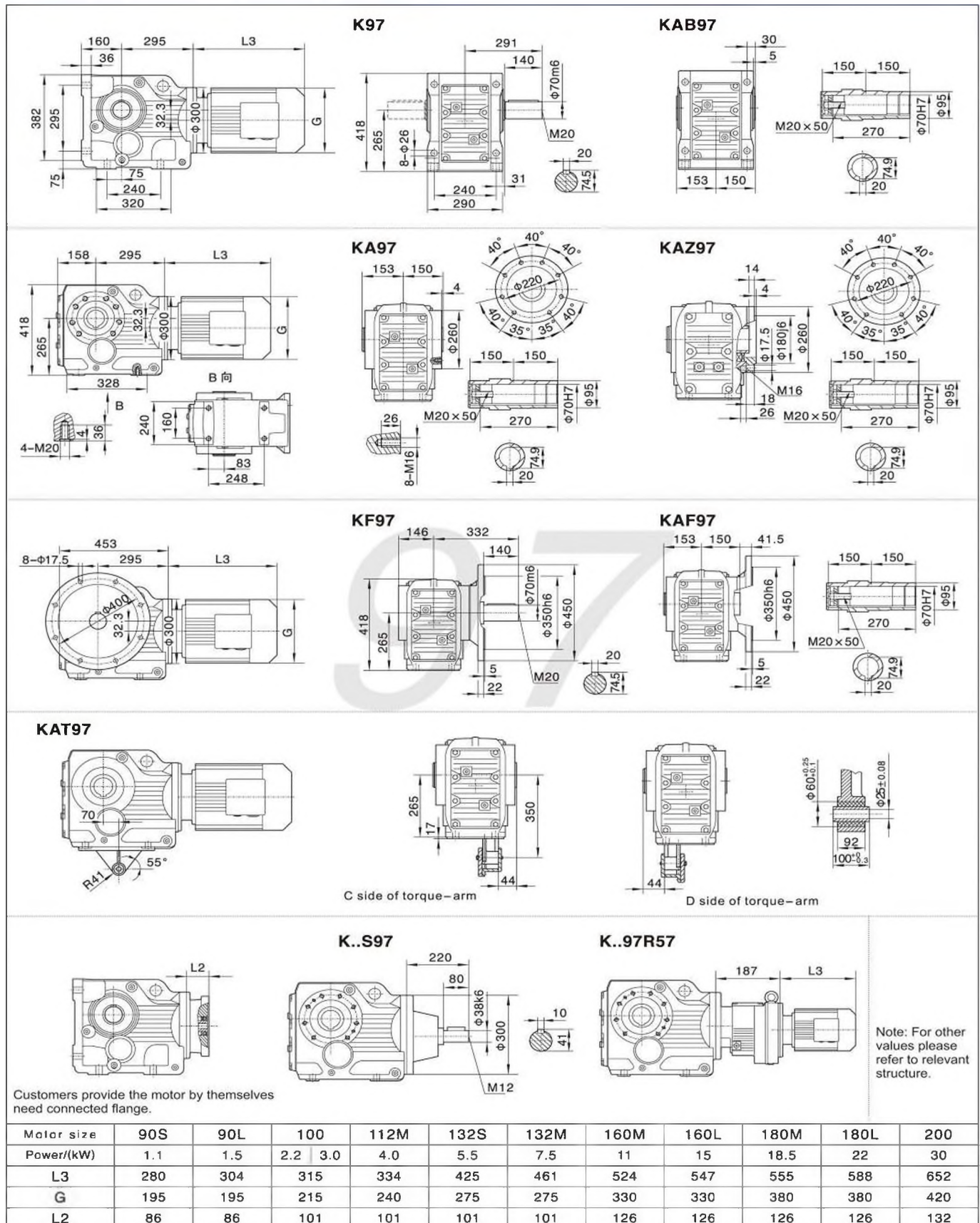
Note: 1. The housings of KA, KF, KAF, KAZ are common parts. The mounting dimensions may consult each other. 2. "K..." means K, KA, KF, KAF, KAZ, KAB.

Dimensional Drawings



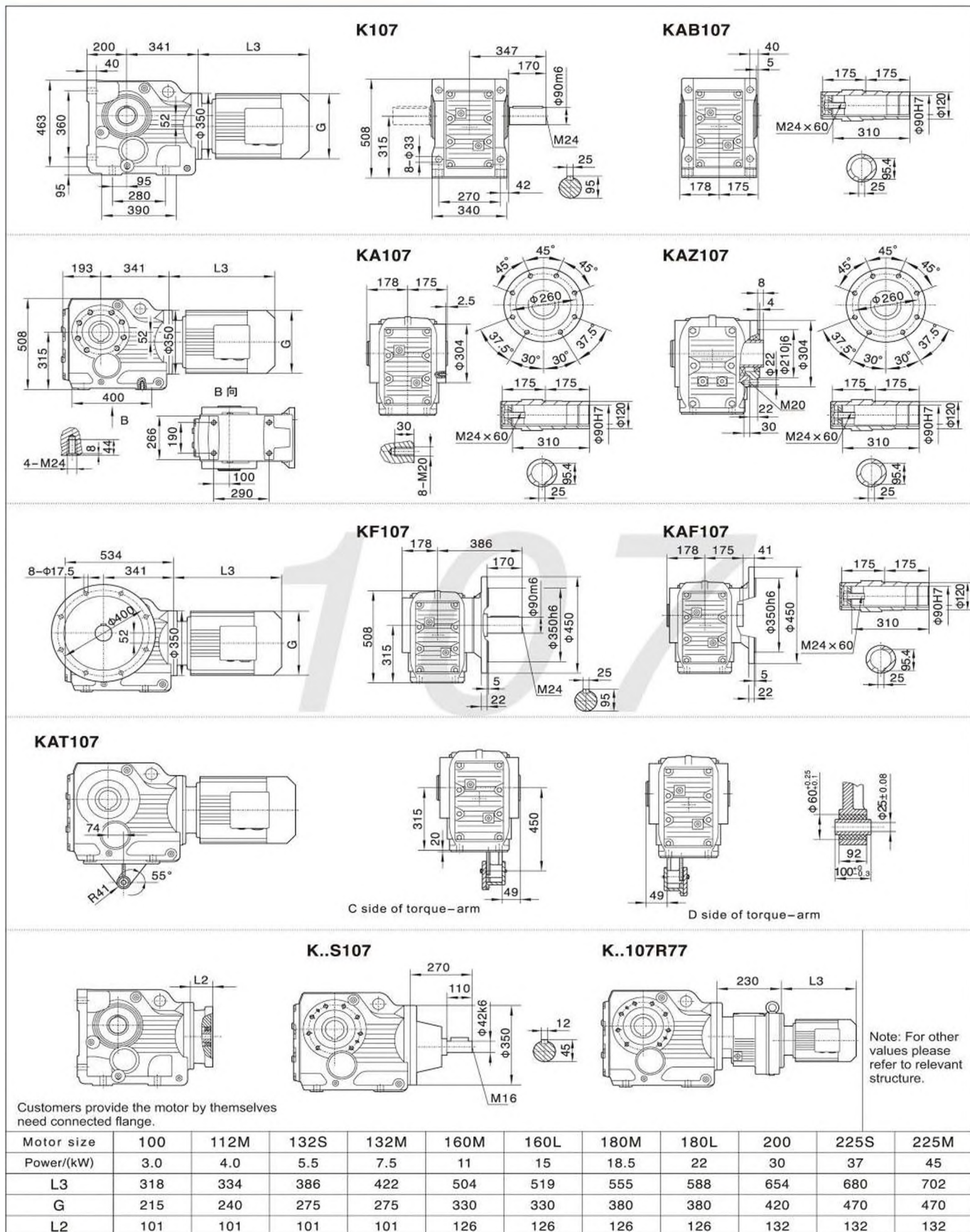
Note: 1. The housings of KA, KF, KAF, KAZ are common parts. The mounting dimensions may consult each other. 2. "K.." means K, KA, KF, KAF, KAZ, KAR.

Dimensional Drawings

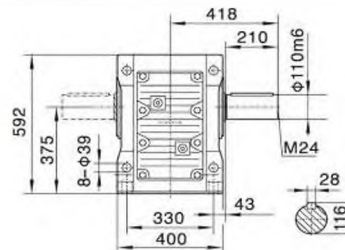
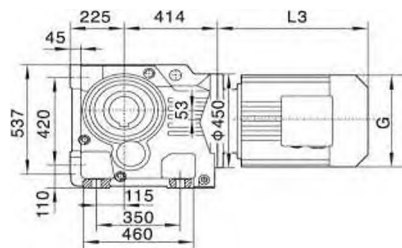
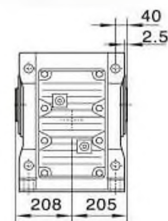
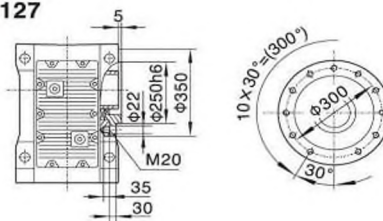
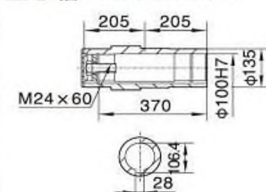
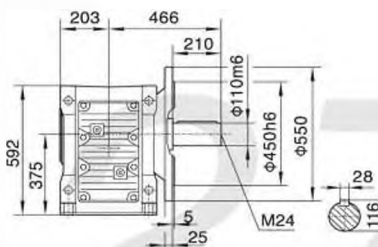
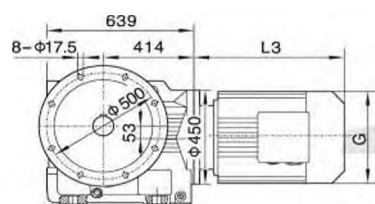
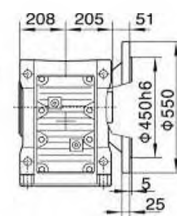
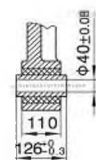
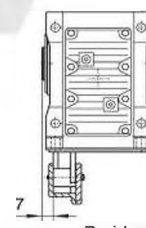
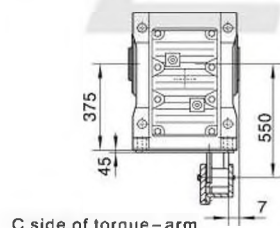
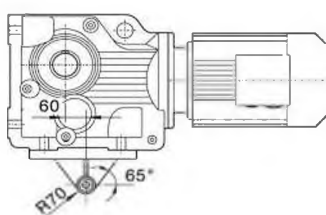
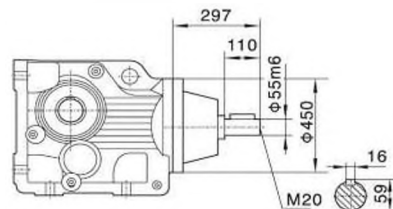
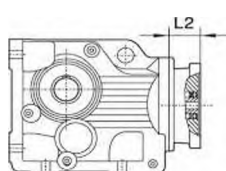
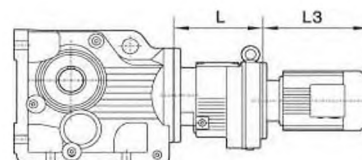


Note: 1. The housings of KA, KF, KAF, KAZ are common parts. The mounting dimensions may consult each other. 2. "K" means K, KA, KF, KAF, KAZ, KAB

Dimensional Drawings



Dimensional Drawings

K127

KA(KAB)127

KAZ127

KA127/KAF127/KAZ127
空心轴/Hollow shaft

KF127

KAF127

KAT127

K..S127

K..127R77(R87)


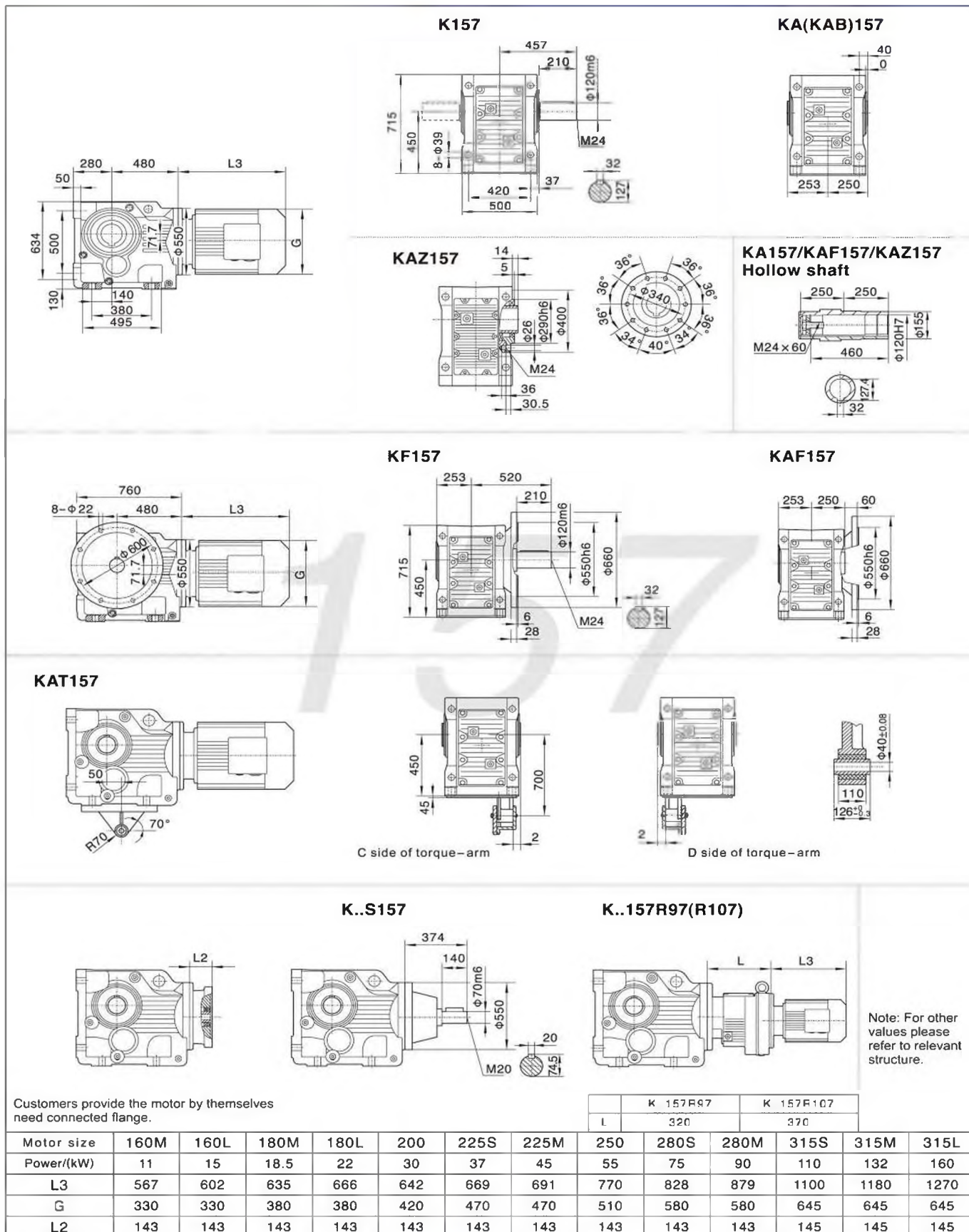
Note: For other values please refer to relevant structure.

Customers provide the motor by themselves need connected flange

Customers provide the motor by themselves need connected range								K 127R77		K 127RA7		
							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	

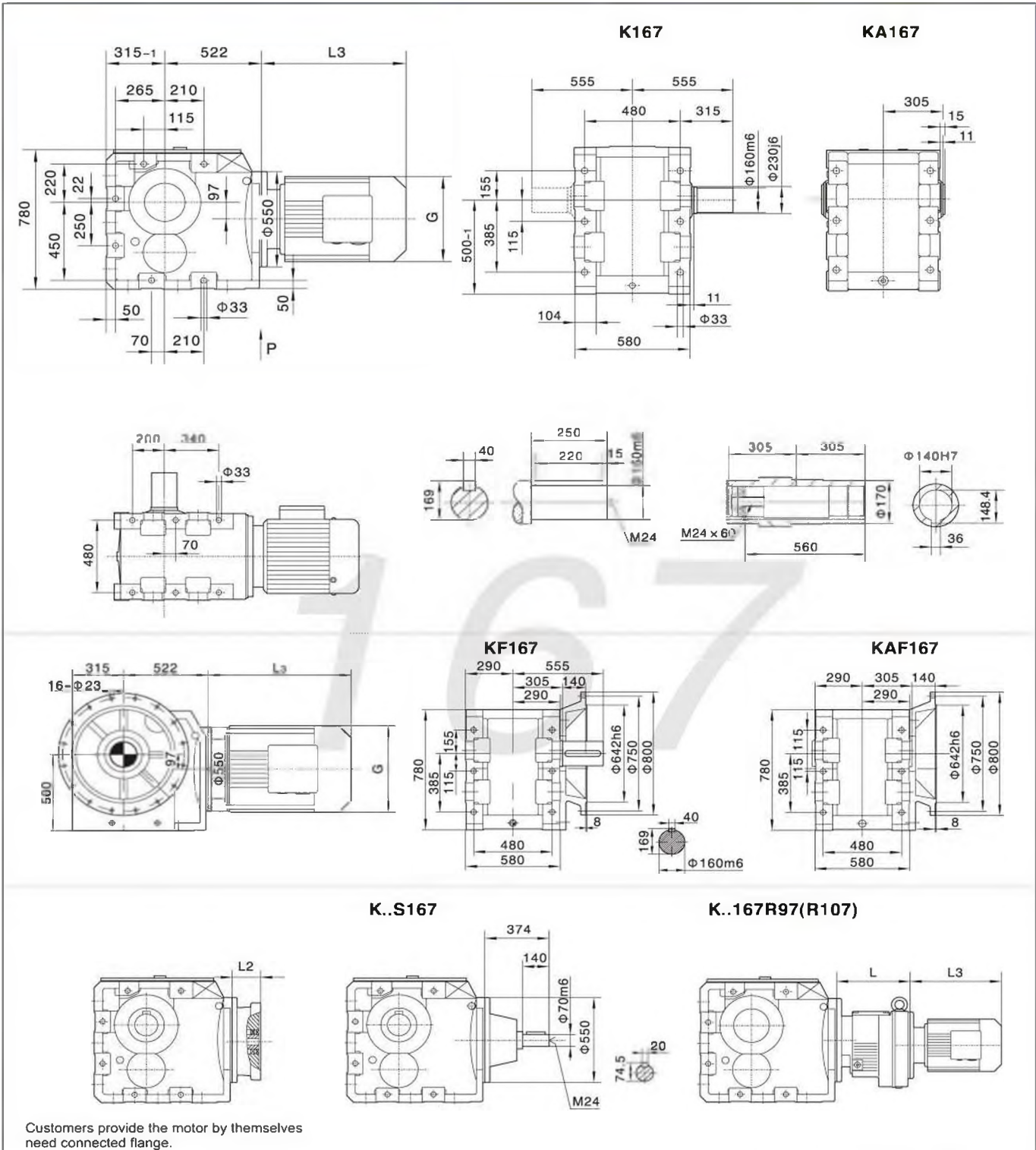
Note: 1. The housings of KA, KF, KAF, KAZ are common parts. The mounting dimensions may consult each other. 2. "K.." means K, KA, KF, KAF, KAZ, KAB.

Dimensional Drawings



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.

Dimensional Drawings



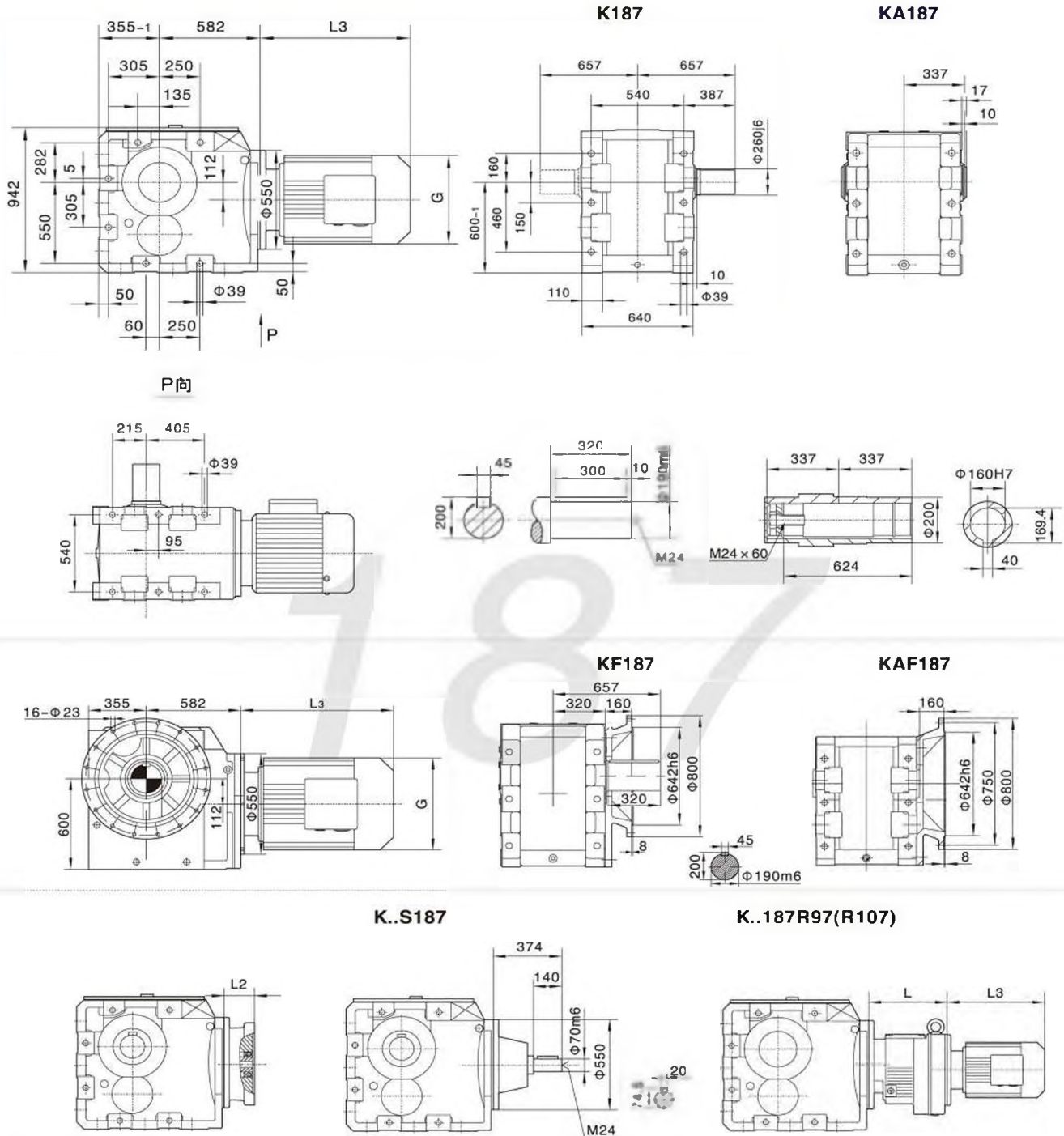
Customers provide the motor by themselves
need connected flange.

Note: For other values please refer to relevant structure.

Note: For other values please refer to relevant structure.											K...167R97		K...167R107	
										I	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.

Dimensional Drawings



Customers provide the motor by themselves
need connected flange.

Note: For other values please refer to relevant structure.

	K 187R97				K 187F107			
	L				320			
Motor size	160M	160L	180M	180L	200L	225S	225M	250M
Power/(kW)	11	15	18.5	22	30	37	45	55
L3	492	537	593	633	646	673	698	779
G	330	330	380	380	420	470	470	510
L2	76	76	76	76	76	98	98	103

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.

Dimensional Drawings

Dimensions of shrink disc

KH..37..	KH..47..
KH..57..	KH..67..
KH..77..	KH..87..
KH..97..	KH..107..
KH..127..	KH..157..
KH..167..	KH..187..