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Specialised Air Motors and Transmission

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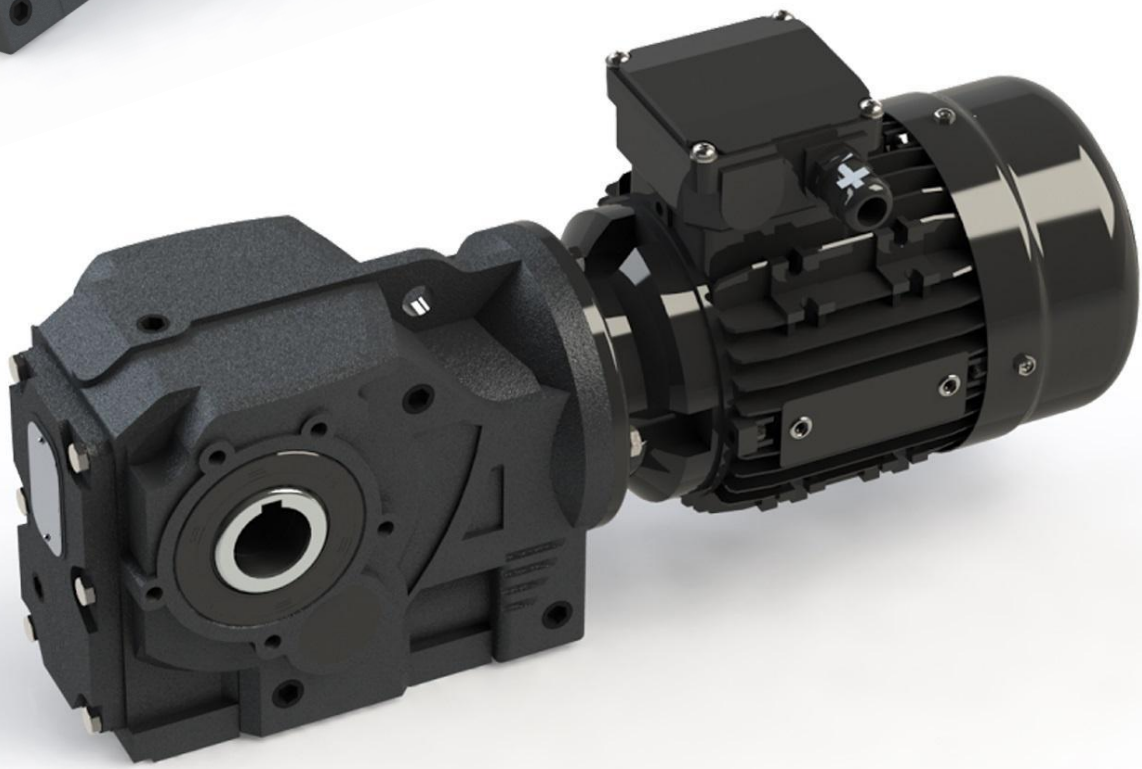

K Series

Helical-Bevil Gear Reducers

SAMT®
Specialised Air Motors and Transmission

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Introduction

Product Information and User Guide

In-line Helical Gear Unit R Series

TONSON®

Specialised Air Motors & Transmission (SAMT) - incorporating TONSON - was founded in 1966 and provides efficient solutions and equipment to all major industries including mining, chemical, food, paper, plastic, power transmission, manufacturing and pharmaceutical.

Our commitment to you is best service, quick lead times and very competitive prices.

Innovation & Quality

Specialised Air Motors & Transmission is committed to providing clever solutions for all hazardous environments and continues to develop smart ways to meet requirements from all different industries; our products meet CE standards ISO9002, ISO9001 and patents are registered globally including USA, Taiwan and China.

Unlike other conventional methods our products mainly use air instead of electricity as the source of power. This eliminates the chance of electricity shock and fire, which are the most crucial factors for industries involved in chemical, flammable or volatile contents.

Specialised Air Motors & Transmission products include air/electric motors, air/electric mixers and air fans which are engineered to meet the highest standards featuring 100% explosion-proof, low air consumption, light weight, high torque, reversible step less speed control, easy maintenance and various mounting methods. And can be used in very harsh conditions such as humidity, high temperature and flammable environments.

Products & Services

SAMT's other popular products include Pressure Tanks up to 200L (with and without integrated mixer), spray guns, pneumatic double diaphragm pumps, vertical pumps, magic drum carriers, non-spark drum openers, propellers, plus many more exciting and innovative products.

We also have the technical capability and expertise to provide complete power transmission solutions to meet your specific requirements, including full engineering assistance with design, selection and site installation. We also specialise in the supply of all types of Industrial gearboxes including Helical, Worm, Bevel-Helical, Bevel, screw jacks and planetary. All are interchangeable with other internationally recognised brands.

SAMT can also customise any product to suit your specific requirements and will investigate the possibilities of developing new products to satisfy your special specifications.

Helical - Bevel Gear Reducers

Advantages

1>Design Concepts: The combination of standardization and modularization allowed interchangeability with international leading brands, while keeping structure rigidity and compactness.

2>Noise Level: Leveraging the advantage of high efficiency of helical gears and smooth transmission of worm gears, the reducers performs with higher stability and produces less noise when compared with regular helical gear units.

3>Ratios Selections: The ratio ranges between 8:1 ~ 215:1, providing more accommodation to ratio requirements than worm gear speed reducers.

4>Loading Capacity: Available with power ranges from 1/4HP up to 30HP, depending on different requirements and applications.

5>Tensile Strength: Pinion, gears and worm shafts are made with 20CrMo alloy steel plus carbonized treatment. The aluminum bronze worm wheel offers higher strength and endurance.

6>Space Efficiency: Provides 90 degree angle transmission similar to that of worm gear units to minimize space needed for installation.

7>Installation Flexibility: All models are designed for various mounting position (M1~M6) specified by customers.

8>Appearance Aesthetics: The reducers are designed with modern exterior while maintained high rigidity.

1.3 OPERATION MANUAL

· This operation manual is to help you install and operate speed reducer correctly. To avoid damages to the speed reducers, proper installation and operation is very crucial. This manual also includes official recommendations on maintenance for an extended lifespan of speed reducers.

· Every SAMT speed reducer passed strict inspection and testing before being properly packaged for shipping. Upon receipt of the speed reducer, please check for any shortage or damage of parts during transit. Please be sure to contact SAMT for identification of responsible carrier and made record of the issue. We are committed to excellence in quality and devoted to solving problems for our clients.

I. INSTALLATION

1. Flexible couplings are preferred when input shaft connects directly to the motor; gear couplings are preferred on the output shaft's connection to the application.
2. Install on a stable base with good air ventilation; the accessibility of oil filling / draining should be considered.
3. The input shaft of the reducer and the motor shaft should be in alignment within the tolerance allowance.
4. After installation, please turn the input shaft manually first to check for any locking.
5. No-load running test should be performed first; any abnormality should be corrected prior to regular operation.

II. Lubrication

1. The first oil change should be performed after 500 hrs of operation; subsequent oil change is needed every 2,500 hrs of operation. Nevertheless, a regular check on oil level and conditions are recommended.
2. Please fill only with compatible specifications of oil and do not mix oil of different specifications in a single unit.
3. The interior of the reducer should be flushed and drained before filling with fresh oil.
4. Please shut the reducer immediately for inspection if the temperature rises above 80°C or any abnormal noise occurred. Restart only after the issues identified and cleared.
5. Lubricant recommendation: MOBIL Gear 632, SHELL Omala 320, MOBIL Mobilube HD80W-90, SHELL Spirax E.P 90.
6. Unless specified otherwise by the customer, every SAMT speed reducer is supplied with appropriate amount of lubrication according to different installation position before shipping. If customer prefers to fill in the lubricant oil post shipment, please follow the instruction section of this catalog.

III. Storage

1. If the speed reducer is not for immediate installation, please keep the unit away from humidity and heat sources. After extended period of storage, please contact our service personnel for instruction on restoring the original performance prior to installation.

IV. Attachments the parts on reducer's shaft

1. Notice: Avoid heavy impact on shafts! It may cause bearing damages and undermines bearing performances. If bearings are to be replaced, we recommend heating method, which heats the bearing above 80℃ , that would allow a clear fit on the shafts and reduce the damage to the bearing. For the tolerance of shaft's diameter, please refer to the specification in catalog.
2. While installing the coupling, make sure to check the alignment of coupling and shaft of speed reducer properly to eliminate the damage on bearings and reduce to vibration frequency and abnormal wear.

3. To avoid overload on the bearings of output shaft, please refer to the OHL (overhung loading) in catalog. For exceeding axial load, please contact our service engineer for consultation.
4. The actual application of following factors such as input and output speed, direction of rotation, installation site and over axial and radial loading should be carefully examined.

V. Installation & Operation

1. The underlying factors should be taken into consideration:
   * Ambient temperature below 40℃
   * Location with good air ventilation
   * Proper positions for oil plug and drain plug
   * Sufficient space for periodical inspection, maintenance, and replacement
2. It is necessary for the unit to be installed on a flat, stable and rigid base for accurate alignment to prevent damages to the reducer's housing.
3. The suggested tolerance of flatness on base:
   * For size 77 or smaller, < 0.1mm/m
   * For size 87 or bigger, <0.2mm/m
4. To avoid the lubricant splash out during the transportation, breather plug with red pin inserted into air breathing hole. Please remove the red pin before start-up.
5. Before installation, please check the input horsepower and ratio to be the same as the punched name plate of reducer.

VI. Caution

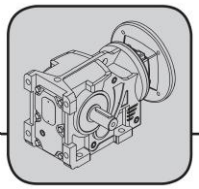
Caution! The power should be turned off before removal or replacement of the reducer.

1. Oil level and quality lubricant is key point of daily maintenance. Please refer to our suggestion to change the lubricant periodically according to operation frequency site situation.
2. Check the alignment of coupling, the tightness of chain, and nuts and keep the reducer away from excessive dust and grease externally .

General Problems & Improvements

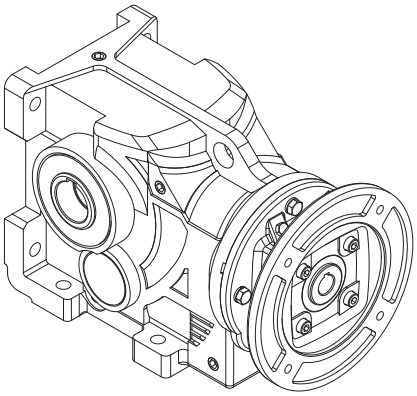
The following lists are general problem situations. In case that other problems happen, please contact us directly to get more information.

CAUSE	REASON	IMPROVEMENT
I. Overheat	1. Overload 2. Lubricant oil overfill or shortage 3. Improper lubricant oil 4. Extra friction on oil seal(lack of lubricant)	1. Adjust to proper loading 2. Add lubricant to the level of oil gauge 3. Chang proper lubricant oil 4. Lip lubricant at oil seal
II. Noise	1. Consistent noise { improper gears contact; bearing damaged 2. Screaming noise { bearing gap too small; lubricant oil shortage 3. Inconsistent noise { some object insert; bearing damaged	1. { Repair gears; Replace bearing 2. { Replace bearing; Fill in lubricant oil 3. { Remove debris & replace lubricant oil: Replace bearing
III. Vibration	1. Gear wear 2. Debris inside 3. Bearing worn-out or damaged 4. Bolt loose	1. Replace gear 2. Remove debris & replace lubricant oil 3. Replace bearing 4. Tighten bolt
IV. Oil Leakage	1. Oil seal damage 2. Gasket damage 3. Loose drain plug 4. Loose covers or flange	1. Replace oil seal 2. Replace gasket 3. Tighten drain plug 4. Tighten the bolts
V. Input and Output Shaft Fail	1. Gear-bound caused by overheat 2. Bearing damage 3. Debris between gears	1. Adjust or replace gears 2. Replace bearing 3. Remove debris; clean inside then replace lubricant oil
VI. Input shaft fail to drive output shaft	1. Gear wear 2. Damage to key connecting gear and output shaft 3. Input shaft rupture 4. Output shaft rupture	1. Replace gears 2. Replace key 3. Replace input shaft 4. Replace output shaft
VII. Gear Worn-out	1. Overload 2. Improper lubricant oil 3. Lubricant oil shortage 4. Excessive ambient temperature	1. Adjust to proper loading 2. Change proper lubricant oil 3. Refill lubricant oil 4. Ventilation improvement



2.1 Variants

Input Flange



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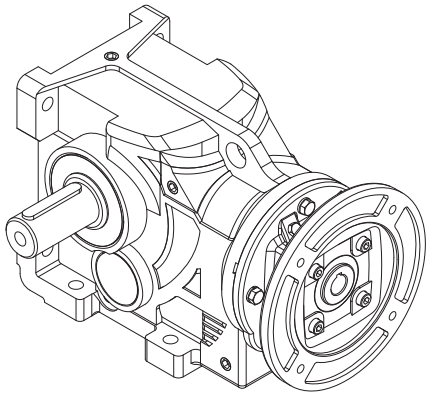

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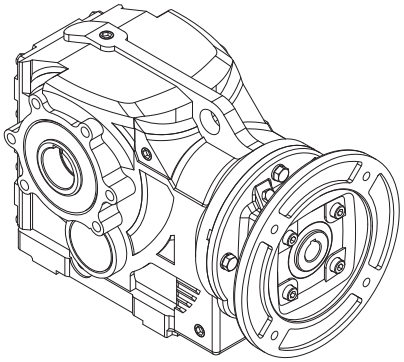

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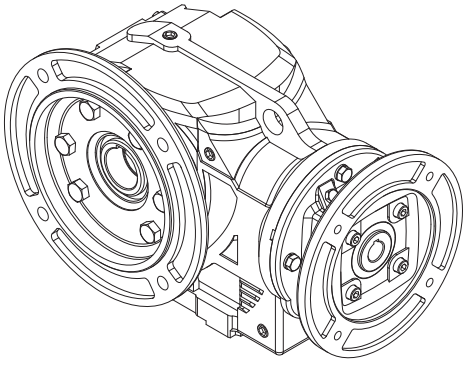

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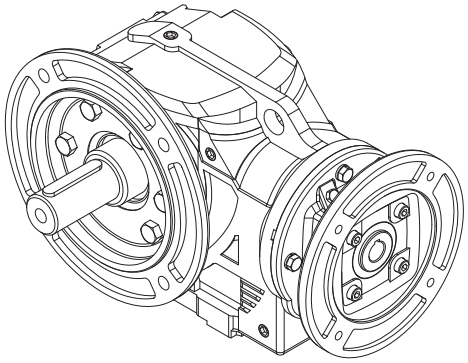
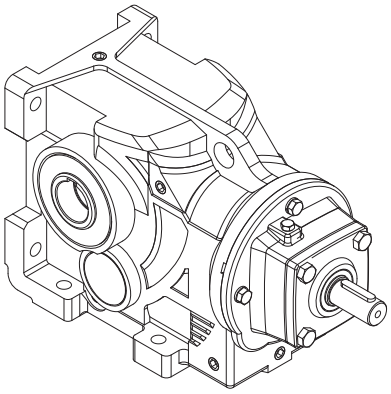


KNF...

Solid Input Shaft



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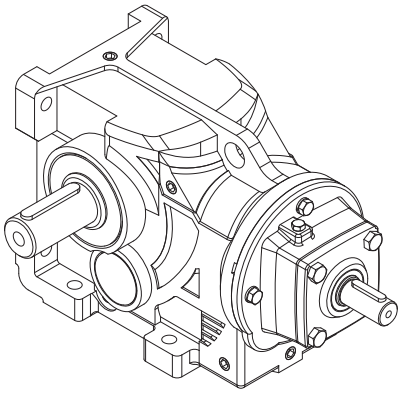

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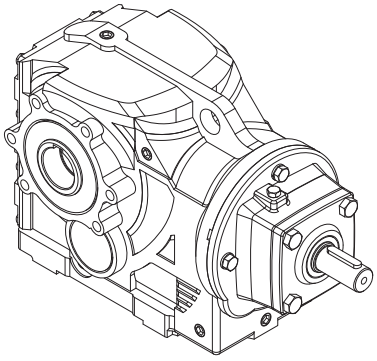

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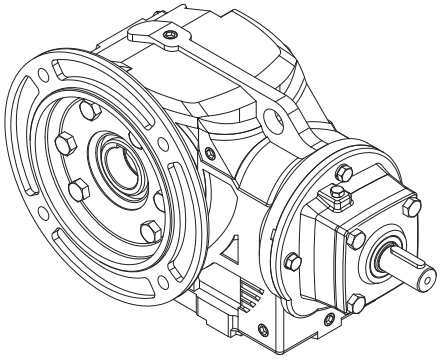

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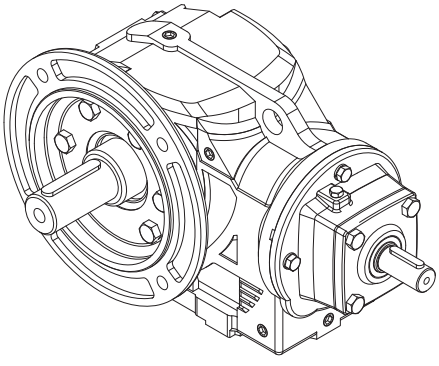
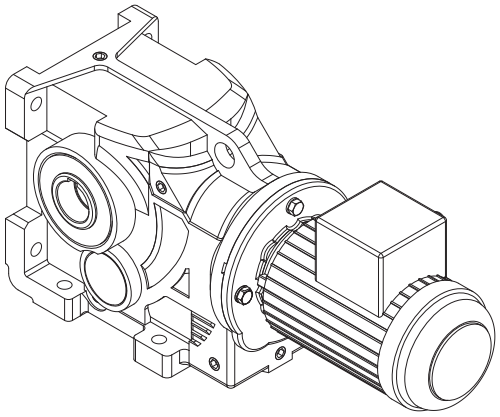


KNS...

Couple with Motor



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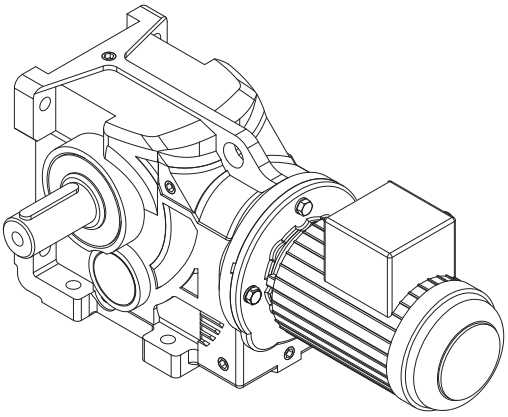

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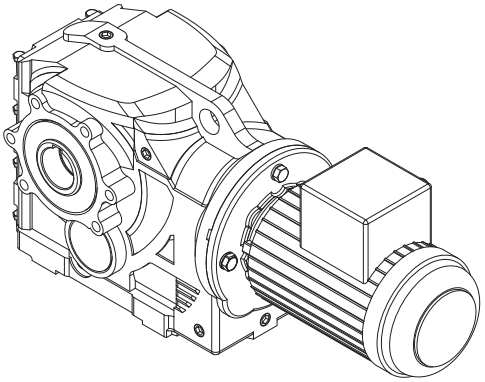

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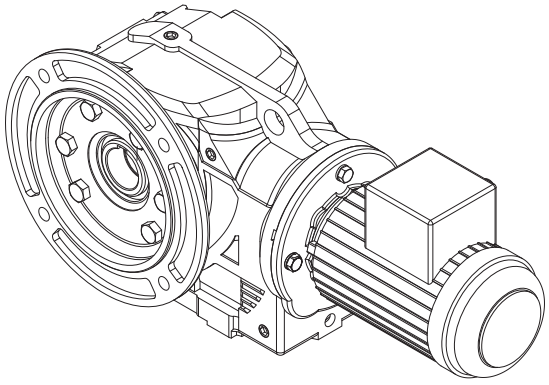

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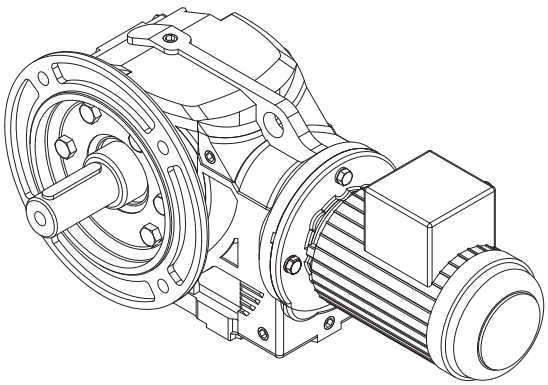
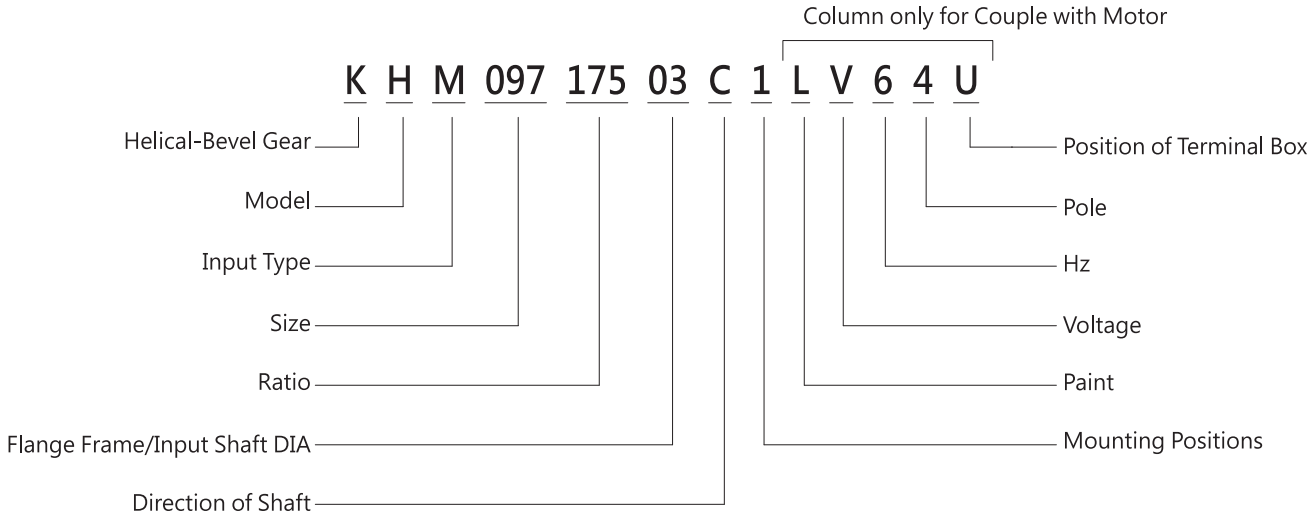


KNM...

2.2 Order Code



Model

S Solid Output Shaft(Foot Mounting)

H Hollow Output Shaft(Foot Mounting)

N Solid Output Shaft With Mounting Flange

A Hollow Output Shaft

M Hollow Output Shaft With Mounting Flange

Input Type

F Input Flange IEC B5

B Input Flange IEC B14

N Input Flange NEMA

S Solid Input Shaft

M Couple With Motor

Size

037 : 37
047 : 47
057 : 57
067 : 67
077 : 77
087 : 87
097 : 97
107 : 107

Ratio

005 : 1/5
⌇
215 : 1/215

Flange Frame/ Input Shaft DIA

IEC Standard 4-Pole	NEMA Standard	Input Shaft DIA
QQ : 1/4HP	01 : 56C	16 : Ø 16
HH : 1/2HP	02 : 143T	19 : Ø 24
01 : 1HP	04 : 182/184T	24 : Ø 24
02 : 2HP	06 : 213/215T	28 : Ø 28
03 : 3HP	08 : 254/256T	38 : Ø 38
05 : 5HP		42 : Ø 42
07 : 7.5HP		
10 : 10HP		
15 : 15HP		
20 : 20HP		

Direction of Shaft

A、B、C

Mounting Positions

M1、M2、M3、M4、M5、M6

Paint

L : Gray

Voltage

2 : 220/380	C : 220/400	H : 200/346
4 : 240/415	D : 230/400	K : 208/220
5 : 220/440	E : 230/440	M : 208/240
A : 220/230	F : 240/480	N : 380/660
B : 220/240	G : 120/208	V : 208~480

Hz

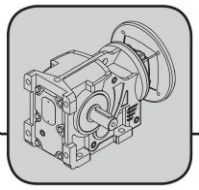
5 : 50Hz
6 : 60Hz

Pole

2 : 2P
4 : 4P
6 : 6P
8 : 8P

Position of Terminal Box

U、D、L、R



2.3 Permitted Combinations

K107 , n_e=1400 1/min													8000 Nm
n_a [1/min]	M_{amax} [Nm]	F_{Ra} [N]	i	100L	112M	132S	132M	160M	160L	180MC	180LC	200LC	Input shaft mm
9.8	8000	59170	143.55										Ø28
11	8000	55370	121.95										
13	8000	52460	107.04										Ø38
14	8000	51090	100.47										
15	8000	50000	95.48										
15	8000	48930	90.70										Ø42
17	8000	46960	82.38										
19	8000	45110	75.12										

Gear unit reduction ratio

Permitted overhung load at maximum output torque

Maximum output torque

Output speed

Standard

Input Flange / Solid Input Shaft - Standard

Couple with motor - Customization accepted
Please contact our customer service

2.4 Selection Tables

K..F/..M

Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]

[1] Rated power driving motor

[2] Output speed

[3] Output torque

[4] Gear unit reduction ratio

[5] Permissible overhung load output side

[6] Service factor

[7] Gear unit size

[8] Motor type

[9] Weight

K..S

i	na [1/min]	Mamax [Nm]	Pe [kW]	FRa [N]	FRe [N]			m [kg]
K37								200Nm
[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]

[1] Gear unit reduction ratio

[2] Output speed

[3] Maximum permitted output torque

[4] Calculated drive power of the gear unit

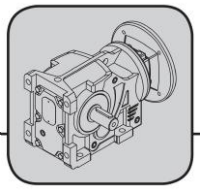
[5] Permitted overhung load at maximum output torque

[6] Permitted overhung load on the input side

[7] Gear unit size

[8] Input shaft diameter

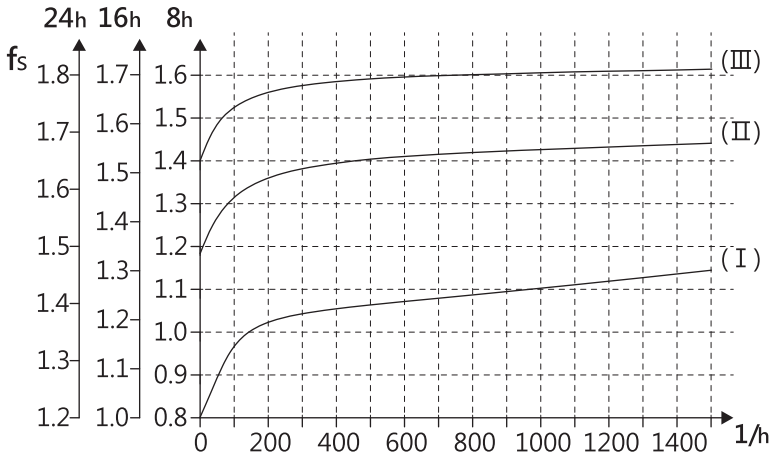
[9] Weight



2.5 Determining The Service Factor

The service factor is determined along with the daily operating time (hours/day), operating condition (continuous or intermittent) and level of load; for a proper gear selection, please determine the service factor accordingly.

$$Ma \times fs \leqq Mamax$$



Service Factor

Load Classification

Ⅰ Light shocks：mass acceleration factor ≦0.2

Ⅱ Moderate shocks：mass acceleration factor ≦3

Ⅲ Heavy shocks：mass acceleration factor ≦10

$$\text{Mass acceleration factor} = \frac{\text{all exterior moments of inertia}}{\text{moments of inertia drive motors}}$$

[**All exterior moments of inertia**] - recalculated to motor speed, formula

$$J_X = J \times \left(\frac{n}{n_M}\right)^2$$

J_X : mass moment of inertia scaled down to the motor shaft

J : mass moment of inertia with reference to the output speed of the gear unit

n : output speed of the gear unit

n_M : motor speed

Calculation of service factor

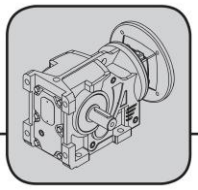
$$fs = \frac{Mamax}{Ma}$$

Mamax : the maximum permitted continuous torque

Ma : output torque of the gear unit

EX

If the mass acceleration factor is 2.5 (Moderate shocks Ⅱ), the operating time is 14 hours per day in an intermittent condition by 300 times per hour. We can acquire fs=1.51 from the fs chart; according to selection tables, we will know to select the gear unit with fs ≧ 1.51.



2.6 Tolerances

Shaft heights

The following tolerances apply to the indicated dimensions:

h	≦ 250 mm	→ -0.5 mm
h	> 250 mm	→ -1 mm

Foot-mounted gear units: Check the mounted motor because it may project below the mounting surface.

Shaft ends

Diameter tolerance:

Ø	≦ 50 mm	→ k6
Ø	> 50 mm	→ m6

Center bores

Ø	> 24...30 mm	→ M10	Ø	> 50...85 mm	→ M20
Ø	> 30...38 mm	→ M12	Ø	> 85...130 mm	→ M24
Ø	> 38...50 mm	→ M16			

Hollow shafts

Diameter tolerance:

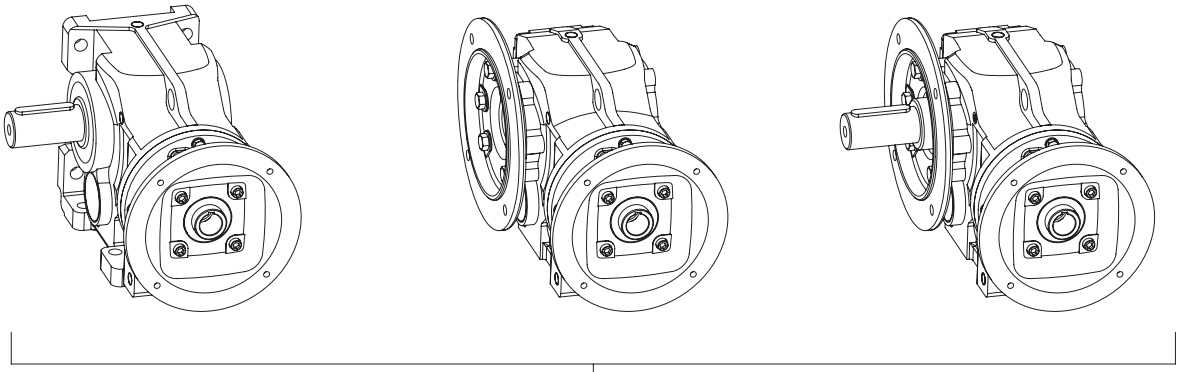
Ø	H7

Output Flanges

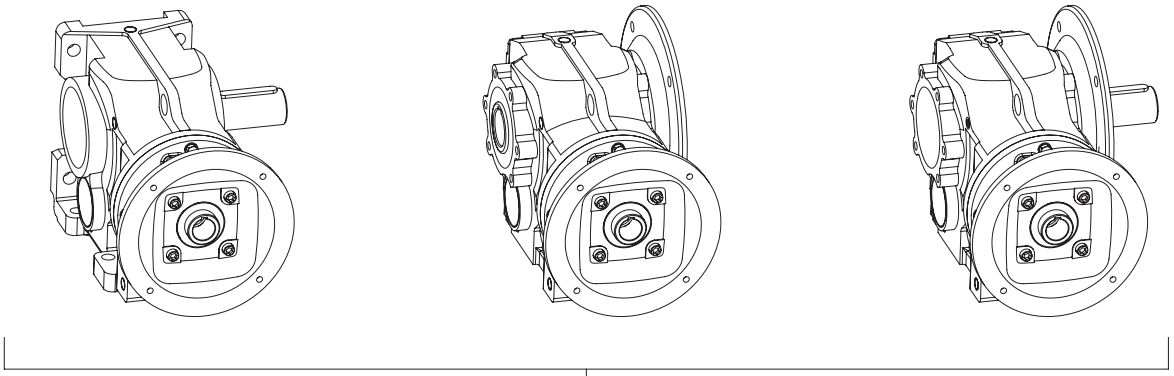
Centering shoulder tolerance:

Ø	≦ 230 mm	→ j6
Ø	> 230 mm	→ h6

2.7 Direction of Shaft



A



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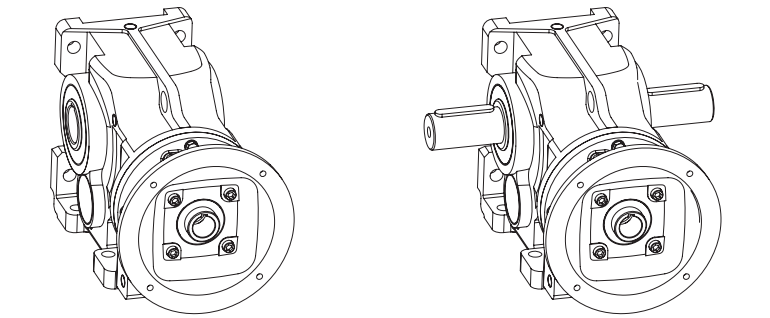

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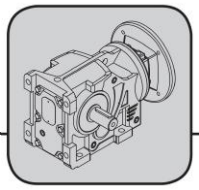

2.8 Mounting Positions

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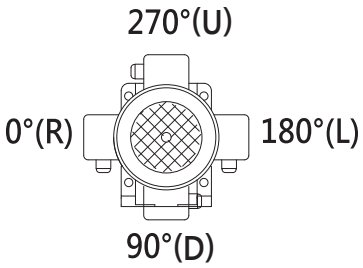
Position of Terminal Box

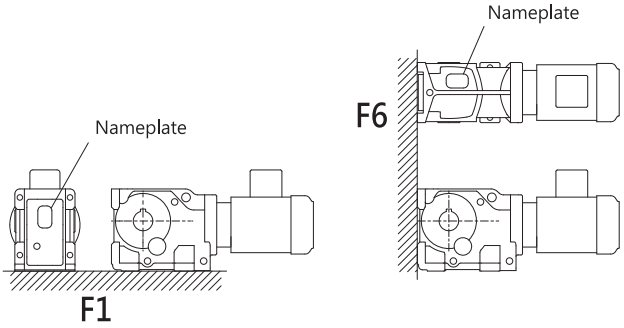
Standard position "U", unless specific requirements

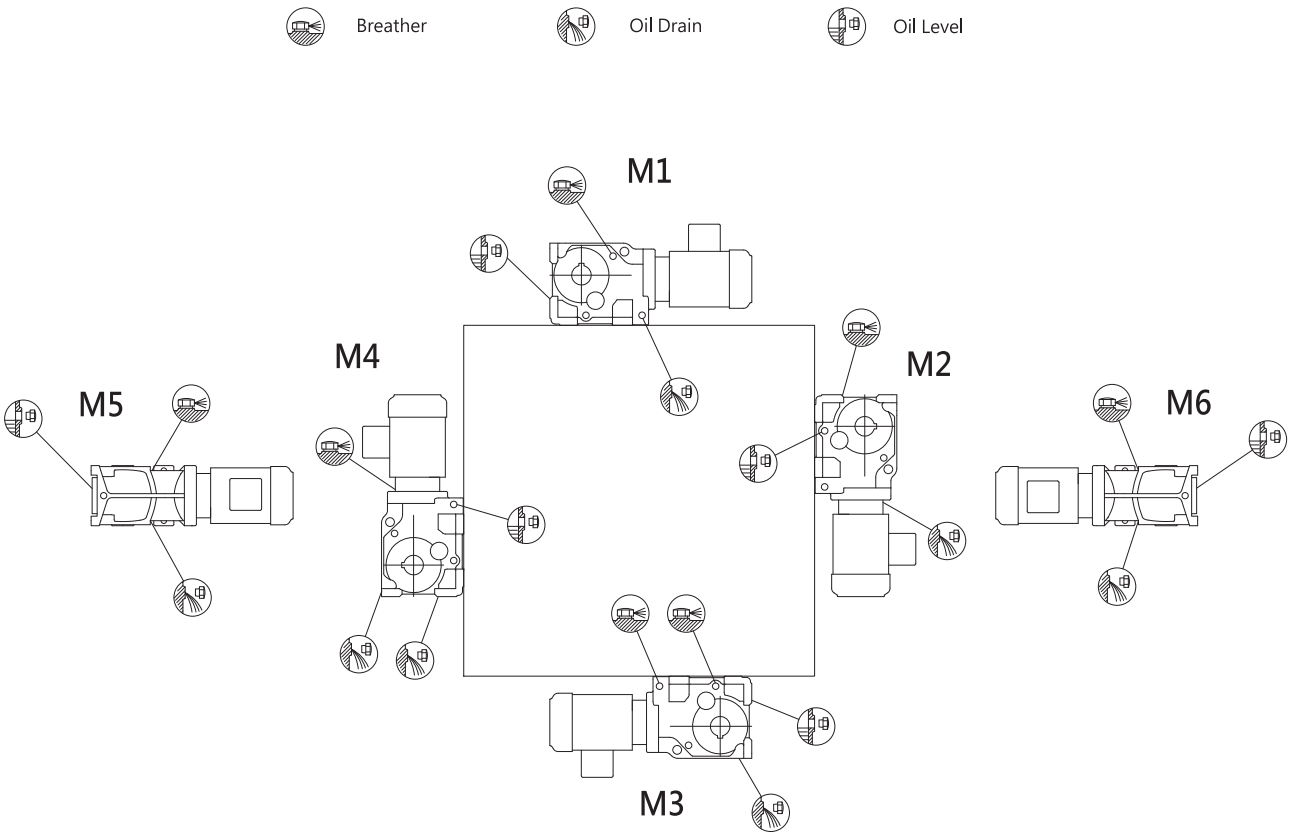


Mounting Surface

Standard mounting surface F1, unless specific requirements

The position of plug and nameplate might vary depanding on the mounting surface





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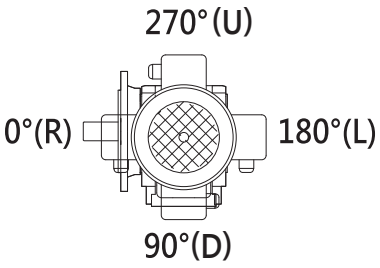
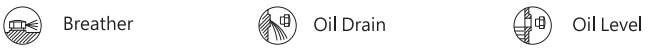
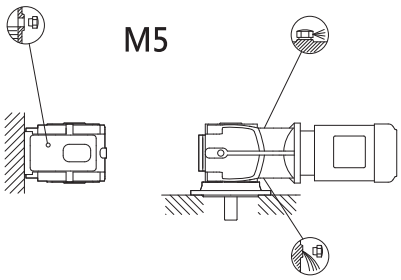
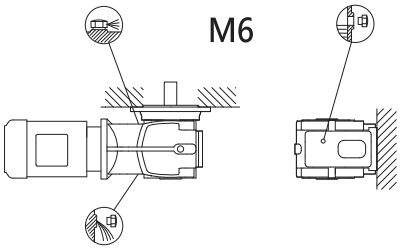
Position of Terminal Box

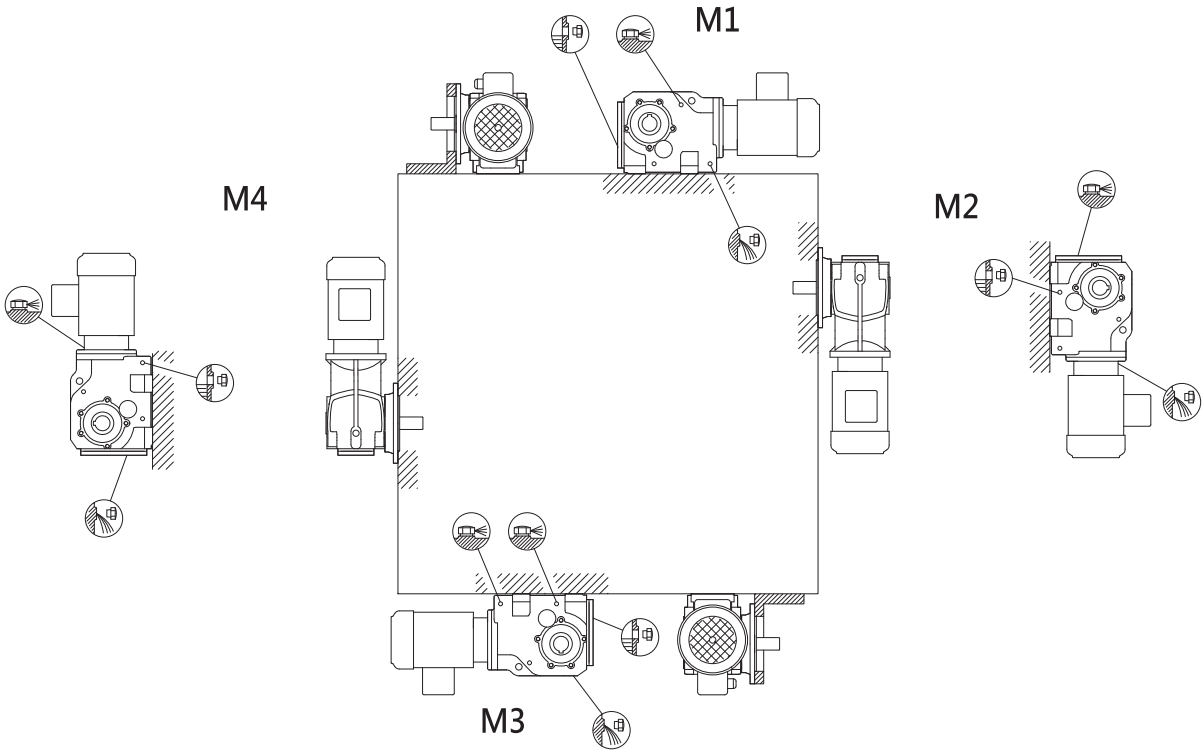
Standard position "U", unless specific requirements

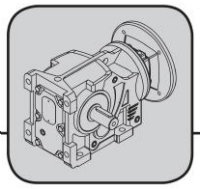












2.9 Lubricant Volume

表 Lubricant Volume & Lubricant Selection

Standard Load, Input 600 RPM or more.				
Temperature(C°)	CPC	ISO VG	Mobil	Shell
-30～-15	HD 100	VG 100	Mobilgear 627	Omala 100
-15～-3	HD 150	VG 150	Mobilgear 629	Omala 150
-3～23	HD 220	VG 220	Mobilgear 630	Omala 220
23～40	HD 320	VG 320	Mobilgear 632	Omala 320
40～80	HD 460	VG 460	Mobilgear 634	Omala 460

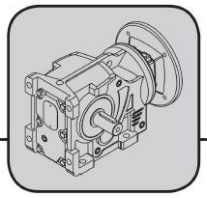
Heavy Load, Input 600 RPM or more.				
Temperature(C°)	CPC	ISO VG	Mobil	Shell
-30～-15	HD 150	VG 150	Mobilgear 629	Omala 150
-15～-3	HD 220	VG 220	Mobilgear 630	Omala 220
-3～23	HD 320	VG 320	Mobilgear 632	Omala 320
23～40	HD 460	VG 460	Mobilgear 634	Omala 460
40～80	HD 680	VG 680	Mobilgear 636	Omala 680

output RPM<100R.P.M, please use CPC HD-220 E.P. lubricant or equivalent

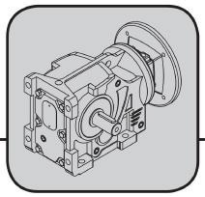
output PRM<100R.P.M, please use CPC HD-320 E.P. lubricant or equivalent

Lubricant Volume (L)						
Gear unit	M1	M2	M3	M4	M5	M6
K..37	0.50	1.00	1.00	1.40	1.00	1.00
K..47	0.80	1.30	1.60	2.15	1.60	1.60
K..57	1.30	2.30	2.70	3.15	2.90	2.70
K..67	1.10	2.40	2.70	3.70	2.60	2.60
K..77	2.10	4.10	4.60	5.90	4.40	4.40
K..87	3.70	8.20	8.80	11.1	8.00	8.00
K..97	7.00	14.7	15.7	20.0	15.7	15.7
K..107	10.0	20.5	24.0	32.4	24.0	24.0

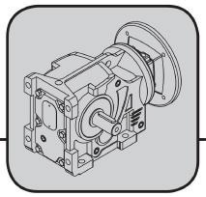
RECOMMENDATIONS



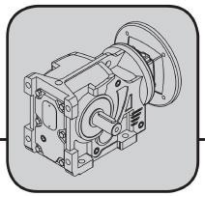
Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
0.12 (0.16HP)	3.90	252	359	9500	3.02			
	4.34	227	323	9500	3.35			
	5.12	192	273	9500	3.96			
	5.72	172	245	9500	4.42			
	6.30	156	222	9500	4.87			
	7.31	134	191	9500	5.65			
	1.55	635	903	7500	0.88			
	1.76	559	795	7500	1.00			
	2.00	492	700	7500	1.13			
	2.25	437	621	7500	1.24			
	2.52	390	556	7500	1.43			
	2.86	344	489	7500	1.62	KSF57 R37		36.9
	3.33	296	421	7500	1.88	KHF57 R37		35.2
	3.85	255	363	7500	2.18	KAF57 R37	63	34.5
	4.39	224	319	7500	2.48	KNF57 R37		40
	4.98	197	281	7500	2.82	KMF57 R37		38.1
	5.83	169	240	7500	3.30			
	6.45	153	217	7500	3.65			
	7.11	138	197	7500	4.02			
	8.39	117	167	7500	4.75			
	9.74	101	144	7500	5.51			
	2.50	394	552	5590	0.92			
	2.75	357	508	5590	1.00			
	3.07	321	456	5590	1.12			
	3.59	274	390	5590	1.31			
	3.98	247	351	5590	1.45	KSF47 R37		29.9
	4.84	203	289	5590	1.76	KHF47 R37		29.2
	5.71	172	245	5590	2.08	KAF47 R37	63	28.8
	6.27	157	223	5590	2.28	KNF47 R37		33.2
	6.94	142	202	5590	2.53	KMF47 R37		31.2
	7.98	123	175	5590	2.91			
	9.25	106	151	5590	3.37			
	10.91	90	128	5590	3.97			
	13.25	74	106	5590	4.83			
	14.58	67	96	5590	5.31			
	9.36	112	150	16880	7.39	KSF67		31.9
						KHF67		30.4
						KAF67	63	29.1
						KNF67		35.1
						KMF67		32.6
	9.34	112	150	9890	5.41	KSF57		27.9
						KHF57		26.2
						KAF57	63	25.5
						KNF57		30.9
						KMF57		28.9
	10.70	98	131	6940	4.12	KSF47		21
	11.99	87	117	6700	4.62	KHF47		20.2
	12.86	81	109	6560	4.96	KAF47	63	19.6
	14.45	72	97	6330	5.57	KNF47		23.8
						KMF47		22.3
	9.30	112	150	5880	1.79			
	10.37	101	135	5690	2.00			
	12.04	87	116	5450	2.32	KSF37		14.4
	13.18	79	106	5310	2.54	KHF37		13.8
	15.08	69	93	5100	2.91	KAF37	63	13.1
	16.73	62	84	4940	3.22	KNF37		15.5
	18.52	56	76	4790	3.57	KMF37		14.7
	20.65	51	68	4630	3.98			



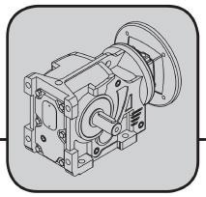
Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
0.12 (0.16HP)	23.46	45	60	4450	4.52			
	28.28	37	50	4200	5.45			
0.18 (0.25HP)	0.30	4769	4665	38063	0.81			
	0.35	4143	4053	38063	0.93			
	0.41	3496	3420	38063	1.11			
	0.43	3328	3239	38063	1.13			
	0.50	2837	2775	38063	1.36			
	0.57	2588	2457	38063	1.49	KSF97 R47		174.4
	0.67	2202	2078	38063	1.76	KHF97 R47		164.4
	0.76	1942	1843	38063	2.05	KAF97 R47	63	154.2
	0.85	1729	1640	38063	2.31	KNF97 R47		185.7
	0.95	1543	1471	38063	2.49	KMF97 R47		171.7
	1.15	1313	1219	38063	3.00			
	1.20	1228	1165	38063	3.25			
	1.34	1101	1044	38063	3.50			
	1.60	925	878	38063	4.31			
	1.82	812	770	38063	4.91			
	2.18	676	642	38063	5.90			
	0.51	2834	2772	23422	0.86			
	0.58	2474	2420	23422	0.98			
	0.63	2276	2226	23422	1.07			
	0.68	2157	2047	23422	1.16			
	0.78	1883	1787	23422	1.33			
	0.84	1756	1665	23422	0.99	KSF87 R47		115.8
	0.99	1492	1414	23422	1.17	KHF87 R47		105.6
	1.13	1301	1234	23422	1.93	KAF87 R47	63	101.6
	1.31	1127	1070	23422	2.22	KNF87 R47		123.8
	1.43	1031	978	23422	2.43	KMF87 R47		109.9
	1.73	853	811	23422	2.83			
	1.92	767	728	23422	3.27			
	2.13	693	657	23422	3.62			
	2.49	593	562	23422	4.23			
	2.87	514	488	23422	4.87			
	3.24	455	432	23422	5.50			
	0.90	1641	1557	13720	0.88			
	1.00	1473	1398	13720	0.98			
	1.12	1322	1254	13720	1.09			
	1.35	1097	1041	13720	1.31			
	1.53	965	916	13720	1.49			
	1.74	849	806	13720	1.69	KSF77 R37		67.2
	1.88	750	746	13720	1.77	KHF77 R37		63.1
	2.27	649	616	13720	2.22	KAF77 R37	63	63.2
	2.53	583	553	13720	2.47	KNF77 R37		75.1
	2.89	511	485	13720	2.81	KMF77 R37		70
	3.22	458	435	13720	3.14			
	3.80	388	369	13720	3.70			
	4.26	346	328	13720	4.15			
	4.75	310	294	13720	4.63			
	5.55	266	252	13720	5.41			
	1.55	949	901	9500	0.80			
	1.73	853	809	9500	0.89			
	2.03	728	691	9500	1.04			
	2.31	638	605	9500	1.19			
	2.58	573	544	9500	1.33			
	2.82	523	496	9500	1.45			
	3.15	468	444	9500	1.62	KSF67 R37		40.5
	3.56	415	394	9500	1.83	KHF67 R37		38.4
	3.90	378	359	9500	2.01	KAF67 R37	63	37.8



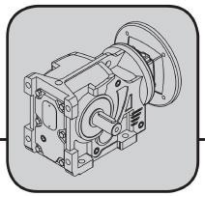
Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
0.18	4.34	340	323	9500	2.23	KNF67 R37		43.8
(0.25HP)	5.12	288	273	9500	2.64	KMF67 R37		41.2
	5.72	258	245	9500	2.95			
	6.30	234	222	9500	3.24			
	7.31	202	191	9500	3.77			
	8.51	173	165	9500	4.38			
	9.87	150	142	9500	5.08			
	11.33	130	124	9500	5.84			
	2.25	656	621	7500	0.82			
	2.52	585	556	7500	0.95			
	2.86	516	489	7500	1.08			
	3.33	444	421	7500	1.25			
	3.85	383	363	7500	1.45			
	4.39	336	319	7500	1.66	KSF57 R37		36.9
	4.98	296	281	7500	1.88	KHF57 R37		35.2
	5.83	253	240	7500	2.20	KAF57 R37	63	34.5
	6.45	229	217	7500	2.43	KNF57 R37		40
	7.11	207	197	7500	2.68	KMF57 R37		38.1
	8.39	176	167	7500	3.16			
	9.74	152	144	7500	3.67			
	10.96	135	128	7500	4.13			
	12.58	117	111	7500	4.74			
	14.98	99	93	7500	5.65			
	3.59	411	390	5590	0.87			
	3.98	370	351	5590	0.97			
	4.84	305	289	5590	1.17	KSF47 R37		29.9
	5.71	259	245	5590	1.39	KHF47 R37		29.2
	6.27	235	223	5590	1.52	KAF47 R37	63	28.8
	6.94	213	202	5590	1.68	KNF47 R37		33.2
	7.98	185	175	5590	1.94	KMF47 R37		31.2
	9.25	159	151	5590	2.25			
	10.91	135	128	5590	2.65			
	13.25	111	106	5590	3.22			
	14.58	101	96	5590	3.54			
	9.36	168	150	16300	4.93	KSF67		31.9
	10.72	146	131	15800	5.65	KHF67		30.4
						KAF67	63	29.1
						KNF67		35.1
						KMF67		32.6
	9.34	168	150	9630	3.61	KSF57		27.9
	10.70	147	131	9270	4.10	KHF57		26.2
	11.82	133	118	9010	4.56	KAF57	63	25.5
	12.93	121	108	8770	4.97	KNF57		30.9
	14.63	107	96	8460	5.64	KMF57		28.9
	10.70	147	131	6740	2.75			
	11.99	131	117	6530	3.08	KSF47		21
	12.86	122	109	6400	3.30	KHF47		20.2
	14.45	109	97	6190	3.71	KAF47	63	19.6
	16.11	97	87	6000	4.14	KNF47		23.8
	18.34	86	76	5780	4.71	KMF47		22.3
	19.51	80	72	5670	5.01			
	9.30	169	150	5660	1.20			
	10.37	151	135	5500	1.33			
	12.04	130	116	5280	1.55			
	13.18	119	106	5160	1.69			
	15.08	104	93	4970	1.94	KSF37		14.4
	16.73	94	84	4820	2.15	KHF37		13.8
	18.52	85	76	4680	2.38	KAF37	63	13.1



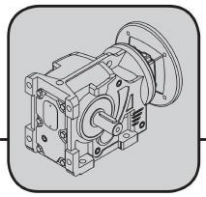
Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
0.18	20.65	76	68	4540	2.65	KNF37		15.5
(0.25HP)	23.46	67	60	4370	3.01	KMF37		14.7
	28.28	56	50	4130	3.63			
	31.49	50	44	4000	4.04			
	36.87	43	38	3810	4.74			
	43.49	36	32	3620	5.51			
0.25	0.25	8011	5642	59172	0.87			
(0.34HP)	0.28	7128	5020	59172	0.98			
	0.31	6358	4478	59172	1.09			
	0.36	5536	3899	59172	1.26			
	0.41	4859	3423	59172	1.43	KSF107 R77		298
	0.46	4334	3053	59172	1.60	KHF107 R77		264
	0.53	3740	2634	59172	1.86	KAF107 R77	71	245
	0.61	3254	2292	59172	2.14	KNF107 R77		288
	0.67	2956	2082	59172	2.35	KMF107 R77		261
	0.77	2648	1809	59172	2.71			
	0.87	2358	1611	59172	3.04			
	0.99	2070	1414	59172	3.46			
	1.17	1754	1198	59172	4.09			
	0.41	4855	3420	38063	0.80			
	0.43	4623	3239	38063	0.81			
	0.50	3940	2775	38063	0.98			
	0.57	3595	2457	38063	1.07			
	0.67	3059	2078	38063	1.27			
	0.76	2698	1843	38063	1.48	KSF97 R47		174.4
	0.85	2401	1640	38063	1.66	KHF97 R47		164.4
	0.95	2157	1471	38063	1.79	KAF97 R47	71	154.2
	1.15	1782	1219	38063	2.16	KNF97 R47		185.7
	1.20	1705	1165	38063	2.34	KMF97 R47		171.7
	1.34	1529	1044	38063	2.52			
	1.60	1284	878	38063	3.11			
	1.82	1128	770	38063	3.54			
	2.18	939	642	38063	4.25			
	2.42	847	579	38063	4.71			
	2.87	713	487	38063	5.59			
	0.68	2996	2047	23422	0.84			
	0.78	2615	1787	23422	0.96			
	0.84	2440	1665	23422	0.99			
	0.99	2072	1414	23422	1.17			
	1.13	1807	1234	23422	1.39			
	1.31	1566	1070	23422	1.60			
	1.43	1432	978	23422	1.75	KSF87 R47		115.8
	1.73	1185	811	23422	2.04	KHF87 R47		105.6
	1.92	1065	728	23422	2.35	KAF87 R47	71	101.6
	2.13	962	657	23422	2.60	KNF87 R47		123.8
	2.49	823	562	23422	3.04	KMF87 R47		109.9
	2.87	714	488	23422	3.51			
	3.24	632	432	23422	3.96			
	3.74	549	375	23422	4.57			
	4.23	484	331	23422	5.17			
	4.76	430	294	23422	5.82			
	1.35	1523	1041	13720	0.94			
	1.53	1340	916	13720	1.07			
	1.74	1180	806	13720	1.22			
	1.88	1041	746	13720	1.27			
	2.27	901	616	13720	1.59			
	2.53	809	553	13720	1.78	KSF77 R37		67.2
	2.89	710	485	13720	2.03	KHF77 R37		63.1



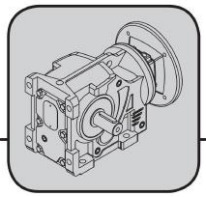
Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
0.25 (0.34HP)	3.22	636	435	13720	2.26	KAF77 R37	71	63.2
	3.80	540	369	13720	2.66	KNF77 R37		75.1
	4.26	481	328	13720	2.99	KMF77 R37		70
	4.75	431	294	13720	3.33			
	5.55	369	252	13720	3.89			
	6.19	331	226	13720	4.34			
	7.22	284	194	13720	5.06			
	7.98	257	175	13720	5.60			
	2.31	886	605	9500	0.86			
	2.58	796	544	9500	0.96			
	2.82	726	496	9500	1.05			
	3.15	650	444	9500	1.17			
	3.56	576	394	9500	1.32			
	3.90	525	359	9500	1.45	KSF67 R37		40.5
	4.34	472	323	9500	1.61	KHF67 R37		38.4
	5.12	400	273	9500	1.90	KAF67 R37	71	37.8
	5.72	358	245	9500	2.12	KNF67 R37		43.8
	6.30	325	222	9500	2.34	KMF67 R37		41.2
	7.31	280	191	9500	2.71			
	8.51	241	165	9500	3.16			
	9.87	208	142	9500	3.66			
	11.33	181	124	9500	4.20			
	3.33	616	421	7500	0.90			
	3.85	532	363	7500	1.05			
	4.39	467	319	7500	1.19			
	4.98	411	281	7500	1.35			
	5.83	351	240	7500	1.58	KSF57 R37		36.9
	6.45	318	217	7500	1.75	KHF57 R37		35.2
	7.11	288	197	7500	1.93	KAF57 R37	71	34.5
	8.39	244	167	7500	2.28	KNF57 R37		40
	9.74	210	144	7500	2.64	KMF57 R37		38.1
	10.96	187	128	7500	2.98			
	12.58	163	111	7500	3.42			
	14.98	137	93	7500	4.07			
	4.84	424	289	5590	0.85			
	5.71	359	245	5590	1.00			
	6.27	327	223	5590	1.10	KSF47 R37		29.9
	6.94	295	202	5590	1.21	KHF47 R37		29.2
	7.98	257	175	5590	1.39	KAF47 R37	71	28.8
	9.25	221	151	5590	1.62	KNF47 R37		33.2
	10.91	188	128	5590	1.91	KMF47 R37		31.2
	13.25	155	106	5590	2.32			
	14.58	141	96	5590	2.55			
	9.36	233	150	15630	3.55	KSF67		31.9
	10.72	203	131	15210	4.07	KHF67		30.4
	11.85	184	118	14900	4.49	KAF67	71	29.1
	12.96	168	108	14620	4.91	KNF67		35.1
	14.67	149	95	14220	5.38	KMF67		32.6
	16.65	131	84	13820	5.88			
	9.34	233	150	9340	2.60			
	10.70	204	131	9010	2.95	KSF57		27.9
	11.82	184	118	8770	3.28	KHF57		26.2
	12.93	169	108	8560	3.58	KAF57	71	25.5
	14.63	149	96	8270	4.06	KNF57		30.9
	16.61	131	84	7980	4.60	KMF57		28.9
	20.26	108	69	7540	5.61			
	21.50	101	65	7410	5.97			
	10.70	204	131	6510	1.98			



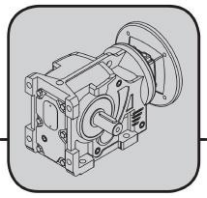
Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
0.25	11.99	182	117	6330	2.22			
(0.34HP)	12.86	169	109	6220	2.38			
	14.45	151	97	6030	2.67	KSF47		21
	16.11	135	87	5850	2.98	KHF47		20.2
	18.34	119	76	5650	3.39	KAF47	71	19.6
	19.51	112	72	5550	3.61	KNF47		23.8
	23.73	92	59	5280	4.39	KMF47		22.3
	26.27	83	53	5100	4.71			
	29.74	73	47	4940	5.28			
	33.85	64	41	4750	5.96			
	9.30	234	150	5660	0.86			
	10.37	210	135	5500	0.96			
	12.04	181	116	5280	1.11			
	13.18	165	106	5160	1.22			
	15.08	144	93	4970	1.39			
	16.73	130	84	4820	1.55	KSF37		14.4
	18.52	118	76	4680	1.71	KHF37		13.8
	20.65	106	68	4540	1.91	KAF37	71	13.1
	23.46	93	60	4370	2.17	KNF37		15.5
	28.28	77	50	4130	2.62	KMF37		14.7
	31.49	69	44	4000	2.91			
	36.87	59	38	3810	3.41			
	43.49	50	32	3620	3.97			
	53.04	41	26	3400	4.66			
	54.42	40	26	3350	4.71			
	60.61	36	23	3240	5.25			
0.37	0.36	8194	3899	59172	0.85			
(0.5HP)	0.41	7192	3423	59172	0.97			
	0.46	6415	3053	59172	1.08			
	0.53	5535	2634	59172	1.26	KSF107 R77		298
	0.61	4816	2292	59172	1.44	KHF107 R77		264
	0.67	4374	2082	59172	1.59	KAF107 R77	71	245
	0.77	3919	1809	59172	1.83	KNF107 R77		288
	0.87	3490	1611	59172	2.05	KMF107 R77		261
	0.99	3063	1414	59172	2.34			
	1.17	2596	1198	59172	2.76			
	1.41	2150	992	59172	3.33			
	1.78	1703	786	59172	4.21			
	0.67	4527	2078	38063	0.86			
	0.76	3992	1843	38063	1.00			
	0.85	3554	1640	38063	1.12			
	0.95	3192	1471	38063	1.21			
	1.15	2637	1219	38063	1.46			
	1.20	2523	1165	38063	1.58	KSF97 R47		174.4
	1.34	2263	1044	38063	1.70	KHF97 R47		164.4
	1.60	1901	878	38063	2.10	KAF97 R47	71	154.2
	1.82	1669	770	38063	2.39	KNF97 R47		185.7
	2.18	1390	642	38063	2.87	KMF97 R47		171.9
	2.42	1253	579	38063	3.18			
	2.87	1056	487	38063	3.78			
	3.68	823	380	38063	4.85			
	4.11	738	341	38063	5.41			
	4.56	665	307	38063	6.00			
	1.13	2674	1234	23422	0.94			
	1.31	2317	1070	23422	1.08			
	1.43	2119	978	23422	1.18			
	1.73	1753	811	23422	1.38			
	1.92	1576	728	23422	1.59	KSF87 R47		115.8



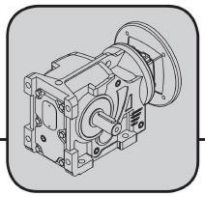
Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
0.37	2.13	1424	657	23422	1.76	KHF87 R47		105.6
(0.5HP)	2.49	1218	562	23422	2.06	KAF87 R47	71	101.6
	2.87	1057	488	23422	2.37	KNF87 R47		123.8
	3.24	936	432	23422	2.68	KMF87 R47		109.9
	3.74	812	375	23422	3.09			
	4.23	717	331	23422	3.49			
	4.76	637	294	23422	3.93			
	5.71	531	245	23422	4.71			
	6.14	494	228	23422	5.07			
	6.95	436	201	23422	5.74			
	1.74	1746	806	13720	0.82			
	1.88	1541	746	13720	0.86			
	2.27	1334	616	13720	1.08			
	2.53	1198	553	13720	1.20			
	2.89	1050	485	13720	1.37	KSF77 R37		67.2
	3.22	942	435	13720	1.53	KHF77 R37		63.7
	3.80	799	369	13720	1.80	KAF77 R37	71	64.2
	4.26	711	328	13720	2.02	KNF77 R37		75.1
	4.75	638	294	13720	2.25	KMF77 R37		70
	5.55	547	252	13720	2.63			
	6.19	490	226	13720	2.93			
	7.22	420	194	13720	3.42			
	7.98	380	175	13720	3.78			
	9.21	329	152	13720	4.36			
	3.56	853	394	9500	0.89			
	3.90	777	359	9500	0.98			
	4.34	699	323	9500	1.09	KSF67 R37		40.4
	5.12	592	273	9500	1.28	KHF67 R37		38.4
	5.72	530	245	9500	1.43	KAF67 R37	71	37.8
	6.30	482	222	9500	1.58	KNF67 R37		43.8
	7.31	415	191	9500	1.83	KMF67 R37		41.2
	8.51	356	165	9500	2.13			
	9.87	307	142	9500	2.47			
	11.33	268	124	9500	2.84			
	4.39	691	319	7500	0.81			
	4.98	609	281	7500	0.91			
	5.83	520	240	7500	1.07	KSF57 R37		36.9
	6.45	470	217	7500	1.18	KHF57 R37		35.2
	7.11	426	197	7500	1.31	KAF57 R37	71	34.5
	8.39	361	167	7500	1.54	KNF57 R37		40
	9.74	311	144	7500	1.79	KMF57 R37		38.1
	10.96	277	128	7500	2.01			
	12.58	241	111	7500	2.31			
	14.98	203	93	7500	2.75			
	6.94	437	202	5590	0.82	KSF47 R37		29.9
	7.98	380	175	5590	0.94	KHF47 R37		29.2
	9.25	328	151	5590	1.09	KAF47 R37	71	28.8
	10.91	278	128	5590	1.29	KNF47 R37		33.2
	13.25	229	106	5590	1.57	KMF47 R37		31.2
	14.58	208	96	5590	1.72			
	9.36	344	150	14470	2.40			
	10.72	301	131	14200	2.75			
	11.85	272	118	13990	3.04	KSF67		31.9
	12.96	249	108	13780	3.32	KHF67		30.4
	14.67	220	95	13490	3.63	KAF67	71	29.1
	16.65	194	84	13170	3.97	KNF67		35.1
	20.31	159	69	12650	4.57	KMF67		32.6
	21.55	150	65	12490	4.76			



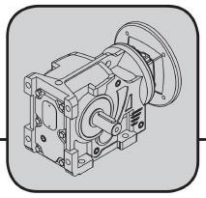
Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
0.37	24.96	129	56	12100	5.27			
(0.5HP)	9.34	345	150	8800	1.75			
	10.70	301	131	8550	2.00			
	11.82	273	118	8360	2.22			
	12.93	249	108	8190	2.42	KSF57		27.9
	14.63	220	96	7950	2.74	KHF57		26.2
	16.61	194	84	7700	3.10	KAF57	71	25.5
	20.26	159	69	7310	3.79	KNF57		30.9
	21.50	150	65	7190	4.03	KMF57		28.9
	24.90	129	56	6910	4.68			
	29.57	109	47	6690	5.54			
	31.51	102	44	6460	5.71			
	10.70	301	131	6090	1.32			
	11.99	269	117	5960	1.48			
	12.86	251	109	5870	1.59			
	14.45	223	97	5730	1.78			
	16.11	200	87	5590	1.99			
	18.34	176	76	5420	2.26	KSF47		21
	19.51	165	72	5340	2.41	KHF47		20.2
	23.73	136	59	5110	2.93	KAF47	71	19.6
	26.27	123	53	4940	3.14	KNF47		23.8
	29.74	108	47	4810	3.52	KMF47		22.3
	33.85	95	41	4640	3.97			
	36.00	90	39	4560	4.14			
	44.66	72	31	4260	4.83			
	48.48	67	29	4180	5.05			
	53.24	61	26	4050	5.53			
	56.62	57	25	3970	5.86			
	16.73	193	84	4430	1.05			
	18.52	174	76	4330	1.16			
	20.65	156	68	4220	1.29			
	23.46	137	60	4100	1.47			
	28.28	114	50	3910	1.77			
	31.49	102	44	3800	1.97	KHF37		14.5
	36.87	87	38	3650	2.30	KHF37		13.8
	43.49	74	32	3480	2.68	KAF37	71	3.1
	53.04	61	26	3290	3.15	KNF37		15.5
	54.42	59	26	3220	3.19	KMF37		14.7
	60.61	53	23	3120	3.55			
	70.95	45	20	2980	4.13			
	83.69	39	17	2840	4.84			
	91.41	35	15	2800	5.06			
	107.02	30	13	2670	5.93			
0.55	0.61	7159	2292	59172	0.97			
(0.74HP)	0.67	6502	2082	59172	1.07			
	0.77	5825	1809	59172	1.23			
	0.87	5188	1611	59172	1.38	KSF107 R77		298
	0.99	4554	1414	59172	1.57	KHF107 R77		264
	1.17	3859	1198	59172	1.86	KAF107 R77	80	245
	1.41	3196	992	59172	2.24	KNF107 R77		288
	1.78	2531	786	59172	2.83	KMF107 R77		261
	2.04	2205	685	59172	3.25			
	2.31	1949	605	59172	3.68			
	2.67	1689	524	59172	4.24			
	0.95	4746	1471	38063	0.81			
	1.15	3920	1219	38063	0.98			
	1.20	3751	1165	38063	1.06			
	1.34	3364	1044	38063	1.14			



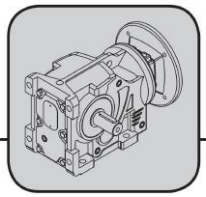
Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
0.55	1.60	2826	878	38063	1.41	KSF97 R47		174.4
(0.74HP)	1.82	2481	770	38063	1.61	KHF97 R47		164.4
	2.18	2066	642	38063	1.93	KAF97 R47	80	154.2
	2.42	1863	579	38063	2.14	KNF97 R47		185.7
	2.87	1569	487	38063	2.54	KMF97 R47		171.9
	3.68	1224	380	38063	3.26			
	4.11	1097	341	38063	3.64			
	4.56	989	307	38063	4.03			
	5.41	833	259	38063	4.79			
	6.12	737	229	38063	5.41			
	1.43	3150	978	23422	0.80			
	1.73	2606	811	23422	0.93			
	1.92	2343	728	23422	1.07			
	2.13	2117	657	23422	1.18			
	2.49	1811	562	23422	1.38			
	2.87	1572	488	23422	1.59			
	3.24	1391	432	23422	1.80	KSF87 R47		115.8
	3.74	1207	375	23422	2.08	KHF87 R47		105.6
	4.23	1066	331	23422	2.35	KAF87 R47	80	101.6
	4.76	947	294	23422	2.65	KNF87 R47		123.8
	5.71	790	245	23422	3.17	KMF87 R47		109.9
	6.14	734	228	23422	3.41			
	6.95	649	201	23422	3.86			
	7.75	582	181	23422	4.30			
	8.85	509	158	23422	4.92			
	9.87	457	142	23422	5.48			
	2.53	1780	553	13720	0.81			
	2.89	1561	485	13720	0.92			
	3.22	1400	435	13720	1.03			
	3.80	1187	369	13720	1.21	KSF77 R37		67.2
	4.26	1057	328	13720	1.36	KHF77 R37		63.7
	4.75	948	294	13720	1.52	KAF77 R37	80	64.2
	5.55	812	252	13720	1.77	KNF77 R37		75.1
	6.19	728	226	13720	1.97	KMF77 R37		70
	7.22	625	194	13720	2.30			
	7.98	565	175	13720	2.55			
	9.21	490	152	13720	2.94			
	5.12	880	273	9500	0.86			
	5.72	788	245	9500	0.96	KSF67 R37		40.4
	6.30	716	222	9500	1.06	KHF67 R37		38.4
	7.31	616	191	9500	1.23	KAF67 R37	80	37.8
	8.51	530	165	9500	1.43	KNF67 R37		43.8
	9.87	457	142	9500	1.66	KMF67 R37		41.2
	11.33	398	124	9500	1.91			
	6.45	880	217	7500	0.80			
	7.11	788	197	7500	0.88	KSF57 R37		36.9
	8.39	716	167	7500	1.04	KHF57 R37		35.2
	9.74	616	144	7500	1.20	KAF57 R37	80	34.5
	10.96	530	128	7500	1.35	KNF57 R37		40
	12.58	457	111	7500	1.55	KMF57 R37		38.1
	14.98	398	93	7500	1.85			
	10.91	413	128	5590	0.87	KSF47 R37		29.9
	13.25	340	106	5590	1.05	KHF47 R37		29.2
	14.58	309	96	5590	1.16	KAF47 R37	80	28.8
						KNF47 R37		33.2
						KMF47 R37		31.2
	9.36	512	150	12750	1.61			
	10.72	447	131	12700	1.85			

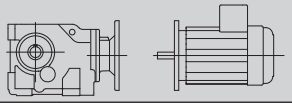


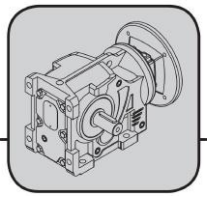
Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
0.55	11.85	404	118	12620	2.04			
(0.74HP)	12.96	370	108	12540	2.23			
	14.67	327	95	12380	2.44			
	16.65	288	84	12200	2.67	KSF67		31.9
	20.31	236	69	11860	3.07	KHF67		30.4
	21.55	222	65	11740	3.20	KAF67	80	29.1
	24.96	192	56	11450	3.55	KNF67		35.1
	30.22	159	46	11010	4.36	KMF67		32.6
	31.59	152	44	10950	4.18			
	36.86	130	38	10580	5.02			
	39.11	123	36	10450	5.23			
	42.09	114	33	10310	5.12			
	45.31	106	31	10120	5.80			
	51.34	93	27	9860	5.88			
	9.34	513	150	7940	1.18			
	10.70	448	131	7820	1.34			
	11.82	405	118	7700	1.49			
	12.93	371	108	7590	1.63			
	14.63	328	96	7430	1.84			
	16.61	289	84	7250	2.09			
	20.26	237	69	6940	2.55	KSF57		27.9
	21.50	223	65	6850	2.71	KHF57		26.2
	24.90	192	56	6620	3.15	KAF57	80	25.5
	29.57	162	47	6500	3.73	KNF57		30.9
	31.51	152	44	6240	3.84	KMF57		28.9
	33.56	143	42	6280	4.07			
	40.94	117	34	5930	4.95			
	43.45	110	32	5830	5.22			
	50.33	95	28	5590	5.29			
	54.35	88	26	5380	5.37			
	62.95	76	22	5150	5.88			
	10.70	448	131	5400	0.90			
	11.99	400	117	5350	1.01			
	12.86	373	109	5320	1.08			
	14.45	332	97	5240	1.21			
	16.11	297	87	5160	1.35			
	18.34	261	76	5050	1.54			
	19.51	246	72	4990	1.64			
	23.73	202	59	4840	2.00	KSF47		21
	26.27	182	53	4690	2.14	KHF47		20.2
	29.74	161	47	4600	2.40	KAF47	80	19.6
	33.85	142	41	4460	2.71	KNF47		23.8
	36.00	133	39	4390	2.82	KMF47		22.3
	44.66	107	31	4120	3.29			
	48.48	99	29	4060	3.44			
	53.24	90	26	3930	3.77			
	56.62	85	25	3870	3.99			
	67.81	71	21	3700	4.31			
	76.26	63	18	3550	4.82			
	82.41	58	17	3490	4.91			
	20.65	232	68	3890	0.87			
	23.46	204	60	3810	0.99			
	28.28	169	50	3680	1.19			
	31.49	152	44	3600	1.32			
	36.87	130	38	3480	1.55	KSF37		14.5
	43.49	110	32	3340	1.80	KHF37		13.8
	53.04	90	26	3180	2.12	KAF37	80	13.1
	54.42	88	26	3080	2.14	KNF37		15.5



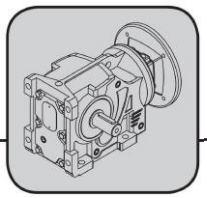
Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
0.55	60.61	79	23	3000	2.39	KMF37		14.7
(0.74HP)	70.95	68	20	2880	2.78			
	83.69	57	17	2760	3.26			
	91.41	52	15	2740	3.40			
	107.02	45	13	2620	3.99			
	126.23	38	11	2490	4.69			
	153.95	31	9	2350	5.71			
0.75	0.77	7943	1809	59172	0.90			
(1HP)	0.87	7075	1611	59172	1.01			
	0.99	6209	1414	59172	1.15			
	1.17	5262	1198	59172	1.36	KSF107 R77		300
	1.41	4358	992	59172	1.64	KHF107 R77		266
	1.78	3452	786	59172	2.08	KAF107 R77	80	247
	2.04	3007	685	59172	2.38	KNF107 R77		290
	2.31	2657	605	59172	2.70	KMF107 R77		263
	2.67	2303	524	59172	3.11			
	3.06	2010	458	59172	3.56			
	3.56	1728	393	59172	4.15			
	1.34	4588	1044	38063	0.84			
	1.60	3853	878	38063	1.04			
	1.82	3383	770	38063	1.18			
	2.18	2818	642	38063	1.42	KSF97 R47		176.2
	2.42	2541	579	38063	1.57	KHF97 R47		166.2
	2.87	2140	487	38063	1.86	KAF97 R47	80	155.9
	3.68	1669	380	38063	2.39	KNF97 R47		187.5
	4.11	1496	341	38063	2.67	KMF97 R47		173.7
	4.56	1349	307	38063	2.96			
	5.41	1136	259	38063	3.51			
	6.12	1005	229	38063	3.97			
	6.82	901	205	38063	4.43			
	2.13	2886	657	23422	0.87			
	2.49	2470	562	23422	1.01			
	2.87	2143	488	23422	1.17			
	3.24	1897	432	23422	1.32			
	3.74	1646	375	23422	1.52	KSF87 R47		117.6
	4.23	1453	331	23422	1.72	KHF87 R47		107.4
	4.76	1291	294	23422	1.94	KAF87 R47	80	104.7
	5.71	1077	245	23422	2.33	KNF87 R47		126.9
	6.14	1001	228	23422	2.50	KMF87 R47		112.5
	6.95	885	201	23422	2.83			
	7.75	794	181	23422	3.16			
	8.85	694	158	23422	3.61			
	9.87	623	142	23422	4.02			
	3.80	1619	369	13720	0.89			
	4.26	1442	328	13720	1.00	KSF77 R37		68.9
	4.75	1293	294	13720	1.11	KHF77 R37		64.4
	5.55	1108	252	13720	1.30	KAF77 R37	80	65.2
	6.19	993	226	13720	1.45	KNF77 R37		76.9
	7.22	852	194	13720	1.69	KMF77 R37		71.7
	7.98	770	175	13720	1.87			
	9.21	668	152	13720	2.15			
	7.31	841	191	9500	0.90	KSF67 R37		42.2
	8.51	722	165	9500	1.05	KHF67 R37		40
	9.87	623	142	9500	1.22	KAF67 R37	80	39.1
	11.33	543	124	9500	1.40	KNF67 R37		45.5
						KMF67 R37		42.9
	9.74	631	144	7500	0.88	KSF57 R37		38.6
	10.96	561	128	7500	0.99	KHF57 R37		35.9



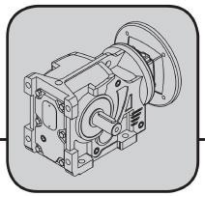
Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]	
0.75	12.58	489	111	7500	1.14	KAF57 R37	80	36.2	
(1HP)	14.98	410	93	7500	1.36	KNF57 R37		41.7	
						KMF57 R37		39.7	
	14.58	422	96	5590	0.85	KSF47 R37	80	31.5	
						KHF47 R37		30.9	
						KNF47 R37		30.5	
						KNF47 R37		34.9	
						KMF47 R37		32.9	
	6.53	1001	215	33240	1.60		80		
	7.35	889	190	32520	1.60	KSF87		98.1	
	7.76	842	180	32180	1.60	KHF87		91.2	
	9.24	708	152	31080	1.60	KAF87		87	
	10.83	603	129	30040	4.51	KNF87		104	
	11.91	549	118	29410	4.96	KMF87		95.3	▲
	12.96	504	108	28850	5.39				▲
	7.20	907	194	18530	1.60		80		
	7.77	841	180	18480	1.60				
	8.71	750	161	18360	1.60				
	9.71	673	144	18190	1.60	KSF77		59.9	
	11.39	574	123	17890	1.60	KHF77		55.7	
	12.81	510	109	17610	1.60	KAF77		56.6	
	13.91	470	101	17410	3.32	KNF77		67.2	
	15.54	420	90	17110	3.71	KMF77		63	
	17.93	364	78	16700	4.28				
	21.85	299	64	16090	5.22				▲
	24.54	266	57	15720	5.86				▲
	9.36	698	150	10820	1.18				
	10.72	609	131	11020	1.36				
	11.85	551	118	11110	1.50				
	12.96	504	108	11150	1.64				
	14.67	446	95	11160	1.79				
	16.65	393	84	11120	1.96				
	20.31	322	69	10970	2.25				
	21.55	303	65	10910	2.35	KSF67		33.6	
	24.96	262	56	10730	2.60	KHF67		31	
	30.22	216	46	10400	3.20	KAF67	80	30.6	
	31.59	207	44	10380	3.07	KNF67		36.6	
	36.86	177	38	10080	3.68	KMF67		34.1	
	39.11	167	36	9980	3.84				
	42.09	155	33	9880	3.75				
	45.31	144	31	9710	4.25				
	51.34	127	27	9500	4.31				
	54.48	120	26	9390	4.49				
	57.33	114	24	9260	5.01				
	63.11	104	22	9100	4.98				
	79.86	82	18	8630	5.87				
	11.82	553	118	6930	1.09				
	12.93	505	108	6890	1.19				
	14.63	447	96	6820	1.35				
	16.61	394	84	6720	1.53				
	20.26	323	69	6520	1.87				
	21.50	304	65	6460	1.99	KSF57		30.2	
	24.90	262	56	6280	2.31	KHF57		28.6	
	29.57	221	47	6270	2.74	KAF57	80	27.5	
	31.51	207	44	5980	2.81	KNF57		32.9	
	33.56	195	42	6080	2.98	KMF57		30.9	
	40.94	160	34	5780	3.63				
	43.45	150	32	5690	3.83				



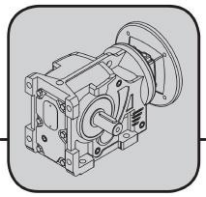
Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
0.75	50.33	130	28	5460	3.88			
(1HP)	54.35	120	26	5230	3.93			
	62.95	104	22	5030	4.31			
	79.66	82	18	4710	4.98			
	16.11	406	87	4640	0.99			
	18.34	356	76	4600	1.13			
	19.51	335	72	4580	1.20			
	23.73	275	59	4520	1.46			
	26.27	249	53	4400	1.57			
	29.74	220	47	4360	1.76			
	33.85	193	41	4250	1.99	KSF47		22.8
	36.00	182	39	4190	2.07	KHF47		21.9
	44.66	146	31	3960	2.41	KAF47	80	21.3
	48.48	135	29	3920	2.53	KNF47		25.5
	53.24	123	26	3800	2.77	KMF47		24
	56.62	115	25	3740	2.93			
	67.81	96	21	3600	3.16			
	76.26	86	18	3460	3.53			
	82.41	79	17	3410	3.60			
	106.66	61	13	3160	4.52			
	129.63	50	11	2990	5.11			
	140.74	46	10	2930	5.14			
	36.87	177	38	3280	1.14			
	43.49	150	32	3180	1.32			
	53.04	123	26	3050	1.55			
	54.42	120	26	2920	1.57			
	60.61	108	23	2860	1.75	KSF37		16.2
	70.95	92	20	2760	2.04	KHF37		15.6
	83.69	78	17	2660	2.39	KAF37	80	14.9
	91.41	72	15	2670	2.50	KNF37		17.3
	107.02	61	13	2560	2.92	KMF37		16.4
	126.23	52	11	2440	3.44			
	153.95	42	9	2310	4.19			
	175.93	37	8	2190	4.78			
	205.96	32	7	2090	5.31			
	242.95	27	6	1990	5.92			
1.1	1.17	7717	1198	59172	0.93			
(1.5HP)	1.41	6391	992	59172	1.12			
	1.78	5062	786	59172	1.42			
	2.04	4410	685	59172	1.62	KSF107 R77		300
	2.31	3898	605	59172	1.84	KHF107 R77		266
	2.67	3378	524	59172	2.12	KAF107 R77	90	247
	3.06	2948	458	59172	2.43	KNF107 R77		290
	3.56	2534	393	59172	2.83	KMF107 R77		263
	3.90	2310	359	59172	3.10			
	4.42	2040	317	59172	3.51			
	5.07	1777	276	59172	4.03			
	1.82	4962	770	38063	0.80			
	2.18	4133	642	38063	0.97			
	2.42	3726	579	38063	1.07	KSF97 R47		176.2
	2.87	3138	487	38063	1.27	KHF97 R47		166.2
	3.68	2447	380	38063	1.63	KAF97 R47	90	155.9
	4.11	2194	341	38063	1.82	KNF97 R47		187.5
	4.56	1978	307	38063	2.02	KMF97 R47		173.7
	5.41	1667	259	38063	2.39			
	6.12	1474	229	38063	2.71			
	6.82	1322	205	38063	3.02			
	2.87	3143	488	23422	0.80			



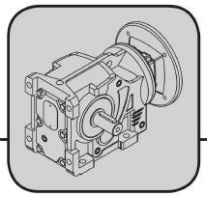
Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]	
1.1	3.24	2782	432	23422	0.90				
(1.5HP)	3.74	2414	375	23422	1.04				
	4.23	2131	331	23422	1.18	KSF87 R47		117.6	
	4.76	1893	294	23422	1.32	KHF87 R47		107.4	
	5.71	1580	245	23422	1.59	KAF87 R47	90	104.7	
	6.14	1469	228	23422	1.71	KNF87 R47		126.9	
	6.95	1298	201	23422	1.93	KMF87 R47		112.5	
	7.75	1164	181	23422	2.15				
	8.85	1018	158	23422	2.46				
	9.87	914	142	23422	2.74				
	5.55	1625	252	13720	0.88	KSF77 R37		68.9	
	6.19	1457	226	13720	0.99	KHF77 R37		64.4	
	7.22	1249	194	13720	1.15	KAF77 R37	90	65.2	
	7.98	1130	175	13720	1.27	KNF77 R37		76.9	
	9.21	979	152	13720	1.47	KMF77 R37		71.7	
	9.87	914	142	9500	0.83	KSF67 R37		42.2	
	11.33	796	124	9500	0.95	KHF67 R37		40	
						KAF67 R37	90	39.1	
						KNF67 R37		45.5	
						KMF67 R37		42.9	
	14.98	602	93	7500	0.92	KSF57 R37		38.6	
						KHF57 R37		35.9	
						KAF57 R37	90	36.2	
						KNF57 R37		41.7	
						KMF57 R37		39.7	
	6.53	1468	215	30530	1.10				
	7.35	1303	190	30120	1.10				
	7.76	1234	180	29910	1.10	KSF87		98.1	
	9.24	1038	152	29170	1.10	KHF87		91.2	
	10.83	885	129	28410	3.07	KAF87	90	87	
	11.91	805	118	27930	3.38	KNF87		104	▲
	12.96	739	108	27490	3.68	KMF87		95.3	▲
	14.92	642	94	26740	4.23				▲
	16.90	567	83	26060	4.73				▲
	19.35	495	72	25300	5.28				▲
	7.20	1330	194	15150	1.10				
	7.77	1233	180	15350	1.10				
	8.71	1100	161	15560	1.10				
	9.71	987	144	15690	1.10				
	11.39	842	123	15750	1.10	KSF77		59.9	
	12.81	748	109	15710	1.10	KHF77		55.7	
	13.91	689	101	15660	2.27	KAF77	90	56.6	
	15.54	617	90	15540	2.53	KNF77		67.2	
	17.93	534	78	15340	2.92	KMF77		63	
	21.85	439	64	14970	3.56				▲
	24.54	391	57	14730	4.00				▲
	27.36	350	51	14470	4.46				▲
	29.71	323	47	14270	4.84				▲
	35.21	272	40	13840	5.53				▲
	9.36	1024	150	1820	0.81				
	10.72	894	131	6440	0.92				
	11.85	809	118	8450	1.02				
	12.96	739	108	8720	1.12				
	14.67	653	95	9010	1.22				
	16.65	576	84	9230	1.34				
	20.31	472	69	9420	1.54				
	21.55	445	65	9450	1.60				
	24.96	384	56	9470	1.77	KSF67		33.6	



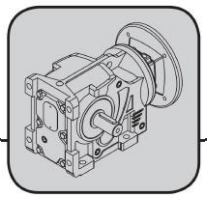
Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
1.1	30.22	317	46	9340	2.18	KHF67		31
(1.5HP)	31.59	303	44	9380	2.09	KAF67	90	30.6
	36.86	260	38	9200	2.51	KNF67		36.6
	39.11	245	36	9150	2.62	KMF67		34.1
	42.09	228	33	9130	2.56			
	45.31	212	31	9000	2.90			
	51.34	187	27	8890	2.94			
	54.48	176	26	8810	3.06			
	57.33	167	24	8700	3.42			
	63.11	152	22	8600	3.39			
	79.86	120	18	8240	4.00			
	98.89	97	14	7860	5.01			
	114.55	84	12	7620	5.55			
	12.93	741	108	5520	0.81			
	14.63	655	96	5640	0.92			
	16.61	577	84	5710	1.04			
	20.26	473	69	5720	1.27			
	21.50	446	65	5710	1.36			
	24.90	385	56	5650	1.57			
	29.57	324	47	5830	1.87	KSF57		30.2
	31.51	304	44	5490	1.92	KHF57		28.6
	33.56	286	42	5700	2.03	KAF57	90	27.5
	40.94	234	34	5480	2.48	KNF57		32.9
	43.45	221	32	5410	2.61	KMF57		30.9
	50.33	190	28	5230	2.64			
	54.35	176	26	4970	2.68			
	62.95	152	22	4800	2.94			
	79.66	120	18	4540	3.40			
	109.84	87	13	4260	4.58			
	127.24	75	11	4080	5.15			
	19.51	491	72	3760	0.82			
	23.73	404	59	3870	1.00			
	26.27	365	53	3830	1.07			
	29.74	322	47	3860	1.20			
	33.85	283	41	3830	1.36			
	36.00	266	39	3810	1.41			
	44.66	215	31	3660	1.65	KSF47		22.8
	48.48	198	29	3650	1.72	KHF47		21.9
	53.24	180	26	3550	1.89	KAF47	90	21.3
	56.62	169	25	3510	2.00	KNF47		25.5
	67.81	141	21	3420	2.15	KMF47		24
	76.26	126	18	3300	2.41			
	82.41	116	17	3270	2.45			
	106.66	90	13	3040	3.08			
	129.63	74	11	2890	3.48			
	140.74	68	10	2850	3.50			
	196.83	49	7	2590	4.38			
	239.23	40	6	2450	4.99			
	43.49	220	32	2840	0.90			
	53.04	181	26	2790	1.06			
	54.42	176	26	2590	1.07			
	60.61	158	23	2570	1.19			
	70.95	135	20	2530	1.39	KSF37		16.2
	83.69	115	17	2460	1.63	KHF37		15.6
	91.41	105	15	2530	1.70	KAF37	90	14.9
	107.02	90	13	2440	1.99	KNF37		17.3
	126.23	76	11	2350	2.35	KMF37		16.4
	153.95	62	9	2230	2.86			



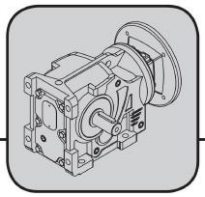
Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
1.1	175.93	55	8	2100	3.26			
(1.5HP)	205.96	47	7	2020	3.62			
	242.95	39	6	1930	4.04			
	296.30	32	5	1830	4.61			
1.5	1.41	8715	992	59172	0.82			
(2HP)	1.78	6903	786	59172	1.04			
	2.04	6014	685	59172	1.19			
	2.31	5315	605	59172	1.35			
	2.67	4606	524	59172	1.56	KSF107 R77		300
	3.06	4020	458	59172	1.78	KHF107 R77		266
	3.56	3455	393	59172	2.07	KAF107 R77	90	247
	3.90	3151	359	59172	2.27	KNF107 R77		290
	4.42	2782	317	59172	2.58	KMF107 R77		263
	5.07	2424	276	59172	2.96			
	5.61	2190	249	59172	3.27			
	6.47	1901	216	59172	3.77			
	7.26	1693	193	59172	4.23			
	2.87	4279	487	38063	0.93			
	3.68	3337	380	38063	1.20	KSF97 R47		176.2
	4.11	2992	341	38063	1.33	KHF97 R47		166.2
	4.56	2697	307	38063	1.48	KAF97 R47	90	155.9
	5.41	2273	259	38063	1.76	KNF97 R47		187.5
	6.12	2010	229	38063	1.98	KMF97 R47		173.7
	6.82	1802	205	38063	2.21			
	4.23	2906	331	23422	0.86			
	4.76	2582	294	23422	0.97	KSF87 R47		117.6
	5.71	2154	245	23422	1.16	KHF87 R47		107.4
	6.14	2003	228	23422	1.25	KAF87 R47		104.7
	6.95	1769	201	23422	1.42	KNF87 R47	90	126.9
	7.75	1587	181	23422	1.58	KMF87 R47		112.5
	8.85	1389	158	23422	1.80			
	9.87	1246	142	23422	2.01			
	7.22	1703	194	13720	0.84	KSF77 R37		68.9
	7.98	1540	175	13720	0.93	KHF77 R37		64.4
	9.21	1335	152	13720	1.08	KAF77 R37	90	65.8
						KNF77 R37		76.9
						KMF77 R37		71.8
	10.83	1206	129	26550	2.25			
	11.91	1097	118	26240	2.48			
	12.96	1008	108	25930	2.70	KSF87		98.1
	14.92	876	94	25390	3.10	KHF87		91.2
	16.90	773	83	24860	3.47	KAF87	90	87.1
	19.35	675	72	24260	3.87	KNF87		104
	22.80	573	61	23500	4.42	KMF87		95.4
	26.11	501	54	22850	4.94			
	27.75	471	50	22560	5.19			
	32.32	404	43	21810	5.87			
	13.91	940	101	13660	1.66			
	15.54	841	90	13750	1.86			
	17.93	729	78	13790	2.14			
	21.85	598	64	13700	2.61	KSF77		59.9
	24.54	533	57	13590	2.93	KHF77		55.8
	27.36	478	51	13460	3.27	KAF77	90	56.7
	29.71	440	47	13340	3.55	KNF77		67.7
	35.21	371	40	13050	4.06	KMF77		63.1
	45.93	285	30	12330	4.60			
	51.21	255	27	12110	5.14			
	55.61	235	25	11930	5.52			



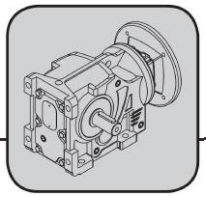
Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
1.5	20.31	644	69	7650	1.13			
(2HP)	21.55	606	65	7780	1.17			
	24.96	524	56	8030	1.30			
	30.22	433	46	8120	1.60			
	31.59	414	44	8250	1.53			
	36.86	355	38	8210	1.84			
	39.11	334	36	8210	1.92	KSF67		33.7
	42.09	311	33	8280	1.88	KHF67		31.1
	45.31	288	31	8190	2.13	KAF67	90	30.7
	51.34	255	27	8190	2.16	KNF67		36.7
	54.48	240	26	8150	2.25	KMF67		34.2
	57.33	228	24	8060	2.51			
	63.11	207	22	8030	2.49			
	79.86	164	18	7780	2.93			
	98.89	132	14	7490	3.67			
	114.55	114	12	7300	4.07			
	144.95	90	10	6970	4.80			
	21.50	608	65	4770	0.99			
	24.90	525	56	4860	1.15			
	29.57	442	47	5270	1.37			
	31.51	415	44	4900	1.41			
	33.56	389	42	5220	1.49	KSF57		30.2
	40.94	319	34	5100	1.82	KHF57		28.6
	43.45	301	32	5060	1.91	KAF57	90	27.5
	50.33	260	28	4940	1.94	KNF57		32.9
	54.35	240	26	4650	1.97	KMF57		30.9
	62.95	208	22	4530	2.15			
	79.66	164	18	4330	2.49			
	109.84	119	13	4140	3.36			
	127.24	103	11	3980	3.78			
	161.01	81	9	3730	4.59			
	33.85	386	41	3280	0.99			
	36.00	363	39	3300	1.04			
	44.66	293	31	3280	1.21			
	48.48	270	29	3300	1.26			
	53.24	245	26	3240	1.38	KSF47		22.8
	56.62	231	25	3230	1.46	KHF47		21.9
	67.81	193	21	3190	1.58	KAF47	90	21.3
	76.26	171	18	3100	1.77	KNF47		25.5
	82.41	159	17	3090	1.80	KMF47		24
	106.66	123	13	2910	2.26			
	129.63	101	11	2780	2.55			
	140.74	93	10	2750	2.57			
	196.83	66	7	2530	3.21			
	239.23	55	6	2400	3.66			
	70.95	184	20	2250	1.02			
	83.69	156	17	2240	1.19			
	91.41	143	15	2370	1.25	KSF37		16.3
	107.02	122	13	2310	1.46	KHF37		15.6
	126.23	104	11	2240	1.72	KAF37	90	14.9
	153.95	85	9	2140	2.09	KNF37		17.3
	175.93	74	8	2010	2.39	KMF37		16.5
	205.96	63	7	1940	2.65			
	242.95	54	6	1870	2.96			
	296.30	44	5	1780	3.38			
2.2	2.31	7795	605	59172	0.92			
(3HP)	2.67	6756	524	59172	1.06			
	3.06	5897	458	59172	1.22			



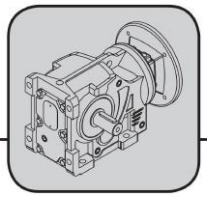
Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]	
2.2	3.56	5068	393	59172	1.41				
(3HP)	3.90	4621	359	59172	1.55	KSF107 R77		307	
	4.42	4080	317	59172	1.76	KHF107 R77		273	
	5.07	3555	276	59172	2.02	KAF107 R77	100	254	
	5.61	3212	249	59172	2.23	KNF107 R77		297	
	6.47	2788	216	59172	2.57	KMF107 R77		270	
	7.26	2483	193	59172	2.89				
	8.10	2227	173	59172	3.22				
	9.00	2005	156	59172	3.57				
	9.87	1828	142	59172	3.92				
	3.68	4894	380	38063	0.82	KSF97R47		179.2	
	4.11	4388	341	38063	0.91	KHF97R47		168.7	
	4.56	3956	307	38063	1.01	KAF97R47	100	159.2	
	5.41	3333	259	38063	1.20	KNF97R47		190.4	
	6.12	2948	229	38063	1.35	KMF97R47		176.7	
	6.82	2643	205	38063	1.51				
	6.14	2937	228	23422	0.85	KSF87R47		117.6	
	6.95	2595	201	23422	0.97	KHF87R47		107.4	
	7.75	2328	181	23422	1.08	KAF87R47	100	104.7	
	8.85	2037	158	23422	1.23	KNF87R47		126.9	
	9.87	1827	142	23422	1.37	KMF87R47		112.5	
	9.75	1951	144	74590	4.10	KSF107		276	
						KHF107		243	
						KAF107	100	223	
						KNF107		266	
						KMF107		239	
	8.01	2392	175	47170	1.81				
	9.08	2110	154	46350	2.05				
	9.95	1926	141	45710	2.25				
	11.68	1641	120	44490	2.64				▲
	12.45	1539	112	43980	2.81	KSF97		157	▲
	13.81	1388	101	43140	3.12	KHF97		153	▲
	15.59	1229	90	42110	3.52	KAF97	100	142.7	▲
	17.48	1096	80	41130	3.95	KNF97		173.4	▲
	19.50	983	72	40170	4.41	KMF97		159.4	▲
	21.63	886	65	39260	4.89				▲
	26.44	725	53	37490	5.97				▲
	29.68	646	47	36060	5.10				▲
	33.11	579	42	35150	5.70				▲
	11.91	1609	118	23270	1.69				
	12.96	1479	108	23210	1.84				
	14.92	1285	94	23020	2.12				
	16.90	1134	83	22780	2.36				
	19.35	990	72	22440	2.64	KSF87		101.1	
	22.80	841	61	21950	3.01	KHF87		90.1	
	26.11	734	54	21500	3.37	KAF87		90.3	
	27.75	691	50	21290	3.54	KNF87		106.9	
	32.32	593	43	20720	4.00	KMF87		98.6	
	35.35	542	40	20030	4.31				▲
	43.19	444	32	19290	5.16				
	49.47	387	28	18770	5.68				
	52.58	365	27	18530	5.92				
	13.91	1378	101	13660	1.13				
	17.93	1069	78	13790	1.46				
	21.85	877	64	13700	1.78				
	24.54	781	57	13590	2.00				
	27.36	701	51	13460	2.23				
	29.71	645	47	13340	2.42	KSF77		62.4	



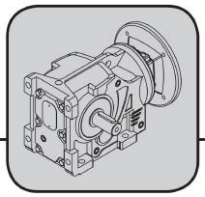
Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
2.2	35.21	544	40	13050	2.77	KHF77		58.3
(3HP)	45.93	417	30	12330	3.14	KAF77	100	59.2
	51.21	374	27	12110	3.51	KNF77		70.6
	55.61	345	25	11930	3.76	KMF77		65.6
	62.04	309	23	11830	4.11			
	65.91	291	21	11550	4.24			
	69.16	277	20	11570	4.44			
	75.12	255	19	11370	4.70			
	89.02	215	16	10950	5.29			
	30.22	634	46	5990	1.09			
	31.59	607	44	6250	1.05			
	36.86	520	38	6460	1.25			
	39.11	490	36	6560	1.31			
	42.09	455	33	6780	1.28	KSF67		36.6
	45.31	423	31	6770	1.45	KHF67		35.1
	51.34	373	27	6960	1.47	KAF67	100	33.6
	54.48	352	26	7000	1.53	KNF67		36.7
	57.33	334	24	6940	1.71	KMF67		37.1
	63.11	304	22	7030	1.70			
	79.86	240	18	7000	2.00			
	98.89	194	14	6840	2.50			
	114.55	167	12	6740	2.77			
	144.95	132	10	6530	3.27			
	33.56	571	42	4250	1.02			
	40.94	468	34	4360	1.24			
	43.45	441	32	4370	1.31	KSF57		32.6
	50.33	381	28	4360	1.32	KHF57		30.9
	54.35	353	26	4050	1.34	KAF57	100	30.3
	62.95	304	22	4030	1.47	KNF57		35.7
	79.66	241	18	3940	1.70	KMF57		33.7
	109.84	175	13	3920	2.29			
	127.24	151	11	3790	2.58			
	161.01	119	9	3590	3.13			
	67.81	283	21	2730	1.08			
	76.26	251	18	2710	1.20	KSF47		25.6
	82.41	233	17	2730	1.23	KHF47		24.7
	106.66	180	13	2650	1.54	KAF47	100	24.1
	129.63	148	11	2570	1.74	KNF47		28.3
	140.74	136	10	2570	1.75	KMF47		26.8
	196.83	97	7	2400	2.19			
	239.23	80	6	2300	2.50			
3	3.06	8041	458	59172	0.89			
(4HP)	3.56	6911	393	59172	1.04			
	3.90	6301	359	59172	1.14			
	4.42	5564	317	59172	1.29	KSF107 R77		307
	5.07	4847	276	59172	1.48	KHF107 R77		273
	5.61	4380	249	59172	1.64	KAF107 R77	100	254
	6.47	3802	216	59172	1.88	KNF107 R77		297
	7.26	3386	193	59172	2.12	KMF107 R77		270
	8.10	3037	173	59172	2.36			
	9.00	2733	156	59172	2.62			
	9.87	2492	142	59172	2.88			
	5.41	4545	259	38063	0.88	KSF97R47		179.2
	6.12	4021	229	38063	0.99	KHF97R47		168.7
	6.82	3605	205	38063	1.11	KAF97R47	100	159.2
						KNF97R47		190.4
						KMF97R47		176.7
	9.75	2661	144	72770	3.01	KSF107		276

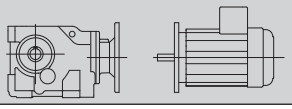


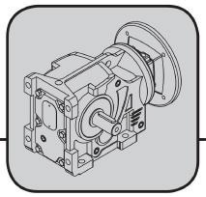
Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]	
3	11.48	2261	122	70000	3.54	KHF107		243	
(4HP)	13.08	1984	107	67800	4.03	KAF107	100	223	
						KNF107		266	
						KMF107		239	
	8.01	3262	175	43020	1.33				
	9.08	2877	154	42690	1.51				
	9.95	2627	141	42360	1.65				
	11.68	2238	120	41640	1.94				▲
	12.45	2099	112	41310	2.06				▲
	13.81	1892	101	40730	2.29	KSF97		157	▲
	15.59	1676	90	39980	2.58	KHF97		153	▲
	17.48	1495	80	39220	2.90	KAF97	100	142.7	▲
	19.50	1340	72	38470	3.23	KNF97		173.4	▲
	21.63	1208	65	37720	3.58	KMF97		159.4	▲
	26.44	989	53	36230	4.38				▲
	29.68	880	47	34790	3.74				▲
	33.11	789	42	34010	4.18				▲
	36.72	712	38	33260	4.64				▲
	44.88	582	31	31790	5.70				▲
	11.91	2195	118	19880	1.24				
	12.96	2016	108	20100	1.35				
	14.92	1752	94	20320	1.55				
	16.90	1547	83	20390	1.73				
	19.35	1351	72	20350	1.94				
	22.80	1147	61	20180	2.21	KSF87		101.1	
	26.11	1001	54	19960	2.47	KHF87		90.1	
	27.75	942	50	19830	2.59	KAF87	100	90.3	
	32.32	809	43	19470	2.94	KNF87		106.9	
	35.35	739	40	18760	3.16	KMF87		98.6	▲
	43.19	605	32	18250	3.79				
	49.47	528	28	17860	4.16				
	52.58	497	27	17680	4.34				
	61.24	427	23	17200	4.83				
	66.99	390	21	16900	5.15				▲
	13.91	1879	101	6150	0.83				
	17.93	1457	78	7970	1.07				
	21.85	1196	64	8930	1.31				
	24.54	1065	57	9340	1.47				
	27.36	955	51	9640	1.63				
	29.71	880	47	9820	1.77				
	35.21	742	40	10080	2.03	KSF77		62.4	
	45.93	569	30	9870	2.30	KHF77		58.3	
	51.21	510	27	9900	2.57	KAF77	100	59.2	
	55.61	470	25	9900	2.76	KNF77		70.6	
	62.04	421	23	10140	3.01	KMF77		65.6	
	65.91	397	21	9840	3.11				
	69.16	378	20	10060	3.25				
	75.12	348	19	9980	3.45				
	89.02	294	16	9780	3.88				
	116.13	225	12	9250	4.62				
	129.46	202	11	9090	4.99				
	140.61	186	10	8960	5.28				
	166.63	157	8	8690	5.95				
	36.86	709	38	2240	0.92				
	39.11	668	36	3590	0.96				
	42.09	621	33	2790	0.94				
	45.31	577	31	5140	1.06	KSF67		36.6	
	51.34	509	27	5560	1.08	KHF67		35.1	



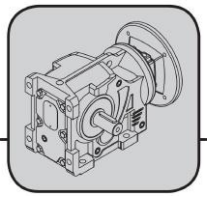
Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
3	54.48	480	26	5670	1.12	kAF67		33.6
(4HP)	57.33	456	24	5650	1.25	KNF67	100	39.6
	63.11	414	22	5890	1.24	KMF67		37.1
	79.86	327	18	6090	1.47			
	98.89	264	14	6100	1.84			
	114.55	228	12	6090	2.03			
	144.95	180	10	6020	2.40			
	40.94	638	34	3330	0.91			
	43.45	602	32	3430	0.96			
	50.33	519	28	3590	0.97	KSF57		32.6
	54.35	481	26	3000	0.98	KHF57		30.9
	62.95	415	22	3420	1.08	kAF57	100	30.3
	79.66	328	18	3460	1.25	KNF57		35.7
	109.84	238	13	3630	1.68	KMF57		33.7
	127.24	205	11	3560	1.89			
	161.01	162	9	3410	2.29			
4	3.90	8402	359	59172	0.85			
(5.4HP)	4.42	7419	317	59172	0.97			
	5.07	6463	276	59172	1.11	KSF107 R77		307
	5.61	5840	249	59172	1.23	KHF107 R77		273
	6.47	5069	216	59172	1.41	KAF107 R77	112	254
	7.26	4515	193	59172	1.59	KNF107 R77		297
	8.10	4050	173	59172	1.77	KMF107 R77		270
	9.00	3645	156	59172	1.97			
	9.87	3323	142	59172	2.16			
	6.82	4806	205	38063	0.83	KSF97R47		179.2
						KHF97R47		168.7
						KAF97R47	112	159.2
						KNF97R47		190.4
						KMF97R47		176.7
	11.48	3014	122	68060	2.65	KSF107		276
	13.08	2646	107	66100	3.02	KHF107		243
						KAF107	112	223
						KNF107		266
						KMF107		239
	8.01	4350	175	37820	1.00			
	9.08	3836	154	38110	1.13			
	9.95	3502	141	38180	1.24			
	11.68	2984	120	38080	1.45			
	12.45	2798	112	37970	1.55			
	13.81	2523	101	37710	1.72	KSF97		157
	15.59	2235	90	37310	1.94	KHF97		153
	17.48	1993	80	36840	2.17	KAF97	112	142.7
	19.50	1787	72	36330	2.42	KNF97		173.4
	21.63	1611	65	35800	2.69	KMF97		159.4
	26.44	1318	53	34660	3.29			▲
	29.68	1174	47	33200	2.80			
	33.11	1052	42	32580	3.13			
	36.72	949	38	31970	3.48			
	44.88	776	31	30740	4.27			▲
	14.92	2336	94	16940	1.16			
	16.90	2062	83	17400	1.30			
	19.35	1801	72	17750	1.45			
	22.80	1529	61	17970	1.66			
	26.11	1335	54	18020	1.85			
	27.75	1256	50	18010	1.95	KSF87		101.1
	32.32	1078	43	17910	2.20	KHF87		90.1
	35.35	986	40	17180	2.37	KAF87	112	90.3



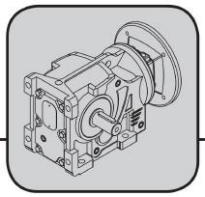
Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
4	43.19	807	32	16960	2.84	KNF87		106.9
(5.4HP)	49.47	705	28	16730	3.12	KMF87		98.6
	52.58	663	27	16620	3.26			
	61.24	569	23	16280	3.63			
	66.99	520	21	16070	3.86			
	89.38	390	16	15300	4.72			
	109.20	319	13	14710	5.44			
	125.06	279	11	14300	5.98			
	21.85	1595	64	5740	0.98			
	24.54	1420	57	6500	1.10			
	27.36	1274	51	7100	1.23			
	29.71	1173	47	7480	1.33			
	35.21	990	40	8110	1.52			
	45.93	759	30	8240	1.73	KSF77		62.4
	51.21	681	27	8440	1.93	KHF77		58.3
	55.61	627	25	8550	2.07	KAF77		59.2
	62.04	562	23	9020	2.26	KNF77	112	70.6
	65.91	529	21	8700	2.33	KMF77		65.6
	69.16	504	20	9050	2.44			
	75.12	464	19	9050	2.58			
	89.02	391	16	9000	2.91			
	116.13	300	12	8600	3.47			
	129.46	269	11	8510	3.74			
	140.61	248	10	8430	3.96			
	166.63	209	8	8240	4.46			
	57.33	608	24	2610	0.94	KSF67		36.6
	63.11	552	22	2330	0.93	KHF67		35.1
	79.86	436	18	4970	1.10	KAF67		33.6
	98.89	352	14	5170	1.38	KNF67		39.6
	114.55	304	12	5290	1.53	KMF67		37.1
	144.95	240	10	5380	1.80			
	62.95	554	22	1250	0.81	KSF57		32.6
	79.66	437	18	2280	0.93	KHF57		30.9
	109.84	317	13	3240	1.26	KAF57	112	30.3
	127.24	274	11	3230	1.42	KNF57		35.7
	161.01	216	9	3160	1.72	KMF57		33.7
5.5	5.61	8030	249	59172	0.89	KSF107 R77		310
(7.4HP)	6.47	6971	216	59172	1.03	KHF107 R77		276
	7.26	6208	193	59172	1.15	KAF107 R77	132S	257
	8.10	5569	173	59172	1.29	KNF107 R77		300
	9.00	5011	156	59172	1.43	KMF107 R77		273
	9.87	4569	142	59172	1.57			
	13.08	3638	107	63540	2.20			
	13.94	3414	100	62740	2.34	KSF107		280
	14.66	3245	95	62100	2.47	KHF107		247
	15.44	3082	91	61440	2.60	KAF107	132S	227
	16.99	2800	82	60190	2.86	KNF107		270
	18.64	2553	75	58990	3.13	KMF107		243
	21.11	2254	66	57350	3.55			
	24.23	1964	58	55540	4.07			
	11.68	4103	120	32740	1.06			
	12.45	3848	112	32960	1.13			
	13.81	3469	101	33200	1.25			
	15.59	3073	90	33310	1.41			
	17.48	2740	80	33280	1.58			
	19.50	2457	72	33140	1.76	KSF97		163
	21.63	2215	65	32920	1.95	KHF97		158
	26.44	1812	53	32300	2.39	KAF97	132S	148.5



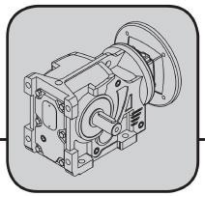
Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
5.5	29.68	1614	47	30820	2.04	KNF97		180.1
(7.4HP)	33.11	1447	42	30450	2.28	KMF97		166.3
	36.72	1305	38	30050	2.53			
	44.88	1068	31	29160	3.11			
	58.53	819	24	28360	4.86			
	65.64	730	21	27690	5.26			
	73.21	654	19	27040	5.68			
	19.35	2476	72	13840	1.06			
	22.80	2102	61	14650	1.21			
	26.11	1835	54	15130	1.35			
	27.75	1727	50	15290	1.41			
	32.32	1482	43	15570	1.60			
	35.35	1355	40	14810	1.72			
	43.19	1109	32	15020	2.07	KSF87		106.9
	49.47	969	28	15040	2.27	KHF87		99.9
	52.58	911	27	15020	2.37	KAF87	132S	96
	61.24	782	23	14910	2.64	KNF87		112.7
	66.99	715	21	14810	2.81	KMF87		104.3
	89.38	536	16	14360	3.44			
	109.20	439	13	13940	3.95			
	125.06	383	11	13630	4.35			
	132.93	361	11	13490	4.54			
	154.84	309	9	13110	5.05			
	169.35	283	8	12880	5.37			
	35.21	1361	40	5150	1.11			
	45.93	1043	30	5780	1.25			
	51.21	936	27	6230	1.40			
	55.61	862	25	6520	1.51			
	62.04	772	23	7340	1.64	KSF77		69.6
	65.91	727	21	6990	1.70	KHF77		65
	69.16	693	20	7540	1.77	KAF77	132S	66
	75.12	638	19	7660	1.88	KNF77		76.6
	89.02	538	16	7820	2.12	KMF77		72.4
	116.13	413	12	7630	2.52			
	129.46	370	11	7640	2.72			
	140.61	341	10	7630	2.88			
	166.63	288	8	7560	3.25			
7.5	13.08	4960	107	60140	1.61			
(10HP)	13.94	4656	100	59550	1.72			
	14.66	4424	95	59060	1.81	KSF107		280
	15.44	4203	91	58550	1.90	KHF107		247
	16.99	3818	82	57570	2.10	KAF107	132M	227
	18.64	3481	75	56600	2.30	KNF107		270
	21.11	3074	66	55240	2.60	KMF107		243
	24.23	2678	58	53700	2.99			
	30.56	2161	46	51050	3.63			
	15.59	4191	90	27970	1.03			
	17.48	3737	80	28520	1.16			
	19.50	3350	72	28870	1.29			
	21.63	3021	65	29070	1.43			
	26.44	2471	53	29150	1.75			
	29.68	2201	47	27640	1.49			
	33.11	1973	42	27600	1.67	KSF97		163
	36.72	1779	38	27480	1.86	KHF97		158
	44.88	1456	31	27060	2.28	KAF97	132M	148.5
	58.53	1116	24	26930	3.56	KNF97		180.1
	65.64	995	21	26420	3.86	KMF97		166.3
	73.21	892	19	25910	4.17			



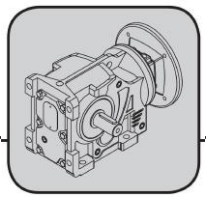
Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
7.5	81.20	805	17	25400	4.48			
(10HP)	99.25	658	14	24390	5.15			
	111.44	586	13	23420	4.85			
	124.30	526	11	22900	5.24			
	137.86	474	10	22390	5.63			
	27.75	2355	50	11650	1.04			
	32.32	2021	43	12450	1.17			
	35.35	1848	40	11640	1.26			
	43.19	1513	32	12420	1.51			
	49.47	1321	28	12770	1.67	KSF87		106.9
	52.58	1243	27	12890	1.74	KHF87		99.9
	61.24	1067	23	13090	1.93	KAF87	132M	96
	66.99	975	21	13140	2.06	KNF87		112.7
	89.38	731	16	13100	2.52	KMF87		104.3
	109.20	598	13	12920	2.90			
	125.06	522	11	12740	3.19			
	132.93	492	11	12640	3.33			
	154.84	422	9	12380	3.70			
	169.35	386	8	12220	3.94			
9.2	13.08	6085	107	57250	1.31			
(12.4HP)	13.94	5711	100	56830	1.40			
	14.66	5427	95	56480	1.47	KSF107		280
	15.44	5156	91	56100	1.55	KHF107		247
	16.99	4683	82	55350	1.71	KAF107	132M	227
	18.64	4270	75	54570	1.87	KNF107		270
	21.11	3770	66	53450	2.12	KMF107		243
	24.23	3285	58	52140	2.44			
	30.56	2651	46	49810	2.96			
	15.59	5141	90	23440	0.84			
	17.48	4584	80	24470	0.94			
	19.50	4110	72	25240	1.05			
	21.63	3705	65	25800	1.17			
	26.44	3032	53	26480	1.43			
	29.68	2700	47	24940	1.22			
	33.11	2421	42	25180	1.36	KSF97		163
	36.72	2183	38	25300	1.51	KHF97		158
	44.88	1786	31	25280	1.86	KAF97	132M	148.5
	58.53	1369	24	25730	2.90	KNF97		180.1
	65.64	1221	21	25340	3.15	KMF97		166.3
	73.21	1095	19	24940	3.40			
	81.20	987	17	24530	3.65			
	99.25	808	14	23680	4.20			
	111.44	719	13	22710	3.96			
	124.30	645	11	22250	4.27			
	137.86	581	10	21810	4.59			
	168.49	476	8	20920	5.29			
	27.75	2888	50	8560	0.85			
	32.32	2480	43	9800	0.96			
	35.35	2267	40	8950	1.03			
	43.19	1856	32	10220	1.23			
	49.47	1620	28	10850	1.36	KSF87		106.9
	52.58	1524	27	11080	1.42	KHF87		99.9
	61.24	1309	23	11530	1.58	KAF87	132M	96
	66.99	1197	21	11720	1.68	KNF87		112.7
	89.38	897	16	12040	2.05	KMF87		104.3
	109.20	734	13	12050	2.36			
	125.06	641	11	11980	2.60			
	132.93	603	11	11930	2.71			



Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
9.2	154.84	518	9	11770	3.02			
(12.4HP)	169.35	473	8	11650	3.21			
11	15.44	6165	91	53510	1.30			
(15HP)	16.99	5599	82	52990	1.43			
	18.64	5105	75	52420	1.57	KSF107		293
	21.11	4508	66	51550	1.77	KHF107		259
	24.23	3927	58	50490	2.04	KAF107	160M	239
	30.56	3170	46	48500	2.47	KNF107		282
	33.37	2762	42	47710	2.67	KMF107		256
	36.88	2510	38	46780	2.87			
	42.96	2215	33	45330	3.25			
	47.12	1934	30	44430	3.52			
	26.44	3625	53	23640	1.19			
	29.68	3228	47	22080	1.02			
	33.11	2894	42	22620	1.14			
	36.72	2610	38	22990	1.27			
	44.88	2135	31	23390	1.55	KSF97		173.8
	58.53	1637	24	24450	2.43	KHF97		172
	65.64	1460	21	24200	2.63	KAF97	160M	156.9
	73.21	1309	19	23920	2.84	KNF97		190
	81.20	1180	17	23610	3.05	KMF97		174.3
	99.25	966	14	22930	3.51			
	111.44	860	13	21950	3.31			
	124.30	771	11	21570	3.57			
	137.86	695	10	21190	3.84			
	168.49	569	8	20420	4.42			
	43.19	2219	32	7890	1.03			
	49.47	1937	28	8820	1.14			
	52.58	1823	27	9170	1.18			
	61.24	1565	23	9890	1.32	KSF87		118.4
	66.99	1431	21	10220	1.40	KHF87		111.5
	89.38	1072	16	10910	1.72	KAF87	160M	107.4
	109.20	878	13	11130	1.98	KNF87		124.1
	125.06	766	11	11170	2.17	KMF87		115.7
	132.93	721	11	11170	2.27			
	154.84	619	9	11120	2.52			
	169.35	566	8	11060	2.69			
15	16.99	7635	82	47750	1.05			
(20HP)	18.64	6962	75	47640	1.15			
	21.11	6148	66	47330	1.30			
	24.23	5355	58	46810	1.49	KSF107		293
	30.56	4323	46	45590	1.81	KHF107		259
	33.37	3766	42	45040	1.95	KAF107	160L	239
	36.88	3423	38	44360	2.10	KNF107		282
	42.96	3020	33	43250	2.38	KMF107		256
	47.12	2637	30	42540	2.58			
	61.26	2243	23	40420	3.21			
	70.57	2006	20	39230	3.59			
	86.77	1488	16	37470	4.31			
	44.88	2911	31	19180	1.14			
	58.53	2233	24	21600	1.78			
	65.64	1991	21	21670	1.93	KSF97		173.8
	73.21	1785	19	21650	2.08	KHF97		172
	81.20	1609	17	21560	2.24	KAF97	160L	156.9
	99.25	1317	14	21250	2.58	KNF97		190
	111.44	1173	13	20250	2.43	KMF97		174.3
	124.30	1051	11	20050	2.62			
	137.86	948	10	19820	2.82			

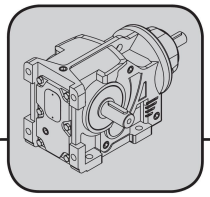


Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
	168.49	776	8	19300	3.24			
18.5	21.11	7582	66	43640	1.06			
(25HP)	24.23	6605	58	43600	1.21			
	30.56	5331	46	43040	1.47			
	33.37	4644	42	42700	1.58	KSF107		300
	36.88	4221	38	42250	1.71	KHF107		267
	42.96	3725	33	41440	1.93	KAF107	180M ★	247
	47.12	3252	30	40890	2.09	KNF107		290
	61.26	2766	23	39150	2.60	KMF107		264
	70.57	2474	20	38130	2.91			
	86.77	1835	16	36580	3.50			
	95.94	1564	15	35800	3.84			
	58.53	2754	24	19120	1.44			
	65.64	2455	21	19450	1.56			
	73.21	2201	19	19660	1.69	KSF97		183.8
	81.20	1985	17	19770	1.82	KHF97		176
	99.25	1624	14	19780	2.09	KAF97	180M ★	168.8
	111.44	1446	13	18770	1.97	KNF97		200.3
	124.30	1297	11	18730	2.12	KMF97		178.7
	137.86	1169	10	18630	2.28			
	168.49	957	8	18320	2.63			
22	24.23	7855	58	40380	1.02			
(30HP)	30.56	6340	46	40490	1.24			
	33.37	5523	42	40370	1.33			
	36.88	5020	38	40140	1.43	KSF107		300
	42.96	4429	33	39630	1.63	KHF107		267
	47.12	3868	30	39240	1.76	KAF107	180L ★	247
	61.26	3289	23	37880	2.19	KNF107		290
	70.57	2942	20	37030	2.45	KMF107		264
	86.77	2182	16	35680	2.94			
	95.94	1860	15	34990	3.23			
	130.02	1141	11	32430	4.03			
	58.53	3275	24	16630	1.21			
	65.64	2920	21	17230	1.32			
	73.21	2618	19	17670	1.42	KSF97		183.8
	81.20	2360	17	17980	1.53	KHF97		176
	99.25	1931	14	18320	1.76	KAF97	180L ★	168.8
	111.44	1720	13	17290	1.65	KNF97		200.3
	124.30	1542	11	17400	1.79	KMF97		178.7
	137.86	1390	10	17430	1.92			
	168.49	1138	8	17340	2.21			
30	36.88	6845	38	35310	1.05			
(40HP)	42.96	6040	33	35480	1.19			
	47.12	5274	30	35460	1.29	KSF107		300
	61.26	4486	23	34970	1.61	KHF107		267
	70.57	4012	20	34500	1.79	KAF107	200L ★	247
	86.77	2976	16	33630	2.16	KNF107		290
	95.94	2536	15	33140	2.37	KMF107		264
	130.02	1556	11	30910	2.96			
	161.45	1212	9	29710	3.36			
	58.53	4465	24	10940	0.89			
	65.64	3982	21	12160	0.96			
	73.21	3570	19	13120	1.04	KSF97		183.8
	81.20	3219	17	13880	1.12	KHF97		176
	99.25	2633	14	14960	1.29	KAF97	200L ★	168.8
	111.44	2345	13	13910	1.21	KNF97		200.3
	124.30	2103	11	14370	1.31	KMF97		178.7
	137.86	1896	10	14700	1.41			

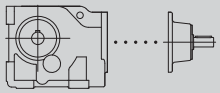


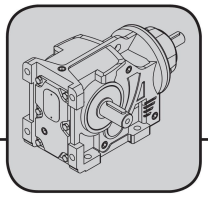
Pm [kW]	na [1/min]	Ma [Nm]	i	FRa [N]	fs			m [kg]
	168.49	1551	8	15100	1.62			
37	61.26	5532	23	32430	1.30	KSF107		308
(50HP)	70.57	4948	20	32300	1.46	KHF107		279
	86.77	3670	16	31830	1.75	KAF107	225S★	254
	95.94	3128	15	31510	1.92	KNF107		297
	130.02	1919	11	29580	2.40	KMF107		271
	161.45	1494	9	28640	2.72			
45	61.26	6728	23	29520	1.07	KSF107		308
(60HP)	70.57	6018	20	29770	1.20	KHF107		279
	86.77	4464	16	29780	1.44	KAF107	225M★	254
	95.94	3804	15	29660	1.58	KNF107		297
	130.02	2334	11	28060	1.97	KMF107		271
	161.45	1817	9	27420	2.24			

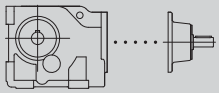
▲ Not available for K..M (direct couple) models.

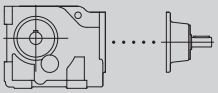


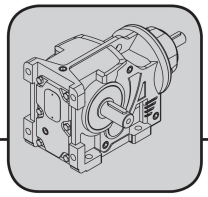
K..S

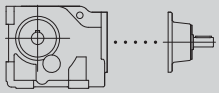
i	na [1/min]	Mamax [Nm]	Pe [kW]	FRa [N]	FRe [N]			m [kg]
K37								200Nm
150.47	9.3	200	0.21	5530				
134.96	10	200	0.24	5300				
116.28	12	200	0.28	5000				
106.21	13	200	0.30	4830		KSS37		13.4
92.84	15	200	0.35	4580		KHS37		12.7
83.69	17	200	0.38	4400		KAS37	Ø16	12
75.58	19	200	0.43	4220		KNS37		14.4
67.80	21	200	0.47	4040		KMS37		13.6
59.67	23	200	0.54	3830				
49.51	28	200	0.65	3550				
44.46	31	200	0.72	3390				
37.97	37	200	0.85	3170				
32.19	43	197	0.99	2960				
26.40	53	190	1.2	2740				
25.73	54	187	1.2	2530				
23.10	61	187	1.3	2400				
19.73	71	186	1.5	2220		KSS37		13.8
16.73	84	185	1.8	2040		KHS37		13.1
15.32	91	177	1.9	2200		KAS37	Ø19	12.4
13.08	107	177	2.2	2040		KNS37		14.8
11.09	126	177	2.6	1880		KMS37		14
9.09	154	176	3.1	1700				
7.96	176	176	3.6	1380				
6.80	206	167	4.0	1310				
5.76	243	158	4.4	1230				
4.73	296	148	5.0	1140				
K47								400Nm
130.79	11	400	0.49	5630		KSS47		20.3
116.81	12	400	0.55	5350		KHS47		19.4
108.86	13	400	0.59	5180		KAS47	Ø16	18.8
96.90	14	400	0.66	4910		KNS47		23
						KMS47		21.5
86.89	16	400	0.74	4660				
76.33	18	400	0.84	4380				
71.78	20	400	0.90	4250				
58.99	24	400	1.1	3890				
53.29	26	388	1.2	3710				
47.08	30	384	1.3	3530				
41.36	34	381	1.5	3310				
38.89	36	373	1.5	3240		KSS47		20.5
31.35	45	351	1.8	2970		KHS47		19.6
28.88	48	338	1.9	2940		KAS47	Ø19	19
26.30	53	337	2.1	2770		KNS47		23.2
24.73	57	335	2.2	2680		KMS47		21.7
20.65	68	302	2.4	2620				
18.36	76	300	2.6	2450				
16.99	82	283	2.7	2460				
13.13	107	275	3.4	2150				
10.80	130	256	3.8	2030				
9.95	141	237	3.8	2060				
7.11	197	212	4.8	1840				
5.85	239	199	5.5	1720				



i	na [1/min]	Mamax [Nm]	Pe [kW]	FRa [N]	FRe [N]			m [kg]
K57								600Nm
149.93	9.3	600	0.64	7470				
130.88	11	600	0.73	7010				
118.43	12	600	0.81	6650				
108.29	13	600	0.89	6360				
95.70	15	600	1.0	5960				
84.31	17	600	1.1	5580				
69.12	20	600	1.4	4990		KSS57		29.6
65.13	21	600	1.5	4820		KHS57		28
56.22	25	600	1.7	4400		KAS57	Ø19	26.9
47.35	30	600	2.0	4410		KNS57		32.3
44.43	32	580	2.1	3790		KMS57		30.3
41.71	34	577	2.2	4220				
34.20	41	575	2.7	3730				
32.22	43	572	2.9	3610				
27.82	50	500	2.9	3710				
25.76	54	470	2.9	3170				
22.24	63	444	3.2	3000				
17.57	80	406	3.7	2760		KSS57		29.8
12.75	110	397	5.0	2790		KHS57		28.2
11.00	127	385	5.6	2610		KAS57	Ø24	27.1
8.69	161	370	6.8	2330		KNS57		32.5
						KMS57		30.5
K67								820Nm
149.56	9.4	820	0.88	9560				
130.56	11	820	1.0	8840				
118.14	12	820	1.1	8330				
108.03	13	820	1.2	7360				
95.46	15	793	1.3	6930				
84.10	17	764	1.5	6660				
68.95	20	720	1.7	6280		KSS67		33.3
64.97	22	707	1.7	6170		KHS67		31.6
56.09	25	676	1.9	5910		KAS67	Ø19	30.1
46.33	30	687	2.4	5430		KNS67		36.1
44.32	32	630	2.3	5500		KMS67		33.6
37.98	37	648	2.7	5110				
35.79	39	636	2.9	5020				
33.26	42	578	2.8	5040				
30.90	45	609	3.2	4810				
27.27	51	545	3.2	4750				
25.70	54	535	3.3	4670				
24.42	57	567	3.7	4480		KSS67		33.5
22.18	63	512	3.7	4460		KHS67		31.8
17.53	80	477	4.4	4160		KAS67	Ø24	30.3
14.16	99	482	5.5	3800		KNS67		36.3
12.22	115	461	6.1	3640		KMS67		33.8
9.66	145	429	7.1	3390				

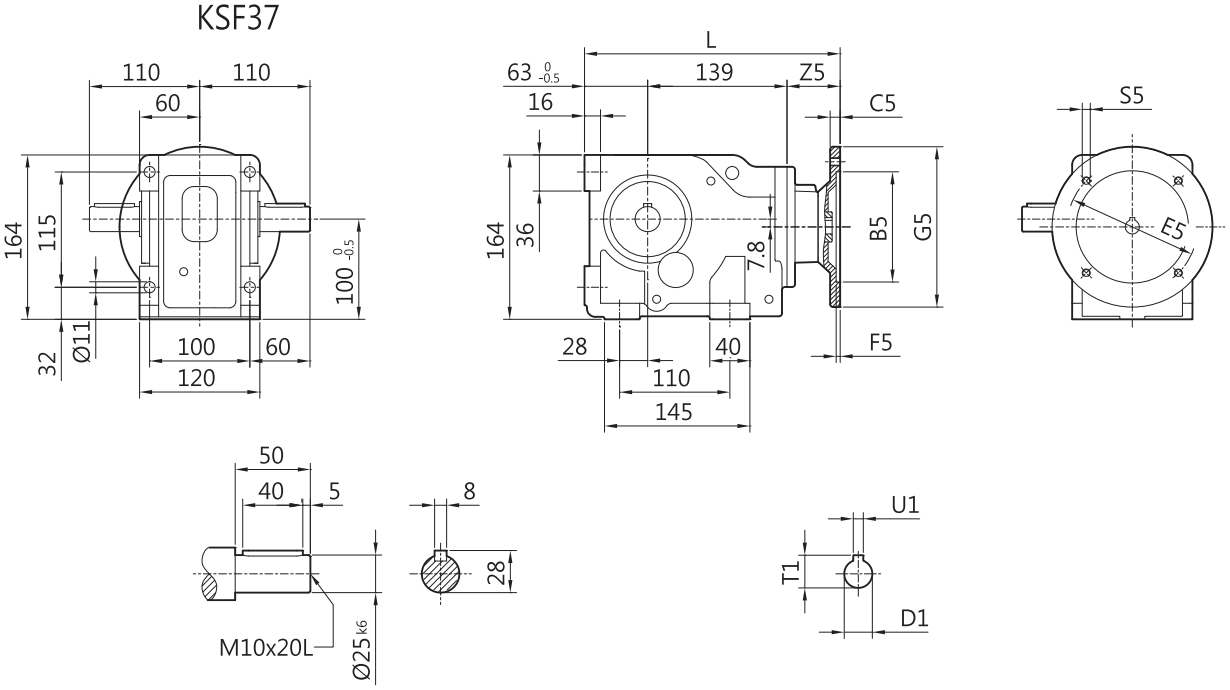
i	na [1/min]	Mamax [Nm]	Pe [kW]	FRa [N]	FRe [N]			m [kg]
K77								1550Nm
194.36	7.2	1451	1.2	16730				
180.17	7.8	1345	1.2	16080				
160.76	8.7	1200	1.2	15120		KSS77		59.7
144.13	9.7	1076	1.2	14240		KHS77		55.1
122.94	11	918	1.2	13000		KAS77	Ø19	56.1
109.30	13	816	1.2	12120		KNS77		66.7
100.66	14	1550	2.5	11520		KMS77		62.5
90.08	16	1550	2.8	10740				
78.07	18	1550	3.2	9760				
64.06	22	1550	3.9	8490		KSS77		59.9
57.05	25	1506	4.2	8130		KHS77		55.3
51.18	27	1457	4.6	7870		KAS77	Ø24	56.3
47.12	30	1422	4.8	7680		KNS77		66.9
						KMS77		62.7
39.76	35	1351	5.5	7300				
30.48	46	1233	6.5	6050				
27.34	51	1194	7.0	5860				
25.17	56	1165	7.4	5710				
22.57	62	1140	8.1	6150		KSS77		65.1
21.24	66	1107	8.4	5430		KHS77		60.5
20.24	69	1103	8.8	5960		KAS77	Ø38	61.5
18.64	75	1076	9.3	5810		KNS77		72.1
15.73	89	1023	10.5	5520		KMS77		67.9
12.06	116	934	12.4	4580				
10.81	129	904	13.4	4430				
9.96	141	882	14.2	4330				
8.40	167	838	16.0	4110				
K87								2700Nm
214.50	6.5	1602	1.2	23400				
190.38	7.4	1422	1.2	22030		KSS87		97.7
180.32	7.8	1346	1.2	21420		KHS87		90.7
151.59	9.2	1132	1.2	19540		KAS87	Ø19	86.8
129.25	11	2700	3.4	17900		KNS87		103.5
117.56	12	2700	3.7	16960		KMS87		95.1
108.00	13	2700	4.0	16140				
93.84	15	2700	4.6	14830		KSS87		98
82.86	17	2663	5.2	13930		KHS87		91
						KAS87	Ø28	87.1
						KNS87		103.8
						KMS87		95.4
72.35	19	2595	5.8	13150		KSS87		102.3
61.42	23	2517	6.6	12250		KHS87		95.3
53.63	26	2454	7.4	11550		KAS87	Ø38	91.4
50.45	28	2426	7.7	11240		KNS87		108.1
43.31	32	2358	8.7	10500		KMS87		99.7
39.60	35	2319	9.4	8620				
32.41	43	2275	11.3	7530				
28.30	49	2184	12.4	7230				
26.63	53	2145	12.9	7100				
22.86	61	2049	14.4	6780		KSS87		110.5
20.90	67	1994	15.3	6600		KHS87		103.5
15.66	89	1829	18.8	6050		KAS87	Ø42	99.6
12.82	109	1722	22	5700		KNS87		116.3
11.19	125	1654	24	5470		KMS87		107.9
10.53	133	1624	25	5370				
9.04	155	1551	28	5130				
8.27	169	1510	29	5000				



i	na [1/min]	Mamax [Nm]	Pe [kW]	FRa [N]	FRe [N]			m [kg]
K97								4300Nm
174.75	8.0	4300	4.0	38060		KSS97		154.9
154.10	9.1	4300	4.5	35890		KHS97		147.1
140.71	10	4300	4.9	34370		KAS97	Ø28	140.4
						KNS97		171.4
						KMS97		149.8
119.87	12	4300	5.8	31800				
112.43	12	4300	6.1	30800		KSS97		159.1
101.37	14	4300	6.8	29230		KHS97		151.3
89.79	16	4300	7.7	27450		KAS97	Ø38	144.6
80.07	17	4300	8.6	25830		KNS97		175.6
71.78	20	4300	9.6	24330		KMS97		154
64.72	22	4300	10.7	22960				
52.96	26	4300	13.0	20420		KSS97		167.1
47.16	30	3266	11.1	21880		KHS97		159.3
42.28	33	3274	12.4	20560		KAS97	Ø42	152.6
38.12	37	3280	13.8	19360		KNS97		183.6
31.19	45	3295	17.0	17110		KMS97		162
23.92	59	3948	27	13410				
21.33	66	3814	29	12960				
19.12	73	3692	31	12540		KSS97		167.1
17.24	81	3579	33	12160		KHS97		166.3
14.11	99	3369	38	11450		KAS97	Ø48	159.6
12.56	111	2826	36	11310		KNS97		190.6
11.26	124	2735	39	10950		KMS97		169
10.16	138	2651	42	10610				
8.31	168	2496	48	9990				
K107					8000Nm			
143.55	10	8000	9.0	59170		KSS107		273
121.95	11	8000	10.5	55370		KHS107		244
						KAS107	Ø28	219
						KNS107		262
						KMS107		236
107.04	13	8000	12.0	52460		KSS107		277
100.47	14	8000	12.8	51090		KHS107		248
95.48	15	8000	13.5	50000		KAS107	Ø38	223
						KNS107		266
						KMS107		240
90.70	15	8000	14.2	48930		KSS107		284
82.38	17	8000	15.6	46960		KHS107		255
75.12	19	8000	17.1	45110		KAS107	Ø42	230
						KNS107		273
						KMS107		247
66.33	21	8000	19.4	42710				
57.78	24	8000	22	40150				
45.81	31	7700	27	36840				
41.96	33	7600	29	35630				
37.96	37	7400	31	34510		KSS107		295
32.59	43	7200	36	32630		KHS107		266
29.71	47	7100	38	31490		KAS107	Ø48	241
22.86	61	6800	48	28500		KNS107		284
19.84	71	6600	53	27100		KMS107		258
16.13	87	6450	64	24840				
14.59	96	6400	70	23740				
10.77	130	5900	88	19890				
8.67	161	5400	100	19010				

3.5 Dimension Sheets

KSF37



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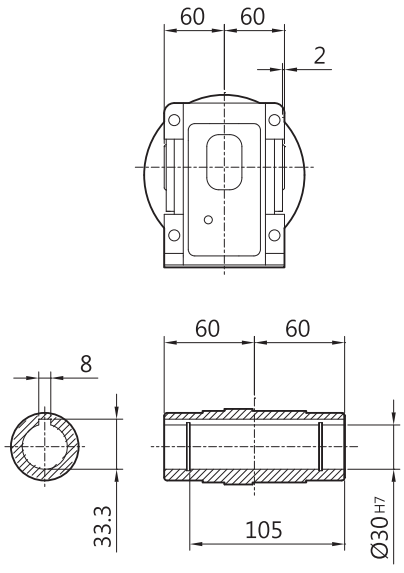

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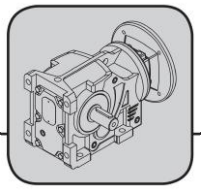
IEC 63	95	10	115	4	140	255	M8	53	11	12.8	4
IEC 71	110	10	130	4	160	255	M8	53	14	16.3	5
IEC 80	130	12	165	5	200	273	M10	71	19	21.8	6
IEC 90	130	12	165	5	200	273	M10	71	24	27.3	8



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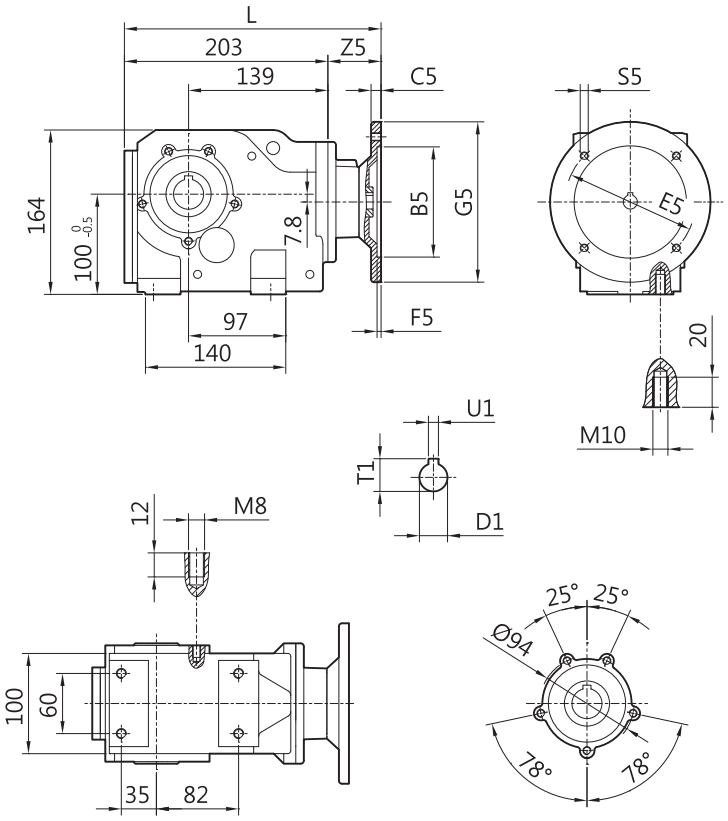

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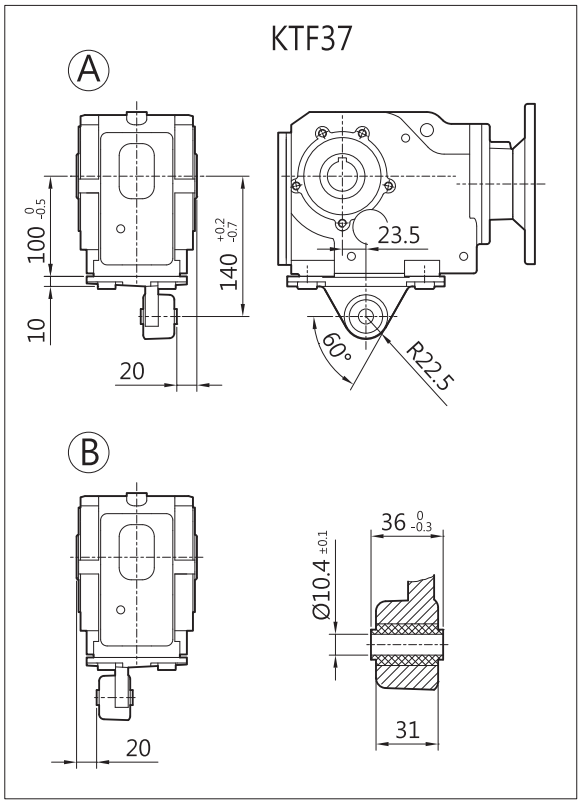

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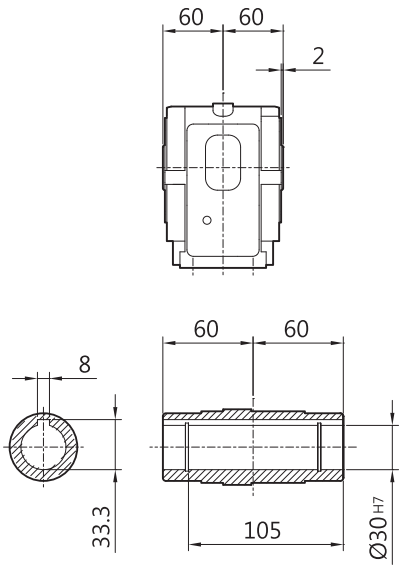

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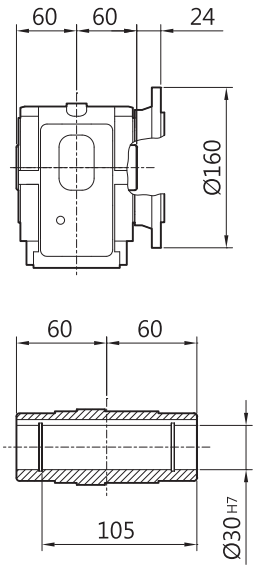

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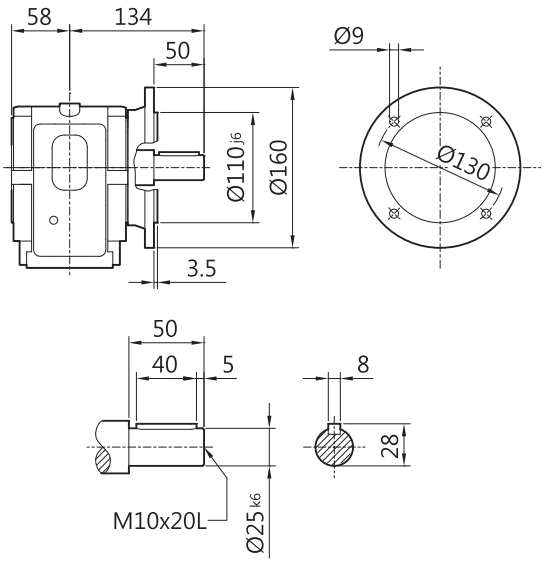

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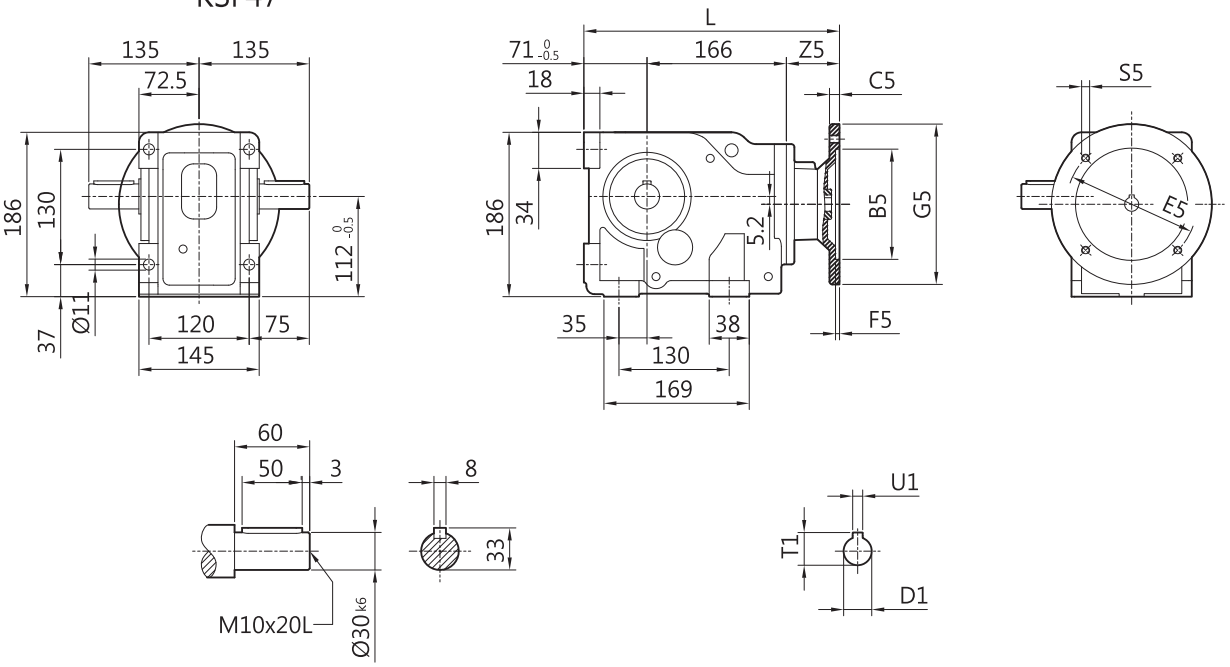
IEC 63	95	10	115	4	140	256	M8	53	11	12.8	4
IEC 71	110	10	130	4	160	256	M8	53	14	16.3	5
IEC 80	130	12	165	5	200	274	M10	71	19	21.8	6
IEC 90	130	12	165	5	200	274	M10	71	24	27.3	8

KSF47



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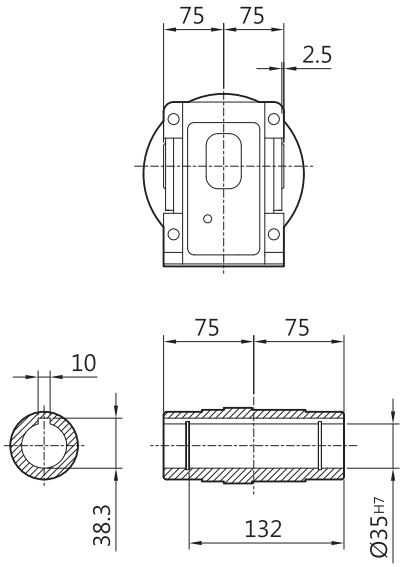
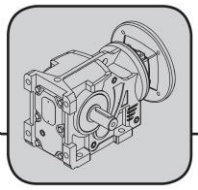


	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 63	95	10	115	4	140	285.5	M8	48.5	11	12.8	4
IEC 71	110	10	130	4	160	285.5	M8	48.5	14	16.3	5
IEC 80	130	12	165	5	200	303.5	M10	66.5	19	21.8	6
IEC 90	130	12	165	5	200	303.5	M10	66.5	24	27.3	8
IEC 100	180	15	215	5	250	320	M12	83	28	31.3	8



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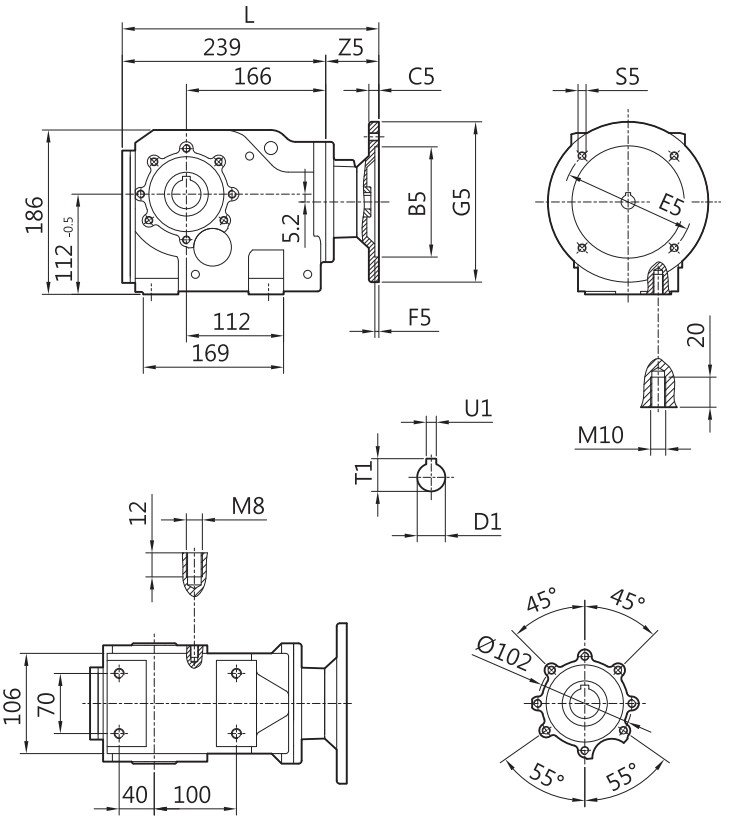

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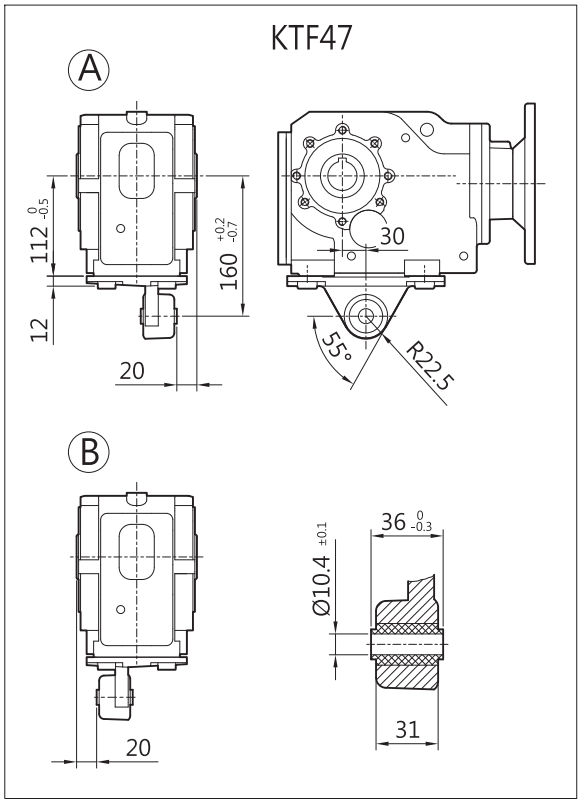

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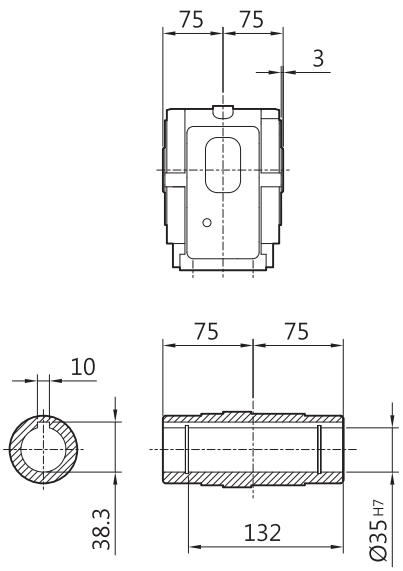

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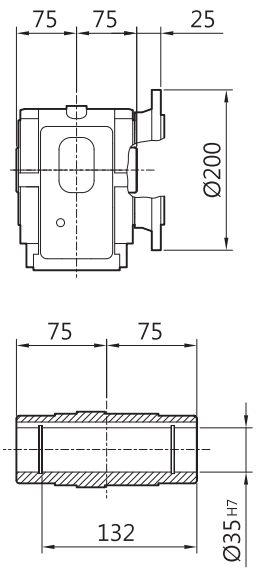

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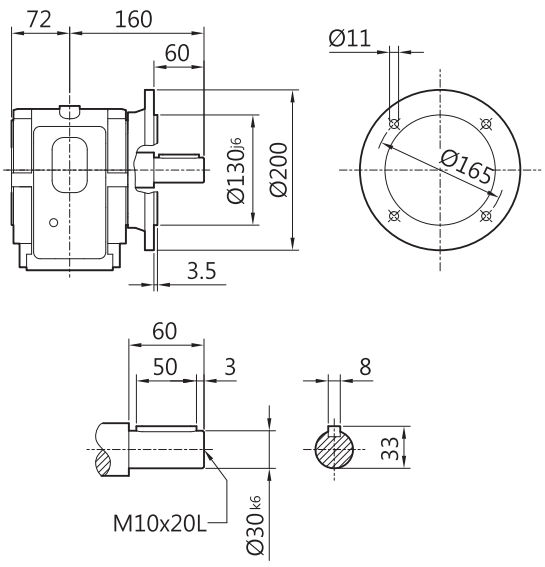

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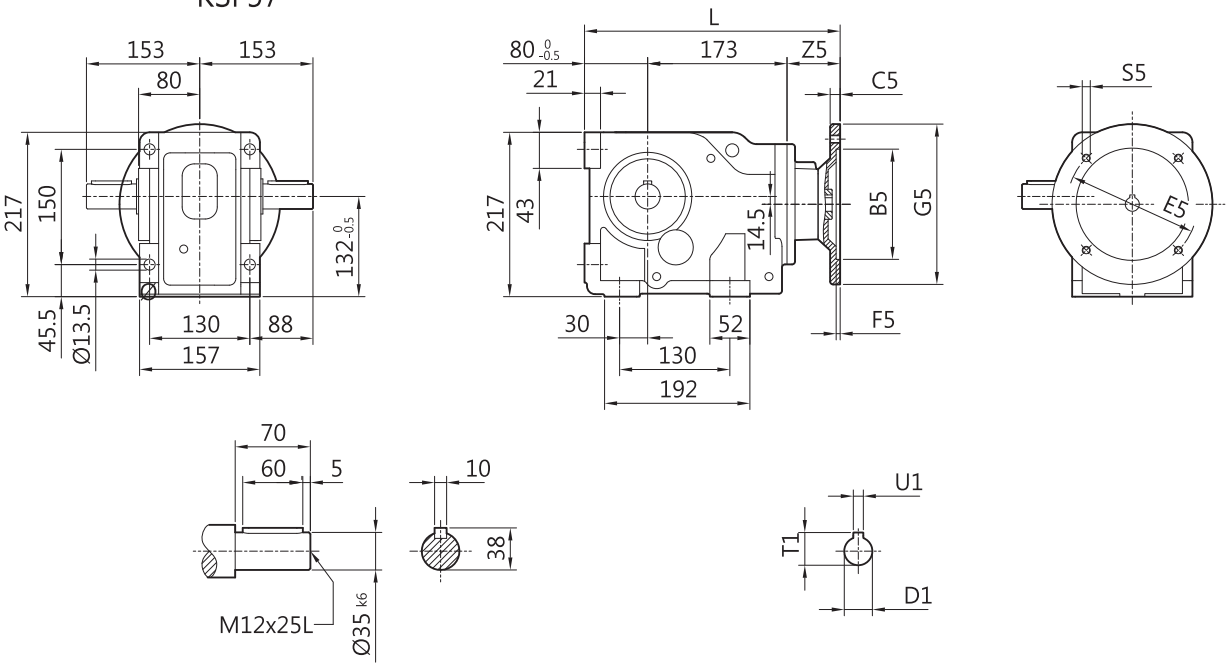
IEC 71	110	10	130	4	160	287.5	M8	48.5	14	16.3	5
IEC 80	130	12	165	5	200	305.5	M10	66.5	19	21.8	6
IEC 90	130	12	165	5	200	305.5	M10	66.5	24	27.3	8
IEC 100	180	15	215	5	250	323	M12	83	28	31.3	8

KSF57



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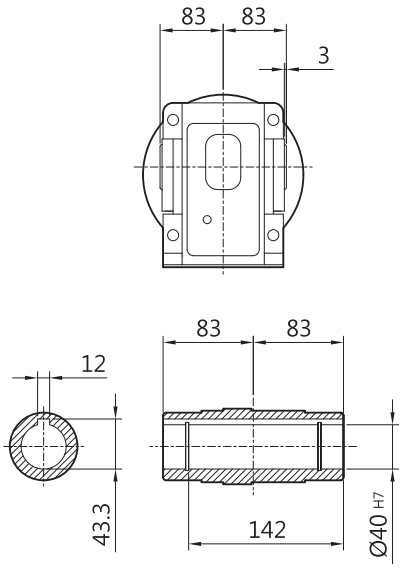
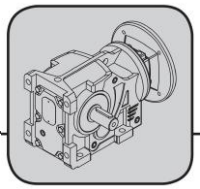
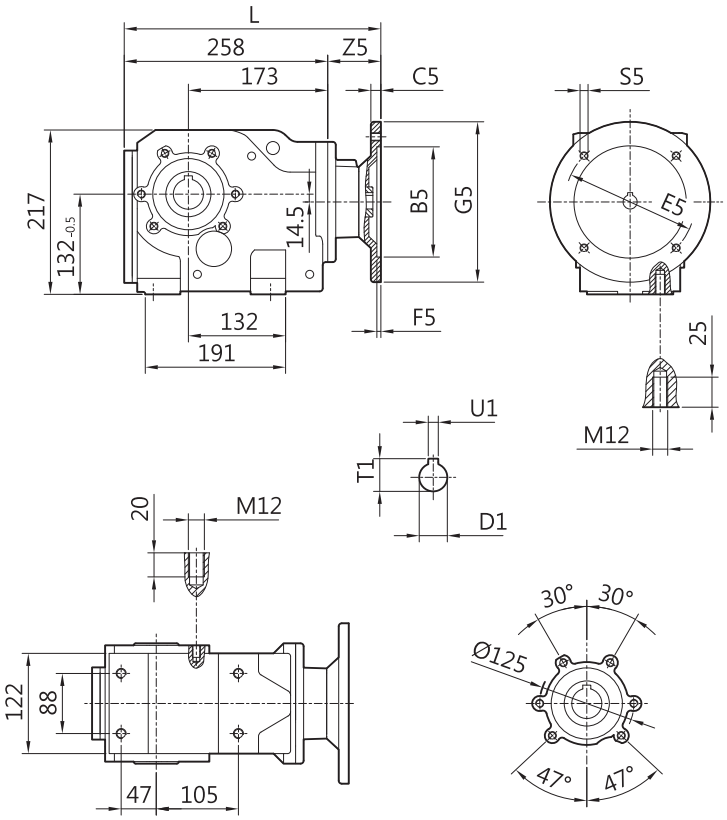


	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 63	95	10	115	4	140	299.5	M8	46.5	11	12.8	4
IEC 71	110	10	130	4	160	299.5	M8	46.5	14	16.3	5
IEC 80	130	12	165	5	200	317.5	M10	64.5	19	21.8	6
IEC 90	130	12	165	5	200	317.5	M10	64.5	24	27.3	8
IEC 100	180	15	215	5	250	334	M12	81	28	31.3	8
IEC 112	180	15	215	5	250	334	M12	81	28	31.3	8



KAF57



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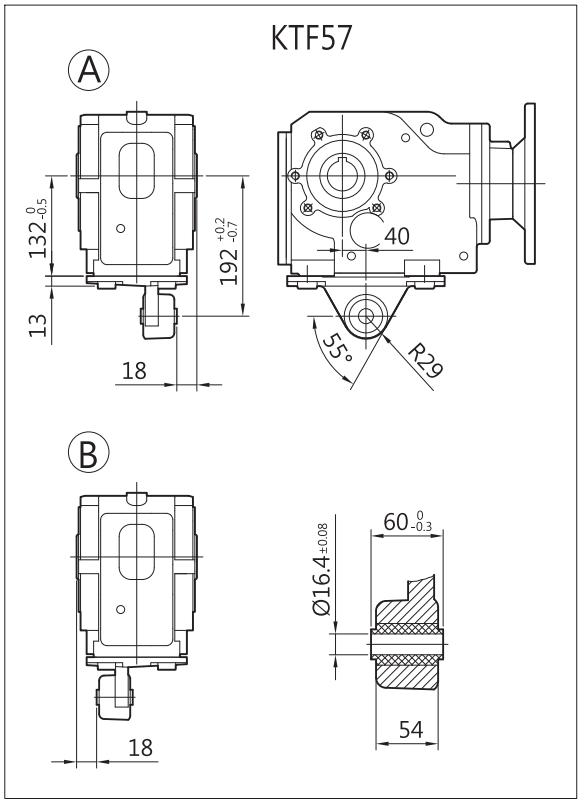

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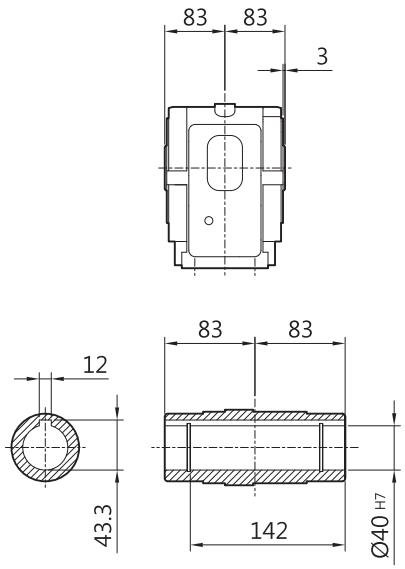

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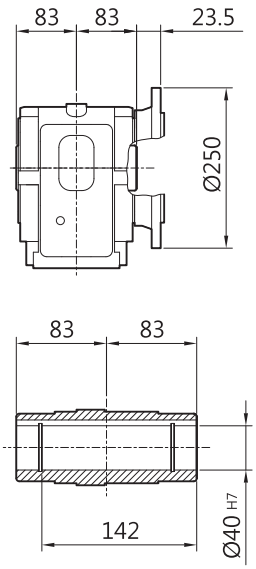

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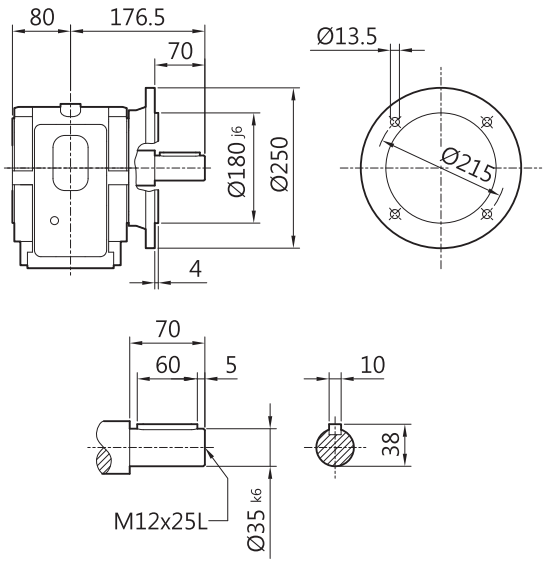

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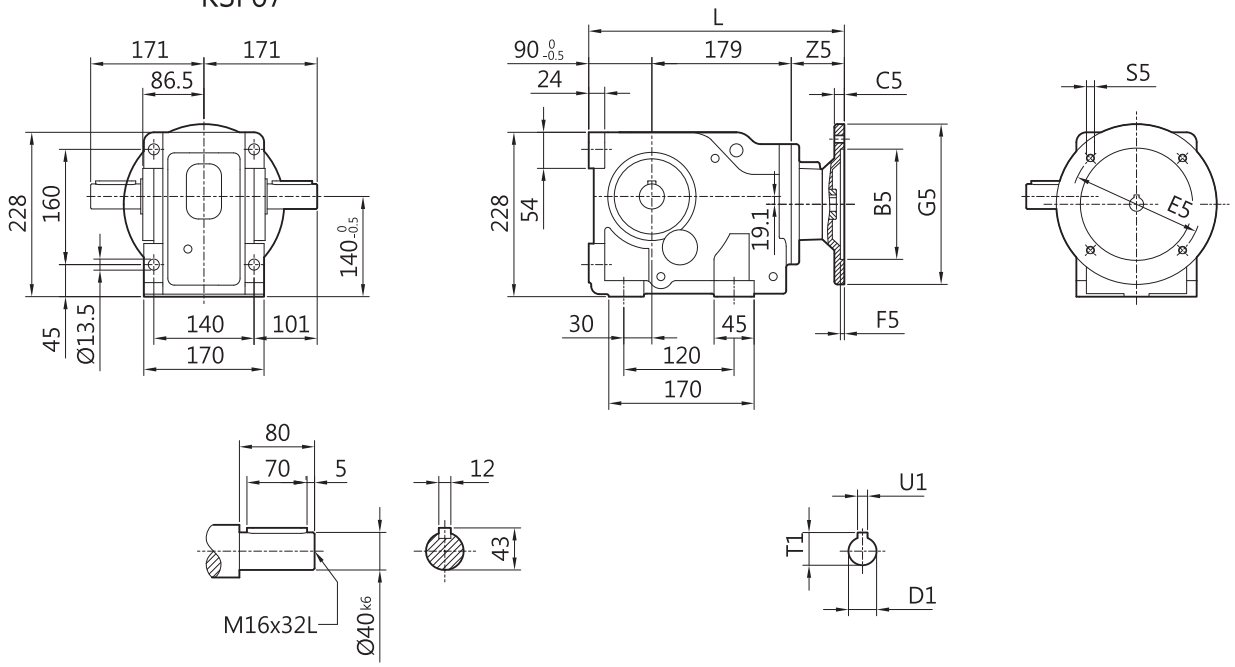
IEC 71	110	10	130	4	160	304.5	M8	46.5	14	16.3	5
IEC 80	130	12	165	5	200	322.5	M10	64.5	19	21.8	6
IEC 90	130	12	165	5	200	322.5	M10	64.5	24	27.3	8
IEC 100	180	15	215	5	250	339	M12	81	28	31.3	8
IEC 112	180	15	215	5	250	339	M12	81	28	31.3	8

KSF67



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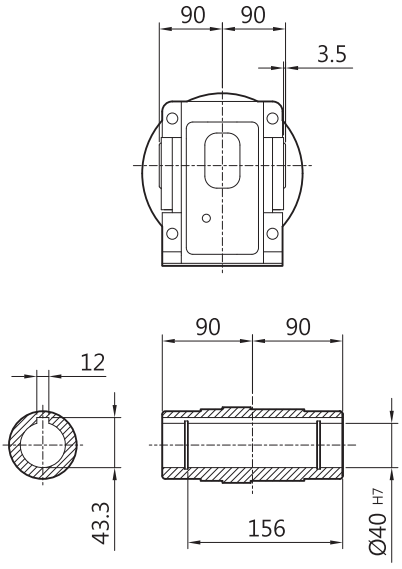

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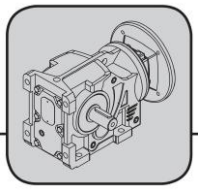
IEC 71	110	10	130	4	160	315.5	M8	46.5	14	16.3	5
IEC 80	130	12	165	5	200	333.5	M10	64.5	19	21.8	6
IEC 90	130	12	165	5	200	333.5	M10	64.5	24	27.3	8
IEC 100	180	15	215	5	250	350	M12	81	28	31.3	8
IEC 112	180	15	215	5	250	350	M12	81	28	31.3	8



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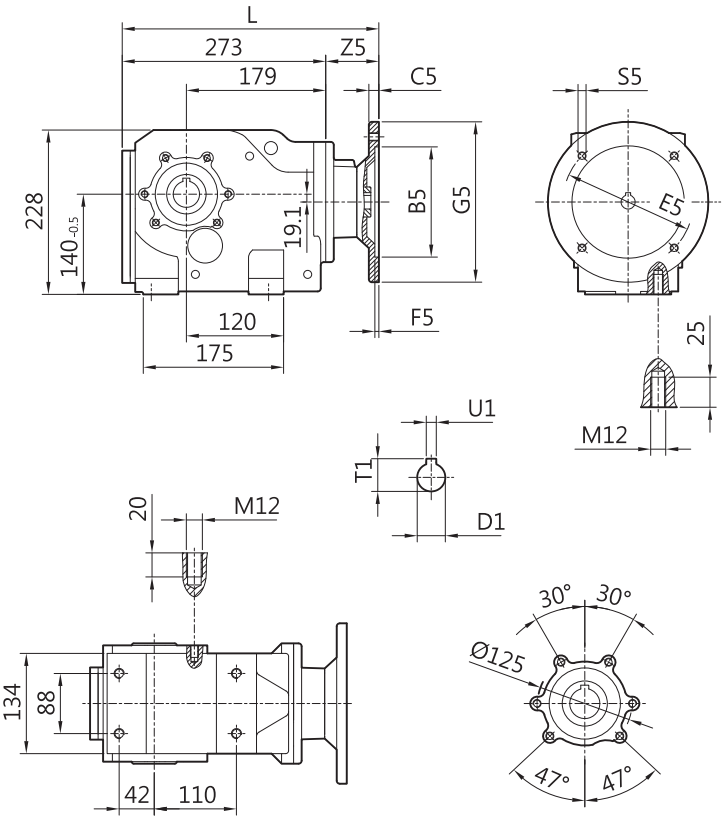

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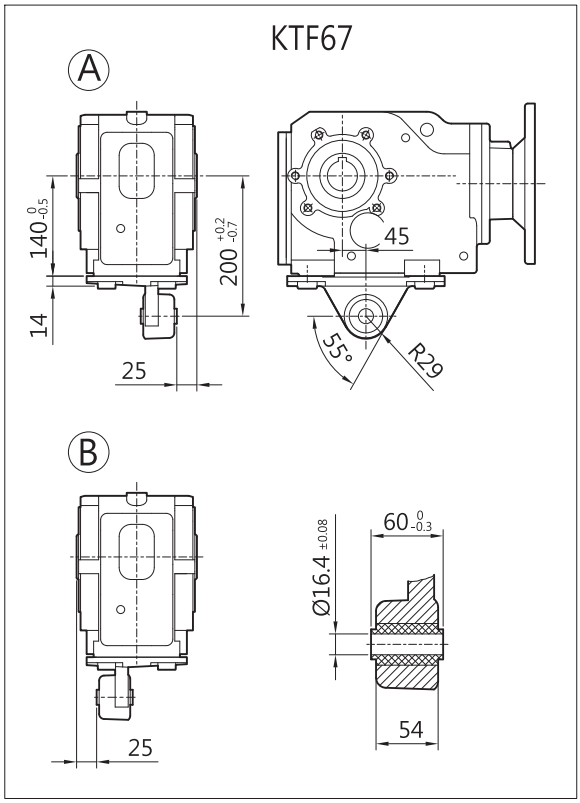

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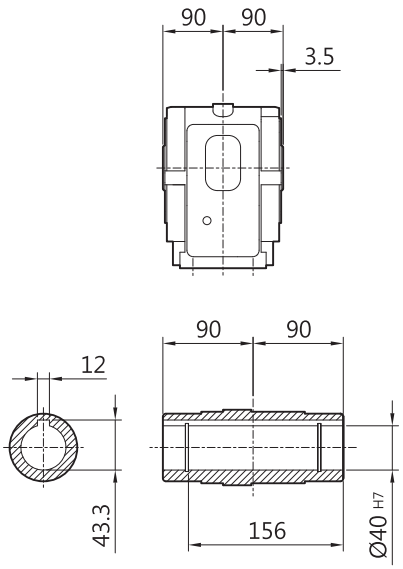

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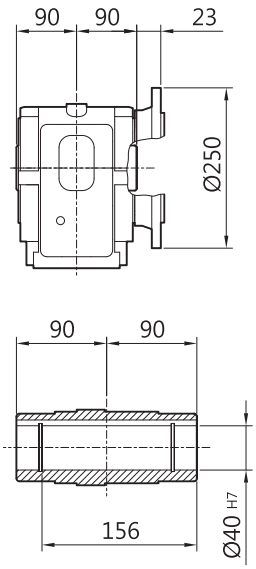

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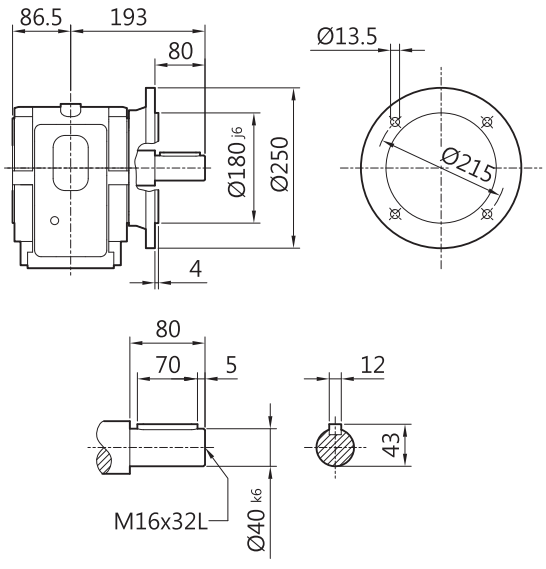

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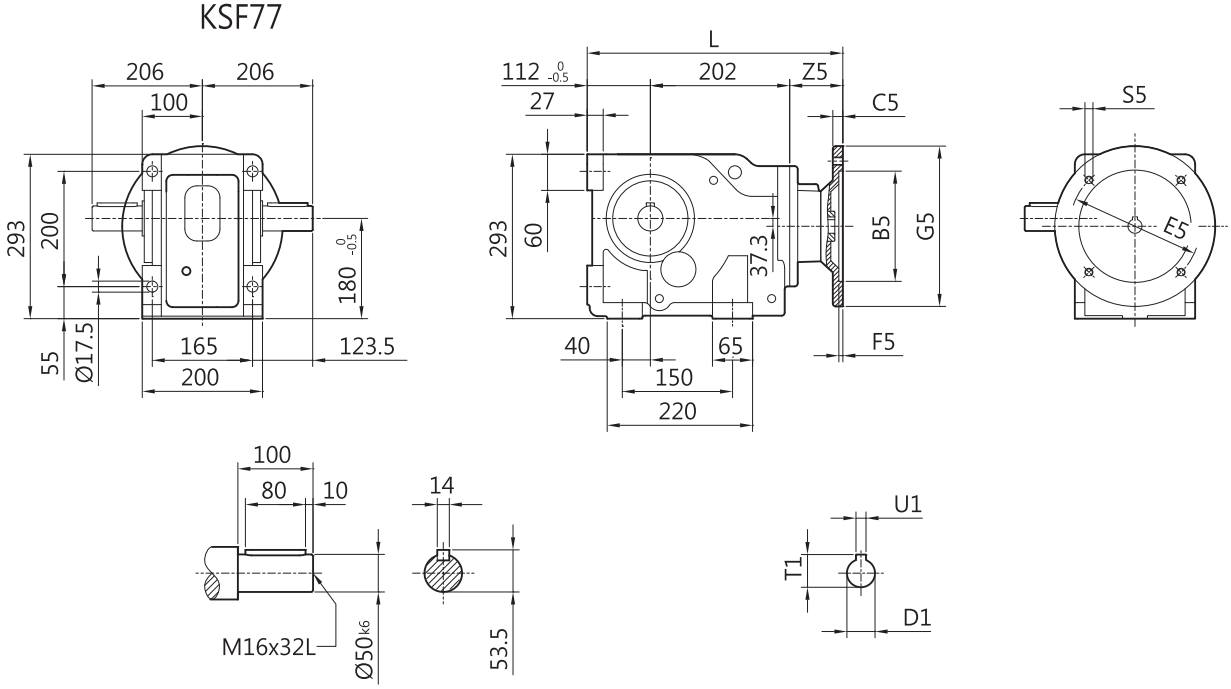
IEC 71	110	10	130	4	160	319.5	M8	46.5	14	16.3	5
IEC 80	130	12	165	5	200	337.5	M10	64.5	19	21.8	6
IEC 90	130	12	165	5	200	337.5	M10	64.5	24	27.3	8
IEC 100	180	15	215	5	250	354	M12	81	28	31.3	8
IEC 112	180	15	215	5	250	354	M12	81	28	31.3	8

KSF77



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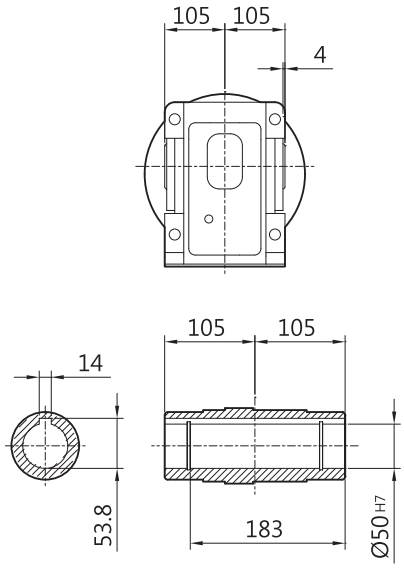

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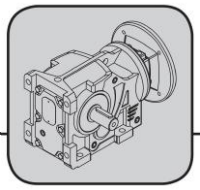
IEC 90	130	12	165	5	200	373	M10	59	24	27.3	8
IEC 100	180	15	215	5	250	389.5	M12	75.5	28	31.3	8
IEC 112	180	15	215	5	250	389.5	M12	75.5	28	31.3	8
IEC 132	230	16	265	6	300	438	M12	124	38	41.3	10



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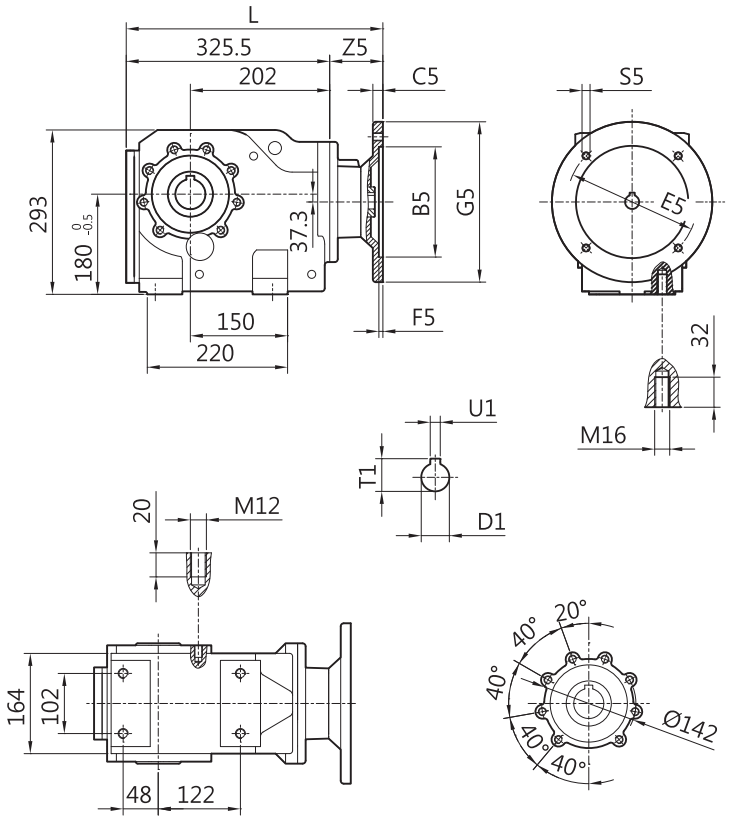

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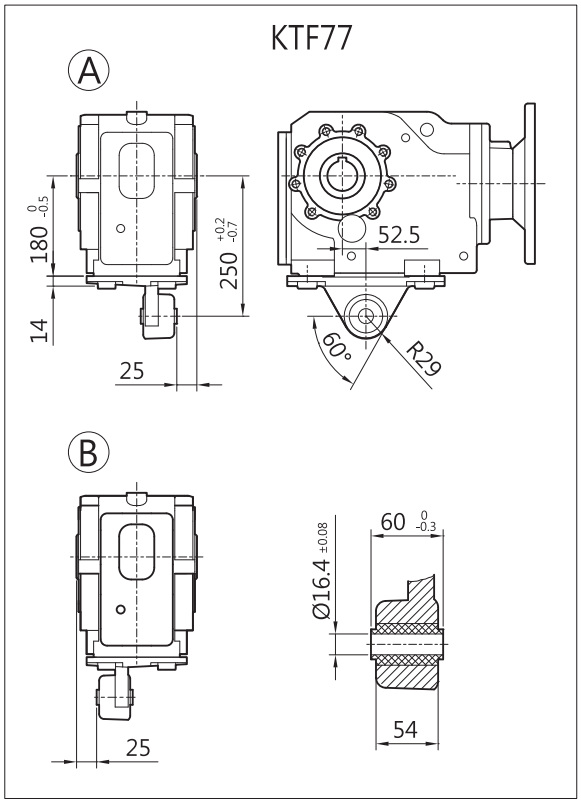

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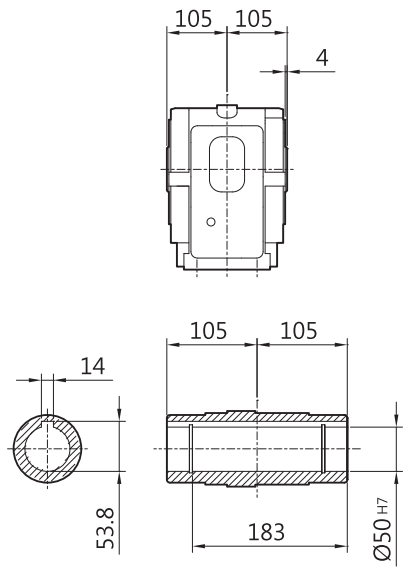

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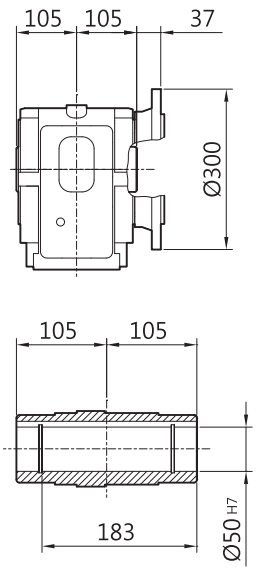

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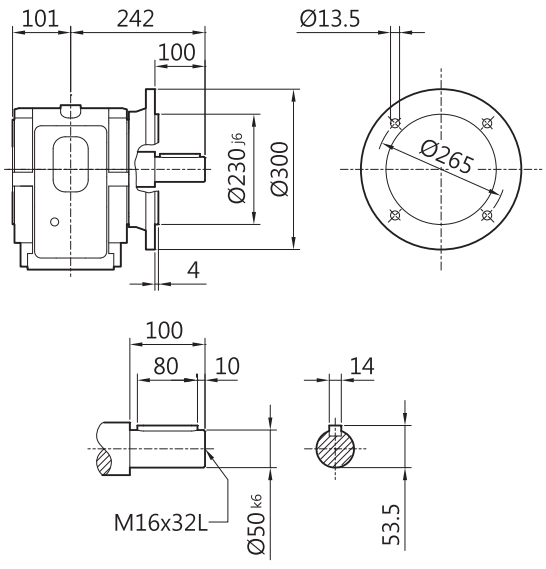

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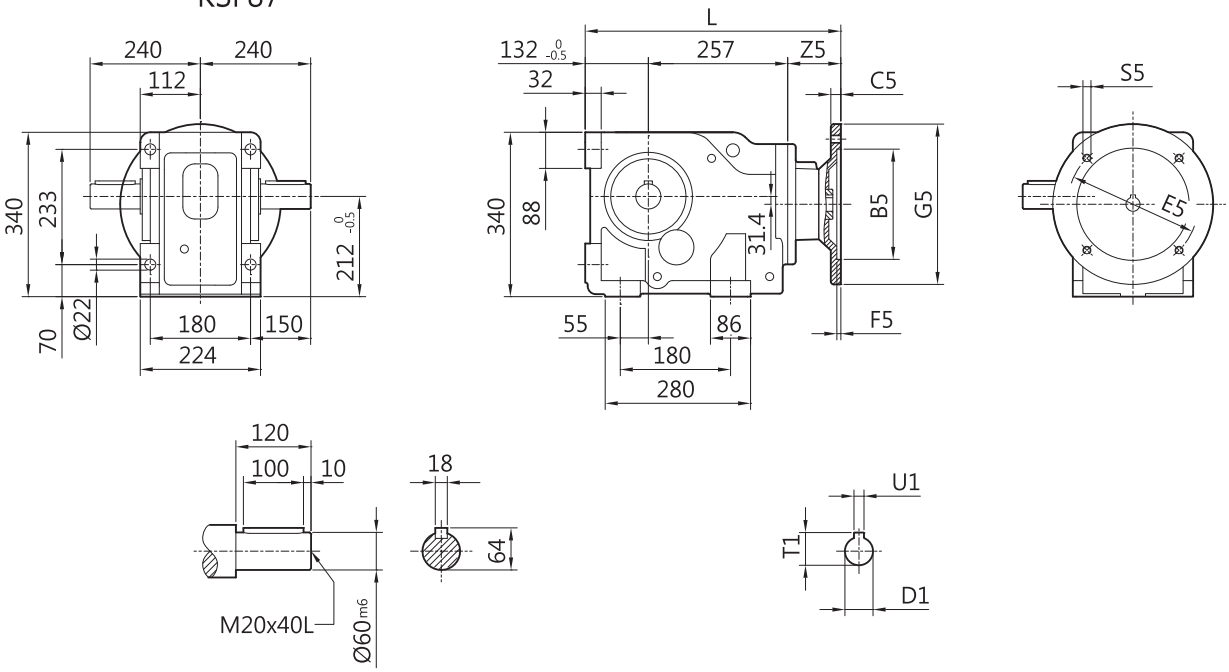
IEC 90	130	12	165	5	200	384.5	M10	59	24	27.3	8
IEC 100	180	15	215	5	250	401	M12	75.5	28	31.3	8
IEC 112	180	15	215	5	250	401	M12	75.5	28	31.3	8
IEC 132	230	16	265	6	300	449.5	M12	124	38	41.3	10

KSF87



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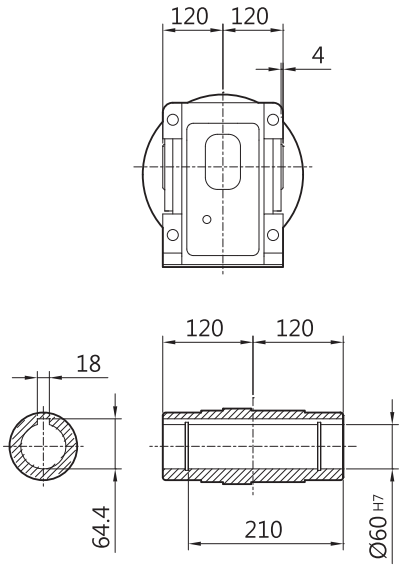

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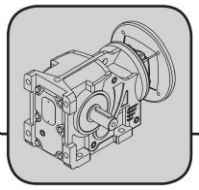
IEC 90	130	12	165	5	200	438.5	M10	49.5	24	27.3	8
IEC 100	180	15	215	5	250	455	M12	66	28	31.3	8
IEC 112	180	15	215	5	250	455	M12	66	28	31.3	8
IEC 132	230	16	265	6	300	503.5	M12	114.5	38	41.3	10
IEC 160	250	20	300	6	350	539.5	M16	150.5	42	45.3	12



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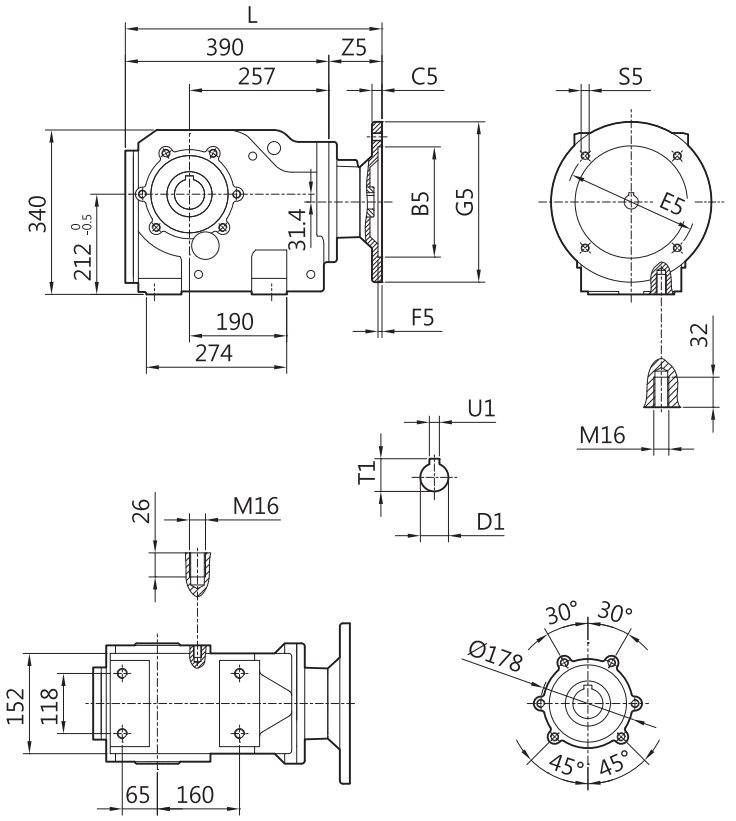

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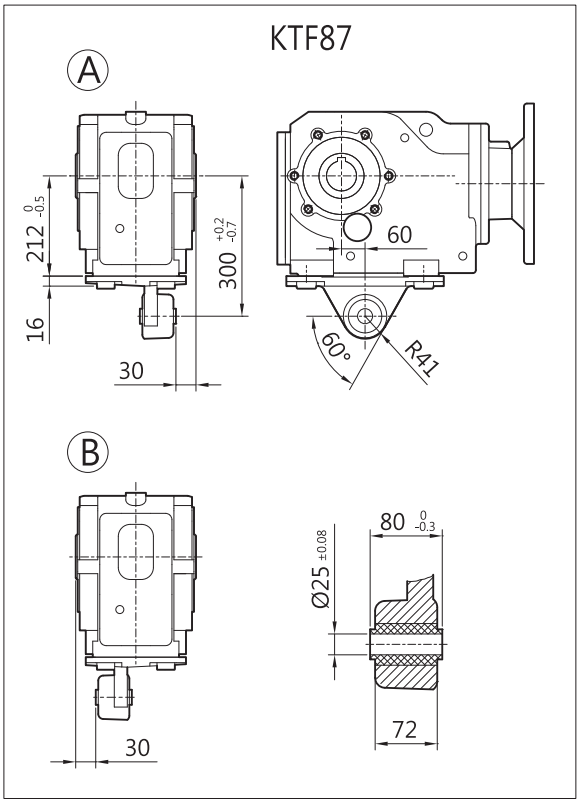

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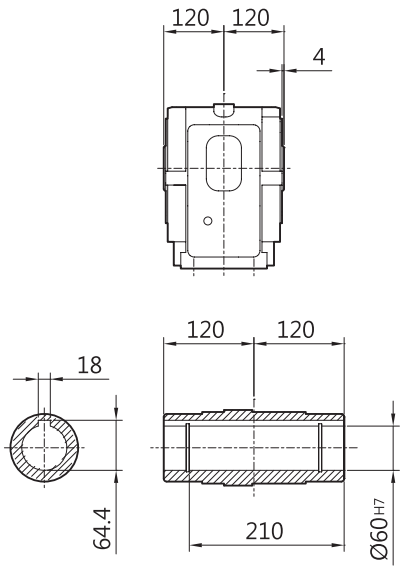

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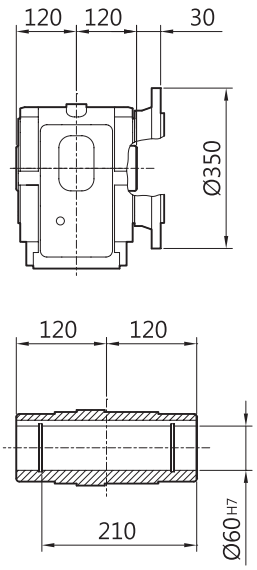

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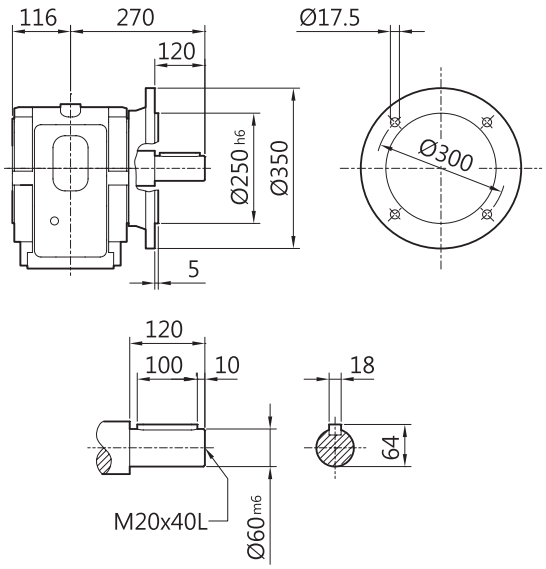

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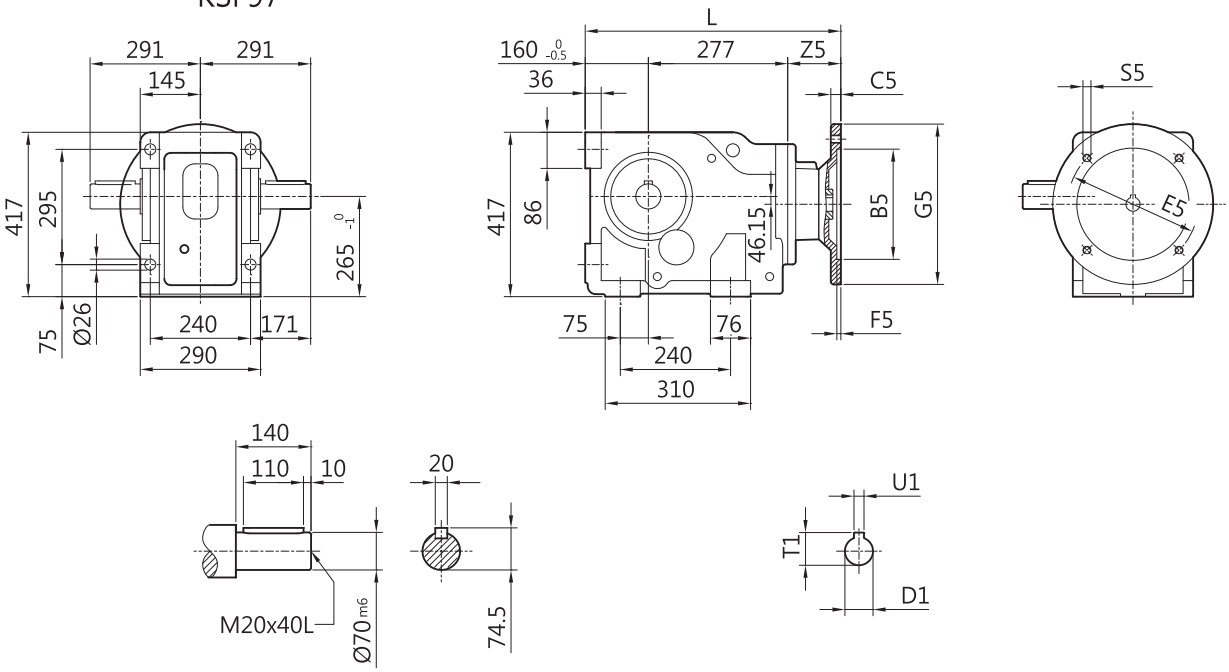
IEC 90	130	12	165	5	200	439.5	M10	49.5	24	27.3	8
IEC 100	180	15	215	5	250	456	M12	66	28	31.3	8
IEC 112	180	15	215	5	250	456	M12	66	28	31.3	8
IEC 132	230	16	265	6	300	504.5	M12	114.5	38	41.3	10
IEC 160	250	20	300	6	350	540.5	M16	150.5	42	45.3	12

KSF97



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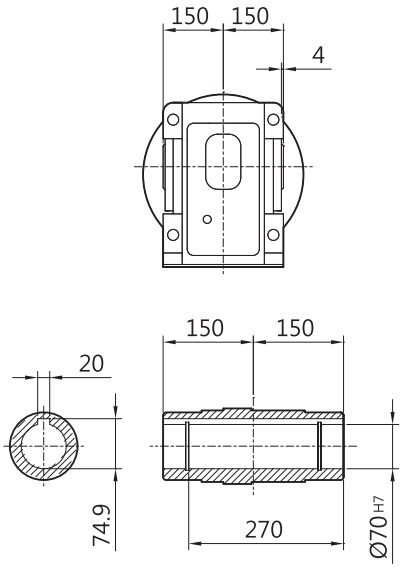

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IEC 112	180	15	215	5	250	499	M12	62	28	31.3	8
IEC 132	230	16	265	6	300	543.5	M12	106.5	38	41.3	10
IEC 160	250	20	300	6	350	579.5	M16	142.5	42	45.3	12
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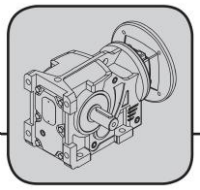

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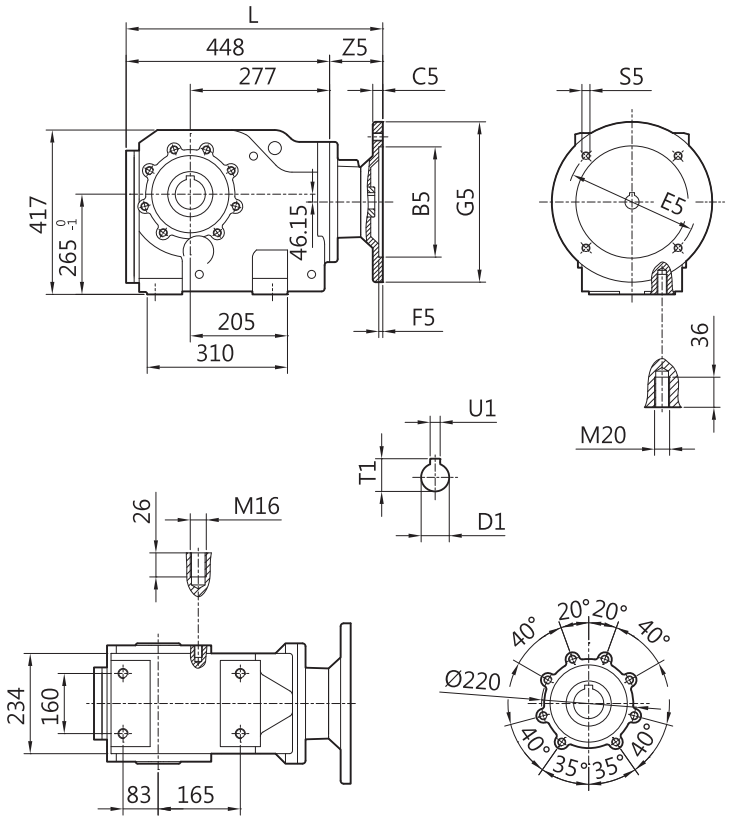

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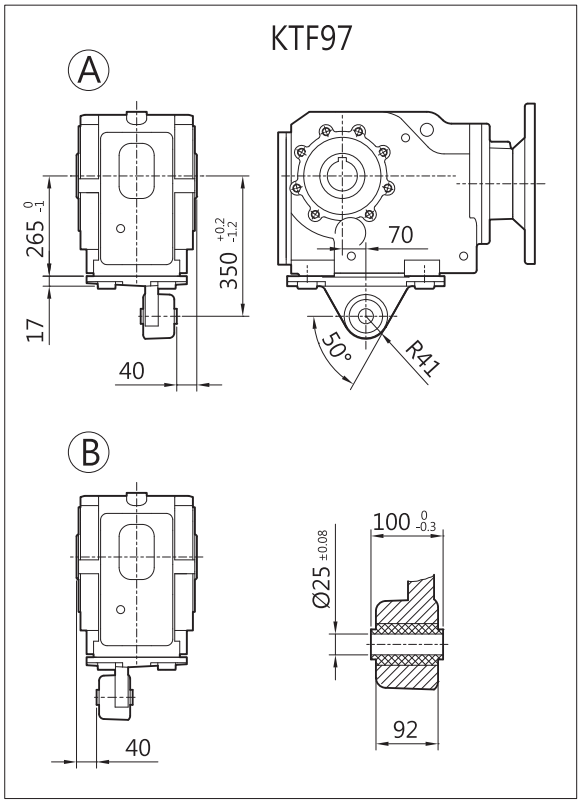

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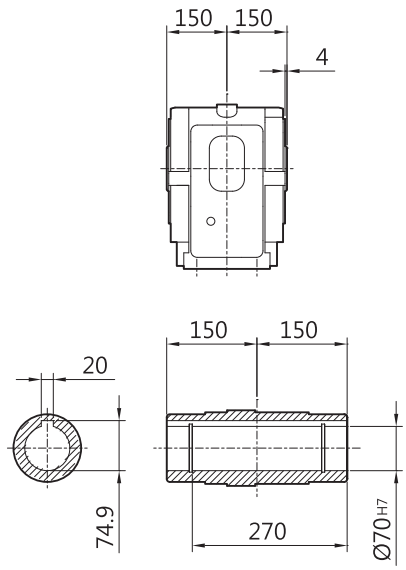

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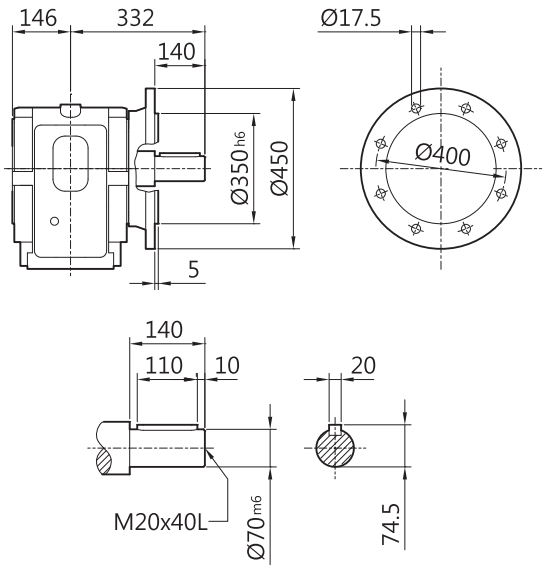

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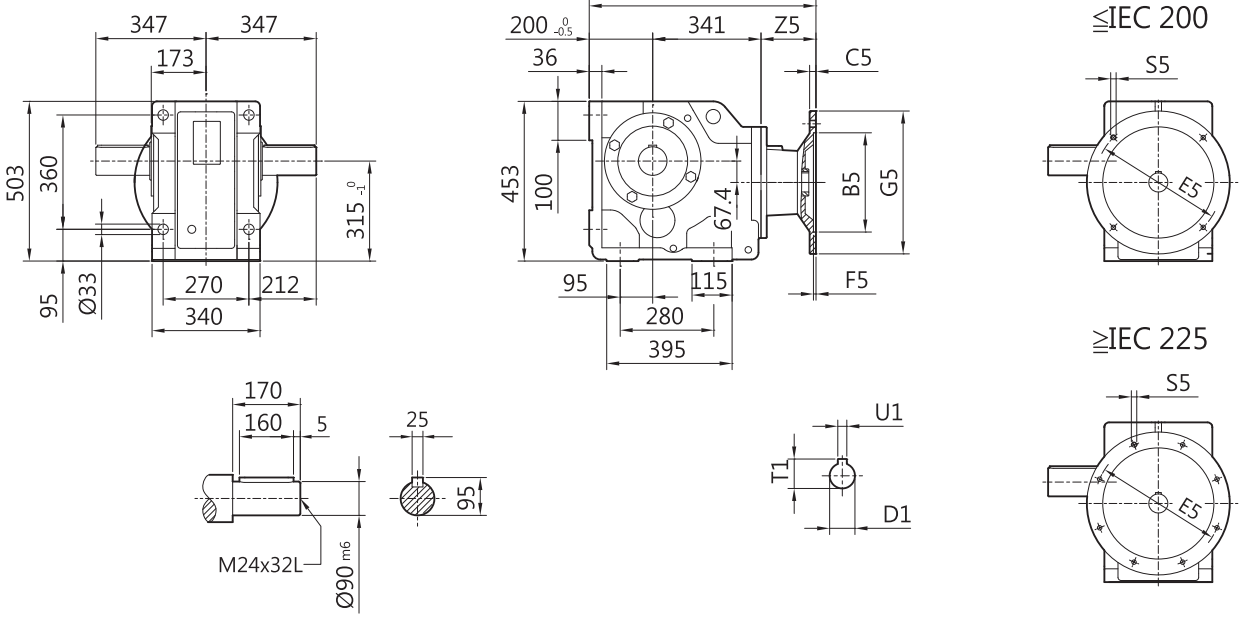
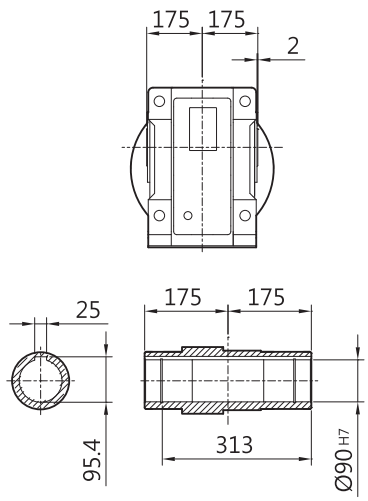
IEC 112	180	15	215	5	250	510	M12	62	28	31.3	8
IEC 132	230	16	265	6	300	554.5	M12	106.5	38	41.3	10
IEC 160	250	20	300	6	350	590.5	M16	142.5	42	45.3	12
IEC 180	250	20	300	6	350	599.5	M16	151.5	48	51.8	14

KSF107



KHF107



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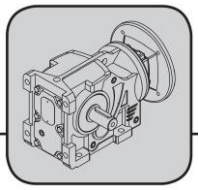
IEC 112	180	15	215	5	250	603	M12	62	28	31.3	8
IEC 132	230	16	265	6	300	638	M12	97	38	41.3	10
IEC 160	250	20	300	6	350	674	M16	133	42	45.3	12
IEC 180	250	20	300	6	350	683	M16	142	48	51.8	14
IEC 200	300	20	350	6	400	683	M16	142	55	59.3	16
IEC 225	350	20	400	6	450	714	M16	173	60	64.4	18



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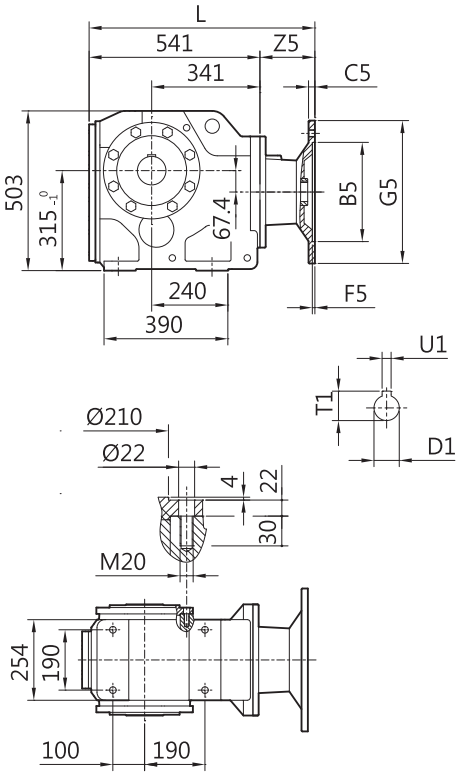
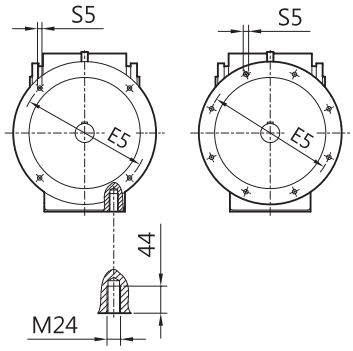
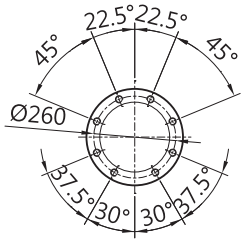


≦IEC 200 ≧IEC 225





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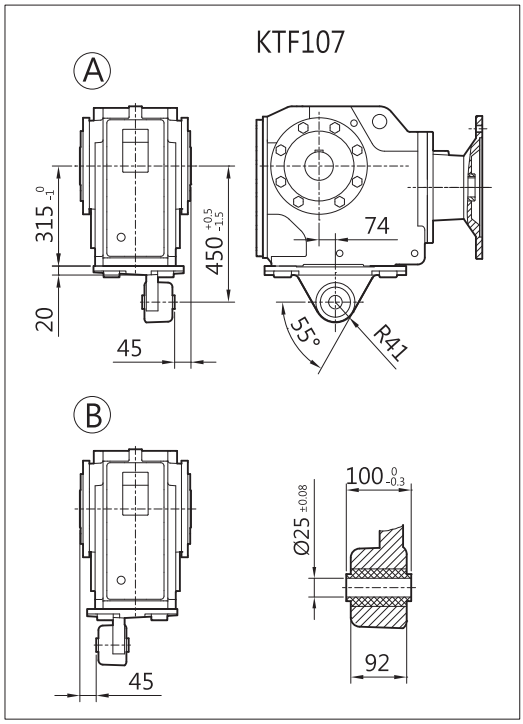

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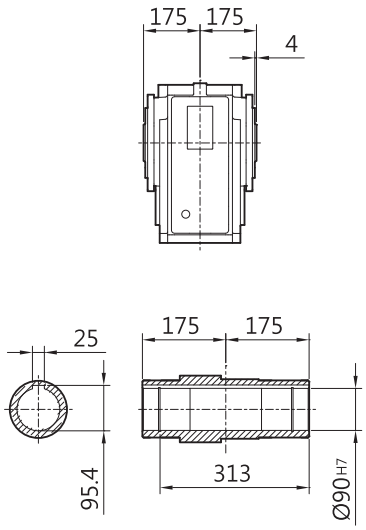

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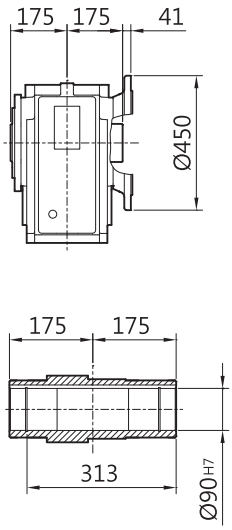

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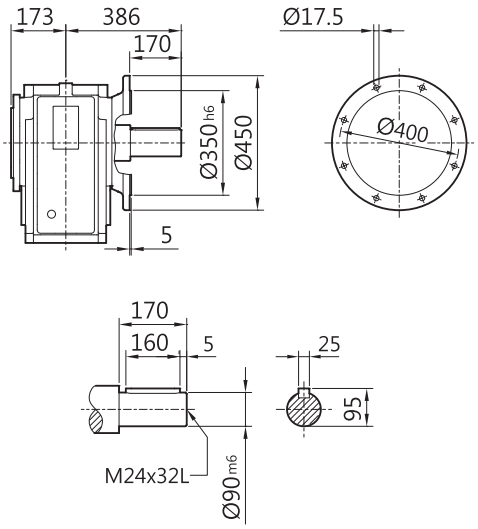


	B5	C5	E5	F5	G5	L	S5	Z5	D1	T1	U1
IEC 100	180	15	215	5	250	603	M12	62	28	31.3	8
IEC 112	180	15	215	5	250	603	M12	62	28	31.3	8
IEC 132	230	16	265	6	300	638	M12	97	38	41.3	10
IEC 160	250	20	300	6	350	674	M16	133	42	45.3	12
IEC 180	250	20	300	6	350	683	M16	142	48	51.8	14
IEC 200	300	20	350	6	400	683	M16	142	55	59.3	16
IEC 225	350	20	400	6	450	714	M16	173	60	64.4	18

Solid Input Shaft

K..S

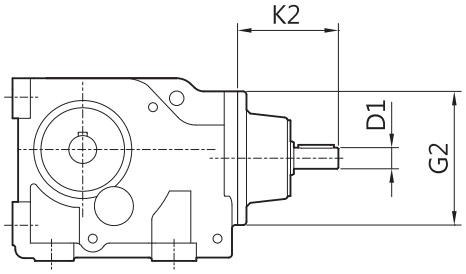
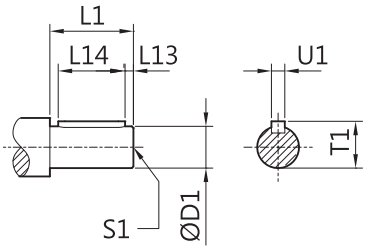


FIG 1



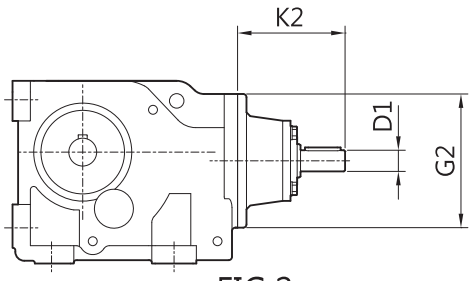
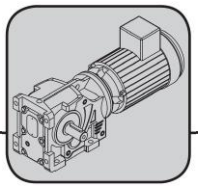


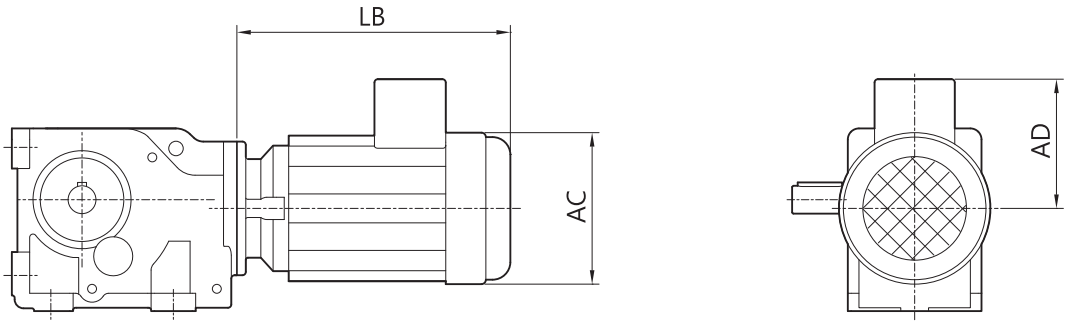
FIG 2

	D1	L1	L13	L14	T1	U1	S1	K2	G2	FIG
K..37	16 k6	40	4	32	18	5	M5*10L	88	120	1
	19 k6	40	4	32	21.5	6	M6*12L	90.5	120	1
K..47	16 k6	40	4	32	18	5	M5*10L	83.5	160	1
	19 k6	40	4	32	21.5	6	M6*12L	86	160	1
K..57	19 k6	40	4	32	21.5	6	M6*12L	95	160	2
	24 k6	50	5	40	27	8	M8*16L	119.5	160	2
K..67	19 k6	40	4	32	21.5	6	M6*12L	95	160	2
	24 k6	50	5	40	27	8	M8*16L	119.5	160	2
K..77	19 k6	40	4	32	21.5	6	M6*12L	89.5	200	2
	19 k6	40	4	32	21.5	6	M6*12L	106	200	2
	24 k6	50	5	40	27	8	M8*16L	114	200	2
	38 k6	80	5	70	41	10	M12*24L	177	200	2
K..87	19 k6	40	4	32	21.5	6	M6*12L	95.5	250	2
	28 k6	60	5	50	31	8	M8*16L	114.5	250	2
	38 k6	80	5	70	41	10	M12*24L	167.5	250	2
	42 k6	110	10	70	45	12	M16*32L	240.5	250	2
K..97	28 k6	60	5	50	31	8	M8*16L	110.5	300	2
	38 k6	80	5	70	41	10	M12*24L	159.5	300	2
	42 k6	110	10	70	45	12	M16*32L	232.5	300	2
	48 k6	110	10	80	51.5	14	M16*32L	237.5	300	2
K..107	28 k6	60	5	50	31	8	M8*16L	110.5	350	2
	38 k6	80	5	70	41	10	M12*24L	150	350	2
	42 k6	110	10	70	45	12	M16*32L	223	350	2
	48 k6	110	10	80	51.5	14	M16*32L	228	350	2



Couple With Motor

K..M

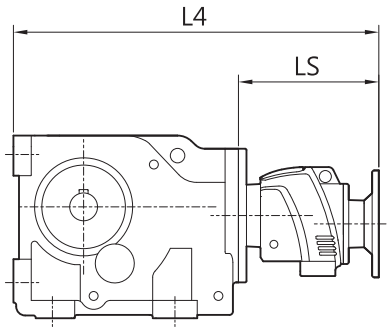


	MOTOR	AC	AD	LB
K..37	63	130	115	230
	71	145	125	255
	80	160	135	295
	90	180	145	360
K..47	63	130	115	230
	71	145	125	255
	80	160	135	295
	90	180	145	360
	100	205	170	380
K..57	63	130	115	230
	71	145	125	255
	80	160	135	295
	90	180	145	360
	100	205	170	380
	112	245	180	400
K..67	63	130	115	230
	71	145	125	255
	80	160	135	295
	90	180	145	360
	100	205	170	380
	112	245	180	400
K..77	80	160	135	295
	90	180	145	360
	100	205	170	380
	112	245	180	400
	132S	267	190	460

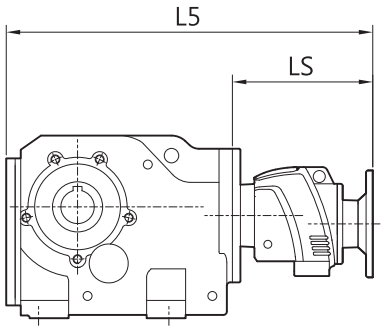
	MOTOR	AC	AD	LB
K..87	80	160	135	295
	90	160	145	360
	100	205	170	380
	112	245	180	400
	132S	267	190	460
	132M	267	255	500
	160M	334	263	542
K..97	100	205	170	380
	112	245	180	400
	132S	267	190	460
	132M	267	255	500
	160M	334	263	542
	160L	334	286	586
	180MC	382	305	607.5
K..107	100	198	149	369
	112	245	180	400
	132S	267	190	460
	132M	267	255	500
	160M	334	263	532.5
	160L	334	286	576.5
	180MC	382	305	598
	180LC	382	305	636
	200LC	458	362	713

Multi-Staged Gear Unit

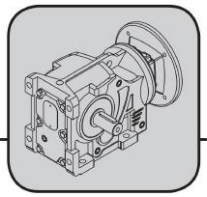
KSF/KHF



KAF/KMF/KNF

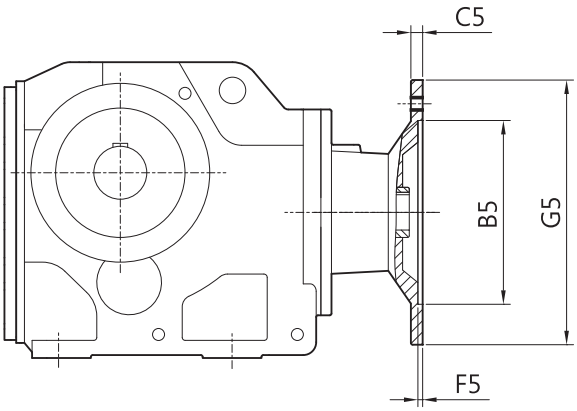


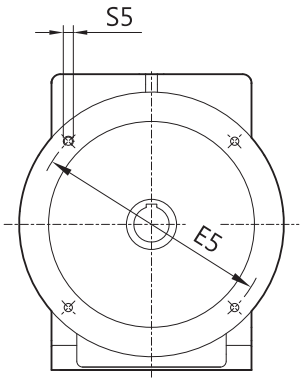
		LS	L4	L5
K..47R37	IEC 63	219	456	458
	IEC 71	219	456	458
	IEC 80	237	474	476
	IEC 90	237	474	476
K..57R37	IEC 63	217	470	475
	IEC 71	217	470	475
	IEC 80	235	488	493
	IEC 90	235	488	493
K..67R37	IEC 63	217	486	490
	IEC 71	217	486	490
	IEC 80	235	504	508
	IEC 90	235	504	508
K..77R37	IEC 63	211.5	525.5	537
	IEC 71	211.5	525.5	537
	IEC 80	229.5	543.5	555
	IEC 90	229.5	543.5	555
K..87R47	IEC 63	241.5	630.5	631.5
	IEC 71	241.5	630.5	631.5
	IEC 80	259.5	648.5	649.5
	IEC 90	259.5	648.5	649.5
	IEC 100	276	665	666
	IEC 112	276	665	666
K..97R47	IEC 63	233.5	670.5	681.5
	IEC 71	233.5	670.5	681.5
	IEC 80	251.5	688.5	699.5
	IEC 90	215.5	688.5	699.5
	IEC 100	268	705	716
	IEC 112	268	705	716
K..107R77	IEC 71	290.5	831.5	831.5
	IEC 80	298.5	839.5	839.5
	IEC 90	298.5	839.5	839.5
	IEC 100	315	856	856
	IEC 112	315	856	856
	IEC 132S	363.5	904.5	904.5



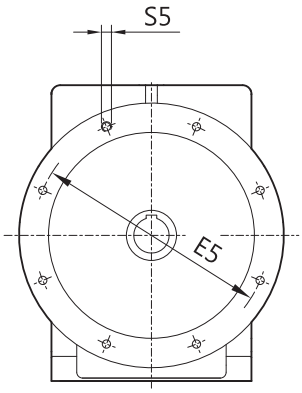
Input Flanges

K..F

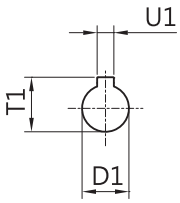




≦ 180LC



≧ 200LC



HP - 4P	IEC Frame	B5	C5	E5	F5	G5	S5	D1	T1	U1
0.25	63	110	10	130	4	160	M8	11	12.8	4
0.5	71	110	10	130	4	160	M8	14	16.3	5
1	80	130	12	165	5	200	M10	19	21.8	6
2	90L	130	12	165	5	200	M10	24	27.3	8
3	100L	180	15	215	5	250	M12	28	31.3	8
5	112M	180	15	215	5	250	M12	28	31.3	8
7.5	132S	230	16	265	6	300	M12	38	41.3	10
10	132M	230	16	265	6	300	M12	38	41.3	10
15	160M	250	20	300	6	350	M16	42	45.3	12
20	160L	250	20	300	6	350	M16	42	45.3	12
25 / 30	180MC	300	20	350	6	400	M16	48	51.8	14
40	180LC	300	20	350	6	400	M16	55	59.3	16
50 / 60	200LC	350	20	400	6	450	M16	60	64.4	18
75	225SC	450	22	500	6	550	M16	65	69.5	18
100	250SC	450	22	500	6	550	M16	75	79.9	20

This dimensional table is with specific frame sizes for TECO motor.
For international IEC motor dimensions please refer to the specification on each page of dimension sheet.

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