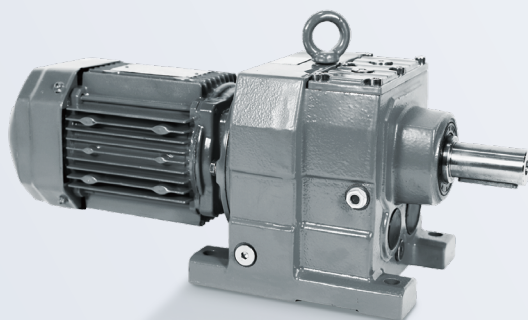


Industry Standard

DX-Series

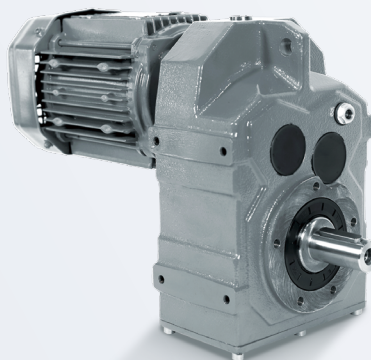
DR-Series

HELICAL GEARED MOTORS



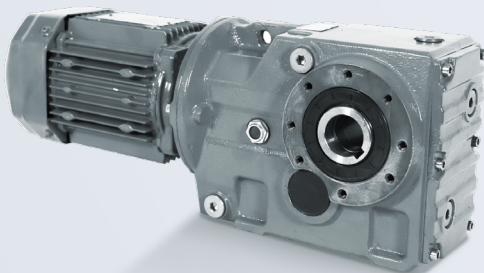
DF-Series

PARALLEL SHAFT HELICAL GEARED MOTORS



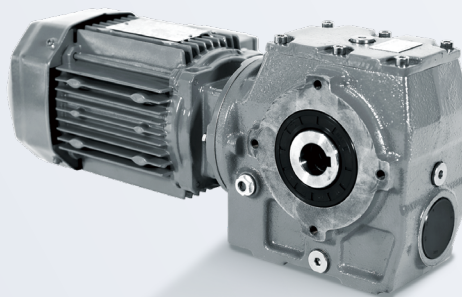
DK-Series

HELICAL BEVEL GEARED MOTORS



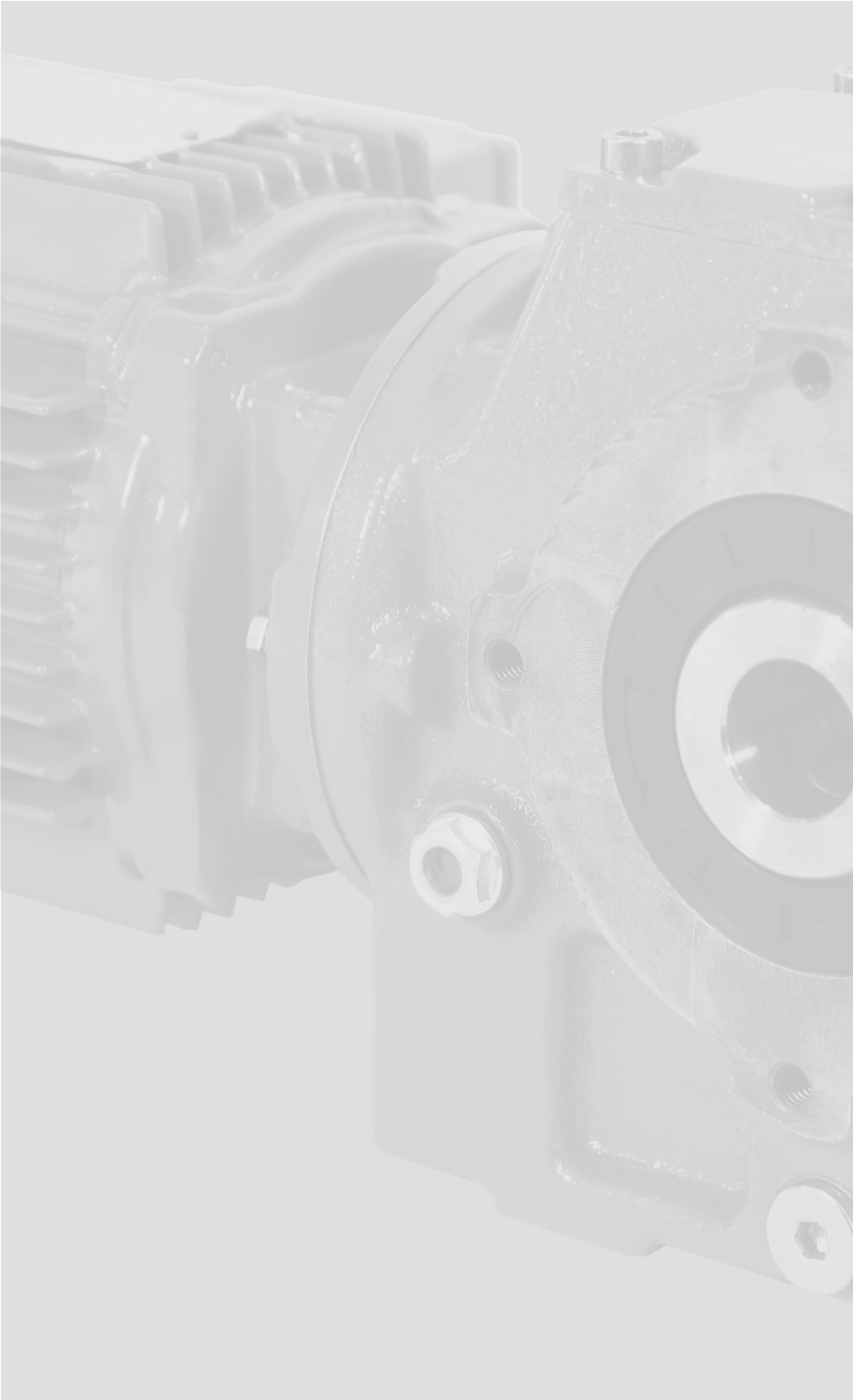
DS-Series

HELICAL WORM GEARED MOTORS



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1 기본 정보

Basic Information

1 소개 Introduction

- 다양한 사이즈, 폭넓은 감속비 Various Size, Wide Ratio**
 사용조건, 용도에 맞는 정확한 감속 비율과 다양한 사이즈를 제공하여 소비자의 요구를 충족 시킵니다.
 It should meet needs of consumers by providing precise ratios and various sizes to fit purpose and working condition.
- 높은 호환성 Highly Compatible Style**
 새롭게 출시한 DR/DF/DK/DS-Series는 유럽형 감속기 형태로 제작되어 수입품과 높은 호환성을 갖습니다.
 DR/DF/DK/DS-series have high compatibility with European imports by being designed in European style.
- 저소음, 원활한 운전 Low Noise, Quiet Operation**
 저소음 저진동을 실현하기 위해 소음의 원인을 해석하였으며, 이상 치차 사양에 가깝도록 Gear와 Case의 가공 정도를 향상 하였습니다.
 Reduction in noise and vibration is achieved with complete low-noise, design which consists of superb pinion, high precision gear and gear case.
- 전 제품 IEC-Flange 호환 Assemble with IEC-Flange Motor**
 고객의 다양한 니즈에 맞추어 여러 모터 메이커/옵션에 대응하기 위해 제품에 IEC FLANGE를 장착할 수 있도록 제작하였습니다.
 All items can be assembled with IEC Flange to meet the needs of customer and to handle the various motor maker and options.

2 사용 환경 Working Environment



주위 온도
Ambient temperature
-10°C ~ 40°C



습도
Ambient humidity
80% 이하
Under 80%

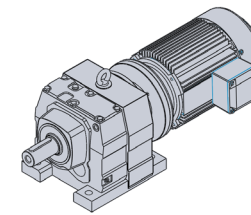


진동이 없는 곳에 설치한다.
The mounting on the machine must be able to avoid any vibration.

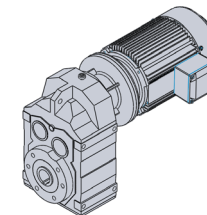


입력 회전 속도가 1,800rpm을 넘는 경우, 당사 기술팀과 상담후 선정하시기 바랍니다.
In case of exceed 1800rpm, Please contact our Technical Service Team.

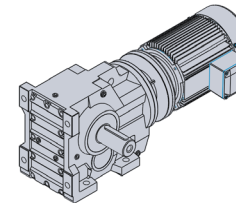
3 제품 유형 Geared Motor Type



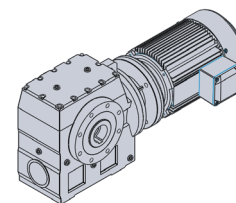
플랜지 (Flange)	감속비 (Ratio)	전압 (Voltage)	옵션 (Option)
DR F 87	- 41.74	/ 2.2kw - 380V - 60Hz	(*) / AC-B
형식 (Type)	형번 (Frame)	모터 용량 (Motor Capacity)	주파수 (Frequency) 브레이크 표시 (Brake Option)



플랜지 (Flange)	감속비 (Ratio)	전압 (Voltage)	옵션 (Option)
DF F 97	- 20.07	/ 22kw - 380V - 60Hz	(*) / AC-B
형식 (Type)	형번 (Frame)	모터 용량 (Motor Capacity)	주파수 (Frequency) 브레이크 표시 (Brake Option)



플랜지 (Flange)	감속비 (Ratio)	모터 용량 (Motor Capacity)	주파수 (Frequency)	브레이크 표시 (Brake Option)
DK F 87	- 31.38	(A) / 11kw	- 380V - 60Hz	(*) / AC-B
형식 (Type)	형번 (Frame)	출력축 방향 (Shaft Directoin)	전압 (Voltage)	옵션 (Option)



플랜지 (Flange)	감속비 (Ratio)	모터 용량 (Motor Capacity)	모터 주파수 (Frequency)	브레이크 표시 (Brake Option)
DS F 67	- 29.63	(A) / 2.2kw	- 2/3V - 60Hz	(*) / AC-B
형식 (Type)	형번 (Frame)	출력축 방향 (Shaft Directoin)	모터 전압 (Voltage)	옵션 (Option)

4 옵션 Geared Motor type and Option

T

토크암
Torque Arm

INV

인버터용 모터
Use for Inverter

HL

수동해방
Hand Lever Brake

AF

타력팬
Axial Fan

EN

엔코더
Encoder

2 감속기 선정

Selection Of Geared Motor

1 데이터 수집 Data collection

- 1 **용도 Usage**
설비 종류
Equipment categories
- 2 **필요 속도 Required speed**
반송물의 속도와 감속기의 요구 속도
Speed of transported material and required rpm of the geared motor
- 3 **필요 용량 Required power**
반송물을 움직이는데 필요한 모터의 용량
Necessary capacity of the geared motor to move the transported material
- 4 **기동 정지 빈도 Frequency of starting and stopping**
기동 정지 횟수/시간
starting and stopping frequency/hr
- 5 **일일 사용 시간 Daily usage time**
- 6 **축단하중과 축방향 하중의 검토 Review of radial load and axial load**
- 7 **구동방식 Drive method**
스프라켓, 체인, 벨트 등
Sprocket, Chain, Belt, etc.

2 감속비 Ratio

필요로 하는 출력 축 회전 수에 맞는 감속비를 구하고 감속비의 결정은 특성 표를 참조해주시기 바랍니다.
Calculate the reduction ratio from required output speed. Please refer to the characteristic table.

3 출력의 선정 Motor capacity selection

출력 토크와 감속비를 만족하는 모터 출력을 선정합니다.
Select necessary output torque and power that fits the ratio.

4 부하의 관성[GD²] Moment of inertia

- 1 부하의 관성이 큰 경우에는 시동 및 브레이크의 정지 시에 큰 부하가 발생하여 예상치 못한 사고의 원인이 되므로 부하의 관성과 시동 빈도에 의해 검토해 주십시오.
If the inertia of the load is large, consider the inertia of the load and the frequency of the start as it causes an unexpected accident due to a large load during start-up and brake stop.

- 2 **Motor-축 환산 부하 관성: GD_L²을 구해 주십시오.**
Moment inertia of motor shaft : calculate GD_L²

$$GD_L^2 = \frac{GD^2}{R^2} \quad R : \text{감속비}$$

- 3 위의 '3. 출력의 선정' 에서 정한 출력의 모터 축 환산 부하 관성(GD_M²)을 표3 에서 구합니다.
The load inertia (GD_M²) in terms of the motor axis of the output specified in '3. Motor capacity selection' above is obtained in Table 3 below.

표3 전동기 용량별 GD_M² (예시) Table 3 GD_M² by Motor capacity 단위: kgf·m²

용량(Kw)	0.4kw	0.75kw	1.5kw	2.2kw	3.7kw
GD _M ²	0.0035	0.0087	0.0165	0.0277	0.0613

- 4 **질량 가속 계수 M을 구해주십시오.**
Calculate mass acceleration factor M.

$$M = GD_L^2 / GD_M^2$$

M : 질량 가속 계수 Mass acceleration factor
GD_L² : 부하축 관성 모멘트 Load inertia
GD_M² : 모터의 관성 모멘트 Motor inertia

5

기계의 안전을 계산 Determining the service factor for a driven machine (f_A)

1

기계의 안전계수(f_A)는 부하 종류, 기동 빈도, 일일 가동 시간에 의해 결정 된다.

The service factor of the driven machine f_A is determined from the load classification, switching frequency, and operating period per day. Load groups of driven machines.

부하 구분 Load classification

- | | |
|------------------------------------|--|
| (I) 균일 부하, 질량 가속 계수 $M \leq 0.2$ | (I) Uniform load, mass acceleration factor $M \leq 0.2$ |
| (II) 경부하, 질량 가속 계수 $M \leq 3$ | (II) Medium Impact Load, mass acceleration factor $M \leq 3$ |
| (III) 중부하, 질량 가속 계수 $M \leq 10$ | (III) Heavy shock Load, mass acceleration factor $M \leq 10$ |

질량가속계수>10일 경우 당사 기술팀에 연락하세요.

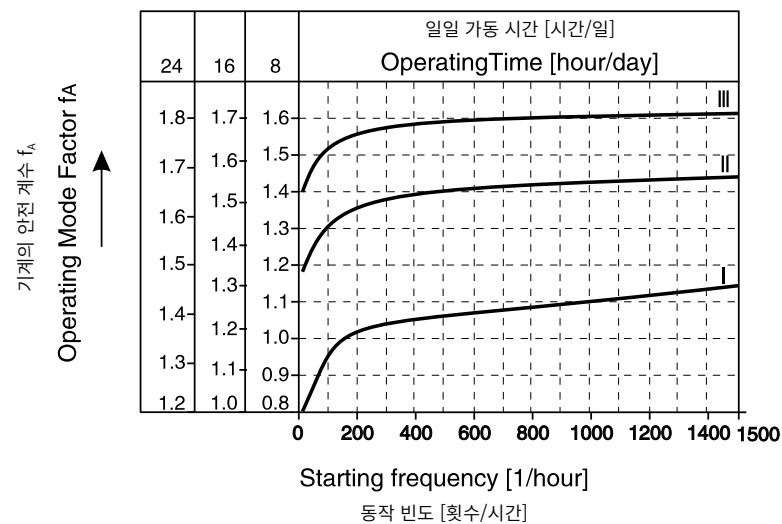
Please contact our Technical Service Team in case of the mass acceleration factor>10.

2

표4를 활용하여 기계의 안전계수 f_A 를 결정하고 f_A 보다 큰 값의 안전계수 f_B 를 가진 감속기를 선정 한다.

After determining the service factor(f_A) of driven machine, select of the service factor(f_B) of geared motor greater than f_A .

표4 안전 계수(f_A) 선정 표



6

윤활유 점검사항 Oil Inspection

1

공기압 밸브 위치 점검 Check the position of breather valve

주문한 제품의 설치위치와 공급받은 제품의 공기압 밸브 위치가 일치하는지 반드시 확인하고 작동하시기 바랍니다.

Please ensure that the installation location of the ordered product matches the position of the supplied product's breather valve before operating it

2

윤활유 레벨 점검 Check the oil level

작동하기 전에 감속기 내부의 윤활유가 적정량 주입되었는지 점검하십시오.

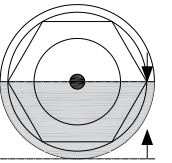
Before operating, please check if the appropriate amount of lubricant has been injected into the gearbox.

특별한 설치 위치가 아니라면 윤활유의 레벨은 왼쪽 그림과 같은 범위 내에 있어야 합니다.

Unless there is a special installation requirement, the lubricant level should be within the range depicted in the left diagram.

- 윤활유의 레벨이 낮은 경우 동일한 종류의 새 오일을 상단 공기압 밸브를 열어서 추가로 주입하시기 바랍니다.

If the lubricant level is low, please add the same type of oil by opening the upper breather valve and injecting it.



7

제품의 설치 Installation of Geared Motor

1

출력축의 공차 Tolerance of the output shaft

중실축(solid shaft)

축경 $\leq 50\text{mm}$, ISO k6

축경 $>50\text{mm}$, ISO m6

Shaft diameter $\leq 50\text{mm}$, ISO k6

Shaft diameter $>50\text{mm}$, ISO m6

중공축(Hollow shaft)

전제품 ISO H7

All hollow shaft is ISO H7

2

중실축 설치 주의 사항 Solid shaft installation precautions.

그림 B와 같이 설치하여 출력축에 가해지는 축단하중이 축의 중심을 벗어나지 않도록 주의하십시오.

Please install it as shown in Figure B, ensuring that the axial loads applied to the output shaft do not deviate from the center of the shaft.

축의 중심을 벗어날 경우에는 '8. 축단하중'에서 축 중앙이 아닌 경우의 허용축단하중 값으로 환산하여 계산하시기 바랍니다.

If the load deviates from the center of the shaft, please calculate the permissible axial load using the value specified for cases where the load is not applied at the center of the shaft, as mentioned in section 8 Overhung Load.

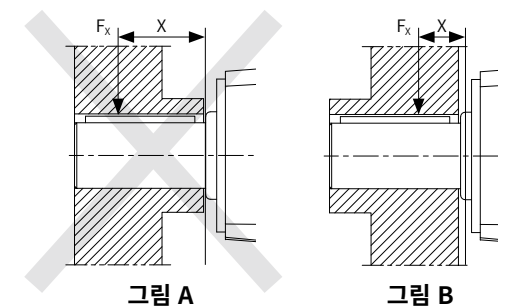


그림 A

그림 B

3

중공축 설치 주의 사항 Hollow shaft installation precautions.

- 중공축 Type 제품의 설치전에 접촉 부식 방지제(G6)를 사용해야 보전이 용이합니다.
Before the installation of hollow shaft, Use G6 (Corrosion protective material) to increase preservation
- 사용자의 축 key size(X)는 도화된 그림의 DK보다 커야 합니다
Users' Key size(X) must be longer than DK on below figure.

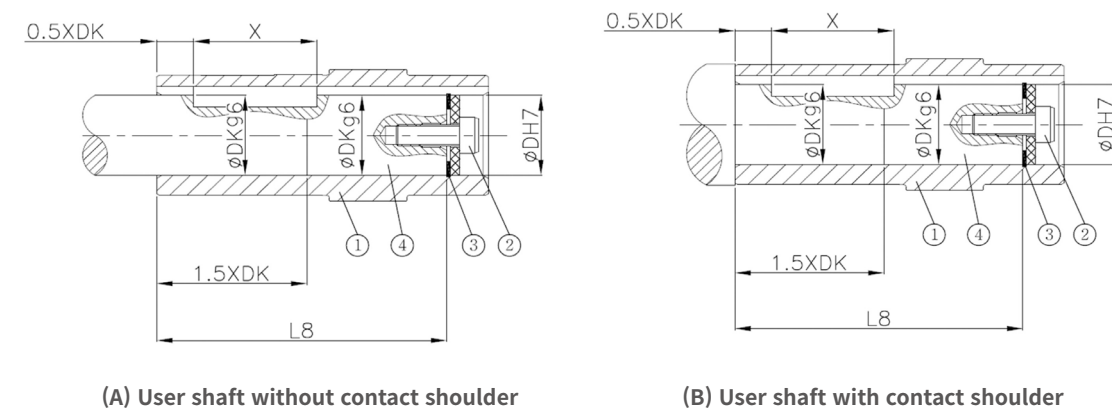
당사의 표준 체결 방식(DSK standard fastening)

contact shoulder가 없는 사용자의 shaft의 길이는 그림(A)에서 L8과 같아야 합니다.

The installation length of customer shaft without contact shoulder(A) must be L8

contact shoulder가 있는 사용자의 shaft의 길이는 그림(B)에서 L8-1mm 이어야 합니다.

The installation length of customer shaft with contact shoulder(B) must be L8-1mm



- ① Hollow shaft
- ② Retaining screw with washer
- ③ Circlip
- ④ Customer shaft

- Retaining screw는 아래 Table MS에 주어진 Torque로 체결되어야 합니다.
Retaining screw must be tightened to the torque provided in Table MS.

Screw	MS[Nm]
M5	5
M6	8
M10	20
M12	20
M16	40
M20	80
M24	200

8

축단하중 Overhung Load

1

기어드모터 출력축에 작용하는 Overhung load는 아래와 같습니다.

Overhung load on the output shaft of G/M is shown below.

$$F_R = M_d \cdot \frac{2000}{d_o} \cdot f_z$$

F_R : Overhung load [N]
 M_d : Torque [Nm]
 d_o : 출력축에 연결되는 전달장치의 PCD [mm]
 PCD of power transmission unit connected to output shaft
 f_z : 전달장치에 따른 계수 Transmission element factor

2

Overhung load는 출력축에 부착된 연결 방식의 종류에 따른 구분이 필요 합니다.

이에 대한 계수는 f_z 로 아래 표를 참고해주세요.

Considering Overhung load, the transmission devices attached to the output shaft must be considered.

f_z factor for transmission devices is shown in the following table.

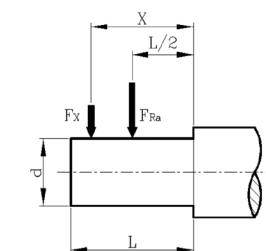
연결 방식 Delivery Devices	계수 f_z f_z factor	비고 Remarks
Gears	1.15	< 17 teeth
Chain sprockets	1.4	< 13 teeth
Chain sprockets	1.25	< 20 teeth
Narrow V-belt pulleys	1.75	Pre-tensioning influence
Flat belt pulleys	2.5	Pre-tensioning influence
Toothed belt pulleys	2.0-2.5	Pre-tensioning influence

3

축단하중 작용점이 축 중앙이 아닌 경우 아래의 식으로 계산하여야 한다.

Overhung load is not on the center line, calculate with the formula below.

$$F_{Ra} < F_R \cdot \frac{a}{b+X} [N] < F_{RMAX}$$



- F_{Ra} : 작용점 X에서의 허용 축단하중 [N] Overhung load at X [N]
- F_R : 축중앙에서의 축단하중 [N] Overhung load on the center line [N]
- F_{RMAX} : 제품의 허용 축단 하중 [N] Permitted max overhung load [N]
- a, b : 상수[mm] Gear unit overhung load constants
- X : 하중 작용 점 [mm] distance from the shaft shoulder to the force application point

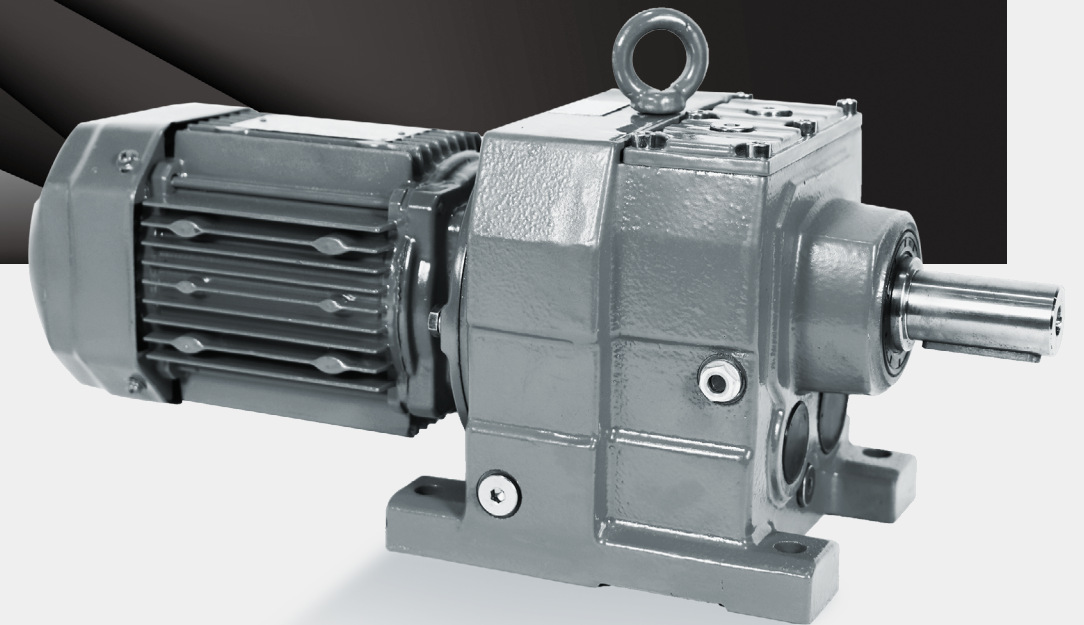
작용점에서의 허용 축단하중을 선정하기위한 Gear Unit 상수(a, b)

Gear unit constants for overhung load conversion(a, b)

Gear unit type	a[mm]	b[mm]	d[mm]	L[mm]
DR17	88.5	68.5	20	40
DR37	118	93	25	50
DR47	137	107	30	60
DR57	147.5	112.5	35	70
DR67	168.5	133.5	35	70
DR77	173.7	133.7	40	80
DR87	216.7	166.7	50	100
DR97	255.5	195.5	60	120
DR107	285.5	215.5	70	140
DR137	343.5	258.5	90	170
DR147	402	297	110	210
DR167	450	345	120	210
DF37	123.5	98.5	25	50
DF47	153.5	123.5	30	60
DF57	170.7	135.7	35	70
DF67	181.3	141.3	40	80
DF77	215.8	165.8	50	100
DF87	263	203	60	120
DF97	350	280	70	140
DF107	373.5	288.5	90	170
DF127	442.5	337.5	110	210
DF157	512	407	120	210
DK37	123.5	98.5	25	50
DK47	153.5	123.5	30	60
DK57	169.7	134.7	35	70
DK67	181.3	141.3	40	80
DK77	215.8	165.8	50	100
DK87	252	192	60	120
DK97	319	249	70	140
DK107	373.5	288.5	90	170
DK127	443.5	338.5	110	210
DK157	509	404	120	210
DK167	621.5	496.5	160	250
DK187	720.5	560.5	190	320
DS37	118.5	98.5	20	40
DS47	130	105	25	50
DS57	150	120	30	60
DS67	184	149	35	70
DS77	224	179	45	90
DS87	281.5	221.5	60	120
DS97	326.3	256.3	70	140

DR 시리즈 | DR-Series

헬리컬 감속기 HELICAL GEARED MOTORS



모터 용량

Power

0.4 ~ 160kw

감속기 최대 토크

Gearbox Max Torque

18,000Nm

감속비

Ratio

3.37 ~ 7,307

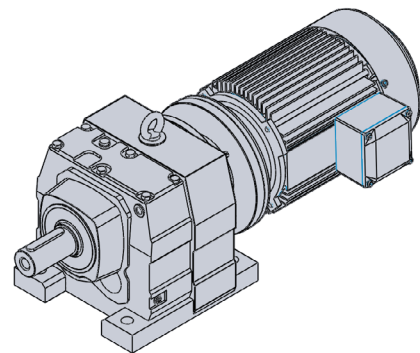
DR 시리즈

헬리컬 감속기

DR-Series : HELICAL GEARED MOTORS

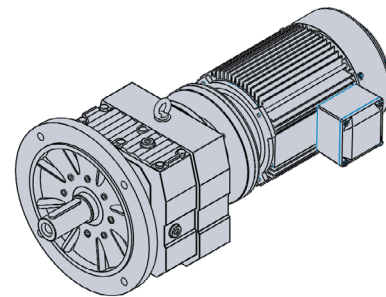
DR ..7 Type

바닥 장착형 감속기
(2단/3단 기어세트)
Three-stage or two-stage foot mounted helical gear reducer



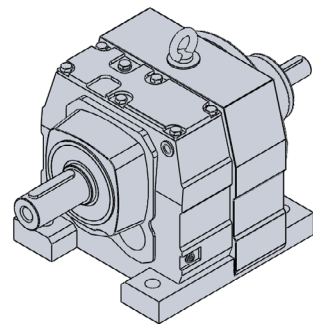
DRF ..7 Type

B5 플랜지 장착형 감속기
(2단/3단 기어세트)
Three-stage or two-stage flange mounted helical gear reducer

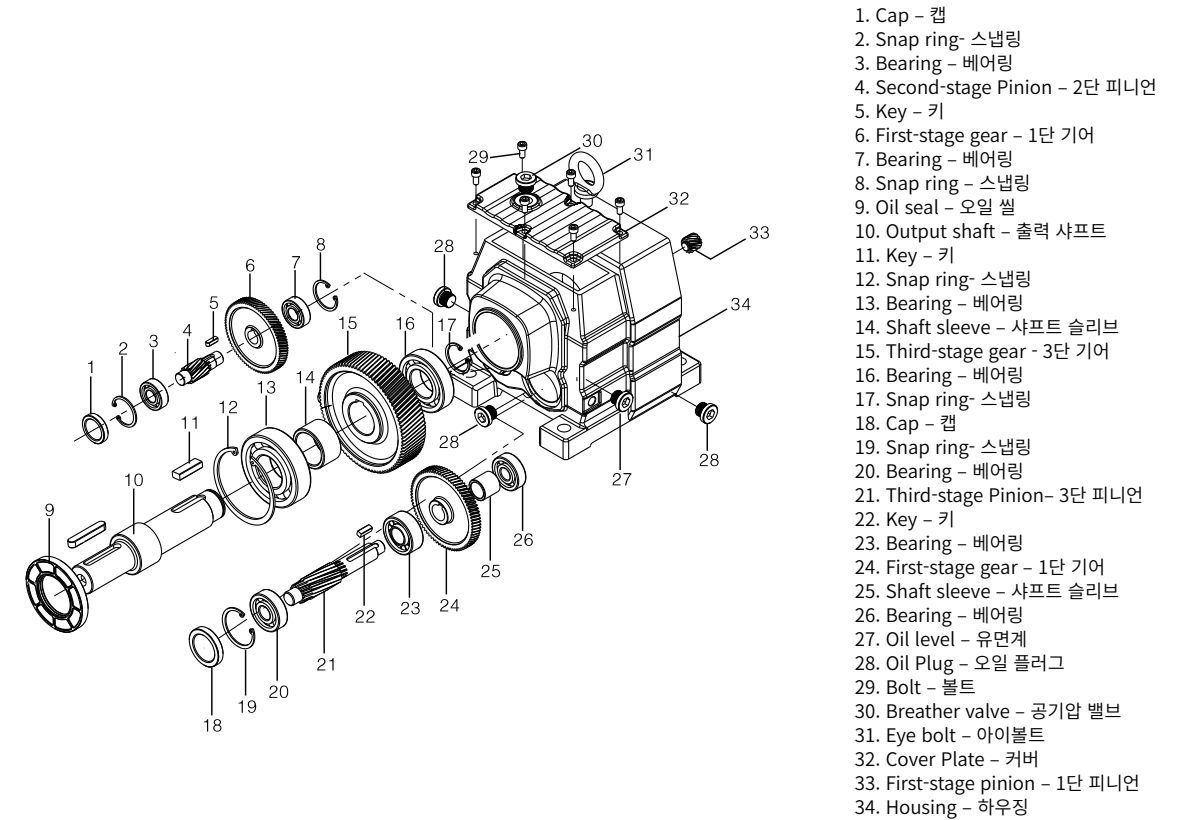


DRS ..7 Type

바닥 장착형/입력 중실축 타입
(라인 파워 타입)
Three-stage or two stage foot mounted helical gear reducer/Input-shaft style(Line Power Type)



DR 시리즈 구조 Internal Structure of DR Series



형식 표시 Instructions for models

형식 표시 (Frame No)	모터 용량 (Motor Capacity)	모터 주파수 (Frequency)	브레이크 표시 (Brake Option)
DR 87 - 41.74 / 2.2kw - 380V - 60Hz (*-*) / AC-B			
형식 표시 (Type)	감속비 표시 (Ratio)	모터 전압 (Voltage)	모터 옵션 표시 (Motor Option)

예시 Example

DRF57-43.3/1.5kw-2/3V-60Hz(INV)/DC-B

감속부	① B5플랜지 타입 감속기 ② Gear Box 57형번, 감속비 1/43.3
모터	① 1.5kw 용량의 모터 ② 전압: 220/380V, 주파수: 60Hz ③ INVERTER전용 모터
기타	① DC 브레이크
Gear box	① B5 flange-mount helical gear reducer ② Size: 57, Ratio: 43.3
Motor	① 1.5kw motor ② Voltage: 220/380V, Frequency: 60Hz ③ Use for inverter motor
Etc	① DC Brake

DR77-113.56/2.2kw-2/3V-50Hz/AC-B(HL)

감속부	① 풋 마운트 타입 감속기 ② Gear Box 77형번, 감속비 1/113.56
모터	① 2.2kw 용량의 모터 ② 전압: 220/380V, 주파수: 50Hz
기타	① AC 브레이크(수동 해방)
Gear box	① Foot-mounted shaft helical gear reducer ② Size: 77, Ratio: 113.56
Motor	① 2.2kw motor ② Voltage: 220/380V, Frequency: 50Hz
Etc	① AC Brake (manual operation type)

사이즈/모터 프레임별 IEC플랜지 길이 Length of IEC flange

Reducer Type \ Motor Frame	71	80	90	100	112	132	160	180	200	225	250	280	315
DR..17	61.5	80											
DR..37	61.5	80	80	98									
DR..47	56	74.5	74.5	90.5	90.5	123							
DR..57	56	74.5	74.5	90.5	90.5	123							
DR..67	56	74.5	74.5	90.5	90.5	123							
DR..77	50	68.5	68.5	82.5	82.5	111	152.5						
DR..87		63.5	63.5	78.5	78.5	106	147.5	147.5					
DR..97		57.5	57.5	72.5	72.5	101	142.5	142.5	144.5				
DR..107				66.5	66.5	95	136.5	136.5	138.5	168.5			
DR..137						88	129.5	129.5	131.5	161.5	163		
DR..147						80	121.5	121.5	123.5	153.5	153.5	153.5	
DR..167							113.5	113.5	115.5	145.5	145.5	145.5	184

사이즈별 허용토크/모터 용량/감속비 The table for each size of allowable torque, motor and ratio.

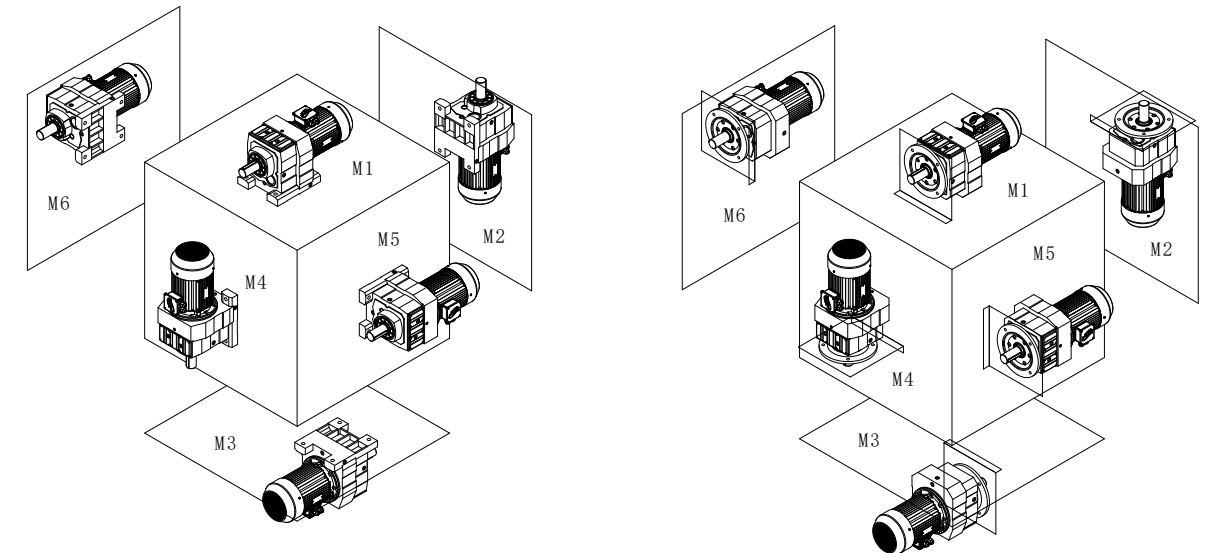
사양 Specification \ 사이즈 Size	17	37	47	57	67	77	87	97	107	137	147	167
Allowable Maximum Torque [Nm]	85	200	300	450	600	800	1500	3000	4200	8000	13000	18000
Motor [kw]	0.4 ~ 0.75	0.4 ~ 3	0.4 ~ 5.5	0.4 ~ 7.5	0.4 ~ 7.5	0.4 ~ 11	0.4 ~ 22	0.4 ~ 30	0.4 ~ 45	0.4 ~ 55	0.4 ~ 90	0.75 ~ 160
Ratio	3.83 ~ 19.71	3.41 ~ 90.77	3.83 ~ 139.99	4.39 ~ 186.89	4.29 ~ 199.81	5.31 ~ 373	5.3 ~ 802	4.5 ~ 1396	4.92 ~ 2067	5.15 ~ 4464	5 ~ 7307	10.24 ~ 4650

형번 별 중량 Gearbox Weight

사이즈 Size	17	27	37	47	57	67	77	87	97	107	137	147	167
중량 Weight	6	10	11	16	23	29	38	70	135	180	270	400	780

- 1) 표기 중량은 오일이 포함되어 있지 않으며 기어 비, 기어 단수에 따라 편차가 있을 수 있습니다.
Weight in the table does not include oil, and there would be little gap in terms of gear composition.
- 2) 표기 중량에 모터 중량은 포함되어 있지 않습니다.
Weight in the table does not include motor.

설치 형태 Mounting Position



설치 형태에 따른 오일 충전량 Oil capacity table

단위: Liter

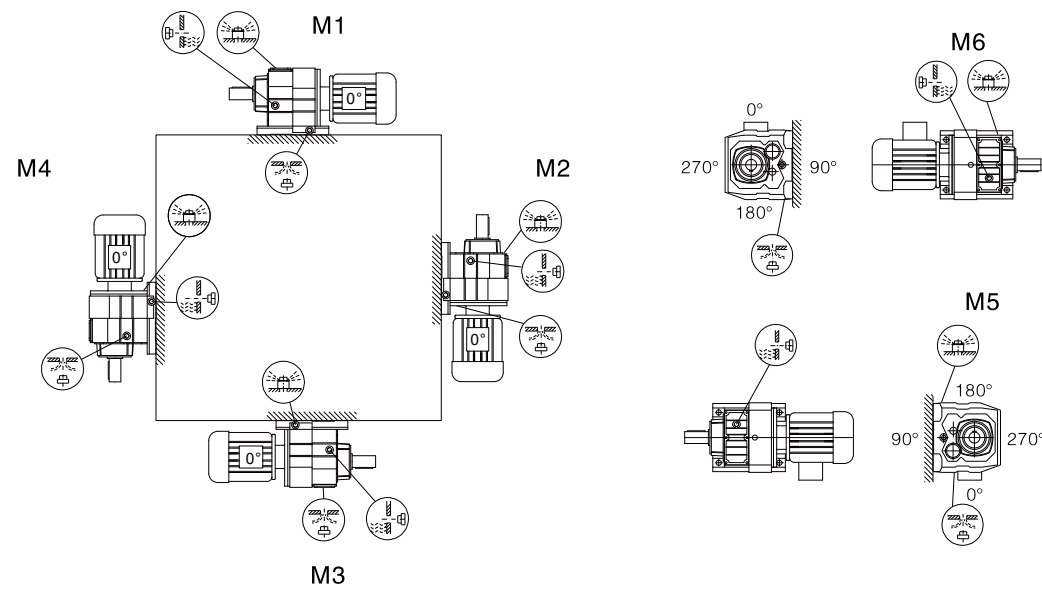
설치형태 position \ 사이즈 Size	M1	M2	M3	M4	M5	M6
DR..17	0.6	0.8	0.8	0.9	0.7	0.7
DR..37	1	1.2	1	1.8	1.7	1.7
DR..47	1.3	1.6	1.5	2.8	1.7	1.7
DR..57	1.8	2	1.8	3.1	2	2
DR..67	2	2.4	2.8	3.7	2.2	2.2
DR..77	2.2	3.8	3.6	4.1	3.4	3.4
DR..87	5.6	7.8	7.2	8.3	7.5	7.5
DR..97	8.9	15.6	11.7	16.7	16.1	16.1
DR..107	15.6	20	16.9	22.2	20.6	20.6
DR..137	20	28	29.5	31.5	25.6	25.6
DR..147	27.8	46.5	48	52	39.5	41
DR..167	58.9	82	78	88	72.2	72.2

주의: 지정된 충전량은 권장값으로, 스테이지 수와 기어 비율에 따라 정확한 값이 다를 수 있습니다. 충전시에는 레벨 플러그를 통해서 정확한 오일양을 맞춰야 합니다.

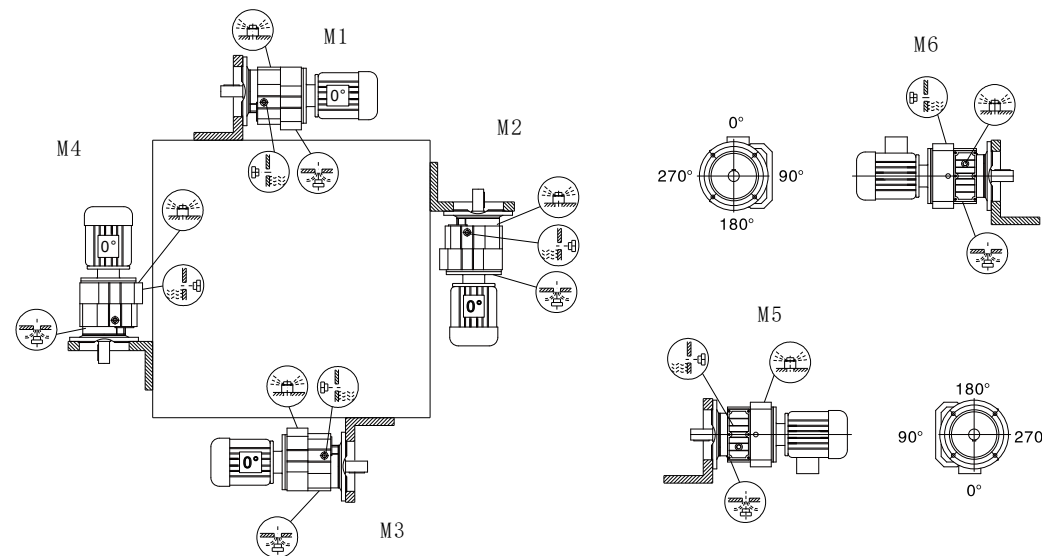
Note: The specified fill quantities are recommended values. The precise values vary depending on the number of stages and gear ratio.

When filling, it is essential to check the oil level plug since it indicates the precise oil capacity.

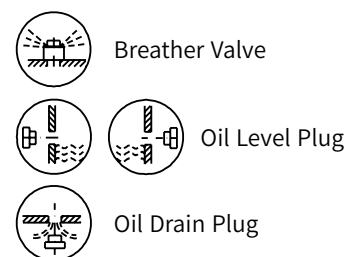
DR17 - DR167 설치 예시 DR17-DR167 Mounting position example



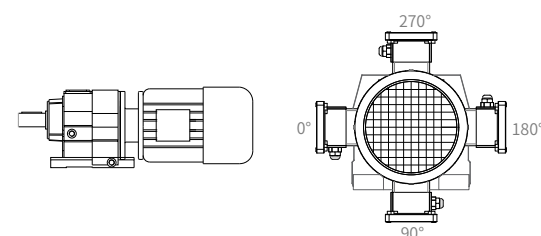
DRF17 - DRF167 설치 예시 DR17-DR167 Mounting position example



기호 표기 Symbol Mark



단자박스 표기 Terminal box



DR-Series 특성표

0.4KW

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
0.4KW	DR147 DR77	7307	0.23	14235	0.80	56800	0.19	17080	0.70	57100
		6447	0.25	12615	1.00	59200	0.21	15135	0.85	54400
		5568	0.3	10900	1.20	61200	0.25	13080	1.00	57900
		4926	0.34	9730	1.30	62400	0.28	11675	1.10	59800
		4325	0.38	8465	1.50	63600	0.32	10160	1.25	61700
		3754	0.44	7395	1.70	64400	0.37	8875	1.45	63000
		3302	0.5	6465	1.95	65200	0.42	7760	1.65	64000
		2898	0.58	5660	2.25	65600	0.48	6790	1.90	64700
	DR137 DR77	4464	0.37	8715	0.90	48400	0.31	10455	0.75	48600
		3928	0.42	7665	1.00	50000	0.35	9200	0.85	46400
		4018	0.41	8235	0.95	49200	0.34	9880	0.80	44300
		3514	0.47	7165	1.05	50800	0.39	8595	0.90	48200
		3338	0.49	6790	1.10	51200	0.41	8150	0.95	48900
		2929	0.56	5930	1.30	52000	0.47	7115	1.10	50400
		2484	0.67	4990	1.55	53200	0.56	5990	1.30	51800
		2242	0.74	4490	1.70	53600	0.62	5385	1.45	52600
		2658	0.62	5295	1.40	52800	0.52	6355	1.20	51300
		2412	0.68	4800	1.60	53200	0.57	5760	1.35	52000
		2073	0.8	4125	1.90	53600	0.67	4950	1.60	52900
		1839	0.9	3595	2.20	54000	0.75	4315	1.85	53500
		1397	1.19	2765	2.85	54400	0.99	3320	2.40	54200
		1226	1.32	2405	3.30	54800	1.1	2885	2.75	54500
		1090	1.56	2165	3.65	54800	1.3	2595	3.05	54600
		951	1.8	1885	4.20	54800	1.5	2260	3.50	54800
	DR107 DR77	2067	0.8	4155	1.00	28900	0.67	4985	0.85	29100
		1693	0.98	3390	1.25	31300	0.82	4065	1.05	28700
		1550	1.07	3070	1.35	32100	0.89	3685	1.15	30200
		1407	1.18	2785	1.50	32500	0.98	3340	1.25	31100
		1209	1.32	2395	1.70	32900	1.1	2875	1.45	32300
		1055	1.56	2090	2.00	33200	1.3	2510	1.70	32800

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
0.4KW	DR107 DR77	1987	0.83	3940	1.05	29600	0.69	4725	0.90	29700
		1827	0.91	3575	1.20	30800	0.76	4290	1.00	27700
		1599	1.03	3100	1.35	32000	0.86	3720	1.15	29900
		1400	1.19	2740	1.50	32600	0.99	3285	1.25	31100
		1226	1.32	2380	1.80	32900	1.1	2855	1.50	32300
		939	1.8	1840	2.25	33400	1.5	2205	1.90	33000
		822	2.04	1595	2.60	33500	1.7	1915	2.20	33300
	DR97 DR57	1207	1.32	2440	1.20	22800	1.1	2930	1.00	20300
		1084	1.56	2190	1.35	23800	1.3	2625	1.15	21900
		1396	1.19	2790	1.00	16400	0.99	3350	0.85	9700
		1228	1.32	2440	1.20	19900	1.1	2930	1.00	20300
		1069	1.56	2170	1.35	23700	1.3	2605	1.15	21800
		938	1.8	1900	1.50	24500	1.5	2280	1.25	23100
		824	2.04	1640	1.80	24800	1.7	1970	1.50	24200
		737	2.28	1465	2.00	25000	1.9	1760	1.70	24700
		632	2.64	1255	2.40	25200	2.2	1505	2.00	24900
		431	3.84	865	3.40	25500	3.2	1040	2.85	25400
		379	4.32	760	3.95	25600	3.6	910	3.30	25500
		336	4.92	670	4.40	25600	4.1	805	3.70	25600
	DR87 DR57	802	2.04	1605	0.90	15800	1.7	1925	0.75	15800
		754	2.16	1505	1.00	16300	1.8	1805	0.85	16400
		649	2.52	1290	1.20	17200	2.1	1545	1.00	15800
		776	2.16	1560	0.95	15900	1.8	1870	0.80	16000
		685	2.4	1380	1.05	16800	2	1655	0.90	16800
		599	2.76	1180	1.30	17500	2.3	1415	1.10	16500
		525	3.12	1040	1.40	18000	2.6	1245	1.20	17200
		456	3.6	900	1.65	18000	3	1080	1.40	17700
		268	6.24	525	2.90	18000	5.2	630	2.45	18000
		236	6.96	465	3.30	18000	5.8	555	2.75	18000
		538	3.12	1110	1.35	17800	2.6	1330	1.15	16800
		472	3.48	975	1.55	18000	2.9	1170	1.30	17500
		400	4.2	820	1.85	18000	3.5	985	1.55	18000
		361	4.56	730	2.10	18000	3.8	875	1.75	18000

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
0.4KW	DR77 DR37	373	4.44	760	1.00	9800	3.7	910	0.85	8600
		327	5.04	665	1.20	10300	4.2	800	1.00	9500
		289	5.76	590	1.35	10700	4.8	710	1.15	10000
		260	6.36	525	1.50	10900	5.3	630	1.25	10400
		224	7.44	450	1.80	11200	6.2	540	1.50	10800
		197	8.4	390	2.10	11400	7	470	1.75	11100
		169	9.72	340	2.40	11500	8.1	410	2.00	11300
		149	11.2	300	2.75	11600	9.3	360	2.30	11400
	DR67 DR37	294	5.64	590	0.95	7400	4.7	705	0.80	4200
		261	6.36	525	1.05	7800	5.3	630	0.90	6800
		234	7.08	475	1.25	8200	5.9	570	1.05	7400
		200	8.28	405	1.40	8600	6.9	485	1.20	8000
	DR77	195.24	8.52	450	1.80	11200	7.1	540	1.50	10900
		166.59	9.96	385	2.10	11400	8.3	460	1.75	11200
		145.67	11.4	340	2.40	11500	9.5	405	2.00	11300
		138.39	12	320	2.50	11500	10	385	2.10	11300
		121.42	13.2	280	2.85	11600	11	335	2.40	11500
		102.99	15.6	240	3.40	11700	13	285	2.85	11600
		92.97	18	215	3.80	11700	15	260	3.20	11600
	DR67	199.81	8.28	460	1.25	8300	6.9	550	1.05	7600
		184.07	9	425	1.35	8500	7.5	510	1.15	7900
		158.14	10.4	365	1.60	8800	8.7	440	1.35	8400
		137.67	12	320	1.85	8900	10	385	1.55	8700
		128.97	13.2	295	1.95	9000	11	355	1.65	8800
		113.94	14.4	265	2.25	9100	12	315	1.90	8900
		105.83	15.6	240	2.40	9200	13	290	2.00	9000
		95.91	16.8	220	2.60	9200	14	265	2.20	9100
		86.11	19.2	200	2.90	9300	16	240	2.45	9200
		74.17	22.8	170	3.50	9300	19	205	2.95	9300
		69.75	24	165	3.70	9400	20	195	3.10	9300
		61.26	27.6	140	4.20	9400	23	170	3.50	9400
		56.89	28.8	135	4.50	9400	24	160	3.75	9400

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
0.4KW	DR57	186.89	8.88	435	1.00	6600	7.4	520	0.85	6600
		172.17	9.6	395	1.05	6700	8	475	0.90	6700
		147.92	11.2	340	1.30	6800	9.3	410	1.10	6700
		128.77	13.2	295	1.40	6900	11	355	1.20	6800
		120.63	13.2	280	1.55	7000	11	335	1.30	6800
		106.58	15.6	245	1.80	7000	13	295	1.50	6900
		98.99	16.8	230	1.95	7000	14	275	1.65	7000
		89.71	18	210	2.15	7100	15	250	1.80	7000
		80.55	20.4	185	2.40	7100	17	220	2.00	7100
		69.23	24	160	2.75	6900	20	190	2.30	7100
		64.85	25.2	150	2.90	6800	21	180	2.45	7100
		57.29	28.8	135	3.40	6600	24	160	2.85	7000
		53.22	31.2	120	3.65	6400	26	145	3.05	6800
		48.23	34.8	115	3.95	6200	29	135	3.30	6600
	DR47	139.99	11.9	325	0.90	4600	9.9	390	0.75	4900
		121.87	13.2	280	1.00	5100	11	335	0.85	4800
		114.17	14.4	265	1.10	5100	12	315	0.95	4900
		100.86	16.8	235	1.25	5200	14	280	1.05	5100
		93.68	18	215	1.35	5300	15	260	1.15	5100
		84.9	19.2	190	1.50	5300	16	230	1.25	5200
		76.23	21.6	175	1.65	5400	18	210	1.40	5300
		68.54	24	160	1.85	5400	20	190	1.55	5300
		64.21	25.2	145	1.95	5400	21	175	1.65	5400
		56.73	28.8	130	2.25	5200	24	155	1.90	5400
		52.69	31.2	120	2.40	5100	26	145	2.00	5400
		47.75	34.8	110	2.75	4900	29	130	2.30	5200
		42.87	38.4	100	2.90	4800	32	120	2.45	5100
		36.93	44.4	88	3.50	4600	37	105	2.95	4900
		34.73	48	80	3.70	4500	40	96	3.10	4800
		33.79	49.2	78	3.05	4400	41	94	2.55	4700
		31.12	52.8	72	3.05	4400	44	86	2.55	4600
		26.74	62.4	63	4.85	4200	52	75	4.05	4400
		23.28	70.8	54	5.50	4000	59	65	4.60	4200
		21.81	75.6	51	5.90	3900	63	61	4.95	4200

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
0.4KW	DR37	90.77	18	210	0.90	4000	15	250	0.75	3800
		84.61	19.2	190	0.95	4400	16	230	0.80	4200
		73.96	22.8	170	1.10	4900	19	205	0.95	4600
		69.33	24	160	1.25	5000	20	190	1.05	4700
		61.18	27.6	140	1.40	5000	23	170	1.20	4900
		55.76	30	130	1.50	4900	25	155	1.25	5000
		48.08	34.8	115	1.70	4800	29	135	1.45	5000
		44.81	37.2	105	1.90	4600	31	125	1.60	4900
		39.17	42	92	2.20	4500	35	110	1.85	4800
		36.72	45.6	83	2.25	4400	38	100	1.90	4700
		32.4	51.6	75	2.60	4200	43	90	2.20	4500
		28.73	57.6	67	2.90	4100	48	80	2.45	4400
		24.42	68.4	57	3.50	3900	57	68	2.95	4200
		28.32	58.8	66	3.05	4100	49	79	2.55	4300
		26.03	63.6	60	3.05	4000	53	72	2.55	4200
	DR17	22.27	74.4	52	3.80	3800	62	62	3.20	4100
		19.31	85.2	44	4.50	3600	71	53	3.75	3900
		18.05	91.2	42	4.70	3600	76	50	3.95	3800
		15.6	106	36	5.50	3400	88	43	4.60	3600
		13.25	125	31	6.15	3200	104	37	5.15	3500
		11.83	140	27	6.65	3100	117	32	5.55	3300
		38.61	43.2	88	0.90	1700	36	105	0.75	1700
		36.2	45.6	83	0.95	1700	38	100	0.80	1700
		31.94	51.6	74	1.10	1700	43	89	0.95	1700
		28.32	58.8	66	1.25	1600	49	79	1.05	1700
		24.07	68.4	56	1.50	1600	57	67	1.25	1600
		25.23	66	58	1.40	1600	55	70	1.20	1700
		23.15	72	53	1.55	1600	60	64	1.30	1600
		19.71	84	46	1.85	1500	70	55	1.55	1600
		16.99	97.2	40	2.15	1500	81	48	1.80	1500
		15.84	104	37	2.25	1400	87	44	1.90	1500
		13.84	120	32	2.60	1400	100	38	2.20	1500
		12.98	127	30	2.85	1400	106	36	2.40	1400
		11.45	145	26	3.05	1300	121	31	2.55	1400
		10.15	163	23	3.30	1300	136	28	2.75	1400

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
0.4KW	DR17	8.63	192	20	3.65	1200	160	24	3.05	1300
		7.55	220	18	3.15	1200	183	21	2.65	1200
		7.04	235	16	3.40	1100	196	19	2.85	1200
		6.15	269	14	3.70	1100	224	17	3.10	1200
		5.76	287	13	3.95	1100	239	16	3.30	1200
		5.09	325	12	4.30	1000	271	14	3.60	1100
		4.51	367	11	4.60	1000	306	13	3.85	1100
		3.83	432	9	5.10	1000	360	11	4.25	1000

0.75KW

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
0.75KW	DR167 DR97	4650	0.36	17250	1.00	108000	0.3	20700	0.85	108000
		4129	0.4	15250	1.20	108000	0.33	18300	1.00	108000
		2657	0.62	10000	1.80	108000	0.52	12000	1.50	108000
		2333	0.71	8665	2.10	108000	0.59	10400	1.75	108000
		2085	0.79	7690	2.30	108000	0.66	9230	1.95	108000
	DR147 DR77	3302	0.5	12585	1.00	58400	0.42	15100	0.85	58100
		2898	0.58	11000	1.20	60400	0.48	13200	1.00	55600
		2555	0.65	9915	1.30	61600	0.54	11900	1.10	58000
		2211	0.74	8585	1.50	63200	0.62	10300	1.25	60400
		1951	0.85	7560	1.70	64000	0.71	9070	1.45	61900
		1705	0.97	6525	1.95	64800	0.81	7830	1.65	63400
		1536	1.08	5860	2.20	65200	0.9	7030	1.85	64100
		1329	1.2	5065	2.50	65600	1	6080	2.10	64900
		1166	1.44	4425	3.00	66000	1.2	5310	2.50	65400
	DR137 DR77	1863	0.89	7200	1.10	50000	0.74	8640	0.95	45800
		1586	1.04	6110	1.30	51600	0.87	7330	1.10	49100
		1391	1.19	5415	1.50	52400	0.99	6500	1.25	50500
		1256	1.32	4875	1.60	52800	1.1	5850	1.35	51400
		2073	0.8	8035	1.00	48800	0.67	9640	0.85	34100
		1839	0.9	7065	1.10	50400	0.75	8480	0.95	46300
		1598	1.03	6090	1.30	51600	0.86	7310	1.10	49100

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
0.75KW	DR137 DR77	1397	1.19	5400	1.50	52400	0.99	6480	1.25	50500
		1226	1.32	4715	1.65	53200	1.1	5660	1.40	51700
		1090	1.56	4210	1.90	53600	1.3	5050	1.60	52400
		951	1.8	3675	2.15	54000	1.5	4410	1.80	53100
		831	2.04	3175	2.50	54400	1.7	3810	2.10	53600
		730	2.28	2765	2.85	54400	1.9	3320	2.40	54100
	DR107 DR77	1055	1.56	4075	1.05	28600	1.3	4890	0.90	26100
		919	1.8	3560	1.20	30400	1.5	4270	1.00	26500
		815	2.04	3165	1.35	31500	1.7	3800	1.15	28500
		1104	1.44	4210	1.00	28100	1.2	5050	0.85	26000
		939	1.8	3610	1.20	30200	1.5	4330	1.00	26000
		822	2.04	3140	1.35	31600	1.7	3770	1.15	28600
		369	4.44	1410	3.00	33600	3.7	1690	2.50	33400
		323	5.16	1225	3.45	33700	4.3	1470	2.90	33500
	DR97 DR57	632	2.64	2450	1.20	22500	2.2	2940	1.00	19800
		560	3	2140	1.35	23600	2.5	2570	1.15	21100
		484	3.36	1860	1.60	24500	2.8	2230	1.35	22700
		431	3.84	1675	1.80	24700	3.2	2010	1.50	23600
		379	4.32	1465	2.00	25000	3.6	1760	1.70	24400
		336	4.92	1310	2.25	25200	4.1	1570	1.90	24800
		296	5.64	1140	2.60	25300	4.7	1370	2.20	25000
		249	6.6	960	3.10	25400	5.5	1150	2.60	25300
	DR87 DR57	398	4.2	1525	1.00	15800	3.5	1830	0.85	14400
		352	4.68	1360	1.10	16700	3.9	1630	0.95	14600
		305	5.4	1165	1.30	17400	4.5	1400	1.10	15900
		268	6.24	1035	1.50	17900	5.2	1240	1.25	16800
		236	6.96	910	1.65	18000	5.8	1090	1.40	17500
		361	4.56	1425	1.05	16400	3.8	1710	0.90	14000
		300	5.52	1175	1.30	17400	4.6	1410	1.10	15900
		256	6.48	1000	1.55	18000	5.4	1200	1.30	17000
	DR97	289.74	5.76	1250	2.40	25200	4.8	1500	2.00	24800
		255.71	6.48	1110	2.75	24800	5.4	1330	2.30	25100
		241.25	6.84	1040	2.85	24900	5.7	1250	2.40	25200
		216.28	7.68	935	3.20	25000	6.4	1120	2.70	25300

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
0.75KW	DR97	186.3	8.88	810	3.70	25200	7.4	970	3.10	25500
		170.02	9.72	735	4.05	25300	8.1	880	3.40	25500
	DR87	246.54	6.72	1065	1.40	17800	5.6	1280	1.20	16700
		216.54	7.68	935	1.65	18000	6.4	1120	1.40	17400
		205.71	8.04	890	1.70	18000	6.7	1070	1.45	17600
		181.77	9.12	785	1.95	18000	7.6	940	1.65	18000
		155.34	10.7	675	2.25	18000	8.9	810	1.90	18000
		142.41	11.6	615	2.50	18000	9.7	740	2.10	18000
		124.97	13.2	540	2.85	18000	11	650	2.40	18000
		118.43	14.4	515	3.00	18000	12	615	2.50	18000
		103.65	15.6	450	3.45	18000	13	540	2.90	18000
		93.38	18	405	3.80	18000	15	485	3.20	18000
	DR77	166.59	9.96	715	1.10	10000	8.3	860	0.95	8500
		145.67	11.4	630	1.30	10400	9.5	755	1.10	9500
		138.39	12	600	1.35	10600	10	720	1.15	9700
		121.42	13.2	525	1.55	10900	11	630	1.30	10300
		102.99	15.6	445	1.85	11200	13	535	1.55	10700
		92.97	18	405	2.00	11300	15	485	1.70	11000
		81.8	20.4	355	2.30	11400	17	425	1.95	11200
		77.24	21.6	335	2.40	11500	18	400	2.00	11300
		65.77	25.2	285	2.85	11600	21	340	2.40	11400
		57.68	28.8	250	3.20	11600	24	300	2.70	11500
		52.07	32.4	225	3.60	11700	27	270	3.00	11600
		45.81	36	200	4.20	11700	30	240	3.50	11600
		43.26	38.4	190	4.40	11700	32	225	3.70	11700
	DR67	128.97	13.2	560	1.05	7500	11	670	0.90	6300
		113.94	14.4	490	1.20	8000	12	590	1.00	6900
		105.83	15.6	460	1.30	8200	13	550	1.10	7300
		95.91	16.8	415	1.40	8400	14	500	1.20	7700
		86.11	19.2	370	1.60	8600	16	445	1.35	8100
		74.17	22.8	320	1.85	8900	19	385	1.55	8500
		69.75	24	300	1.95	9000	20	360	1.65	8600
		61.26	27.6	265	2.25	9100	23	320	1.90	8800
		56.89	28.8	245	2.40	9100	24	295	2.00	8900

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
0.75KW	DR67	51.56	32.4	225	2.60	9200	27	270	2.20	9000
		46.29	36	200	3.00	9200	30	240	2.50	9100
	DR57	106.58	15.6	465	0.95	6400	13	555	0.80	5000
		98.99	16.8	430	1.05	6600	14	515	0.90	5600
		89.71	18	390	1.10	6700	15	465	0.95	6300
		80.55	20.4	350	1.30	6600	17	420	1.10	6500
		69.23	24	300	1.50	6400	20	360	1.25	6700
		64.85	25.2	280	1.60	6300	21	335	1.35	6700
		57.29	28.8	245	1.80	6100	24	295	1.50	6500
		53.22	31.2	230	1.95	6000	26	275	1.65	6400
		48.23	34.8	210	2.15	5900	29	250	1.80	6200
		43.3	38.4	190	2.40	5700	32	225	2.00	6100
		37.3	44.4	160	2.75	5500	37	194	2.30	5800
		35.07	46.8	150	3.00	5400	39	182	2.50	5700
		30.18	55.2	130	3.45	5200	46	157	2.90	5500
		26.97	61.2	115	3.80	5000	51	140	3.20	5300
		26.31	62.4	115	3.95	5000	52	137	3.30	5300
		24.99	66	110	4.20	4900	55	130	3.50	5200
		21.93	75.6	95	4.80	4700	63	114	4.00	5000
		18.6	88.8	81	5.60	4500	74	97	4.70	4800
	DR47	68.54	24	295	1.00	5000	20	355	0.85	4300
		64.21	25.2	280	1.05	4900	21	335	0.90	4500
		56.73	28.8	245	1.20	4800	24	295	1.00	4900
		52.69	31.2	230	1.30	4700	26	275	1.10	4900
		47.75	34.8	210	1.40	4600	29	250	1.20	4800
		42.87	38.4	190	1.60	4400	32	225	1.35	4700
		36.93	44.4	160	1.85	4300	37	192	1.55	4600
		34.73	48	150	1.95	4200	40	180	1.65	4500
		29.88	55.2	130	2.30	4000	46	155	1.95	4300
		26.7	62.4	115	2.60	3900	52	139	2.20	4200
		23.59	69.6	100	3.00	3800	58	122	2.50	4100
		26.74	62.4	115	2.60	3900	52	139	2.20	4200
		23.28	70.8	100	3.00	3800	59	121	2.50	4000
		21.81	75.6	94	3.20	3700	63	113	2.70	4000

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
0.75KW	DR47	19.27	86.4	83	3.60	3600	72	100	3.00	3800
		17.89	92.4	78	3.70	3500	77	93	3.10	3800
		16.22	102	70	3.95	3400	85	84	3.30	3700
	DR37	48.08	34.8	210	0.95	3900	29	250	0.80	3700
		44.81	37.2	195	1.00	4200	31	235	0.85	3800
		39.17	42	170	1.20	4100	35	205	1.00	4200
		36.72	45.6	160	1.25	4000	38	191	1.05	4300
		32.4	51.6	140	1.40	3900	43	168	1.20	4100
		28.73	57.6	125	1.60	3800	48	149	1.35	4000
		24.42	68.4	105	1.90	3700	57	127	1.60	3900
		22.27	74.4	97	2.10	3600	62	116	1.75	3800
		19.31	85.2	83	2.40	3400	71	100	2.00	3700
		18.05	91.2	78	2.50	3400	76	94	2.10	3600
		15.6	106	68	3.00	3200	88	81	2.50	3500
		13.25	125	58	3.35	3100	104	69	2.80	3300
		11.83	140	51	3.60	3000	117	61	3.00	3200
		10.11	164	44	3.80	2900	137	53	3.20	3100
		9.47	175	41	4.05	2800	146	49	3.40	3000
	DR17	19.71	84	85	1.00	1200	70	102	0.85	1200
		16.99	97.2	73	1.10	1200	81	88	0.95	1300
		15.84	104	68	1.25	1200	87	82	1.05	1200
		13.84	120	60	1.40	1200	100	72	1.20	1200
		12.98	127	56	1.50	1200	106	67	1.25	1200
		11.45	145	49	1.60	1200	121	59	1.35	1200
		10.15	163	44	1.70	1100	136	53	1.45	1200
		8.63	192	38	1.90	1100	160	45	1.60	1200
		7.55	220	33	1.70	1000	183	39	1.45	1100
		7.04	235	31	1.80	1000	196	37	1.50	1100
		6.15	269	27	2.00	1000	224	32	1.70	1000
		5.76	287	25	2.10	1000	239	30	1.75	1000
		5.09	325	22	2.30	1000	271	26	1.95	1000
		4.51	367	19	2.40	900	306	23	2.00	1000
		3.83	432	17	2.75	900	360	20	2.30	1000

1.5kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
1.5kw	DR167 DR97	2333	0.72	17665	1.00	108000	0.6	21200	0.85	108000
		2085	0.82	15665	1.10	108000	0.68	18800	0.95	108000
		1877	0.9	14085	1.25	108000	0.75	16900	1.05	108000
		1670	1.01	12500	1.40	108000	0.84	15000	1.20	108000
		1438	1.18	10915	1.60	108000	0.98	13100	1.35	108000
		1279	1.32	9750	1.85	108000	1.1	11700	1.55	108000
		1123	1.56	8500	2.10	108000	1.3	10200	1.75	108000
		999	1.68	7550	2.40	108000	1.4	9060	2.00	108000
	DR147 DR77	1705	1	13085	1.00	57200	0.83	15700	0.85	51300
		1536	1.1	11750	1.05	59200	0.92	14100	0.90	52700
		1329	1.32	10165	1.25	61200	1.1	12200	1.05	57500
		1166	1.44	8915	1.40	62800	1.2	10700	1.20	59900
		1029	1.68	7840	1.65	63600	1.4	9410	1.40	61600
		889	1.92	6785	1.90	64400	1.6	8140	1.60	63000
		784	2.16	5975	2.15	65200	1.8	7170	1.80	64000
		695	2.4	5285	2.40	65600	2	6340	2.00	64700
		619	2.76	4750	2.75	66000	2.3	5700	2.30	65200
		558	3	4275	3.00	66000	2.5	5130	2.50	65500
	DR137 DR77	1043	1.68	8040	1.00	48400	1.4	9650	0.85	34900
		888	1.92	6835	1.20	50400	1.6	8200	1.00	47400
		699	2.4	5365	1.50	52400	2	6440	1.25	50600
		609	2.76	4660	1.70	53200	2.3	5590	1.45	51800
		1090	1.56	8415	0.95	48000	1.3	10100	0.80	23500
		951	1.8	7325	1.05	49600	1.5	8790	0.90	44900
		831	2.04	6365	1.25	51200	1.7	7640	1.05	48500
		730	2.28	5565	1.40	52000	1.9	6680	1.20	50200
		629	2.64	4785	1.65	52800	2.2	5740	1.40	51600
		560	3	4290	1.85	53200	2.5	5150	1.55	52300
		490	3.48	3725	2.15	54000	2.9	4470	1.80	53100
		428	3.96	3260	2.40	54000	3.3	3910	2.00	53600
		381	4.44	2925	2.75	54400	3.7	3510	2.30	53900
		323	5.28	2485	3.20	54400	4.4	2980	2.70	54300

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
1.5kw	DR107 DR77	544	3.12	4140	1.00	28100	2.6	4970	0.85	26100
		528	3.24	4050	1.05	28500	2.7	4860	0.90	27000
		492	3.48	3740	1.10	29600	2.9	4490	0.95	25300
		469	3.6	3675	1.20	29700	3	4410	1.00	25700
		417	4.08	3175	1.35	31400	3.4	3810	1.15	28500
		369	4.56	2825	1.50	32200	3.8	3390	1.25	30100
		323	5.28	2465	1.70	32700	4.4	2960	1.45	31400
	DR97 DR57	336	5.04	2600	1.10	21600	4.2	3120	0.95	19800
		296	5.76	2285	1.30	23000	4.8	2740	1.10	20200
		249	6.84	1915	1.55	24200	5.7	2300	1.30	22400
		234	7.2	1790	1.65	24600	6	2150	1.40	23000
		209	8.16	1600	1.85	24800	6.8	1920	1.55	23900
	DR97	255.71	6.6	2165	1.35	21700	5.5	2600	1.15	21200
		241.25	6.96	2040	1.40	23000	5.8	2450	1.20	21900
		216.28	7.8	1835	1.60	24500	6.5	2200	1.35	23000
		186.3	9.12	1575	1.90	24800	7.6	1890	1.60	24100
		170.02	9.96	1440	2.10	25000	8.3	1730	1.75	24600
		150.78	11.3	1275	2.30	25200	9.4	1530	1.95	24800
		126.75	13.2	1075	2.75	25400	11	1290	2.30	25100
		116.48	14.4	985	3.00	25400	12	1180	2.50	25200
		103.44	16.8	875	3.35	25500	14	1050	2.80	25400
		92.48	18	785	3.80	25600	15	940	3.20	25500
	DR87	181.6	9.36	1540	1.00	12400	7.8	1850	0.85	10300
		155.2	10.9	1315	1.20	15100	9.1	1580	1.00	15000
		142.28	11.9	1210	1.25	16500	9.9	1450	1.05	15800
		124.85	13.2	1060	1.40	17800	11	1270	1.20	16700
		118.32	14.4	1000	1.55	18000	12	1200	1.30	17100
		103.56	16.8	875	1.70	18000	14	1050	1.45	17600
		93.29	18	790	1.95	18000	15	950	1.65	18000
		81.84	20.4	690	2.20	18000	17	830	1.85	18000
		72.5	22.8	615	2.50	18000	19	735	2.10	18000
		63.62	26.4	540	2.85	18000	22	645	2.40	18000
		60.29	27.6	515	3.00	18000	23	615	2.50	18000
		52.77	32.4	445	3.45	18000	27	535	2.90	18000

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
1.5kw	DR87	47.54	36	405	3.80	17800	30	485	3.20	18000
		41.7	40.8	355	4.40	17100	34	425	3.70	18000
		36.8	45.6	315	4.90	16400	38	375	4.10	17600
	DR77	92.97	18	785	1.00	9500	15	940	0.85	7700
		81.8	20.4	690	1.20	10000	17	830	1.00	8800
		77.24	21.6	655	1.25	10300	18	785	1.05	9200
		65.77	25.2	560	1.50	10700	21	670	1.25	10000
		57.68	28.8	490	1.65	11000	24	585	1.40	10400
		52.07	32.4	440	1.85	11200	27	530	1.55	10700
		45.81	37.2	390	2.10	11300	31	465	1.75	11000
		43.26	39.6	365	2.20	11400	33	440	1.85	11100
		36.83	45.6	315	2.60	11300	38	375	2.20	11300
		33.47	50.4	285	2.85	11000	42	340	2.40	11400
		29	58.8	245	3.35	10600	49	295	2.80	11300
		25.23	67.2	215	3.60	10100	56	255	3.00	10800
		23.37	72	200	4.20	9900	60	240	3.50	10600
		21.43	79.2	185	4.55	9600	66	220	3.80	10400
		18.8	90	160	4.90	9300	75	191	4.10	9900
	DR67	61.26	27.6	515	1.10	7800	23	620	0.95	6600
		56.89	30	485	1.25	8000	25	580	1.05	7000
		51.56	32.4	440	1.35	8300	27	525	1.15	7500
		46.29	36	390	1.55	8600	30	470	1.30	7900
		39.88	42	340	1.70	8800	35	405	1.45	8400
		37.5	45.6	315	1.80	8900	38	380	1.50	8500
		32.37	52.8	275	1.95	8800	44	330	1.65	8800
		28.83	58.8	245	2.15	8500	49	295	1.80	8900
		28.13	60	240	2.25	8400	50	285	1.90	9000
		26.72	63.6	225	2.40	8300	53	270	2.00	8900
		23.44	72	200	2.75	8000	60	240	2.30	8600
		19.89	85.2	165	3.60	7600	71	200	3.00	8200
		17.95	94.8	150	3.80	7400	79	182	3.20	7900
	DR57	53.22	32.4	450	1.00	5300	27	540	0.85	4600
		48.23	34.8	410	1.05	5200	29	490	0.90	5400
		43.3	39.6	365	1.20	5100	33	440	1.00	5300

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
1.5kw	DR57	37.3	45.6	315	1.40	5000	38	380	1.20	5200
		35.07	48	295	1.50	4900	40	355	1.25	5100
		30.18	56.4	255	1.70	4800	47	305	1.45	5000
		26.97	62.4	230	1.95	4600	52	275	1.65	4900
		26.31	64.8	220	2.00	4600	54	265	1.70	4900
		24.99	67.2	215	2.10	4600	56	255	1.75	4800
		21.93	76.8	190	2.40	4400	64	225	2.00	4700
		18.6	91.2	160	2.85	4200	76	189	2.40	4500
		16.79	101	145	3.10	4100	84	171	2.60	4400
		14.77	114	125	3.45	4000	95	150	2.90	4200
		13.95	121	120	3.60	3900	101	142	3.00	3900
		11.88	143	100	4.05	3800	119	121	3.40	4000
	DR47	36.93	45.6	315	0.95	3800	38	375	0.80	2100
		34.73	49.2	295	1.00	3800	41	355	0.85	3500
		29.88	56.4	255	1.20	3600	47	305	1.00	3800
		26.77	63.6	225	1.30	3600	53	270	1.10	3700
		23.59	72	200	1.50	3500	60	240	1.25	3600
		23.28	73.2	195	1.50	3500	61	235	1.25	3600
		21.81	78	185	1.60	3400	65	220	1.35	3600
		19.27	87.6	165	1.80	3300	73	196	1.50	3500
		17.89	94.8	150	1.90	3300	79	182	1.60	3400
		16.22	104	140	1.95	3200	87	165	1.65	3400
		14.56	116	125	2.15	3100	97	148	1.80	3300
		12.54	134	105	2.30	3000	112	127	1.95	3200
		11.79	144	100	2.40	2900	120	120	2.00	3100
		10.15	167	86	2.60	2800	139	103	2.20	3000
		9.07	186	77	2.85	2700	155	92	2.40	2900
		8.01	211	68	3.00	2700	176	81	2.50	2800
		7.76	218	66	2.50	2600	182	79	2.10	2800
		6.96	244	59	2.60	2500	203	71	2.20	2700
		6	282	51	3.10	2400	235	61	2.60	2600
		5.64	300	48	3.20	2400	250	57	2.70	2500
		4.85	349	41	3.60	2300	291	49	3.00	2400
		4.34	390	37	3.95	2200	325	44	3.30	2300
		3.83	442	33	4.40	2100	368	39	3.70	2300

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
1.5kw	DR37	19.31	87.6	165	1.20	2900	73	196	1.00	2400
		18.05	93.6	155	1.30	3000	78	183	1.10	2600
		15.6	108	135	1.50	3000	90	159	1.25	2800
		13.25	127	115	1.65	2900	106	135	1.40	3000
		11.83	143	100	1.80	2800	119	120	1.50	2900
		10.11	168	86	1.95	2700	140	103	1.65	2800
		9.47	179	80	2.10	2600	149	96	1.75	2800
		7.97	212	68	2.30	2500	177	81	1.95	2700
		6.67	253	57	2.50	2400	211	68	2.10	2500
		5.67	299	48	3.00	2300	249	58	2.50	2400
		5.06	335	43	3.10	2200	279	51	2.60	2400
		4.32	391	37	3.45	2100	326	44	2.90	2300
		4.05	418	34	3.60	2100	348	41	3.00	2200
		3.41	497	29	3.80	2000	414	35	3.20	2100

2.2kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
2.2kw	DR167 DR97	1670	1.01	18665	0.95	108000	0.84	22400	0.80	108000
		1438	1.18	16250	1.10	108000	0.98	19500	0.95	108000
		1279	1.32	14415	1.25	108000	1.1	17300	1.05	108000
		1123	1.56	12585	1.40	108000	1.3	15100	1.20	108000
		999	1.68	11250	1.60	108000	1.4	13500	1.35	108000
		861	1.92	9665	1.85	108000	1.6	11600	1.55	108000
		760	2.28	8585	2.10	108000	1.9	10300	1.75	108000
		656	2.64	7260	2.50	108000	2.2	8710	2.10	108000
	DR147 DR87	533	3.12	5940	2.15	65200	2.6	7130	1.80	64000
		462	3.6	5125	2.50	65600	3	6150	2.10	64900
		426	3.96	4785	2.75	65600	3.3	5740	2.30	65200
		368	4.56	4135	3.10	66000	3.8	4960	2.60	65600
		326	5.16	3660	3.60	66400	4.3	4390	3.00	66000
		1166	1.44	13165	0.95	56400	1.2	15800	0.80	53100
	DR147 DR77	1029	1.68	11585	1.10	58800	1.4	13900	0.95	54300

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
2.2kw	DR147 DR77	889	1.92	10000	1.30	61200	1.6	12000	1.10	57800
		784	2.16	8835	1.40	62400	1.8	10600	1.20	59900
		695	2.4	7835	1.65	63600	2	9400	1.40	61700
		619	2.76	7015	1.85	64000	2.3	8420	1.55	62700
		558	3	6315	2.00	64800	2.5	7580	1.70	63500
		489	3.48	5535	2.30	65200	2.9	6640	1.95	64400
		730	2.28	8240	0.95	47600	1.9	9890	0.80	30000
	DR137 DR77	699	2.4	7925	1.00	48400	2	9510	0.85	37600
		629	2.64	7085	1.10	50000	2.2	8500	0.95	46300
		609	2.76	6890	1.10	50000	2.3	8270	0.95	47300
		560	3	6350	1.25	50800	2.5	7620	1.05	48600
		490	3.48	5525	1.40	52000	2.9	6630	1.20	50300
		428	3.96	4825	1.65	52800	3.3	5790	1.40	51500
		381	4.44	4325	1.85	53200	3.7	5190	1.55	52300
		323	5.28	3665	2.15	53600	4.4	4400	1.80	53100
		291	5.76	3300	2.40	54000	4.8	3960	2.00	53600
		255	6.6	2885	2.75	54400	5.5	3460	2.30	53900
		223	7.56	2525	3.10	54400	6.3	3030	2.60	54300
	DR107 DR77	323	5.28	3660	1.20	29400	4.4	4390	1.00	25700
		285	5.88	3215	1.30	30900	4.9	3860	1.10	28300
		253	6.72	2850	1.50	32000	5.6	3420	1.25	30000
		214	7.92	2415	1.80	32600	6.6	2900	1.50	31600
		325	5.16	3735	1.10	29200	4.3	4480	0.95	25300
	DR97 DR57	209	8.16	2365	1.25	22400	6.8	2840	1.05	19800
	DR107	251.15	6.72	3115	1.35	31300	5.6	3740	1.15	29000
		229.95	7.32	2860	1.50	32000	6.1	3430	1.25	30200
		203.16	8.28	2525	1.65	32600	6.9	3030	1.40	31400
		172.34	9.84	2140	1.95	33000	8.2	2570	1.65	32500
		158.68	10.7	1965	2.15	33100	8.9	2360	1.80	32700
		141.83	11.9	1760	2.40	33300	9.9	2110	2.00	32900
		127.68	13.2	1585	2.75	33400	11	1900	2.30	33200
		115.63	14.4	1435	3.00	33500	12	1720	2.50	33300
		102.53	16.8	1275	3.35	33200	14	1530	2.80	33500
		92.7	18	1150	3.70	32300	15	1380	3.10	33600

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
2.2kw	DR97	216.28	7.8	2685	1.10	15800	6.5	3220	0.95	12400
		186.3	9.12	2315	1.30	19600	7.6	2780	1.10	20300
		170.02	9.96	2110	1.40	21700	8.3	2530	1.20	21500
		150.78	11.3	1875	1.60	24200	9.4	2250	1.35	22800
		126.75	13.2	1575	1.90	24800	11	1890	1.60	24100
		116.48	14.4	1450	2.10	25000	12	1740	1.75	24600
		103.44	16.8	1285	2.30	25100	14	1540	1.95	24800
		92.48	18	1150	2.60	25300	15	1380	2.20	25000
		83.15	20.4	1035	2.85	25000	17	1240	2.40	25200
		72.17	24	900	3.35	24000	20	1080	2.80	25400
		65.21	26.4	810	3.70	23300	22	970	3.10	24900
		59.92	28.8	740	4.05	22700	24	890	3.40	24300
		53.21	32.4	665	4.55	22000	27	795	3.80	23500
		47.58	36	590	5.00	21200	30	710	4.20	22800
	DR87	124.85	13.2	1550	1.00	11700	11	1860	0.85	12500
		118.32	14.4	1465	1.05	12800	12	1760	0.90	13700
		103.56	16.8	1285	1.20	15100	14	1540	1.00	15300
		93.29	18	1160	1.30	16700	15	1390	1.10	16100
		81.84	20.4	1015	1.50	17800	17	1220	1.25	17000
		72.50	22.8	900	1.70	18000	19	1080	1.45	17600
		63.62	26.4	790	1.95	18000	22	950	1.65	18000
		60.29	27.6	750	2.00	18000	23	900	1.70	18000
		52.77	32.4	655	2.30	17900	27	785	1.95	18000
		47.54	36	590	2.60	17400	30	710	2.20	18000
		41.70	40.8	515	3.00	16800	34	620	2.50	17900
		36.80	45.6	460	3.35	16200	38	550	2.80	17300
		32.63	51.6	405	3.80	15600	43	485	3.20	16700
		34.37	49.2	430	3.45	15800	41	515	2.90	16900
		31.37	54	390	3.95	15400	45	470	3.30	16500
		27.82	61.2	345	4.40	14900	51	415	3.70	15900
		23.38	72	290	5.25	14100	60	350	4.40	15100
		21.49	79.2	265	5.60	13800	66	320	4.70	14800

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
2.2kw	DR77	65.77	25.2	815	1.00	9100	21	980	0.85	8300
		57.68	28.8	715	1.10	9800	24	860	0.95	8600
		52.07	32.4	645	1.25	10200	27	775	1.05	9300
		45.81	37.2	570	1.40	10600	31	685	1.20	9900
		43.26	39.6	540	1.50	10800	33	645	1.25	10200
		36.83	45.6	460	1.80	10900	38	550	1.50	10600
		33.47	50.4	415	1.95	10600	42	500	1.65	10900
		29	58.8	360	2.25	10200	49	430	1.90	10900
		25.23	67.2	315	2.50	9900	56	375	2.10	10500
		23.37	72	290	2.75	9600	60	350	2.30	10300
		21.43	79.2	265	3.10	9400	66	320	2.60	10100
		18.8	90	235	3.35	9100	75	280	2.80	9700
		17.82	94.8	220	3.45	8900	79	265	2.90	9500
		15.6	108	190	3.80	8600	90	230	3.20	9200
		14.05	120	175	4.05	8300	100	210	3.40	8900
	DR67	39.88	42	495	1.20	7800	35	595	1.00	7000
		37.5	45.6	465	1.20	8000	38	560	1.00	7200
		32.27	52.8	400	1.30	8400	44	480	1.10	7900
		28.83	58.8	360	1.40	8200	49	430	1.20	8200
		23.44	72	290	1.90	7800	60	350	1.60	8200
		19.89	85.2	245	2.40	7400	71	295	2.00	7900
		17.95	94.8	225	2.60	7200	79	270	2.20	7700
		15.79	107	195	2.85	7000	89	235	2.40	7400
		14.91	114	185	3.00	6800	95	220	2.50	7300
		12.7	133	160	3.35	6600	111	189	2.80	7000
		11.54	146	145	3.45	6400	122	172	2.90	6800
		10	169	125	3.80	6100	141	149	3.20	6500
		8.7	194	110	4.05	5800	162	130	3.40	6300
		7.79	217	97	3.95	5700	181	116	3.30	6100
	DR57	37.3	45.6	465	0.95	4500	38	555	0.80	4500
		35.07	48	440	1.00	4400	40	525	0.85	4600
		30.18	56.4	375	1.20	4400	47	450	1.00	4500
		26.97	62.4	335	1.30	4300	52	400	1.10	4500
		21.93	76.8	270	1.65	4100	64	325	1.40	4300

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
2.2kw	DR57	18.6	91.2	230	1.90	4000	76	275	1.60	4200
		16.79	101	210	2.15	3900	84	250	1.80	4100
		14.77	114	185	2.40	3800	95	220	2.00	4000
		13.95	121	175	2.50	3800	101	210	2.10	4000
		11.88	143	150	2.75	3600	119	177	2.30	3800
		10.79	157	135	2.85	3500	131	161	2.40	3700
		9.35	181	115	3.20	3400	151	139	2.70	3600
		9.06	187	115	3.35	3400	156	135	2.80	3600
		7.97	212	99	3.60	3200	177	119	3.00	3500
	DR47	19.27	87.6	240	1.25	3100	73	285	1.05	3200
		16.22	104	200	1.35	3000	87	240	1.15	3100
		14.56	116	180	1.40	2900	97	215	1.20	3100
		12.54	134	155	1.60	2800	112	187	1.35	3000
		11.79	144	145	1.65	2800	120	176	1.40	2900
		10.15	167	125	1.80	2700	139	151	1.50	2800
		9.07	186	115	1.95	2600	155	135	1.65	2800
		8.01	211	99	2.00	2500	176	119	1.70	2700
		7.76	218	97	1.65	2500	182	116	1.40	2600
		6.96	244	87	1.85	2400	203	104	1.55	2600
		6	282	74	2.10	2300	235	89	1.75	2500
		5.64	300	70	2.20	2300	250	84	1.85	2400
		4.85	349	60	2.50	2200	291	72	2.10	2300
		4.34	390	54	2.75	2100	325	65	2.30	2300
		3.83	442	48	3.00	2100	368	57	2.50	2200
	DR37	15.6	108	190	1.00	1600	90	230	0.85	1100
		13.25	127	165	1.10	2000	106	198	0.95	1600
		11.83	143	145	1.25	2200	119	176	1.05	1800
		10.11	168	125	1.35	2400	140	151	1.15	2100
		9.47	179	120	1.40	2500	149	141	1.20	2200
		7.97	212	99	1.55	2400	177	119	1.30	2500
		6.67	253	83	1.70	2300	211	99	1.45	2200
		5.67	299	70	2.00	2200	249	84	1.70	2300
		5.06	335	63	2.15	2100	279	75	1.80	2300
		4.32	391	53	2.30	2000	326	64	1.95	2200
		4.05	418	50	2.40	2000	348	60	2.00	2100
		3.41	497	43	2.60	1900	414	51	2.20	2000

3.7kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
3.7kw	DR167 DR97	861	1.92	16340	1.05	108000	1.6	19610	0.90	108000
		760	2.28	14415	1.20	108000	1.9	17298	1.00	108000
		656	2.64	12335	1.35	108000	2.2	14800	1.15	108000
		503	3.36	9480	1.85	108000	2.8	11378	1.55	108000
		376	4.56	7085	2.50	108000	3.8	8501	2.10	108000
	DR147 DR87	533	3.24	10100	1.25	61200	2.7	12118	1.05	56000
		462	3.72	8710	1.40	62800	3.1	10453	1.20	59000
		426	3.96	8095	1.60	63200	3.3	9713	1.35	60100
		368	4.56	6985	1.85	64400	3.8	8381	1.55	62000
		326	5.28	6175	2.00	64800	4.4	7409	1.70	63200
		280	6.12	5280	2.45	65600	5.1	6336	2.05	64300
		247	6.84	4665	2.80	66000	5.7	5596	2.35	64900
		619	2.76	11795	1.05	58400	2.3	14153	0.90	54000
	DR147 DR77	558	3	10640	1.20	60400	2.5	12765	1.00	54500
		489	3.48	9330	1.35	62000	2.9	11193	1.15	57700
		415	4.08	7865	1.60	63200	3.4	9435	1.35	60500
	DR137 DR77	381	4.44	7270	1.05	49600	3.7	8723	0.90	38400
		376	4.56	7275	1.05	49600	3.8	8732	0.90	38700
		339	5.04	6555	1.20	50800	4.2	7863	1.00	46300
		323	5.28	6165	1.25	51200	4.4	7400	1.05	47800
		297	5.76	5745	1.30	51600	4.8	6891	1.10	48900
		291	5.88	5550	1.35	52000	4.9	6660	1.15	49300
		255	6.72	4850	1.60	52800	5.6	5818	1.35	50800
		223	7.56	4255	1.85	53200	6.3	5106	1.55	51800
	DR107 DR77	193	8.76	3730	1.10	29200	7.3	4477	0.95	17100
		187	9.12	3560	1.20	29800	7.6	4274	1.00	24500
		172	9.84	3340	1.25	30500	8.2	4005	1.05	26100
	DR107	172.34	9.84	3575	1.20	29800	8.2	4292	1.00	25600
		158.68	10.7	3290	1.25	30800	8.9	3950	1.05	27300
		141.83	12	2945	1.40	31800	10	3534	1.20	29200
		127.68	13.2	2645	1.60	32400	11	3173	1.35	30400
		115.63	14.4	2400	1.80	32700	12	2877	1.50	31400
		102.53	16.8	2130	1.95	32000	14	2553	1.65	32100

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
3.7kw	DR107	92.7	18	1920	2.15	31200	15	2303	1.80	32600
		78.57	21.6	1625	2.55	29800	18	1952	2.15	31400
		72.88	22.8	1510	2.80	29200	19	1813	2.35	30800
	DR97	116.48	14.4	2415	1.20	18600	12	2895	1.00	16500
		103.44	16.8	2145	1.35	21400	14	2572	1.15	20200
		92.48	18	1920	1.50	23700	15	2303	1.25	21700
		83.15	20.4	1725	1.70	23800	17	2072	1.45	22900
		72.17	24	1495	1.95	23000	20	1795	1.65	23900
		65.21	26.4	1350	2.15	22400	22	1619	1.80	23400
		59.92	28.8	1240	2.40	21900	24	1489	2.00	23000
		53.21	32.4	1105	2.70	21200	27	1323	2.25	22200
		47.58	36	985	2.90	20500	30	1184	2.45	21600
		42.78	39.6	885	3.35	19900	33	1064	2.80	21100
		37.13	45.6	770	3.80	19200	38	925	3.20	20300
		33.25	51.6	685	4.10	18600	43	823	3.45	19600
	DR87	63.62	26.4	1320	1.10	14600	22	1582	0.95	12000
		60.29	28.8	1250	1.20	15400	24	1499	1.00	12500
		52.77	32.4	1095	1.35	16000	27	1314	1.15	13700
		47.54	36	985	1.50	16400	30	1184	1.25	14400
		41.70	40.8	865	1.80	16000	34	1036	1.50	15100
		36.80	46.8	765	1.95	15500	39	916	1.65	15700
		32.63	51.6	680	2.20	15000	43	814	1.85	15800
		27.86	61.2	580	2.55	14400	51	694	2.15	15100
		34.37	49.2	715	2.00	15200	41	860	1.70	15800
		31.37	54	650	2.40	14900	45	777	2.00	15700
		27.82	61.2	580	2.70	14400	51	694	2.25	15100
		23.38	73.2	485	3.20	13700	61	583	2.70	14500
		21.49	79.2	450	3.35	13400	66	537	2.80	14100
		19.08	88.8	395	3.60	12900	74	476	3.00	13700
		17.06	99.6	355	3.80	12500	83	426	3.20	13200
		15.34	110	320	4.10	12100	92	384	3.45	12900
	DR77	36.83	46.8	765	1.05	9500	39	916	0.90	6500
		33.47	50.4	695	1.10	9900	42	833	0.95	8500
		29	58.8	600	1.30	9600	49	722	1.10	9300

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
3.7kw	DR77	25.23	67.2	525	1.40	9300	56	629	1.20	9700
		23.37	73.2	485	1.65	9200	61	583	1.40	9500
		21.43	79.2	445	1.80	9000	66	532	1.50	9400
		18.8	91.2	390	1.95	8700	76	467	1.65	9100
		17.82	96	370	2.10	8600	80	444	1.75	9000
		15.6	109	325	2.20	8300	91	389	1.85	8700
		14.05	121	295	2.45	8000	101	352	2.05	8400
		12.33	138	255	2.70	7800	115	305	2.25	8200
		10.88	157	230	2.90	7500	131	273	2.45	7900
		9.64	176	200	3.05	7200	147	241	2.55	7700
		8.59	198	180	3.45	7000	165	213	2.90	7500
		7.74	220	160	3.70	6800	183	194	3.10	7300
		6.79	251	140	4.10	6600	209	169	3.45	7000
	DR67	19.89	85.2	415	1.35	7000	71	495	1.15	7200
		17.95	94.8	375	1.50	6800	79	449	1.25	7000
		15.79	108	330	1.65	6600	90	393	1.40	6800
		14.91	114	310	1.70	6500	95	370	1.45	6800
		12.7	134	265	1.90	6200	112	315	1.60	6500
		11.54	148	240	2.00	6100	123	287	1.70	6400
		10	170	210	2.20	5900	142	250	1.85	6200
		8.7	196	180	2.45	5600	163	217	2.05	5900
		7.79	218	160	2.25	5500	182	194	1.90	5800
		7.36	232	155	2.40	5400	193	183	2.00	5700
		6.27	272	130	2.50	5200	227	156	2.10	5500
		5.7	299	120	2.55	5000	249	142	2.15	5300
		4.93	346	105	2.80	4800	288	123	2.35	5100
	DR57	18.6	91.2	385	1.10	3500	76	463	0.95	3200
		16.79	102	345	1.25	3500	85	416	1.05	3400
		14.77	115	305	1.35	3400	96	365	1.15	3400
		13.95	122	290	1.40	3400	102	347	1.20	3400
		11.88	144	245	1.60	3300	120	296	1.35	3300
		10.79	158	225	1.70	3200	132	268	1.45	3300
		9.35	182	195	1.85	3100	152	231	1.55	3200
		9.06	188	190	1.95	3100	157	227	1.65	3200

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
3.7kw	DR57	7.97	214	165	2.10	3100	178	199	1.75	3200
		7.53	227	160	2.20	3000	189	190	1.85	3100
		6.41	266	135	2.50	2900	222	159	2.10	3000
		5.82	293	120	2.55	2800	244	145	2.15	3000
		5.05	337	105	2.80	2700	281	126	2.35	2900
		4.39	388	91	3.05	2600	323	109	2.55	2800
	DR47	10.15	168	210	1.05	2400	140	254	0.90	1900
		9.07	188	190	1.10	2400	157	227	0.95	2200
		8.01	212	165	1.20	2300	177	199	1.00	2400
		6.96	245	145	1.05	2200	204	173	0.90	2200
		6	284	125	1.20	2100	237	149	1.00	2200
		5.64	302	120	1.25	2100	252	141	1.05	2200
		4.85	352	100	1.40	2100	293	121	1.20	2100
		4.34	392	90	1.60	2000	327	108	1.35	2100
		3.83	445	79	1.80	1900	371	95	1.50	2000

5.5kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
5.5kw	DR167 DR97	656	2.64	18335	0.95	108000	2.2	22000	0.80	108000
		579	3	16085	1.10	108000	2.5	19300	0.95	108000
		503	3.36	14085	1.25	108000	2.8	16900	1.05	108000
		432	3.96	12000	1.50	108000	3.3	14400	1.25	108000
		376	4.56	10500	1.70	108000	3.8	12600	1.45	108000
		335	5.16	9335	1.90	108000	4.3	11200	1.60	108000
		303	5.64	8415	2.15	108000	4.7	10100	1.80	108000
		279	6.12	7760	2.30	108000	5.1	9310	1.95	108000
	DR147 DR87	462	3.72	12915	1.00	56800	3.1	15500	0.85	41300
		426	3.96	12000	1.05	58000	3.3	14400	0.90	53100
		368	4.68	10335	1.25	60400	3.9	12400	1.05	57200
		326	5.28	9165	1.40	62000	4.4	11000	1.20	59400
		280	6.12	7840	1.65	63600	5.1	9410	1.40	61700

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
5.5kw	DR147 DR87	247	6.96	6915	1.85	64400	5.8	8300	1.55	62900
		214	8.04	5975	2.15	64800	6.7	7170	1.80	64000
		189	9.12	5285	2.40	65600	7.6	6340	2.00	64700
	DR137	222.6	7.68	6815	1.20	50400	6.4	8180	1.00	47700
		188.45	9.12	5765	1.35	51600	7.6	6920	1.15	50000
		174.4	9.84	5340	1.50	52000	8.2	6410	1.25	50800
		156.31	10.9	4785	1.65	52800	9.1	5740	1.40	51700
		141.12	12	4315	1.85	53200	10	5180	1.55	52400
		128.18	13.2	3925	2.00	53600	11	4710	1.70	52900
		113.72	15.6	3485	2.25	54000	13	4180	1.90	53400
		103.2	16.8	3160	2.50	54000	14	3790	2.10	53700
		88.7	19.2	2715	3.00	54400	16	3260	2.50	54200
		80.91	21.6	2475	3.20	54400	18	2970	2.70	54400
		73.49	22.8	2250	3.60	54800	19	2700	3.00	54500
		65.2	26.4	1990	3.95	54800	22	2390	3.30	54600
		59.17	28.8	1810	4.40	54800	24	2170	3.70	54800
		50.86	33.6	1560	5.15	54800	28	1870	4.30	54900
	DR107	127.68	13.2	3910	1.05	28400	11	4690	0.90	25000
		115.63	14.4	3540	1.20	29800	12	4250	1.00	27200
		102.53	16.8	3140	1.35	30400	14	3770	1.15	28900
		92.7	18	2835	1.50	29700	15	3400	1.25	30200
		78.57	21.6	2410	1.80	28600	18	2890	1.50	30200
		72.88	24	2235	1.90	28000	20	2680	1.60	29600
		65.6	26.4	2010	2.15	27300	22	2410	1.80	28900
		59.41	28.8	1815	2.30	26600	24	2180	1.95	28200
		52.68	32.4	1610	2.60	25700	27	1930	2.20	27300
		47.63	36	1460	3.00	25000	30	1750	2.50	26600
		40.37	42	1235	3.45	23900	35	1480	2.90	25400
	DR97	83.15	20.4	2540	1.20	16900	17	3050	1.00	18000
		72.17	24	2210	1.35	20400	20	2650	1.15	19600
		65.21	26.4	1990	1.50	21100	22	2390	1.25	22100
		59.92	28.8	1835	1.60	20800	24	2200	1.35	21800
		53.21	32.4	1625	1.85	20200	27	1950	1.55	21200

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
5.5kw	DR97	47.58	36	1460	2.00	19600	30	1750	1.70	20700
		42.78	39.6	1310	2.25	19100	33	1570	1.90	20300
		37.13	46.8	1135	2.60	18400	39	1360	2.20	19500
		33.25	51.6	1015	2.85	17900	43	1220	2.40	19000
		27.58	62.4	840	3.10	17000	52	1010	2.60	18100
		32.05	54	985	2.60	17800	45	1180	2.20	18800
		27.19	63.6	835	3.10	17000	53	1000	2.60	18000
		25.03	68.4	765	3.70	16600	57	920	3.10	17600
		22.37	76.8	685	3.95	16100	64	820	3.30	17100
		20.14	85.2	615	4.20	15600	71	740	3.50	16600
		18.24	93.6	560	4.40	15200	78	670	3.70	16100
		16.17	106	495	4.80	14600	88	595	4.00	15600
	DR87	47.54	36	1460	1.05	15500	30	1750	0.90	14100
		41.70	40.8	1275	1.20	15100	34	1530	1.00	15300
		36.80	46.8	1125	1.35	14700	39	1350	1.15	15500
		32.63	52.8	1000	1.55	14300	44	1200	1.30	15000
		27.86	61.2	850	1.70	13800	51	1020	1.45	14500
		27.82	61.2	850	1.80	13800	51	1020	1.50	14500
		23.38	73.2	715	2.15	13200	61	860	1.80	14000
		21.49	79.2	660	2.25	12900	66	790	1.90	13700
		19.08	90	585	2.40	12500	75	700	2.00	13200
		17.06	101	520	2.60	12100	84	625	2.20	12900
		15.34	112	470	2.85	11800	93	565	2.40	12500
		13.31	128	410	3.10	11300	107	490	2.60	12100
		11.92	144	365	3.35	11000	120	440	2.80	11700
		9.89	173	305	3.80	10400	144	365	3.20	11100
	DR77	18.8	91.2	575	1.35	8200	76	690	1.15	8300
		17.82	96	545	1.40	8100	80	655	1.20	8500
		15.6	110	480	1.55	7800	92	575	1.30	8200
		14.05	122	430	1.65	7600	102	515	1.40	8100
		12.33	139	380	1.80	7400	116	455	1.50	7800

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
5.5kw	DR77	10.88	157	335	1.95	7200	131	400	1.65	7600
		9.64	178	295	2.15	7000	148	355	1.80	7400
		8.59	199	265	2.40	6800	166	315	2.00	7300
		7.74	222	240	2.60	6600	185	285	2.20	7100
		6.79	253	210	2.75	6400	211	250	2.30	6800
		5.99	287	185	3.00	6200	239	220	2.50	6600
		5.31	323	165	3.10	6000	269	195	2.60	6400
	DR67	15.79	109	485	1.10	6100	91	580	0.95	5900
		14.91	115	460	1.20	6000	96	550	1.00	6200
		12.7	136	390	1.30	5800	113	465	1.10	6100
		11.54	149	355	1.40	5800	124	425	1.20	6000
		10	172	305	1.55	5600	143	365	1.30	5900
		8.7	197	265	1.65	5400	164	320	1.40	5700
		7.79	220	240	1.60	5300	183	285	1.35	5600
		7.36	233	225	1.60	5200	194	270	1.35	5500
		6.27	274	190	1.70	5000	228	230	1.45	5300
		5.7	301	175	1.80	4800	251	210	1.50	5100
		4.93	348	150	1.90	4700	290	181	1.60	5000
		4.29	400	130	2.00	4500	333	158	1.70	4800
	DR57	13.95	124	425	1.00	2700	103	510	0.85	2000
		11.88	144	365	1.10	2900	120	435	0.95	2600
		10.79	158	330	1.20	2900	132	395	1.00	2900
		9.35	184	290	1.30	2800	153	345	1.10	2900
		7.97	215	245	1.40	2800	179	295	1.20	2900
		7.53	228	230	1.50	2800	190	275	1.25	2900
		6.41	268	195	1.65	2700	223	235	1.40	2800
		5.82	295	180	1.80	2600	246	215	1.50	2800
		5.05	340	155	1.95	2600	283	185	1.65	2700
		4.39	391	135	2.10	2500	326	161	1.75	2600
	DR47	4.85	354	150	1.00	1900	295	178	0.85	1700
		4.34	396	135	1.05	1800	330	159	0.90	1900
		3.83	448	120	1.20	1800	373	141	1.00	1900

7.5kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
7.5kw	DR167 DR97	503	3.36	19250	0.95	108000	2.8	23100	0.80	108000
		432	3.96	16500	1.05	108000	3.3	19800	0.90	108000
		376	4.56	14415	1.25	108000	3.8	17300	1.05	108000
		335	5.16	12835	1.35	108000	4.3	15400	1.15	108000
		303	5.64	11585	1.55	108000	4.7	13900	1.30	108000
		279	6.12	10665	1.65	108000	5.1	12800	1.40	108000
	DR147 DR87	326	5.28	12500	1.00	57600	4.4	15000	0.85	55800
		280	6.12	10750	1.20	60400	5.1	12900	1.00	56300
		247	6.96	9500	1.35	62000	5.8	11400	1.15	58900
		214	8.04	8175	1.55	63200	6.7	9810	1.30	61100
		189	9.12	7235	1.80	64000	7.6	8680	1.50	62500
		159	10.8	6075	2.15	64800	9	7290	1.80	63900
	DR137	188.45	9.12	7865	1.00	48800	7.6	9440	0.85	41700
		174.4	9.84	7275	1.05	49600	8.2	8730	0.90	46800
		156.31	10.9	6525	1.20	50800	9.1	7830	1.00	48300
		141.12	12	5890	1.35	51600	10	7070	1.15	49700
		128.18	13.2	5350	1.50	52400	11	6420	1.25	50800
		113.72	15.2	4750	1.65	52800	12.7	5700	1.40	51800
		103.2	16.8	4310	1.85	53200	14	5170	1.55	52400
		88.7	19.2	3700	2.15	54000	16	4440	1.80	53200
		80.91	21.6	3375	2.30	54000	18	4050	1.95	53600
		73.49	22.8	3065	2.60	54400	19	3680	2.20	53800
		65.2	26.4	2725	3.00	54400	22	3270	2.50	54100
		59.17	28.8	2465	3.20	54400	24	2960	2.70	54400
		50.86	33.6	2125	3.70	54800	28	2550	3.10	54500
	DR107	92.7	18	3865	1.10	28300	15	4640	0.95	25400
		78.57	21.6	3285	1.30	27400	18	3940	1.10	28200
		72.88	24	3040	1.40	26900	20	3650	1.20	28200
		65.6	26.4	2740	1.55	26200	22	3290	1.30	27500
		59.41	28.8	2485	1.70	25600	24	2980	1.45	27000
		52.68	32.4	2200	1.95	24900	27	2640	1.65	26300
		47.63	36	1990	2.15	24300	30	2390	1.80	25700
		40.37	42	1685	2.50	23200	35	2020	2.10	24600

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
7.5kw	DR107	35.26	49.2	1475	2.85	22400	41	1770	2.40	23800
		29.49	57.6	1235	3.45	21400	48	1480	2.90	22700
		30.77	55.2	1285	3.35	21600	46	1540	2.80	23000
		27.58	62.4	1150	3.70	21000	52	1380	3.10	22200
		24.9	68.4	1040	4.20	20400	57	1250	3.50	21700
		22.62	75.6	940	4.55	19800	63	1130	3.80	21100
	DR97	59.92	28.8	2500	1.20	19600	24	3000	1.00	19400
		53.21	32.4	2225	1.35	19200	27	2670	1.15	20000
		47.58	36	1985	1.50	18800	30	2380	1.25	19600
		42.78	39.6	1785	1.65	18300	33	2140	1.40	19200
		37.13	46.8	1550	1.90	17800	39	1860	1.60	18600
		33.25	51.6	1390	2.10	17300	43	1670	1.75	18200
		32.05	54	1340	1.90	17200	45	1610	1.60	18000
		27.58	62.4	1150	2.30	16500	52	1380	1.95	17500
		27.19	63.6	1135	2.25	16400	53	1360	1.90	17400
		25.03	68.4	1040	2.75	16100	57	1250	2.30	17000
		22.37	76.8	935	2.85	15600	64	1120	2.40	16600
		20.14	85.2	840	3.10	15200	71	1010	2.60	16100
		18.24	93.6	760	3.20	14800	78	910	2.70	15800
	DR87	36.80	46.8	1535	1.00	13900	39	1840	0.85	13200
		32.63	52.8	1365	1.10	13600	44	1640	0.95	14100
		27.86	61.2	1165	1.25	13100	51	1400	1.05	13700
		27.82	61.2	1160	1.30	13100	51	1390	1.10	13700
		23.38	73.2	975	1.55	12600	61	1170	1.30	13200
		21.49	79.2	900	1.65	12400	66	1080	1.40	13100
		19.08	90	800	1.80	12000	75	960	1.50	12700
		17.06	101	715	1.95	11700	84	860	1.65	12300
		15.34	112	640	2.10	11400	93	770	1.75	11300
		13.31	128	560	2.25	11000	107	670	1.90	11600
		11.92	144	500	2.50	10700	120	600	2.10	11300
		9.89	173	415	2.85	10200	144	495	2.40	10800
		9.14	187	385	3.10	10100	156	460	2.60	10700

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
7.5kw	DR87	8.22	209	340	3.35	9800	174	410	2.80	10400
		7.13	240	295	3.60	9400	200	355	3.00	10000
		6.39	269	265	3.80	9100	224	320	3.20	9700
		5.30	324	220	4.05	8600	270	265	3.40	9200
		18.8	91.2	785	1.00	6200	76	940	0.85	5000
	DR77	17.82	96	740	1.00	6400	80	890	0.85	5300
		15.6	110	650	1.10	7000	92	780	0.95	5900
		14.05	122	590	1.20	7300	102	705	1.00	6500
		12.33	139	515	1.30	7100	116	615	1.10	7000
		10.88	157	455	1.40	6900	131	545	1.20	7200
		9.64	178	405	1.55	6700	148	485	1.30	7000
		8.59	199	360	1.70	6600	166	430	1.45	6900
		7.74	222	325	1.85	6500	185	390	1.55	6800
		6.79	253	285	2.00	6200	211	340	1.70	6600
		5.99	287	250	2.15	6000	239	300	1.80	6400
		5.31	323	220	2.25	5800	269	265	1.90	6200
	DR67	12.7	136	530	0.95	5000	113	635	0.80	4000
		11.54	149	485	1.00	5400	124	580	0.85	4500
		10	172	415	1.10	5300	143	500	0.95	5200
		8.7	197	365	1.20	5100	164	435	1.00	5300
		7.79	220	325	1.10	5000	183	390	0.95	5000
		7.36	233	310	1.20	5000	194	370	1.00	5100
		6.27	274	265	1.25	4800	228	315	1.05	5000
		5.7	301	240	1.30	4700	251	285	1.10	4900
		4.93	348	205	1.35	4500	290	245	1.15	4800
	DR57	4.29	400	180	1.50	4400	333	215	1.25	4600
		7.97	215	335	1.05	1800	179	400	0.90	1000
		7.53	228	315	1.10	2000	190	375	0.95	1300
		6.41	268	265	1.25	2500	223	320	1.05	1900
		5.82	295	240	1.30	2500	246	290	1.10	2200
		5.05	340	215	1.40	2400	283	255	1.20	2500
		4.39	391	185	1.50	2400	326	220	1.25	2400

11kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
11kw	DR167 DR107	295	5.88	16335	1.05	108000	4.9	19600	0.90	108000
		270	6.36	15085	1.20	108000	5.3	18100	1.00	108000
		229	7.56	12750	1.40	108000	6.3	15300	1.20	108000
		200	8.64	11165	1.60	108000	7.2	13400	1.35	108000
		169	10.2	9415	1.90	108000	8.5	11300	1.60	108000
		291	6	16500	1.05	108000	5	19800	0.90	108000
	DR167 DR97	335	5.16	18750	0.95	108000	4.3	22500	0.80	108000
		303	5.76	16915	1.05	108000	4.8	20300	0.90	108000
		279	6.24	15585	1.10	108000	5.2	18700	0.95	108000
	DR147 DR87	214	8.04	11915	1.05	58000	6.7	14300	0.90	53800
		189	9.12	10585	1.25	60000	7.6	12700	1.05	56700
		159	10.9	8915	1.40	62400	9.1	10700	1.20	59900
	DR167	229.71	7.56	14000	1.25	108000	6.3	16800	1.05	108000
		186.93	9.24	11335	1.55	108000	7.7	13600	1.30	108000
		153.07	11.3	9335	1.90	108000	9.4	11200	1.60	108000
		139.98	12	8500	2.10	108000	10	10200	1.75	108000
		121.81	14.4	7410	2.40	108000	12	8890	2.00	108000
		107.49	15.6	6535	2.75	108000	13	7840	2.30	108000
		93.19	18	5665	3.20	108000	15	6800	2.70	108000
		82.91	20.4	5040	3.60	108000	17	6050	3.00	108000
	DR147	163.57	10.6	9915	1.30	61200	8.8	11900	1.10	58700
		147.14	11.8	8915	1.40	62400	9.8	10700	1.20	60000
		120.04	14.4	7285	1.80	64000	12	8740	1.50	62500
		109.48	15.6	6640	1.95	64400	13	7970	1.65	63300
		94.75	18	5750	2.25	65200	15	6900	1.90	64300
		83.6	20.4	5075	2.50	65600	17	6090	2.10	64900
		72.2	24	4385	3.00	66000	20	5260	2.50	65500
		67.09	26.4	4075	3.20	66000	22	4890	2.70	65700
		61.19	28.8	3715	3.45	66400	24	4460	2.90	66000
		52.96	32.4	3215	4.05	66400	27	3860	3.40	66200
	DR137	128.18	13.2	7790	1.00	48400	11	9350	0.85	42400
		113.72	15.6	6915	1.10	50000	13	8300	0.95	47800
		103.2	16.8	6275	1.25	50800	14	7530	1.05	49200

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
11kw	DR137	88.7	19.2	5390	1.50	52000	16	6470	1.25	50900
		80.91	21.6	4915	1.60	52800	18	5900	1.35	51700
		73.49	24	4465	1.80	53200	20	5360	1.50	52300
		65.2	26.4	3965	2.00	53600	22	4760	1.70	52900
		59.17	28.8	3600	2.20	54000	24	4320	1.85	53400
		50.86	33.6	3090	2.60	54000	28	3710	2.20	53800
		44.39	38.4	2700	3.00	54400	32	3240	2.50	54200
		37.65	45.6	2290	3.45	54800	38	2750	2.90	54500
		32.91	52.8	2000	3.95	54800	44	2400	3.30	54700
	DR107	65.6	26.4	3990	1.05	24300	22	4790	0.90	24500
		59.41	28.8	3610	1.20	23900	24	4330	1.00	24800
		52.68	32.4	3200	1.30	23300	27	3840	1.10	24300
		47.63	36	2890	1.50	22800	30	3470	1.25	23900
		40.37	43.2	2450	1.70	22000	36	2940	1.45	23000
		35.26	49.2	2140	1.95	21400	41	2570	1.65	22400
		30.77	56.4	1865	2.25	20700	47	2240	1.90	21800
		29.49	58.8	1790	2.40	20500	49	2150	2.00	21600
		27.58	62.4	1675	2.50	20100	52	2010	2.10	21200
		24.9	69.6	1515	2.85	19600	58	1820	2.40	20800
		22.62	76.8	1375	3.10	19100	64	1650	2.60	20300
		20.07	86.4	1215	3.45	18500	72	1460	2.90	19600
		18.21	94.8	1110	3.80	18000	79	1330	3.20	19200
	DR97	42.78	40.8	2600	1.10	16800	34	3120	0.95	16000
		37.13	46.8	2260	1.30	16400	39	2710	1.10	17000
		33.25	51.6	2025	1.40	16100	43	2430	1.20	16700
		27.58	62.4	1675	1.60	15500	52	2010	1.35	16200
		25.03	69.6	1525	1.85	15200	58	1830	1.55	15900
		22.37	76.8	1360	1.95	14800	64	1630	1.65	15600
		20.14	85.2	1225	2.15	14500	71	1470	1.80	15200
		18.24	94.8	1110	2.25	14200	79	1330	1.90	14900
		16.17	107	985	2.40	13700	89	1180	2.00	14500
		14.62	118	890	2.60	13400	98	1070	2.20	14100
		12.39	139	750	2.85	12800	116	900	2.40	13600
		10.83	160	660	3.20	12400	133	790	2.70	13100

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
11kw	DR97	9.29	186	565	3.60	12000	155	675	3.00	12900
		8.39	206	510	3.95	11700	172	610	3.30	12500
		7.12	242	435	4.55	11200	202	520	3.80	11900
		6.21	278	380	5.00	10700	232	455	4.20	11400
	DR87	21.49	80.4	1310	1.10	11500	67	1570	0.95	11900
		19.08	90	1160	1.25	11200	75	1390	1.05	11700
		17.06	101	1040	1.30	11000	84	1250	1.10	11500
		15.34	113	935	1.40	10800	94	1120	1.20	11300
		13.31	130	810	1.55	10400	108	970	1.30	11000
		11.92	145	725	1.65	10200	121	870	1.40	10700
		9.89	174	600	1.95	9700	145	720	1.65	10300
		9.14	190	555	2.15	9800	158	665	1.80	10400
		8.22	210	500	2.30	9500	175	600	1.95	10100
		7.13	242	435	2.50	9100	202	520	2.10	9700
		6.39	270	390	2.60	8800	225	465	2.20	9400
		5.3	326	320	2.75	8400	272	385	2.30	8900
	DR77	10.88	158	665	1.00	4800	132	795	0.85	4000
		9.64	179	590	1.05	5200	149	705	0.90	4600
		7.74	223	470	1.30	4900	186	565	1.10	4300
		6.79	254	415	1.35	5300	212	495	1.15	4800
		5.99	288	365	1.50	5600	240	435	1.25	5200
		5.31	325	325	1.55	5600	271	390	1.30	5500

15kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
15kw	DR167 DR107	229	7.68	17250	1.00	108000	6.4	20700	0.85	108000
		200	8.76	15085	1.20	108000	7.3	18100	1.00	108000
		169	10.3	12665	1.40	108000	8.6	15200	1.20	108000
		227	7.68	17335	1.00	108000	6.4	20800	0.85	108000
		198	8.88	15085	1.20	108000	7.4	18100	1.00	108000

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
15kw	DR167	229.71	7.68	18750	0.95	108000	6.4	22500	0.80	108000
		186.93	9.36	15250	1.20	108000	7.8	18300	1.00	108000
		153.07	11.4	12500	1.40	108000	9.5	15000	1.20	108000
		139.98	12	11415	1.55	108000	10	13700	1.30	108000
		121.81	14.4	10000	1.80	108000	12	12000	1.50	108000
		107.49	16.2	8750	2.00	108000	13.5	10500	1.70	108000
		93.19	19.2	7615	2.30	108000	16	9140	1.95	108000
		82.91	21.6	6775	2.60	108000	18	8130	2.20	108000
		73.7	24	6025	3.00	108000	20	7230	2.50	108000
		67.4	26.4	5510	3.20	108000	22	6610	2.70	108000
	DR147	163.57	10.7	13335	0.95	56000	8.9	16000	0.80	34700
		147.14	11.9	12000	1.05	58400	9.9	14400	0.90	53100
		120.04	14.4	9835	1.30	61600	12	11800	1.10	58700
		109.48	15.6	8915	1.40	62400	13	10700	1.20	60200
		94.75	18	7735	1.65	63600	15	9280	1.40	62000
		83.6	20.4	6825	1.90	64400	17	8190	1.60	63200
		72.2	24	5890	2.20	65200	20	7070	1.85	64200
		67.09	26.4	5475	2.40	65200	22	6570	2.00	64600
		61.19	28.8	4990	2.60	65600	24	5990	2.20	65100
		52.96	33.6	4325	3.00	66000	28	5190	2.50	65600
		46.73	37.2	3815	3.35	66400	31	4580	2.80	65900
	DR137	88.7	19.2	7250	1.05	49600	16	8700	0.90	46200
		80.91	21.6	6615	1.20	50400	18	7940	1.00	48300
		73.49	24	6010	1.30	51600	20	7210	1.10	49600
		65.2	26.4	5335	1.50	52400	22	6400	1.25	50800
		59.17	30	4835	1.65	52800	25	5800	1.40	51600
		50.86	34.8	4160	1.90	53600	29	4990	1.60	52600
		44.39	39.6	3635	2.20	54000	33	4360	1.85	53200
		37.65	46.8	3075	2.60	54400	39	3690	2.20	53800
		32.91	52.8	2690	3.00	54400	44	3230	2.50	54200
		27.83	62.4	2275	3.35	54800	52	2730	2.80	54500
	DR107	47.63	37.2	3890	1.05	21400	31	4670	0.90	22000
		40.37	43.2	3300	1.30	20800	36	3960	1.10	21500
		35.26	49.2	2885	1.50	20300	41	3460	1.25	21100

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
15kw	DR107	29.49	60	2410	1.80	19600	50	2890	1.50	20300
		30.77	56.4	2515	1.65	19800	47	3020	1.40	20500
		27.58	63.6	2260	1.90	19300	53	2710	1.60	20200
		24.9	70.8	2035	2.10	18900	59	2440	1.75	19700
		22.62	78	1850	2.30	18400	65	2220	1.95	19300
		20.07	87.6	1640	2.60	17900	73	1970	2.20	18800
		18.21	96	1490	2.85	17500	80	1790	2.40	18400
		15.65	112	1285	3.35	16800	93	1540	2.80	17700
		13.66	128	1115	3.80	16200	107	1340	3.20	17100
	DR97	27.58	63.6	2260	1.20	14500	53	2710	1.00	14900
		25.03	69.6	2050	1.35	14300	58	2460	1.15	14700
		22.37	78	1835	1.50	14000	65	2200	1.25	14500
		20.14	86.4	1650	1.55	13800	72	1980	1.30	14200
		18.24	96	1490	1.65	13500	80	1790	1.40	14000
		16.17	108	1325	1.80	13200	90	1590	1.50	13700
		14.62	120	1190	1.90	12900	100	1430	1.60	13400
		12.39	142	1015	2.15	12400	118	1220	1.80	13000
		10.83	162	885	2.30	12000	135	1060	1.95	12600
		9.29	188	760	2.60	11800	157	910	2.20	12400
		8.39	209	685	3.00	11400	174	820	2.50	12100
		7.12	246	585	3.45	10900	205	700	2.90	11500
		6.21	282	510	3.70	10500	235	610	3.10	11200
	DR87	17.06	102	1400	1.00	10200	85	1680	0.85	10400
		15.34	114	1260	1.05	10100	95	1510	0.90	10400
		13.31	132	1090	1.20	9800	110	1310	1.00	10200
		11.92	146	975	1.25	9600	122	1170	1.05	10000
		9.89	176	810	1.40	9300	147	970	1.20	9600
		9.14	192	750	1.60	9400	160	900	1.35	9900
		8.22	214	675	1.70	9200	178	810	1.45	9600
		7.13	246	585	1.85	8900	205	700	1.55	9300
		6.39	275	520	1.95	8600	229	625	1.65	9100
		5.30	330	435	2.10	8200	275	520	1.75	8600

18.5kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
18.5kw	DR167	186.93	9.36	18750	0.95	108000	7.8	22500	0.80	108000
		153.07	11.5	15415	1.20	108000	9.6	18500	1.00	108000
		139.98	12	14085	1.25	108000	10	16900	1.05	108000
		121.81	14.4	12250	1.50	108000	12	14700	1.25	108000
		107.49	16.8	10665	1.65	108000	14	12800	1.40	108000
		93.19	19.2	9335	1.90	108000	16	11200	1.60	108000
		82.91	21.6	8335	2.15	108000	18	10000	1.80	108000
		73.7	24	7410	2.40	108000	20	8890	2.00	108000
		67.4	26.4	6775	2.60	108000	22	8130	2.20	108000
		58.65	30	5890	3.00	108000	25	7070	2.50	108000
	DR147	120.04	14.4	12085	1.05	58000	12	14500	0.90	52600
		109.48	15.6	11000	1.20	59600	13	13200	1.00	56300
		94.75	18	9500	1.35	61600	15	11400	1.15	59000
		83.6	21.6	8415	1.55	62800	18	10100	1.30	60900
		72.2	24	7240	1.80	64000	20	8690	1.50	62600
		67.09	26.4	6735	1.90	64400	22	8080	1.60	63200
		61.19	28.8	6140	2.10	64800	24	7370	1.75	63900
		52.96	33.6	5315	2.40	65200	28	6380	2.00	64700
		46.73	37.2	4690	2.75	65600	31	5630	2.30	65300
		40.35	43.2	4050	3.20	66000	36	4860	2.70	65700
	DR137	80.91	21.6	8135	0.95	48000	18	9760	0.80	33800
		73.49	24	7385	1.05	49200	20	8860	0.90	45200
		65.2	26.4	6550	1.20	50400	22	7860	1.00	48300
		59.17	30	5950	1.30	51200	25	7140	1.10	49600
		50.86	34.8	5110	1.55	52400	29	6130	1.30	51100
		44.39	39.6	4460	1.80	53200	33	5350	1.50	52200
		37.65	46.8	3785	2.10	53600	39	4540	1.75	53000
		32.91	54	3310	2.40	54000	45	3970	2.00	53600
		29.57	60	2975	2.60	54400	50	3570	2.20	53900
		27.83	63.6	2800	2.75	54400	53	3360	2.30	54100
		24.12	73.2	2425	3.35	54400	61	2910	2.80	54400

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
18.5kw	DR137	22	80.4	2210	3.60	54800	67	2650	3.00	54500
		19.04	92.4	1915	4.20	54800	77	2300	3.50	54700
		16.8	104	1690	4.80	54800	87	2030	4.00	54800
	DR107	40.37	43.2	4060	1.05	19600	36	4870	0.90	19900
		35.26	50.4	3540	1.20	19200	42	4250	1.00	19800
		29.49	60	2965	1.40	18700	50	3560	1.20	19400
		24.9	70.8	2500	1.70	18100	59	3000	1.45	18800
		22.62	78	2275	1.90	17800	65	2730	1.60	18500
		20.07	87.6	2015	2.15	17300	73	2420	1.80	18100
		18.21	96	1835	2.30	17000	80	2200	1.95	17700
		15.65	113	1575	2.75	16400	94	1890	2.30	17200
		13.66	128	1375	3.10	15800	107	1650	2.60	16700
		11.59	151	1165	3.70	15200	126	1400	3.10	16000
		10.13	174	1015	4.20	14700	145	1220	3.50	15500
		7.86	223	790	3.70	13900	186	950	3.10	14700
		6.66	264	665	4.40	13200	220	800	3.70	14000
	DR97	20.14	87.6	2025	1.25	13000	73	2430	1.05	13400
		18.24	96	1835	1.35	12800	80	2200	1.15	13200
		16.17	109	1625	1.50	12600	91	1950	1.25	13100
		14.62	120	1465	1.55	12300	100	1760	1.30	12800
		12.39	142	1240	1.70	11900	118	1490	1.45	12400
		10.83	162	1090	1.90	11600	135	1310	1.60	12200
		9.29	190	935	2.15	11500	158	1120	1.80	12100
		8.39	210	840	2.40	11200	175	1010	2.00	11800
		7.12	247	715	2.75	10700	206	860	2.30	11300
		6.21	283	625	3.00	10300	236	750	2.50	10900
		5.2	338	520	3.35	9800	282	625	2.80	10400
		4.5	391	455	3.60	9400	326	545	3.00	10000
	DR87	11.92	148	1200	1.00	9100	123	1440	0.85	9400
		9.89	178	990	1.20	8800	148	1190	1.00	9200
		9.14	192	915	1.30	9100	160	1100	1.10	9500
		8.22	214	825	1.35	8900	178	990	1.15	9300

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
18.5kw	DR87	7.13	246	715	1.50	8600	205	860	1.25	9000
		6.39	275	640	1.55	8400	229	770	1.30	8800
		5.30	331	535	1.65	8000	276	640	1.40	8400

22kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
22kw	DR167	153.07	11.5	18335	0.95	108000	9.6	22000	0.80	108000
		139.98	12	16750	1.05	108000	10	20100	0.90	108000
		121.81	14.4	14585	1.25	108000	12	17500	1.05	108000
		107.49	16.8	12835	1.35	108000	14	15400	1.15	108000
		93.19	19.2	11165	1.60	108000	16	13400	1.35	108000
		82.91	21.6	9915	1.80	108000	18	11900	1.50	108000
		73.7	24	8835	2.00	108000	20	10600	1.70	108000
		67.4	26.4	8060	2.20	108000	22	9670	1.85	108000
		58.65	30	7010	2.50	108000	25	8410	2.10	108000
		51.76	33.6	6185	2.85	108000	28	7420	2.40	108000
		44.87	39.6	5360	3.35	108000	33	6430	2.80	108000
	DR147	109.48	15.6	13085	1.00	56000	13	15700	0.85	38800
		94.75	18	11335	1.10	59200	15	13600	0.95	55500
		83.6	21.6	10000	1.30	60800	18	12000	1.10	58300
		72.2	24	8585	1.50	62400	20	10300	1.25	60600
		67.09	26.4	8010	1.60	63200	22	9610	1.35	61500
		61.19	28.8	7300	1.80	64000	24	8760	1.50	62500
		52.96	33.6	6315	2.00	64800	28	7580	1.70	63700
		46.73	37.2	5575	2.30	65200	31	6690	1.95	64400
		40.35	43.2	4815	2.60	65600	36	5780	2.20	65200
		35.69	49.2	4260	3.00	66000	41	5110	2.50	65600
		30	58.8	3585	3.60	66400	49	4300	3.00	66100
	DR137	65.2	26.4	7790	1.00	48400	22	9350	0.85	40400
		59.17	30	7065	1.10	49600	25	8480	0.95	46700
		50.86	34.8	6075	1.30	51200	29	7290	1.10	49300

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
22kw	DR137	44.39	39.6	5310	1.50	52000	33	6370	1.25	50900
		37.65	46.8	4500	1.80	53200	39	5400	1.50	52100
		32.91	54	3935	2.00	53600	45	4720	1.70	52800
		29.57	60	3535	2.20	54000	50	4240	1.85	53400
		27.83	63.6	3325	2.25	54000	53	3990	1.90	53600
		24.12	73.2	2885	2.75	54400	61	3460	2.30	54000
		22	80.4	2625	3.00	54400	67	3150	2.50	54200
		19.04	92.4	2275	3.45	54800	77	2730	2.90	54500
		16.8	104	2010	3.95	54800	87	2410	3.30	54600
		14.51	121	1735	4.55	54400	101	2080	3.80	54800
		12.83	137	1535	5.15	52800	114	1840	4.30	54900
	DR107	35.26	50.4	4215	1.00	18200	42	5060	0.85	10400
		29.49	60	3525	1.20	17800	50	4230	1.00	18400
		24.9	70.8	2975	1.40	17400	59	3570	1.20	18000
		22.62	78	2700	1.60	17100	65	3240	1.35	17700
		20.07	87.6	2400	1.80	16700	73	2880	1.50	17400
		18.21	96	2175	1.95	16400	80	2610	1.65	17100
		15.65	113	1865	2.25	15900	94	2240	1.90	16700
		13.66	128	1635	2.60	15400	107	1960	2.20	16200
		11.59	151	1385	3.10	14800	126	1660	2.60	15600
		10.13	174	1210	3.60	14400	145	1450	3.00	15100
		8.56	205	1025	4.20	13800	171	1230	3.50	14500
		7.86	223	940	3.10	13700	186	1130	2.60	14500
		6.66	264	800	3.70	13100	220	960	3.10	13900
		5.82	302	700	4.30	12600	252	840	3.60	13300
	DR97	20.14	87.6	2410	1.05	12300	73	2890	0.90	12600
		18.24	96	2185	1.10	12200	80	2620	0.95	12500
		16.17	109	1935	1.25	12000	91	2320	1.05	12300
		14.62	120	1750	1.30	11800	100	2100	1.10	12200
		12.39	142	1485	1.50	11500	118	1780	1.25	11900
		10.83	162	1290	1.60	11200	135	1550	1.35	11700
		9.29	190	1110	1.80	11200	158	1330	1.50	11800
		8.39	210	1000	2.00	11000	175	1200	1.70	11500

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
22kw	DR97	7.12	247	850	2.30	10500	206	1020	1.95	11100
		6.21	283	740	2.50	10200	236	890	2.10	10700
		5.2	338	620	2.85	9700	282	745	2.40	10300
		4.5	391	540	3.00	9300	326	645	2.50	9800
	DR87	9.89	178	1185	1.00	8400	148	1420	0.85	8700
		9.14	192	1090	1.05	8800	160	1310	0.90	9100
		8.22	214	985	1.20	8600	178	1180	1.00	9000
		7.13	246	850	1.25	8400	205	1020	1.05	8700
		6.39	275	765	1.30	8200	229	920	1.10	8500
		5.30	331	635	1.40	7800	276	760	1.20	8200

30kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
30kw	DR167	107.49	16.8	17415	1.00	108000	14	20900	0.85	108000
		93.19	19.2	15165	1.20	108000	16	18200	1.00	108000
		82.91	21.6	13500	1.30	108000	18	16200	1.10	108000
		73.7	24	12000	1.50	108000	20	14400	1.25	108000
		67.4	26.4	10915	1.60	108000	22	13100	1.35	108000
		58.65	30	9500	1.85	108000	25	11400	1.55	108000
		51.76	33.6	8415	2.15	108000	28	10100	1.80	108000
		44.87	39.6	7285	2.50	108000	33	8740	2.10	108000
		39.92	44.4	6485	2.75	108000	37	7780	2.30	108000
		34.41	51.6	5590	3.20	108000	43	6710	2.70	108000
	DR147	72.2	24	11665	1.10	58800	20	14000	0.95	54500
		67.09	26.4	10915	1.20	60000	22	13100	1.00	56300
		61.19	28.8	9915	1.30	61200	24	11900	1.10	58200
		52.96	33.6	8585	1.50	62800	28	10300	1.25	60600
		46.73	38.4	7575	1.70	63600	32	9090	1.45	62100
		40.35	43.2	6540	1.95	64400	36	7850	1.65	63500
		35.69	49.2	5790	2.20	65200	41	6950	1.85	64300

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
30kw	DR147	30	58.8	4865	2.60	65600	49	5840	2.20	65100
		24.23	73.2	3925	3.00	66000	61	4710	2.50	65800
		20.47	86.4	3315	3.60	66400	72	3980	3.00	66200
		18.06	98.4	2925	3.60	66400	82	3510	3.00	66400
		15.66	113	2540	5.15	66800	94	3050	4.30	66600
	DR137	50.86	34.8	8260	0.95	47600	29	9910	0.80	30200
		44.39	39.6	7210	1.05	49600	33	8650	0.90	46300
		37.65	46.8	6115	1.30	51200	39	7340	1.10	49300
		32.91	54	5340	1.50	52400	45	6410	1.25	50800
		27.83	63.6	4515	1.65	53200	53	5420	1.40	52100
		24.12	73.2	3915	2.00	53600	61	4700	1.70	52900
		22	80.4	3575	2.20	54000	67	4290	1.85	53300
		19.04	92.4	3090	2.60	54000	77	3710	2.20	53800
		16.8	106	2725	2.85	53200	88	3270	2.40	54200
		14.51	121	2360	3.35	52000	101	2830	2.80	53600
		12.83	138	2085	3.80	50800	115	2500	3.20	52600
		10.79	163	1750	4.55	49200	136	2100	3.80	50900
		7.59	233	1235	4.20	46000	194	1480	3.50	48000
		6.38	276	1035	4.90	44000	230	1240	4.10	46200
	DR107	20.07	87.6	3260	1.30	15500	73	3910	1.10	15800
		18.21	97.2	2960	1.40	15300	81	3550	1.20	15700
		15.65	113	2540	1.65	15000	94	3050	1.40	15400
		13.66	130	2215	1.90	14600	108	2660	1.60	15100
		11.59	152	1885	2.25	14200	127	2260	1.90	14700
		10.13	174	1640	2.60	13800	145	1970	2.20	14300
		8.56	206	1390	3.10	13200	172	1670	2.60	13900
		7.86	224	1275	2.30	13300	187	1530	1.95	14000
		6.66	265	1085	2.75	12700	221	1300	2.30	13400
		5.82	302	950	3.10	12300	252	1140	2.60	13000
		4.92	359	800	3.60	11700	299	960	3.00	12300
	DR97	14.62	121	2375	0.95	10700	101	2850	0.80	10800
		12.39	143	2015	1.05	10600	119	2420	0.90	10700

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
30kw	DR97	10.83	163	1760	1.20	10400	136	2110	1.00	10600
		9.29	190	1510	1.30	10700	158	1810	1.10	11100
		8.39	210	1365	1.50	10400	175	1640	1.25	10900
		7.12	248	1160	1.70	10100	207	1390	1.45	10500
		6.21	284	1010	1.85	9800	237	1210	1.55	10300
		5.2	340	840	2.10	9400	283	1010	1.75	9800
		4.5	392	735	2.20	9000	327	880	1.85	9500

37kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
37kw	DR167	93.19	19.2	18665	0.95	108000	16	22400	0.80	108000
		82.91	21.6	16585	1.05	108000	18	19900	0.90	108000
		73.7	24	14750	1.20	108000	20	17700	1.00	108000
		67.4	26.4	13500	1.30	108000	22	16200	1.10	108000
		58.65	30	11750	1.55	108000	25	14100	1.30	108000
		51.76	33.6	10335	1.70	108000	28	12400	1.45	108000
		44.87	39.6	9000	1.95	108000	33	10800	1.65	108000
		39.92	44.4	8000	2.25	108000	37	9600	1.90	108000
		34.41	51.6	6890	2.60	108000	43	8270	2.20	108000
		30.71	57.6	6150	1.60	108000	48	7380	1.35	108000
	DR147	27.96	63.6	5600	3.20	108000	53	6720	2.70	108000
		61.19	28.8	12250	1.05	57600	24	14700	0.90	50000
		52.96	33.6	10585	1.20	60000	28	12700	1.00	56900
		46.73	38.4	9335	1.35	61600	32	11200	1.15	59300
		40.35	43.2	8065	1.60	63200	36	9680	1.35	61400
		35.69	49.2	7140	1.80	64000	41	8570	1.50	62700
		30	58.8	6000	2.15	64800	49	7200	1.80	64000
		24.23	73.2	4840	2.40	65600	61	5810	2.00	65200
		20.47	86.4	4090	2.85	66000	72	4910	2.40	65700
		18.06	98.4	3615	2.85	66400	82	4340	2.40	66100

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
37kw	DR147	15.66	113	3135	4.20	66400	94	3760	3.50	66300
		13.93	127	2785	4.55	66400	106	3340	3.80	66500
	DR137	37.65	46.8	7540	1.05	48800	39	9050	0.90	44500
		32.91	54	6590	1.20	50400	45	7910	1.00	48200
		27.83	63.6	5575	1.35	64000	53	6690	1.15	50300
		24.12	73.2	4835	1.65	52000	61	5800	1.40	51600
		22	80.4	4410	1.80	51600	67	5290	1.50	52200
		19.04	92.4	3815	2.10	51200	77	4580	1.75	52000
		16.8	106	3365	2.40	50400	88	4040	2.00	51600
		14.51	121	2910	2.75	49600	101	3490	2.30	50900
		12.83	138	2565	3.10	48800	115	3080	2.60	50200
		10.79	163	2160	3.70	47200	136	2590	3.10	49000
		8.71	203	1740	4.40	45600	169	2090	3.70	47300
		7.59	233	1515	3.35	44800	194	1820	2.80	46700
		6.38	276	1275	3.95	43200	230	1530	3.30	45100
		5.15	342	1035	4.40	41200	285	1240	3.70	43000
	DR107	20.07	87.6	4015	1.05	14300	73	4820	0.90	14500
		18.21	97.2	3650	1.20	14200	81	4380	1.00	14500
		15.65	113	3135	1.35	14000	94	3760	1.15	14300
		13.66	130	2735	1.55	13800	108	3280	1.30	14100
		11.59	152	2325	1.85	13400	127	2790	1.55	13900
		10.13	174	2025	2.10	13200	145	2430	1.75	13600
		8.56	206	1715	2.50	12700	172	2060	2.10	13200
		7.86	224	1575	1.85	12900	187	1890	1.55	13500
		6.66	265	1335	2.20	12400	221	1600	1.85	13000
		5.82	302	1165	2.50	12000	252	1400	2.10	12600
		4.92	359	985	3.00	11500	299	1180	2.50	12100

45kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
45kw	DR167 DR147 DR137	73.7	24	17915	1.00	108000	20	21500	0.85	108000
		67.4	26.4	16415	1.05	108000	22	19700	0.90	108000
		58.65	30	14250	1.25	108000	25	17100	1.05	108000
		51.76	33.6	12585	1.40	108000	28	15100	1.20	108000
		44.87	39.6	10915	1.60	108000	33	13100	1.35	108000
		39.92	44.4	9750	1.85	108000	37	11700	1.55	108000
		34.41	51.6	8415	2.15	108000	43	10100	1.80	108000
		27.96	63.6	6810	2.60	108000	53	8170	2.20	108000
		52.96	33.6	12915	1.00	56800	28	15500	0.85	41400
		46.73	38.4	11335	1.10	59200	32	13600	0.95	55200
		40.35	43.2	9835	1.30	61200	36	11800	1.10	58500
		35.69	49.2	8665	1.50	62800	41	10400	1.25	60500
		30	58.8	7300	1.80	64000	49	8760	1.50	62500
		24.23	73.2	5890	2.00	65200	61	7070	1.70	64200
		20.47	86.4	4975	2.40	65600	72	5970	2.00	65000
		18.06	98.4	4390	2.40	66000	82	5270	2.00	65500
		15.66	113	3810	3.35	66400	94	4570	2.80	65900
		13.93	127	3390	3.70	66400	106	4070	3.10	66200
		12.01	148	2925	4.40	66400	123	3510	3.70	66400
		7.25	244	1765	4.90	66400	203	2120	4.10	66900
		32.91	54	8015	1.00	46400	45	9620	0.85	36100
		27.83	63.6	6775	1.10	47600	53	8130	0.95	46100
		24.12	73.2	5875	1.35	48000	61	7050	1.15	47200
		22	80.4	5360	1.50	48000	67	6430	1.25	47600
		19.04	92.4	4640	1.70	48000	77	5570	1.45	48000
		16.8	106	4090	1.95	47600	88	4910	1.65	48100
		14.51	121	3535	2.25	47200	101	4240	1.90	47900
		12.83	138	3125	2.50	46800	115	3750	2.10	47500
		10.79	163	2625	3.00	45600	136	3150	2.50	46700
		8.71	203	2125	3.70	44000	169	2550	3.10	45500
		7.59	233	1850	2.75	43600	194	2220	2.30	45200

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
45kw	DR137	6.38	276	1550	3.20	42000	230	1860	2.70	43800
		5.15	342	1260	3.60	40400	285	1510	3.00	42000
	DR107	15.65	113	3815	1.10	13100	94	4580	0.95	13100
		13.66	130	3325	1.30	13000	108	3990	1.10	13100
		11.59	152	2825	1.50	12800	127	3390	1.25	13000
		10.13	174	2465	1.70	12600	145	2960	1.45	12900
		8.56	206	2085	2.00	12200	172	2500	1.70	12600
		7.86	224	1915	1.55	12500	187	2300	1.30	13000
		6.66	265	1625	1.80	12000	221	1950	1.50	12600
		5.82	302	1415	2.10	11700	252	1700	1.78	12200
		4.92	359	1200	2.40	11200	299	1440	2.00	11800

55kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
55kw	DR167	58.65	30	17415	1.00	108000	25	20900	0.85	108000
		51.76	34.8	15335	1.20	108000	29	18400	1.00	108000
		44.87	39.6	13335	1.35	108000	33	16000	1.15	108000
		39.92	44.4	11835	1.50	108000	37	14200	1.25	108000
		34.41	51.6	10250	1.70	108000	43	12300	1.45	108000
		27.96	63.6	8300	2.15	108000	53	9960	1.80	108000
		23.71	74.4	7035	2.50	108000	62	8440	2.10	108000
		24.57	72	7290	1.90	108000	60	8750	1.60	108000
		21.85	81.6	6485	1.95	108000	68	7780	1.65	108000
		19.03	92.4	5650	2.85	108000	77	6780	2.40	108000
		16.98	104	5040	3.00	108000	87	6050	2.50	108000
	DR147	40.35	44.4	11915	1.05	58000	37	14300	0.90	52400
		35.69	49.2	10585	1.20	60000	41	12700	1.00	57000
		30	58.8	8915	1.40	62000	49	10700	1.20	60100
		24.23	73.2	7175	1.65	64000	61	8610	1.40	62600
		20.47	86.4	6065	1.95	64800	72	7280	1.65	64000
		18.06	98.4	5350	1.95	65200	82	6420	1.65	64700

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
55kw	DR147	15.66	113	4640	2.75	65600	94	5570	2.30	65300
		13.93	127	4125	3.00	66000	106	4950	2.50	65700
		12.01	148	3560	3.60	66400	123	4270	3.00	66100
		9.76	181	2890	4.55	66400	151	3470	3.80	66400
		7.25	244	2150	4.05	65200	203	2580	3.40	66800
		5.89	300	1750	4.90	62000	250	2100	4.10	65300
	DR137	19.04	92.4	5650	1.40	43600	77	6780	1.20	43000
		16.8	106	4985	1.60	43600	88	5980	1.35	43700
		14.51	122	4310	1.85	43600	102	5170	1.55	44000
		12.83	138	3810	2.10	43600	115	4570	1.75	44100
		10.79	164	3200	2.50	43200	137	3840	2.10	43900
		8.71	203	2585	3.00	42000	169	3100	2.50	43200
		7.59	233	2250	2.25	42000	194	2700	1.90	43300
		6.38	277	1890	2.60	40800	231	2270	2.20	42200
		5.15	343	1525	3.00	39100	286	1830	2.50	40700

75kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
75kw	DR167	44.87	39.6	18085	1.00	108000	33	21700	0.85	108000
		39.92	44.4	16085	1.10	108000	37	19300	0.95	108000
		34.41	51.6	13915	1.30	108000	43	16700	1.10	108000
		27.96	63.6	11250	1.60	108000	53	13500	1.35	108000
		23.71	74.4	9585	1.85	108000	62	11500	1.55	108000
		24.57	72	9915	1.40	108000	60	11900	1.20	108000
		21.85	81.6	8835	1.50	108000	68	10600	1.25	108000
		19.03	93.6	7675	2.10	108000	78	9210	1.75	108000
		16.98	104	6850	2.20	108000	87	8220	1.85	108000
		14.48	122	5835	3.10	108000	102	7000	2.60	108000
	DR147	30	58.8	12085	1.05	58000	49	14500	0.90	57600
		24.23	73.2	9750	1.20	61200	61	11700	1.00	58600
		20.47	86.4	8240	1.40	63200	72	9890	1.20	61100

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
75kw	DR147	18.06	98.4	7275	1.40	64000	82	8730	1.20	62600
		15.66	114	6310	2.00	64800	95	7570	1.70	63700
		13.93	127	5610	2.20	65200	106	6730	1.85	64400
		12.01	148	4835	2.60	65600	123	5800	2.20	65200
		9.76	182	3925	3.35	66000	152	4710	2.80	65800
		8.28	215	3335	3.80	65600	179	4000	3.20	66200
		7.25	245	2925	3.00	63200	204	3510	2.50	65800
		5.89	301	2375	3.60	60400	251	2850	3.00	63100
		5	355	2015	4.30	58400	296	2420	3.60	60800

90kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
90kw	DR167	34.41	51.6	16665	1.05	108000	43	20000	0.90	108000
		27.96	63.6	13500	1.30	108000	53	16200	1.10	108000
		23.71	74.4	11500	1.55	108000	62	13800	1.30	108000
		24.57	72	11915	1.20	108000	60	14300	1.00	108000
		21.85	81.6	10585	1.20	108000	68	12700	1.00	108000
		19.03	93.6	9250	1.70	106000	78	11100	1.45	108000
		16.98	104	8215	1.80	104400	87	9860	1.50	108000
		14.48	122	7010	2.50	101600	102	8410	2.10	105600
		11.99	148	5800	2.85	98000	123	6960	2.40	102200
		10.24	174	4950	3.45	94800	145	5940	2.90	99100
	DR147	15.66	114	7565	1.70	63200	95	9080	1.45	62100
		13.93	127	6735	1.85	64000	106	8080	1.55	63200
		12.01	148	5800	2.20	64800	123	6960	1.85	64300
		9.76	182	4715	2.75	64800	152	5660	2.30	65300
		8.28	215	4000	3.20	63200	179	4800	2.70	65700
		7.25	245	3510	2.50	61200	204	4210	2.10	63800
		5.89	301	2850	3.00	58800	251	3420	2.50	61500
		5	355	2415	3.60	56800	296	2900	3.00	59500

110kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
110kw	DR167	27.96	63.6	16500	1.05	104400	53	19800	0.90	105400
		23.71	75.6	14000	1.25	103600	63	16800	1.05	105200
		19.03	93.6	11250	1.40	101600	78	13500	1.20	101000
		16.98	104	10000	1.50	100000	87	12000	1.25	98400
		14.48	124	8500	2.10	98000	103	10200	1.75	101000
		11.99	149	7065	2.40	94800	124	8480	2.00	98400
		10.24	174	6035	2.75	92400	145	7240	2.30	95900

132kw

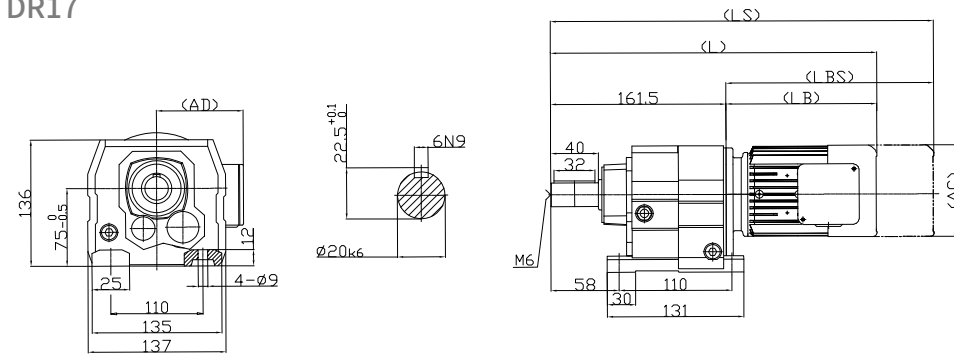
Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
132kw	DR167	23.71	75.6	16750	1.05	98000	63	20100	0.90	97100
		19.03	93.6	13500	1.20	96800	78	16200	1.00	97500
		16.98	104	12000	1.25	96000	87	14400	1.05	97000
		14.48	124	10250	1.70	94400	103	12300	1.45	96000
		11.99	149	8500	1.95	92000	124	10200	1.65	94200
		10.24	174	7240	2.30	90000	145	8690	1.95	92300

160kw

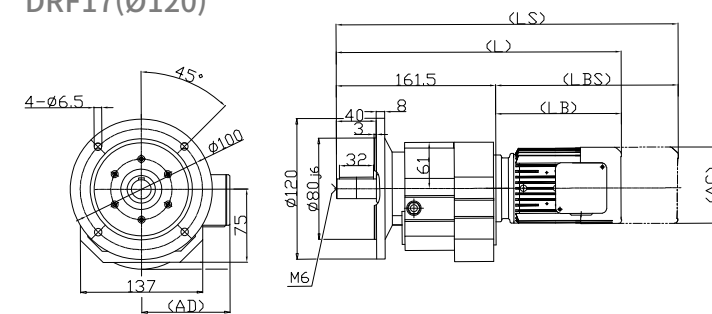
Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
160kw	DR167	14.48	124	12415	1.40	90800	103	14900	1.20	89700
		11.99	149	10250	1.65	89200	124	12300	1.40	89000
		10.24	174	8750	1.90	87200	145	10500	1.60	87800

DR-Series 도면

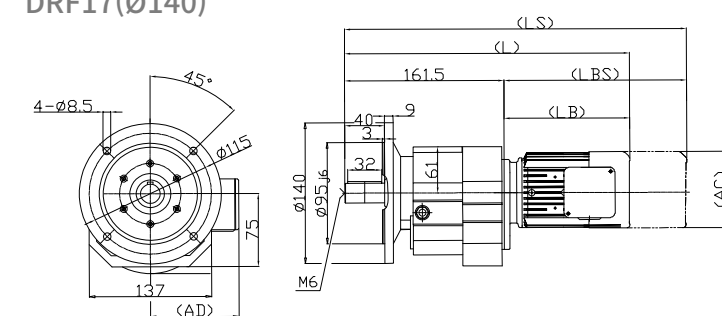
DR17



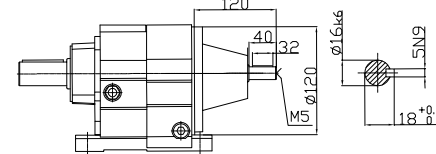
DRF17(Ø120)



DRF17(Ø140)



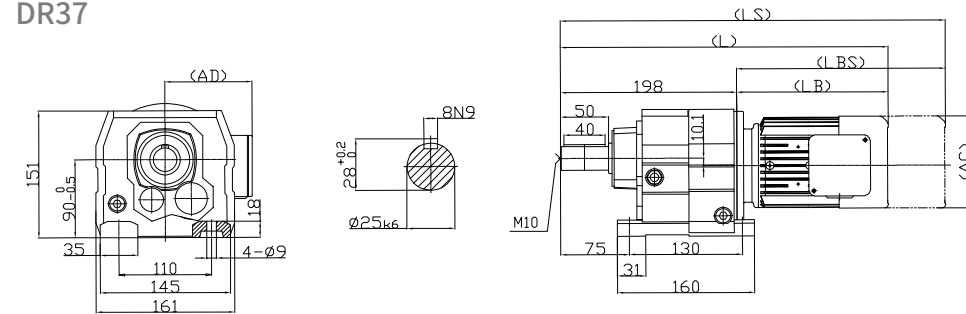
DR..S17



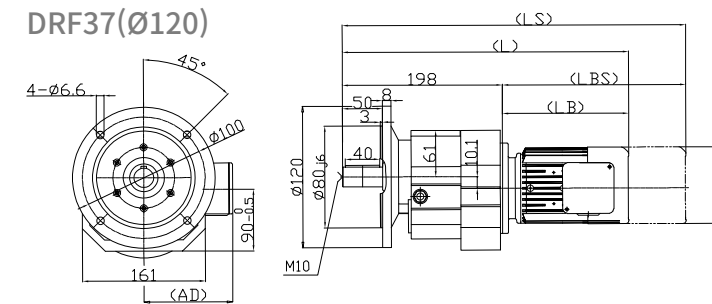
DR17

Motor	0.4kW	0.75kW
LB	240	254
LBS	330	344
L	402	416
LS	492	506
AC	145	175
AD	126	135

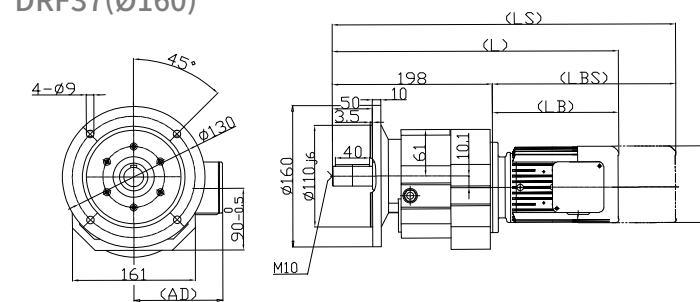
DR37



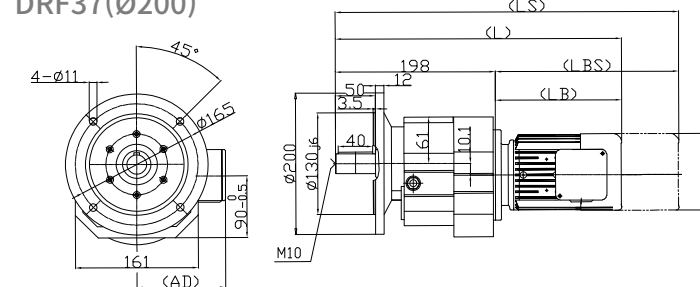
DRF37(Ø120)



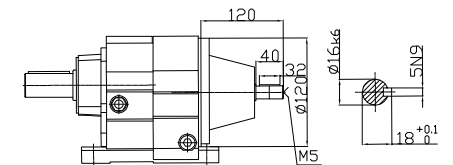
DRF37(Ø160)



DRF37(Ø200)

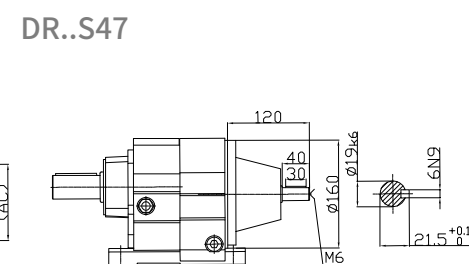
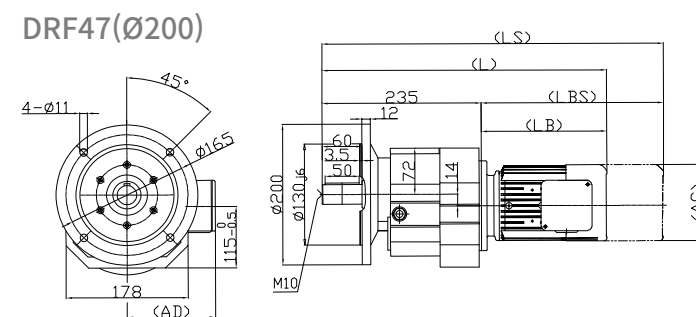
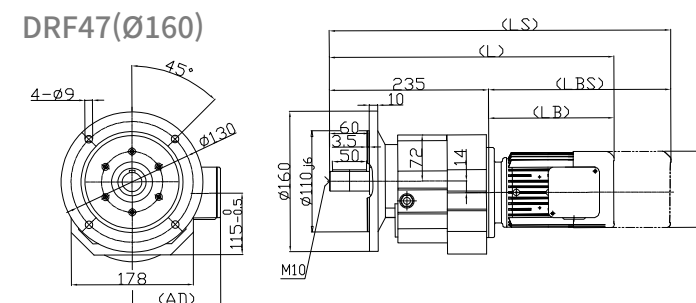
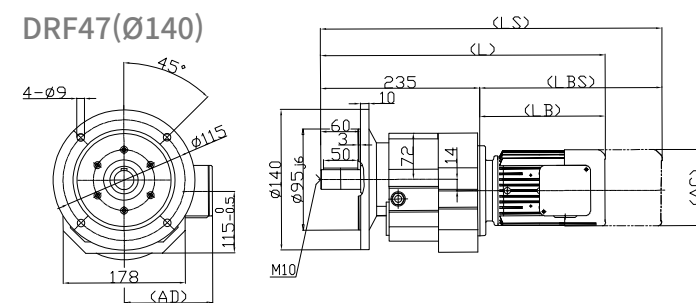
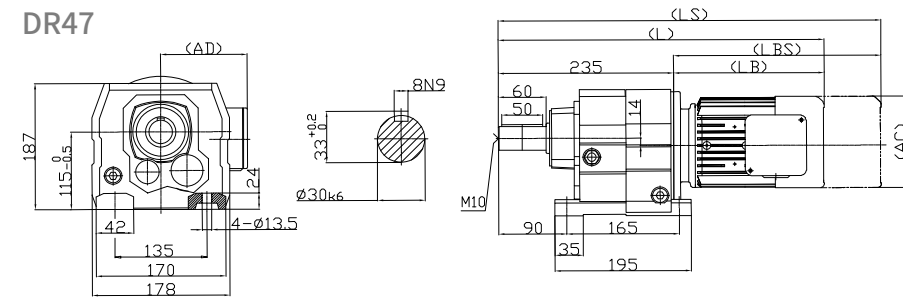


DR..S37



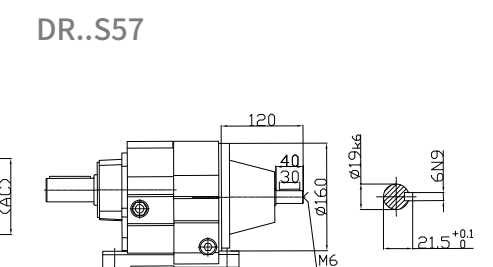
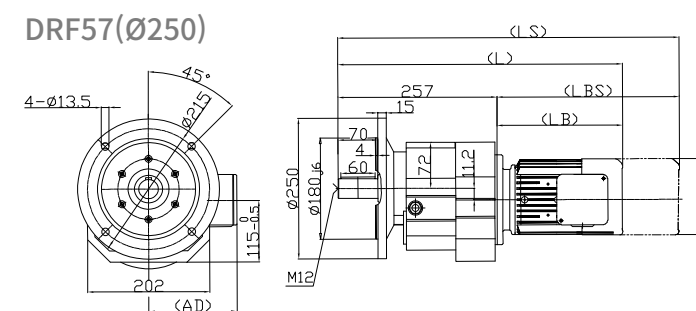
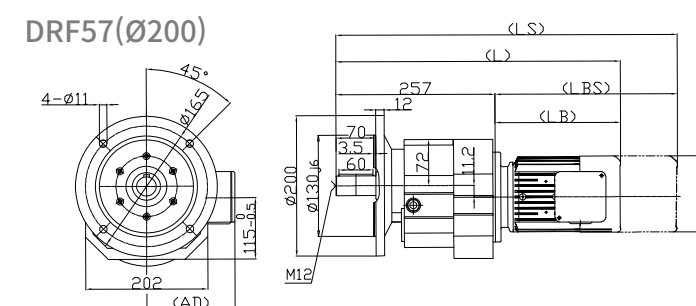
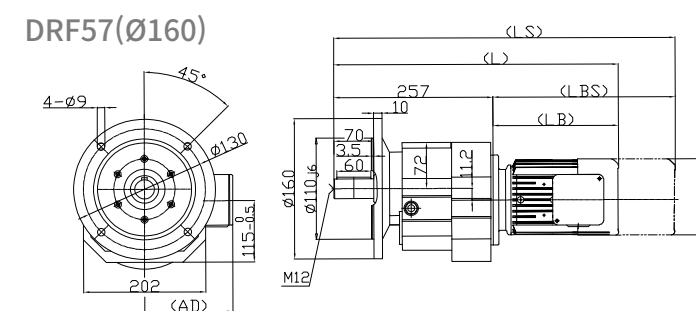
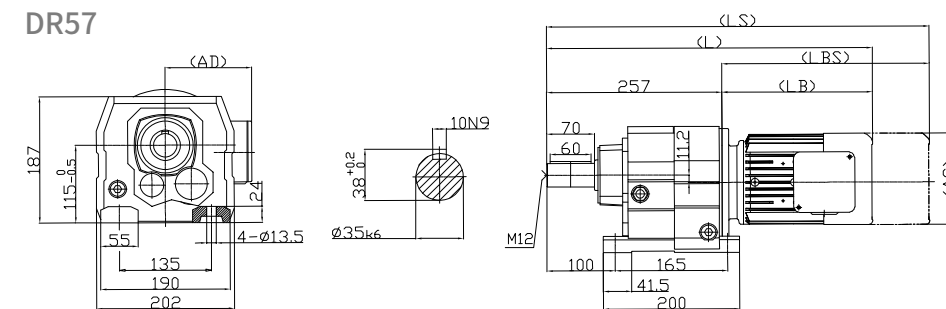
DR37

Motor	0.4kW	0.75kW	1.5kW	2.2kW
LB	240	254	328	377
LBS	330	344	428	477
L	438	452	526	575
LS	528	542	626	675
AC	145	175	193	236
AD	126	135	147	202



DR47

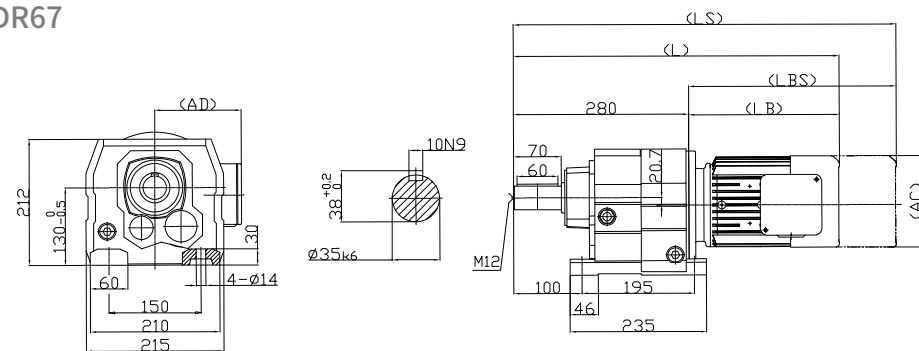
Motor	0.4kW	0.75kW	1.5kW	2.2kW
LB	229	248	321	368
LBS	319	338	421	468
L	464	483	556	603
LS	554	573	656	703
AC	145	175	193	236
AD	126	135	147	202



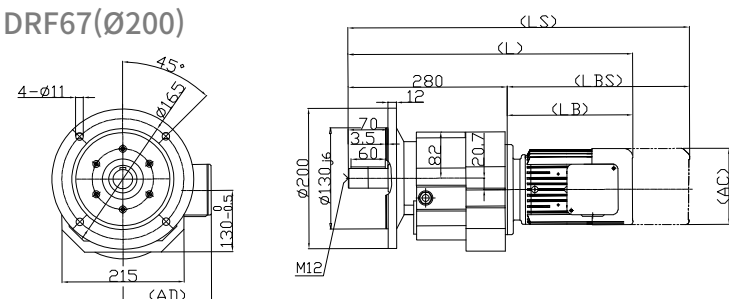
DR57

Motor	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW
LB	229	248	321	368	372	427
LBS	319	338	421	468	497	557
L	486	505	578	625	629	684
LS	576	595	678	725	754	814
AC	145	175	193	236	236	274
AD	126	135	147	202	202	222

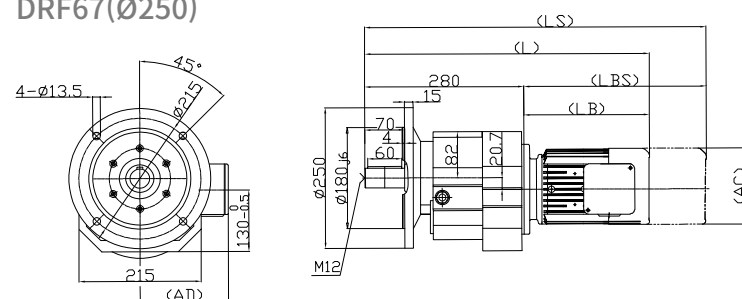
DR67



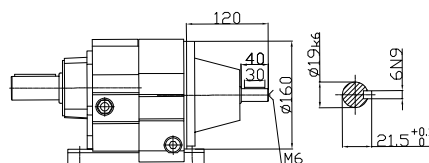
DRF67(Ø200)



DRF67(Ø250)



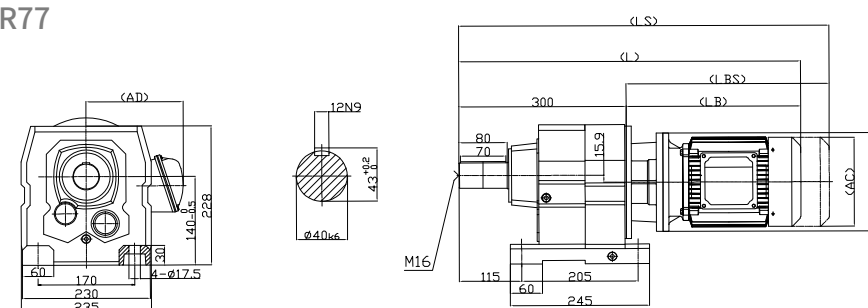
DR..S67



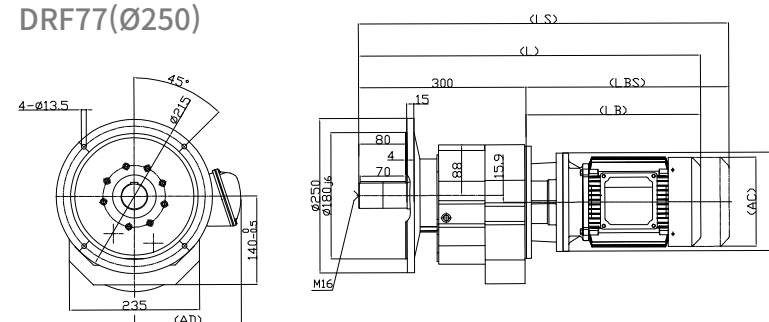
DR67

Motor	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW
LB	229	248	321	368	372	427
LBS	319	338	421	468	497	557
L	509	528	601	648	652	707
LS	599	618	701	748	777	837
AC	145	175	193	236	236	274
AD	126	135	147	202	202	222

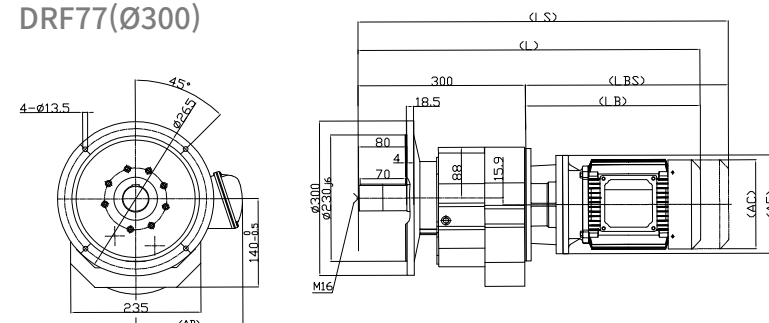
DR77



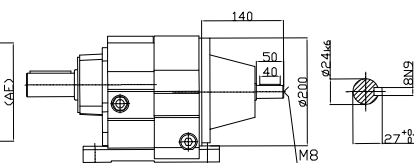
DRF77(Ø250)



DRF77(Ø300)



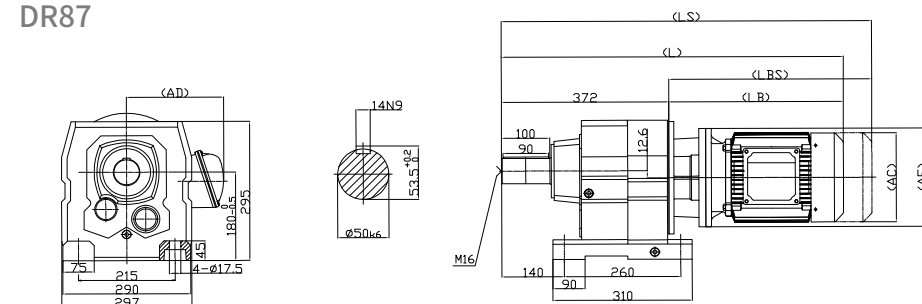
DR..S77



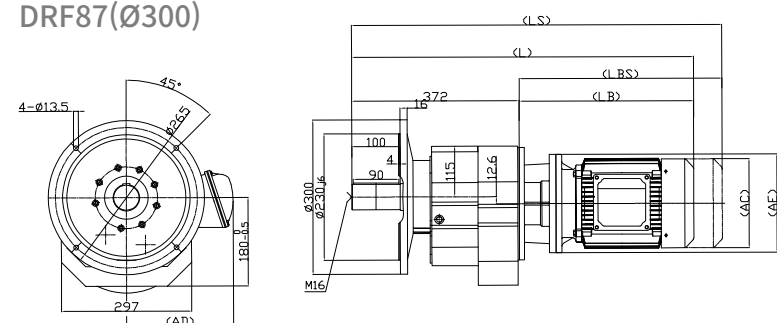
DR77

Motor	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW	11kW
LB	277	322	380	437	462	529	529	638
LBS	367	412	480	537	587	659	659	793
L	577	622	680	737	762	829	829	938
LS	667	712	780	837	887	959	959	1,093
AC	158	175	193	236	236	274	274	317
AD	130	148	158	180	180	220	220	265
AE	160	200	200	250	250	300	300	350

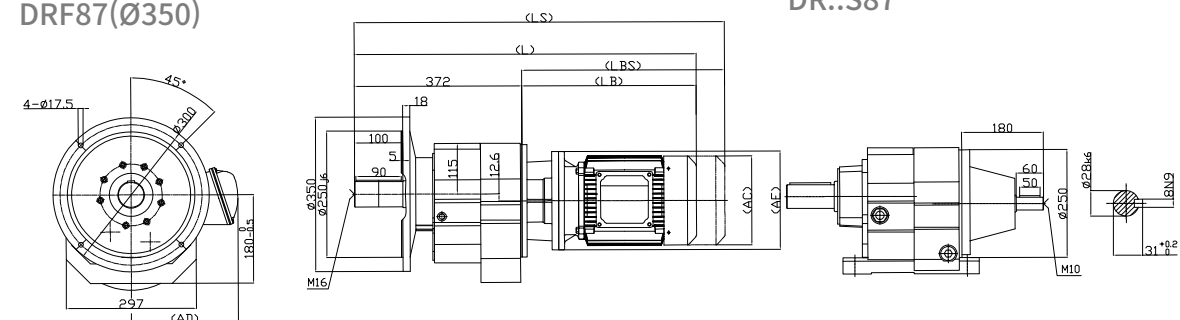
DR87



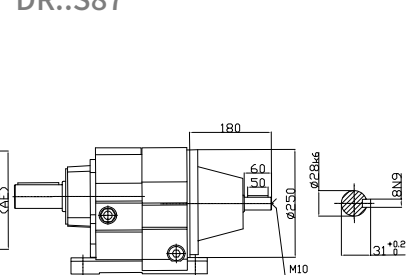
DRF87(Ø300)



DRF87(Ø350)



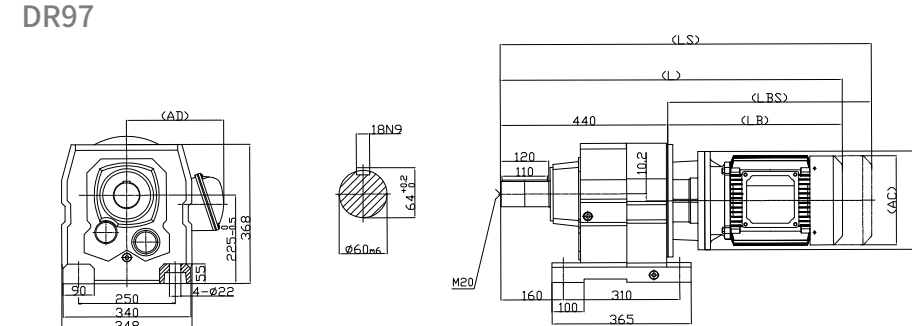
DR..S87



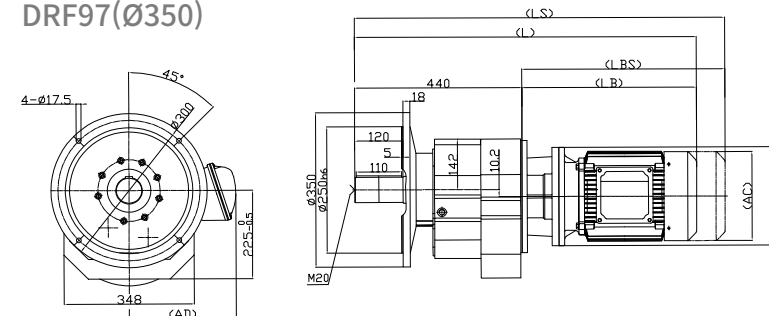
DR87

Motor	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW	11kW	15kW	18.5kW
LB	317	375	433	458	524	524	633	677	696
LBS	407	475	533	583	654	654	788	832	851
L	689	747	805	830	896	896	1,005	1,049	1,068
LS	779	847	905	955	1,026	1,026	1,160	1,204	1,223
AC	175	193	236	236	274	274	317	317	365
AD	148	158	180	180	220	220	265	265	300
AE	200	200	250	250	300	300	350	350	350

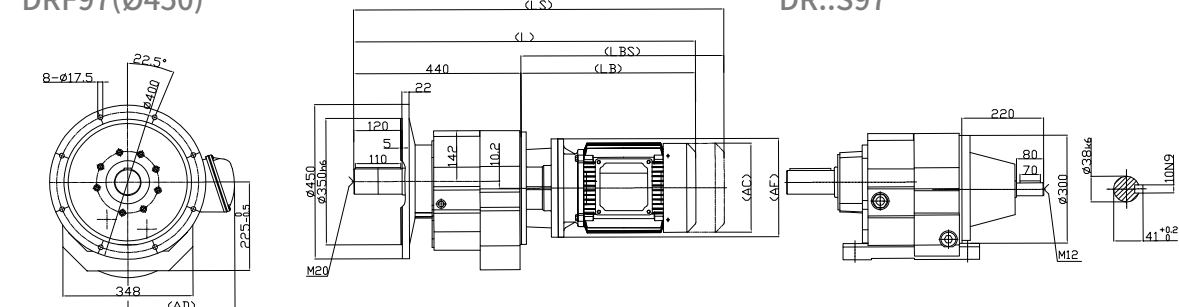
DR97



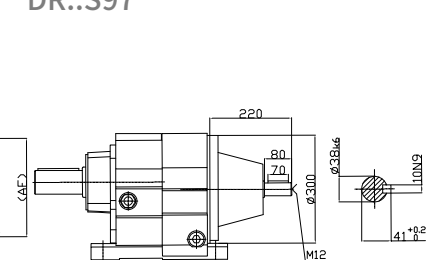
DRF97(Ø350)



DRF97(Ø450)



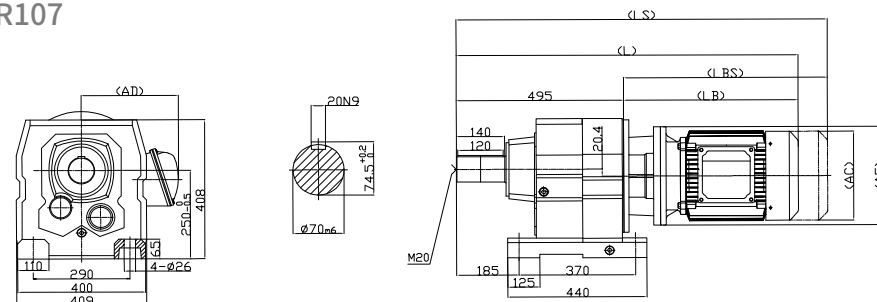
DR..S97



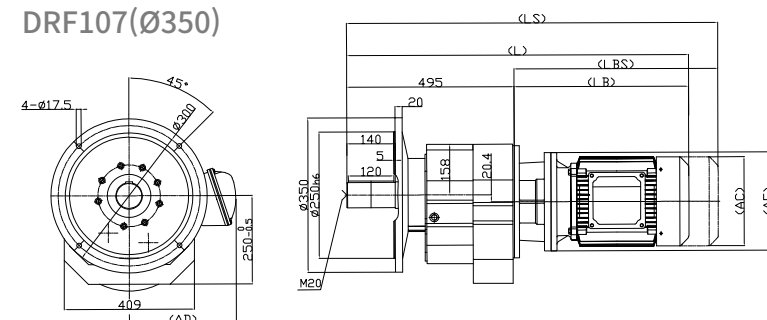
DR97

Motor	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW
LB	311	369	427	452	519	519	628	672	691	691	736
LBS	401	469	527	577	649	649	783	827	846	846	891
L	751	809	867	892	959	959	1,068	1,112	1,131	1,131	1,176
LS	841	909	967	1,017	1,089	1,089	1,223	1,267	1,286	1,286	1,331
AC	175	193	236	236	274	274	317	317	365	365	365
AD	148	158	180	180	220	220	265	265	300	300	300
AE	200	200	250	250	300	300	350	350	350	350	400

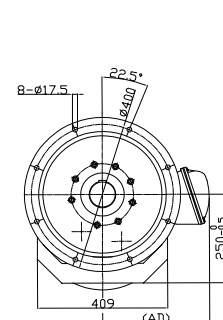
DR107



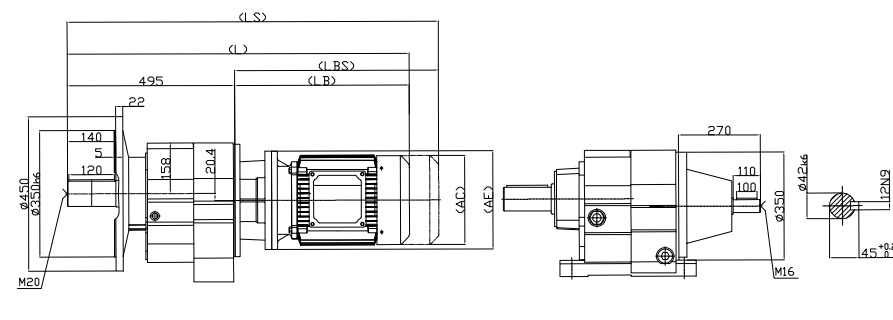
DRF107(Ø350)



DRF107(Ø450)



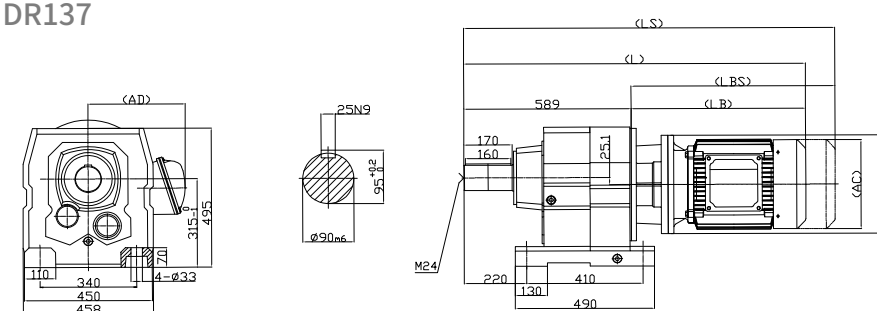
DR..S107



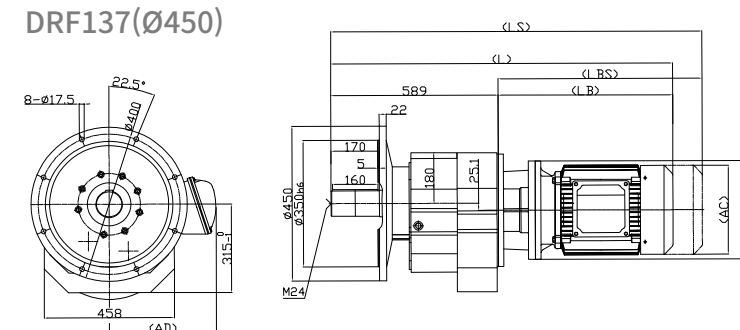
DR107

Motor	2.2kW	3.7kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW
LB	421	446	513	513	622	666	685	685	730	849	849
LBS	521	571	643	643	777	821	840	840	885	1,004	1,004
L	916	941	1,008	1,008	1,117	1,161	1,180	1,180	1,225	1,344	1,344
LS	1,016	1,066	1,138	1,138	1,272	1,316	1,335	1,335	1,380	1,499	1,499
AC	236	236	274	274	317	317	365	365	365	418	418
AD	180	180	220	220	265	265	300	300	300	370	370
AE	250	250	300	300	350	350	350	350	400	450	450

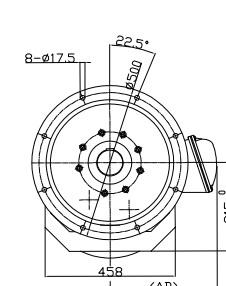
DR137



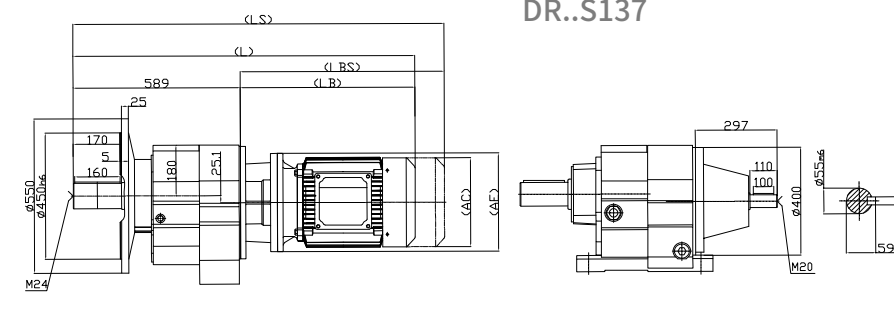
DRF137(Ø450)



DRF137(Ø550)



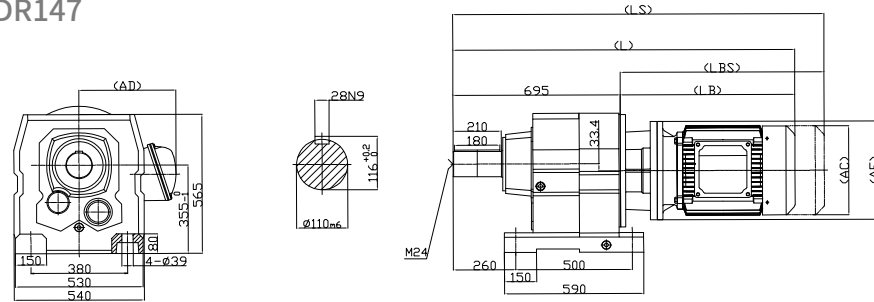
DR..S137



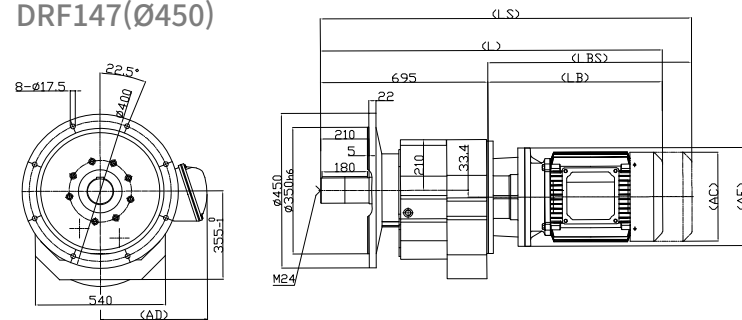
DR137

Motor	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW
LB	506	506	615	659	678	678	721	812	812	847
LBS	636	636	770	814	833	833	876	967	967	1,007
L	1,095	1,095	1,204	1,248	1,267	1,267	1,310	1,401	1,401	1,436
LS	1,225	1,225	1,359	1,403	1,422	1,422	1,465	1,556	1,556	1,596
AC	274	274	317	317	365	365	365	418	418	453
AD	220	220	265	265	300	300	300	370	370	400
AE	300	300	350	350	350	350	400	450	450	450

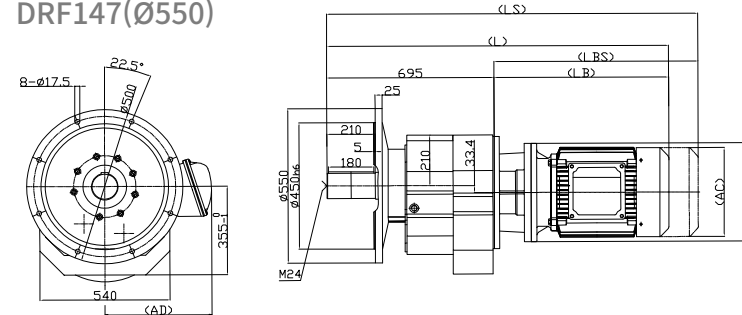
DR147



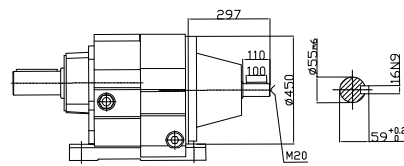
DRF147(Ø450)



DRF147(Ø550)



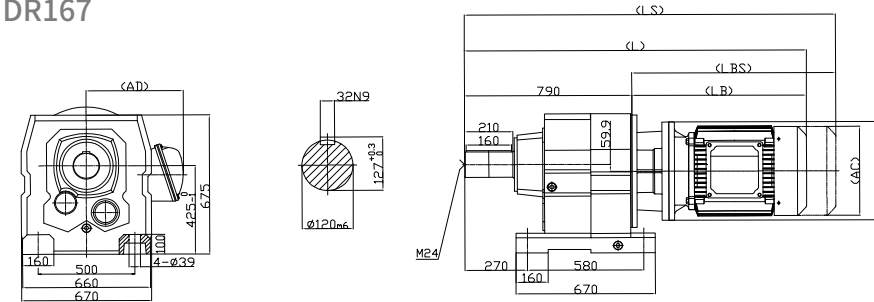
DR..S147



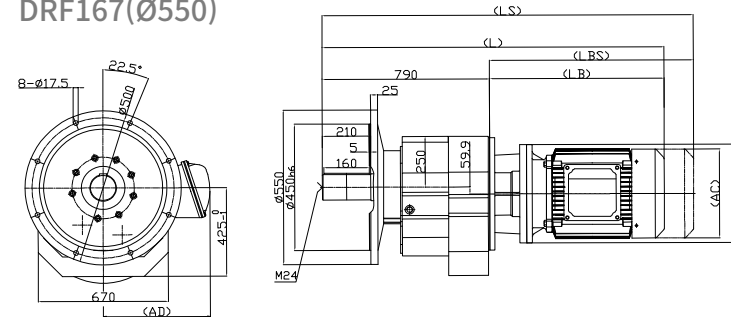
DR147

Motor	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW
LB	607	651	670	670	715	834	834	839	924	924
LBS	762	806	825	825	870	989	989	999	1,084	1,084
L	1,302	1,346	1,365	1,365	1,410	1,529	1,529	1,534	1,619	1,619
LS	1,457	1,501	1,520	1,520	1,565	1,684	1,684	1,694	1,779	1,779
AC	317	317	365	365	365	418	418	453	510	510
AD	265	265	300	300	300	370	370	400	435	435
AE	350	350	350	350	400	450	450	450	550	550

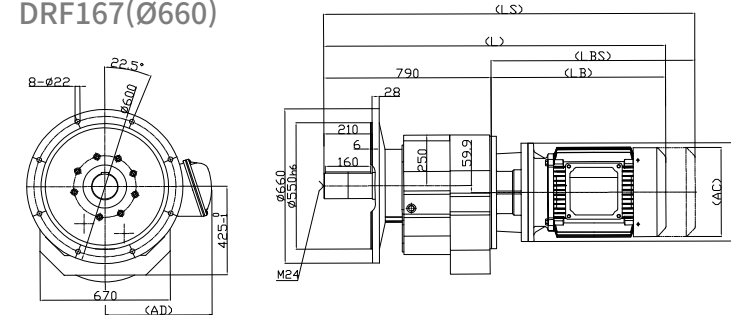
DR167



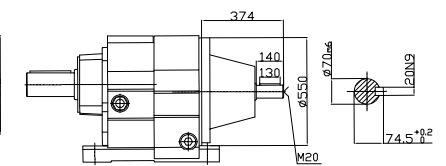
DRF167(Ø550)



DRF167(Ø660)



DR..S167

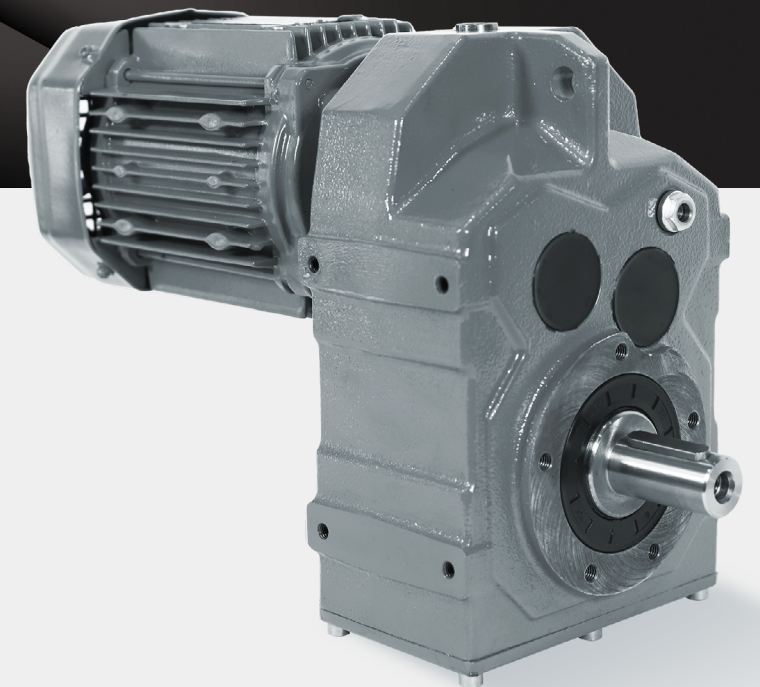


DR167

Motor	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW	110kW	132kW	160kW
LB	599	643	662	662	707	826	826	831	916	916	1,133	1,133	1,529
LBS	754	798	817	817	862	981	981	991	1,076	1,076	1,293	1,293	1,689
L	1,389	1,433	1,452	1,452	1,497	1,616	1,616	1,621	1,706	1,706	1,923	1,923	2,319
LS	1,544	1,588	1,607	1,607	1,652	1,771	1,771	1,781	1,866	1,866	2,083	2,083	2,479
AC	317	317	365	365	365	418	418	453	510	510	617	617	650
AD	265	265	300	300	300	370	370	400	435	435	550	550	587
AE	350	350	350	350	400	450	450	450	550	550	550	550	660

DF 시리즈 | DF-Series

축상 감속기 PARALLEL SHAFT HELICAL GEARED MOTORS



모터 용량 Power	0.4 ~ 200kw
감속기 최대 토크 Gearbox Max Torque	18,000Nm
감속비 Ratio	3.77 ~ 22,323

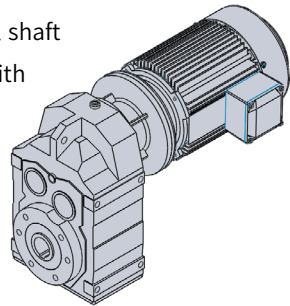
DF 시리즈 | DF-Series

축상 감속기

PARALLEL SHAFT HELICAL GEARED MOTORS

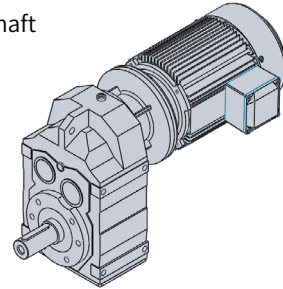
DFA type

본체 장착형 중공축
타입 감속기
Foot-mounted parallel shaft
helical gear reducer with
hollow shaft



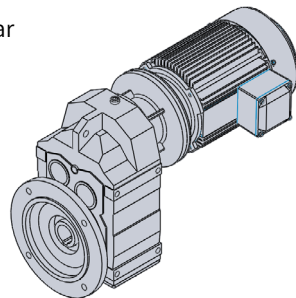
DF type

본체 장착형 중실축
타입 감속기
Foot-mounted parallel shaft
helical gear reducer



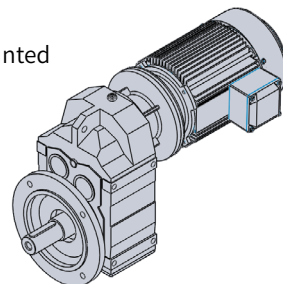
DFAF type

B5플랜지 장착형 중공축
타입 감속기
Parallel shaft helical gear
reducer in B5 flange-
mounted version with
hollow shaft



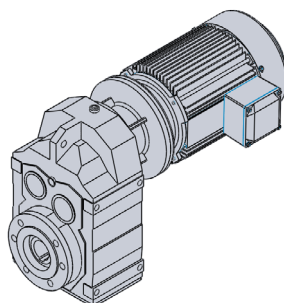
DFF type

B5 플랜지 장착형 중실축
타입 감속기
Parallel shaft helical gear
reducer in B5 flange-mounted
version



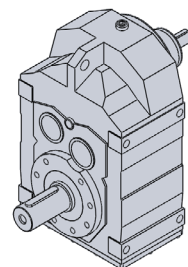
DFAZ type

B14 플랜지 장착형 중공축
타입 감속기
Parallel shaft helical gear
reducer in B14 flange-
mounted version with
hollow shaft

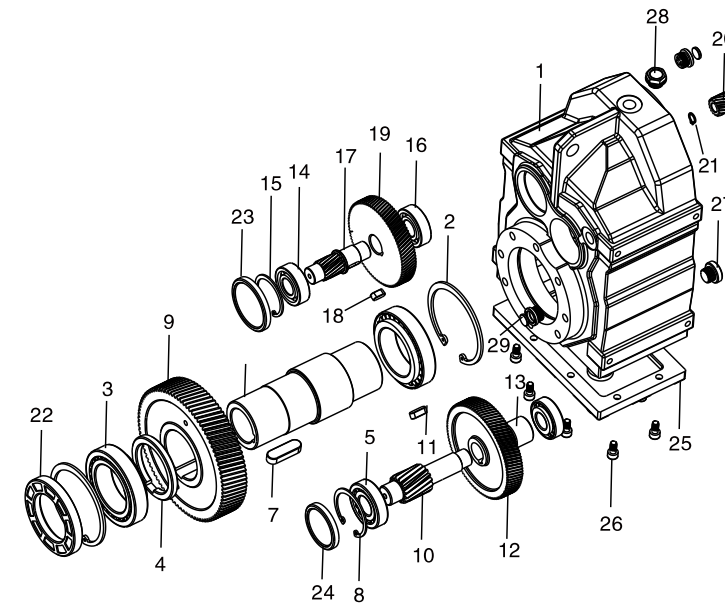


DFS type

입력 중실축 타입
(라인 파워 타입)
Input-shaft style
(Line Power Type)



DF 시리즈 구조 Internal Structure of DF Series



1. Housing - 하우징
2. Snap ring- 스냅링
3. Bearing - 베어링
4. Washer - 와셔
5. Bearing - 베어링
6. Output shaft - 출력 샤프트
7. Key - 키
8. Snap ring- 스냅링
9. Third-stage gear - 3단 기어
10. Third-stage pinion - 3단 피니언
11. Key - 키
12. Second-stage gear - 2단 기어
13. Shaft sleeve - 샤프트 슬리브
14. Bearing - 베어링
15. Snap ring- 스냅링
16. Bearing - 베어링
17. Second-stage Pinion- 2단 피니언
18. Key - 키
19. First-stage gear - 1단 기어
20. First-stage Pinion - 1단 피니언
21. Snap ring- 스냅링
22. Oil seal - 오일 씸
23. Cap - 캡
24. Cap - 캡
25. Cover plate - 하부 커버
26. Bolt - 볼트
27. Oil level plug - 유면계
28. Breather valve - 공기압 밸브
29. Oil level - 유면계

형식 표시 Instructions for models

형식 표시 (Frame No)	모터 용량 (Motor Capacity)	모터 주파수 (Frequency)	브레이크 표시 (Brake Option)
DFA 97 - 20.07 / 22kw - 380V - 60Hz (*-*) / AC-B			
형식 표시 (Type)	감속비 표시 (Ratio)	모터 전압 (Voltage)	모터 옵션 표시 (Motor Option)

예시 Example

DFAF57-44.73/1.5kw-2/3V-60Hz(INV)/DC-B

감속부	① B5플랜지 장착형 중공축 타입 감속기 ② Gear Box 57형번, 감속비는 44.73
모터	① 1.5kw 용량의 모터 ② 전압: 220/380V, 주파수: 60Hz ③ INVERTER전용 모터
기타	① DC-B 브레이크 부착형
Gear box	① Parallel shaft helical gear reducer in B5 flange-mounted version with hollow shaft ② Size: 57, Ratio: 44.73
Motor	① 1.5kw motor ② Voltage: 220/380V, Frequency: 60Hz ③ Use for inverter motor
Etc	① DC-B Brake

DF77-108.46/2.2kw-2/3V-50Hz/AC-B(HL)

감속부	① 본체 장착형 중실축 타입 감속기 ② Gear Box 77형번, 감속비는 108.46
모터	① 2.2kw 용량의 모터 ② 전압: 220/380V, 주파수: 50Hz
기타	① AC-B부착형(수동 해방)
Gear box	① Foot-mounted parallel shaft helical gear reducer ② Size: 77, Ratio: 108.46
Motor	① 2.2kw motor ② Voltage: 220/380V, Frequency: 50Hz
Etc	① AC-B Brake(Hand lever brake)

사이즈/모터 프레임별 IEC플랜지 길이 Length of IEC flange

Reducer Type \ Motor Frame	71	80	90	100	112	132	160	180	200	225	250	280	315
DF..37	61.5	80	80	98	-	-	-	-	-	-	-	-	-
DF..47	61.5	80	80	98	-	-	-	-	-	-	-	-	-
DF..57	56	74.5	74.5	90.5	90.5	-	-	-	-	-	-	-	-
DF..67	56	74.5	74.5	90.5	90.5	123	-	-	-	-	-	-	-
DF..77	50	68.5	68.5	82.5	82.5	111	152.5	-	-	-	-	-	-
DF..87	-	63.5	63.5	78.5	78.5	106	147.5	147.5	-	-	-	-	-
DF..97	-	-	57.5	72.5	72.5	101	142.5	142.5	144.5	-	-	-	-
DF..107	-	-	-	66.5	66.5	95	136.5	136.5	138.5	168.5	-	-	-
DF..127	-	-	-	-	-	80	121.5	121.5	123.5	153.5	153.5	153.5	-
DF..157	-	-	-	-	-	-	113.5	113.5	115.5	145.5	145.5	145.5	184

사이즈별 허용토크/모터 용량/감속비 The Table for each size of allowable torque, motor and ratio.

Reducer Type \ Motor Frame	37	47	57	67	77	87	97	107	127	157
Allowable Maximum Torque[Nm]	200	400	600	800	1,500	3,000	4,300	7,800	12,000	18,000
Motor [KW]	0.4 ~ 3	0.4 ~ 3	0.4 ~ 5.5	0.4 ~ 5.5	0.4 ~ 11	0.4 ~ 22	0.4 ~ 30	0.4 ~ 45	0.4 ~ 90	0.75 ~ 200
Ratio	3.77 ~ 322	8.96 ~ 622	5.18 ~ 967	3.97 ~ 1429	4.28 ~ 2613	4.12 ~ 4954	4.57 ~ 7328	6.22 ~ 14767	4.68 ~ 22323	11.92 ~ 6295

형번 별 중량 Gearbox Weight

사이즈 Size	37	47	57	67	77	87	97	107	127	157
중량 Weight	14	18	29	33	60	110	187	280	440	760

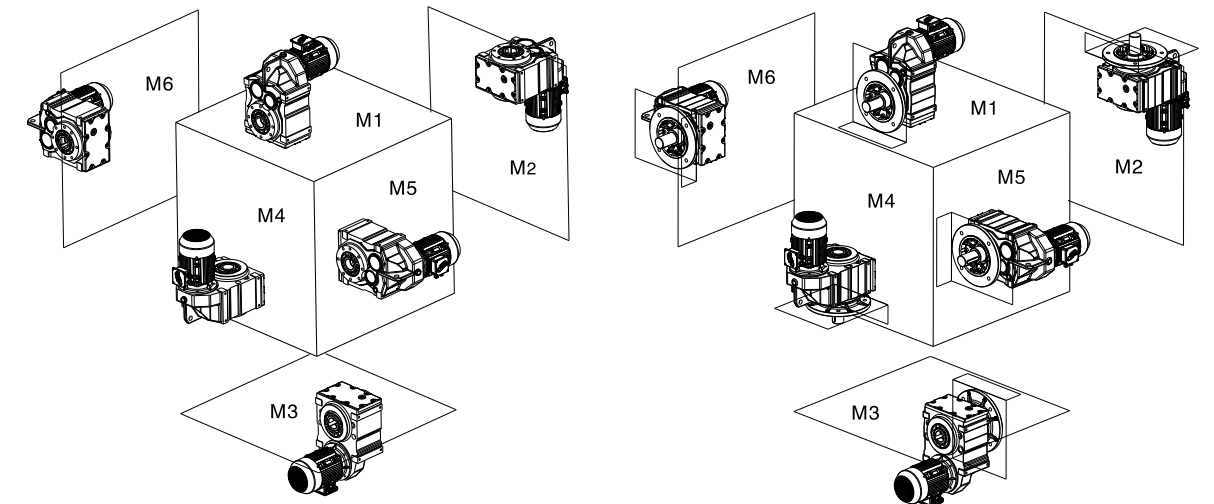
1) 표기 중량은 오일이 포함되어 있지 않으며 기어 비, 기어 단수에 따라 편차가 있을 수 있습니다.

Weight in the table does not include oil, and there would be little gap in terms of gear composition.

2) 표기 중량에 모터 중량은 포함되어 있지 않습니다.

Weight in the table does not include motor.

설치 형태 Mounting Position



설치 형태에 따른 오일 충전량 Oil capacity table

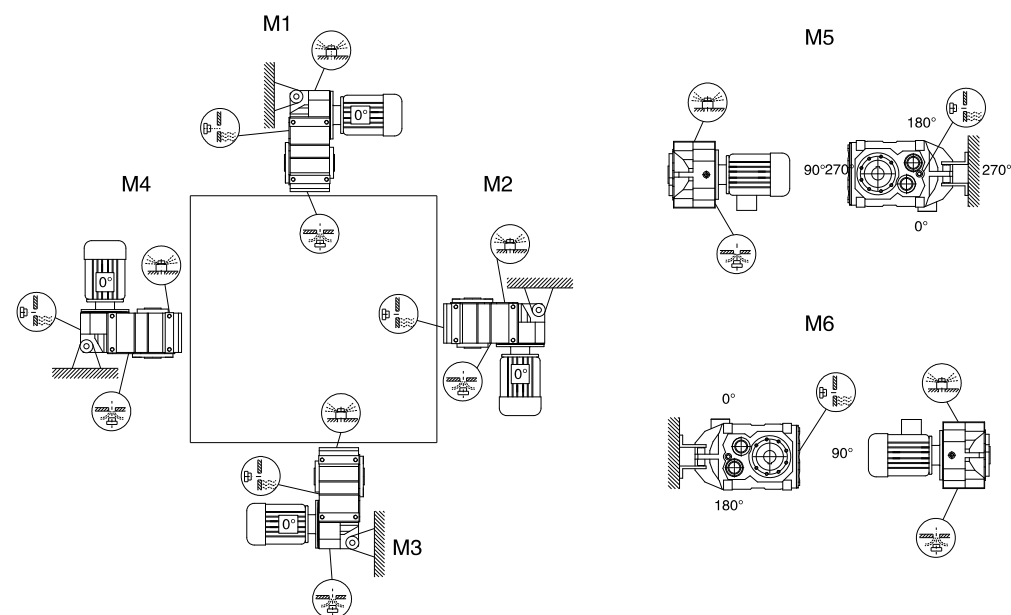
단위: Liter						
설치형태 position \ 사이즈 Size	M1	M2	M3	M4	M5	M6
DF..37	1.1	1.3	0.8	1.3	1.1	1.2
DF..47	1.7	2	1.2	2.1	1.7	1.9
DF..57	2.8	4	2.2	3.7	3	3.1
DF..67	3	4.2	2.3	4.3	3.2	3.5
DF..77	5.6	8	4.8	9	6.7	6.9
DF..87	10.2	13.2	7.8	14.1	11	11.2
DF..97	22.9	27.8	15.6	31.2	22.9	24.8
DF..107	28.6	35.2	22	42.9	30.8	31.9
DF..127	46.2	61.6	37.4	71.5	50.6	53.9
DF..157	79.2	113.3	71.5	114.4	93.5	88

주의: 지정된 충전량은 권장값으로, 스테이지 수와 기어 비율에 따라 정확한 값이 다를 수 있습니다. 충전시에는 레벨 플러그를 통해서 정확한 오일양을 맞춰야 합니다.

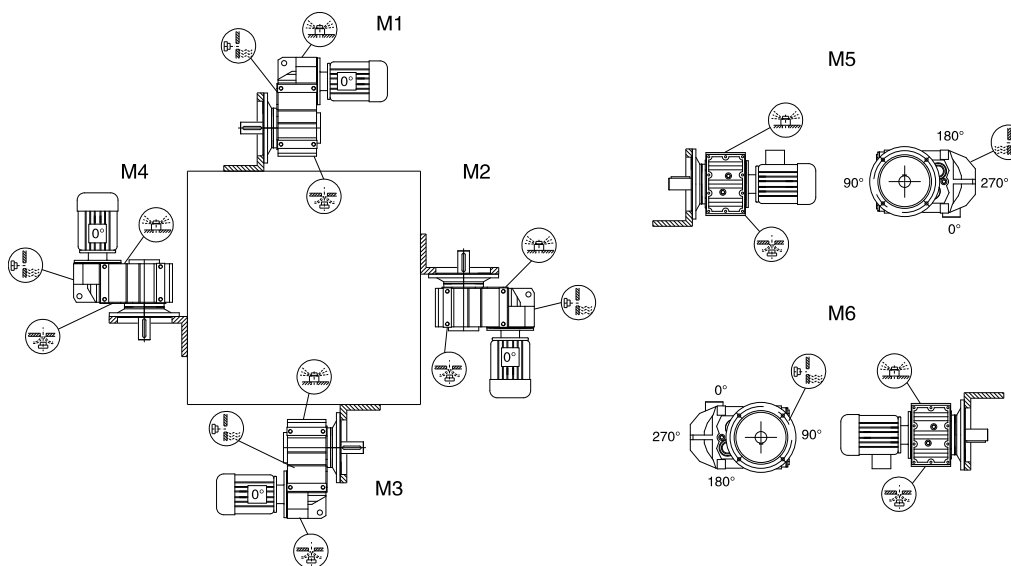
Note: The specified fill quantities are recommended values. The precise values vary depending on the number of stages and gear ratio.

When filling, it is essential to check the oil level plug since it indicates the precise oil capacity.

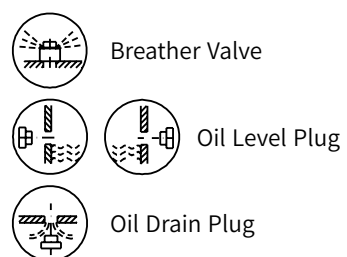
DFA37 - DFA157 설치 예시 DFA37-DFA157 Mounting position example



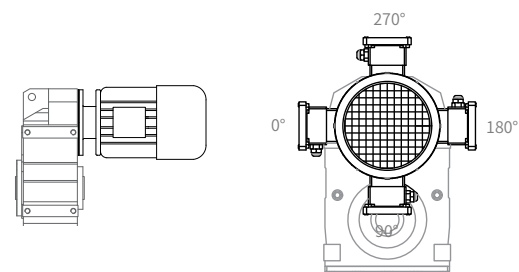
DFF37 - DFF157 설치 예시 DFF37-DFF157 Mounting position example



기호 표기 Symbol Mark



단자박스 표기 Terminal box



DF-Series 특성표

0.4kw

Motor	Type	i	60Hz				50Hz			
			n _s [1/MIN]	M _s [Nm]	F _b	OHL[N]	n _s [1/MIN]	M _s [Nm]	F _b	OHL[N]
0.4kw	DF127 DR77	6715	0.25	13425	0.80	80800	0.21	16108	0.70	76100
		5925	0.28	11800	0.95	80800	0.23	14162	0.80	79300
		5153	0.32	10180	1.10	80800	0.27	12216	0.95	81000
		4533	0.36	8875	1.30	80800	0.3	10649	1.10	81000
		3926	0.42	7740	1.50	80800	0.35	9286	1.25	81000
		3454	0.48	6765	1.70	80800	0.4	8119	1.45	81000
		3031	0.55	5920	2.00	80800	0.46	7103	1.70	81000
	DF107 DR77	3037	0.54	6055	1.25	49600	0.45	7265	1.05	46800
		2756	0.6	5485	1.35	49600	0.5	6584	1.15	48200
		2369	0.7	4720	1.55	49600	0.58	5665	1.30	50000
		2068	0.8	4120	1.85	49600	0.67	4941	1.55	51300
		1597	1.03	3165	2.40	49600	0.86	3795	2.00	53400
	DF97 DR57	1970	0.84	3990	1.00	28400	0.7	4789	0.85	26300
		1722	0.96	3515	1.20	29400	0.8	4216	1.00	27700
		1527	1.08	3120	1.35	30200	0.9	3741	1.15	28800
		1327	1.2	2640	1.55	31100	1	3168	1.30	30000
		1171	1.44	2390	1.70	31500	1.2	2865	1.45	30500
		1022	1.68	2080	2.00	31900	1.4	2497	1.70	31200
		898	1.8	1765	2.40	32400	1.5	2119	2.00	31900
	DF87 DR57	1300	1.32	2585	1.10	22700	1.1	3103	0.95	19800
		1148	1.44	2300	1.30	23500	1.2	2757	1.10	22000
		1010	1.68	2010	1.40	24200	1.4	2411	1.20	23000
		887	1.92	1775	1.60	24700	1.6	2130	1.35	23800
		780	2.16	1550	1.90	25200	1.8	1859	1.60	24400
		674	2.4	1325	2.20	25600	2	1589	1.85	25000
		609	2.76	1210	2.40	25800	2.3	1449	2.00	25300
		515	3.24	1020	2.90	26200	2.7	1222	2.45	25700
		452	3.6	900	3.30	26400	3	1081	2.75	26000
	DF77 DR37	810	2.04	1630	0.90	14200	1.7	1957	0.75	10200
		710	2.28	1435	1.00	15200	1.9	1719	0.85	13400

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
0.4kw	DF77 DR37	615	2.64	1255	1.20	15900	2.2	1503	1.00	14600
		538	3.12	1090	1.35	16400	2.6	1308	1.15	15500
		480	3.48	975	1.50	16800	2.9	1168	1.25	16100
		413	3.96	830	1.80	17200	3.3	995	1.50	16700
		367	4.56	750	1.95	17400	3.8	897	1.65	17000
		323	5.16	660	2.20	17500	4.3	789	1.85	17200
	DF67 DR37	384	4.32	785	1.00	10000	3.6	941	0.85	8700
		338	4.92	695	1.10	10500	4.1	832	0.95	9500
		305	5.4	620	1.30	10800	4.5	741	1.10	10100
		257	6.48	520	1.50	11200	5.4	622	1.25	10700
		231	7.2	460	1.70	11400	6	551	1.45	11100
	DF57 DR37	262	6.36	545	1.05	8900	5.3	654	0.90	8200
		255	6.48	515	1.10	9100	5.4	616	0.95	8400
		226	7.32	465	1.25	9400	6.1	557	1.05	8800
		200	8.28	410	1.40	9600	6.9	492	1.20	9200
		181	9.12	365	1.60	9800	7.6	438	1.35	9500
		170	9.72	345	1.65	9900	8.1	416	1.40	9500
		152	10.9	310	1.90	10100	9.1	373	1.60	9800
		134	12	270	2.20	10200	10	324	1.85	10000
	DF47 DR17	175	9.48	355	1.05	6100	7.9	427	0.90	5300
		147	11.3	300	1.30	6500	9.4	362	1.10	6000
		130	13.2	265	1.40	6800	11	319	1.20	6300
	DF77	281.71	5.88	650	2.25	17600	4.9	778	1.90	17300
		262.93	6.24	610	2.40	17600	5.2	730	2.00	17400
		225.79	7.32	525	2.85	17800	6.1	627	2.40	17600
		198.31	8.4	460	3.30	17800	7	551	2.75	17700
	DF67	228.99	7.2	525	1.50	11200	6	632	1.25	10800
		195.39	8.52	450	1.80	11500	7.1	541	1.50	11200
		170.85	9.72	390	2.00	11600	8.1	470	1.70	11400
		162.31	10.2	375	2.15	11700	8.5	449	1.80	11500
		142.4	11.6	330	2.40	11700	9.7	395	2.00	11600
		120.79	13.2	280	2.90	11700	11	335	2.45	11700
	DF57	199.7	8.28	460	1.25	9400	6.9	551	1.05	8900
		183.6	9	425	1.40	9600	7.5	508	1.20	9100

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
0.4kw	DF57	157.09	10.6	360	1.60	9900	8.8	432	1.35	9500
		136.16	12	315	1.85	10100	10	378	1.55	9800
		127.27	13.2	295	2.00	10200	11	351	1.70	9900
		110.01	15.6	255	2.25	10300	13	303	1.90	10100
		93.47	18	215	2.75	10300	15	259	2.30	10400
		83.46	20.4	195	3.05	10300	17	232	2.55	10400
	DF47	150.06	11	345	1.10	6200	9.2	416	0.95	5500
		130.07	13.2	300	1.30	6600	11	362	1.10	6100
		105.09	15.6	245	1.60	6900	13	292	1.35	6600
		89.29	18	210	1.90	7000	15	249	1.60	6800
		79.72	20.4	185	2.15	7100	17	222	1.80	7000
		68.09	24	155	2.50	7200	20	188	2.10	7100
	DF37	65.36	25.2	150	2.60	7200	21	181	2.20	7100
		86.53	19.2	200	0.95	4100	16	238	0.80	3600
		80.65	20.4	185	1.00	4200	17	222	0.85	3800
		70.5	24	165	1.20	4400	20	196	1.00	4100
		66.09	25.2	155	1.30	4500	21	183	1.10	4200
		58.32	28.8	135	1.40	4600	24	161	1.20	4400
		54.54	30	125	1.55	4600	25	151	1.30	4500
		51.7	32.4	120	1.60	4700	27	143	1.35	4500
		47.02	34.8	110	1.80	4700	29	130	1.50	4600
		43.83	37.2	100	1.95	4800	31	121	1.65	4700
		38.31	43.2	88	2.20	4700	36	106	1.85	4700
		35.91	45.6	83	2.40	4700	38	99	2.00	4800
31.69	52.8	73	2.75	4500	44	88	2.30	4800		
28.09	58.8	65	3.05	4400	49	78	2.55	4600		
23.88	69.6	55	3.65	4200	58	66	3.05	4400		

0.75kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
0.75kw	DF157 DR97	2780	0.6	10250	1.70	106400	0.5	12300	1.45	103200
		2427	0.68	8915	2.00	107500	0.57	10700	1.70	105100
		1674	0.98	6315	2.85	108000	0.82	7580	2.40	108000
		1308	1.32	4860	3.70	108000	1.1	5830	3.10	108000
		1169	1.44	4310	4.20	108000	1.2	5170	3.50	108000

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
0.75kw	DF127 DR77	3031	0.55	11500	1.00	80800	0.46	13800	0.85	77900
		2672	0.62	10335	1.10	80800	0.52	12400	0.95	80300
		2357	0.71	9085	1.30	80800	0.59	10900	1.10	81000
		2038	0.82	7825	1.55	80800	0.68	9390	1.30	81000
		1784	0.92	6825	1.70	80800	0.77	8190	1.45	81000
		1606	1.03	6125	1.95	80800	0.86	7350	1.65	81000
	DF107 DR77	1826	0.91	6965	1.05	47600	0.76	8360	0.90	43800
		1597	1.03	6165	1.25	48800	0.86	7400	1.05	46000
		1401	1.18	5390	1.40	50400	0.98	6470	1.20	48000
		1243	1.32	4740	1.60	51600	1.1	5690	1.35	49100
		1087	1.56	4200	1.80	52400	1.3	5040	1.50	50400
		950	1.8	3625	2.10	53600	1.5	4350	1.75	51800
		834	2.04	3165	2.40	54400	1.7	3800	2.00	52800
		640	2.64	2450	3.10	55600	2.2	2940	2.60	54400
		436	3.84	1665	4.55	56400	3.2	2000	3.80	55900
	DF97 DR57	1022	1.68	4010	1.05	28100	1.4	4810	0.90	24200
		898	1.8	3460	1.25	29400	1.5	4150	1.05	27100
		784	2.16	3050	1.40	30200	1.8	3660	1.20	28400
		690	2.4	2660	1.60	30900	2	3190	1.35	29400
		605	2.76	2335	1.85	31400	2.3	2800	1.55	30200
		529	3.12	2035	2.10	31900	2.6	2440	1.75	31000
		467	3.6	1800	2.40	32300	3	2160	2.00	31500
		406	4.08	1550	2.75	32600	3.4	1860	2.30	32000
		363	4.56	1390	3.10	32900	3.8	1670	2.60	32300
		DF87 DR57	674	2.4	2600	1.10	22400	2	3120	0.95
	609		2.76	2360	1.25	23100	2.3	2830	1.05	21500
	515		3.24	1990	1.50	24100	2.7	2390	1.25	22900
	452		3.6	1750	1.70	24600	3	2100	1.45	23700
	345		4.8	1325	2.25	25600	4	1590	1.90	24900
	DF77 DR37	367	4.56	1435	1.00	14900	3.8	1720	0.85	13000
		323	5.16	1265	1.20	15600	4.3	1520	1.00	13900
		280	5.88	1090	1.35	16300	4.9	1310	1.15	15000
	DF87	270.68	6.12	1165	2.50	24600	5.1	1400	2.10	25300
		255.37	6.48	1110	2.75	24900	5.4	1330	2.30	25400
		228.93	7.2	990	3.00	25200	6	1190	2.50	25700

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
0.75kw	DF77	198.31	8.4	860	1.70	15600	7	1030	1.45	16400
		188.4	8.76	815	1.85	15900	7.3	980	1.55	16600
		166.47	9.96	715	2.10	16400	8.3	860	1.75	16900
		142.27	11.6	615	2.40	16900	9.7	740	2.00	17300
		130.42	13.2	565	2.60	17100	11	675	2.20	17400
		114.45	14.4	495	3.00	17300	12	595	2.50	17600
		108.46	15.6	470	3.20	17400	13	565	2.70	17600
	DF67	170.85	9.72	740	1.05	10200	8.1	890	0.90	9000
		162.31	10.2	700	1.10	10400	8.5	840	0.95	9100
		142.4	11.6	615	1.30	10800	9.7	740	1.10	9900
		120.79	13.2	520	1.55	11200	11	625	1.30	10500
		109.04	15.6	470	1.70	11400	13	565	1.45	10900
		95.94	16.8	415	1.95	11600	14	500	1.65	11200
		90.59	18	390	2.10	11600	15	470	1.75	11300
		79.76	20.4	345	2.40	11700	17	415	2.00	11500
		67.65	24	290	2.75	11700	20	350	2.30	11700
		61.07	27.6	265	3.10	11700	23	315	2.60	11700
	DF57	93.47	18	405	1.50	8500	15	485	1.25	9200
		83.46	20.4	365	1.65	8800	17	435	1.40	9400
		72.98	22.8	315	1.90	9200	19	380	1.60	9600
		68.22	24	295	2.00	9400	20	355	1.70	9700
		58.97	27.6	255	2.30	9700	23	305	1.95	10000
		50.1	33.6	215	2.75	10000	28	260	2.30	10200
		44.73	37.2	190	3.10	10100	31	230	2.60	10300
		DF47	79.72	20.4	345	1.10	6200	17	415	0.95
	68.09		24	295	1.35	6500	20	355	1.15	6000
	65.36		25.2	285	1.40	6600	21	340	1.20	6100
	56.49		28.8	245	1.60	6800	24	295	1.35	6500
48	34.8		210	1.90	7000	29	250	1.60	6800	
42.86	38.4		185	2.15	7000	32	220	1.80	6900	
36.61	45.6		160	2.50	6800	38	190	2.10	7000	
34.29	48		150	2.60	6700	40	178	2.20	7000	
28.88	57.6		125	3.20	6400	48	150	2.70	6700	

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
0.75kw	DF37	47.02	34.8	205	0.95	4000	29	245	0.80	3400
		43.83	37.2	190	1.05	4100	31	230	0.90	3600
		38.31	43.2	165	1.20	4100	36	199	1.00	4000
		35.91	45.6	155	1.25	4100	38	186	1.05	4100
		31.69	52.8	140	1.40	4000	44	165	1.20	4200
		28.09	58.8	120	1.60	3900	49	146	1.35	4100
		23.88	69.6	105	1.90	3800	58	124	1.60	4000
		23.63	69.6	105	1.95	3800	58	123	1.65	4000
		20.57	80.4	89	2.20	3700	67	107	1.85	3900
		19.27	86.4	83	2.40	3600	72	100	2.00	3800
		17.03	97.2	73	2.75	3500	81	88	2.30	3700
		14.33	115	62	3.20	3400	96	74	2.70	3600
		12.87	128	56	3.60	3300	107	67	3.00	3500

1.5kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
1.5kw	DF157 DR97	2427	0.7	18250	0.95	91900	0.58	21900	0.80	79900
		2185	0.78	16415	1.05	96300	0.65	19700	0.90	87200
		1944	0.88	14585	1.25	99700	0.73	17500	1.05	92900
		1674	1.01	12750	1.40	102300	0.84	15300	1.20	97500
		1308	1.32	9915	1.80	106100	1.1	11900	1.50	102700
		1169	1.44	8835	2.00	107300	1.2	10600	1.70	104700
		953	1.8	7115	2.50	108000	1.5	8540	2.10	107200
		845	2.04	6275	2.85	108000	1.7	7530	2.40	108000
		446	3.84	3315	5.40	108000	3.2	3980	4.50	108000
		302	5.64	2240	8.00	108000	4.7	2690	6.70	108000
	DF127 DR77	1606	1.06	12335	0.95	80800	0.88	14800	0.80	76100
		1390	1.2	10665	1.10	80800	1	12800	0.95	79700
		1220	1.44	9335	1.25	80800	1.2	11200	1.05	81000
		1077	1.56	8260	1.40	80800	1.3	9910	1.20	81000
		930	1.8	7100	1.65	80800	1.5	8520	1.40	81000

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
1.5kw	DF127 DR77	820	2.04	6250	1.90	80800	1.7	7500	1.60	81000
		727	2.28	5525	2.15	80800	1.9	6630	1.80	81000
		648	2.64	4965	2.40	80800	2.2	5960	2.00	81000
	DF107 DR77	950	1.8	7275	1.05	46400	1.5	8730	0.90	41900
		834	2.04	6365	1.20	48400	1.7	7640	1.00	44700
		736	2.28	5610	1.35	50000	1.9	6730	1.15	46900
		640	2.64	4910	1.55	51200	2.2	5890	1.30	48700
		560	3	4260	1.80	52400	2.5	5110	1.50	50300
		489	3.48	3715	2.00	53200	2.9	4460	1.70	51700
		436	3.84	3340	2.25	54000	3.2	4010	1.90	52500
		370	4.56	2835	2.75	54800	3.8	3400	2.30	53600
	DF97 DR57	529	3.24	4065	1.05	27900	2.7	4880	0.90	21400
		467	3.6	3590	1.20	29000	3	4310	1.00	26700
		406	4.2	3110	1.35	30000	3.5	3730	1.15	28200
		363	4.68	2785	1.55	30600	3.9	3340	1.30	29200
	DF87 DR57	300	5.64	2300	1.30	23200	4.7	2760	1.10	21300
		249	6.84	1910	1.55	24200	5.7	2290	1.30	22900
	DF97	276.77	6.12	2340	1.85	29200	5.1	2810	1.55	30300
		253.41	6.72	2140	1.95	29800	5.6	2570	1.65	30900
		223.88	7.56	1890	2.25	30600	6.3	2270	1.90	31400
		189.92	8.88	1610	2.60	31300	7.4	1930	2.20	32000
		174.87	9.72	1485	2.85	31600	8.1	1780	2.40	32200

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
1.5kw	DF77	166.47	10.2	1410	1.05	15000	8.5	1690	0.90	12900
		142.27	11.9	1210	1.25	15900	9.9	1450	1.05	14500
		130.42	13.2	1100	1.35	16300	11	1320	1.15	15100
		114.45	14.4	965	1.55	16700	12	1160	1.30	15800
		108.46	15.6	915	1.60	16800	13	1100	1.35	16100
		94.93	18	800	1.85	17200	15	960	1.55	16600
		85.52	19.2	725	2.10	17300	16	870	1.75	16900
		75.02	22.8	635	2.30	17500	19	760	1.95	17200
		72.5	22.8	615	2.40	17600	19	735	2.00	17300
		66.46	25.2	565	2.60	17600	21	675	2.20	17400
		58.32	28.8	495	3.00	17800	24	595	2.50	17600
		55.27	31.2	465	3.20	17800	26	560	2.70	17600
		48.37	34.8	410	3.60	17800	29	490	3.00	17700
		43.58	38.4	370	4.05	17900	32	445	3.40	17800
		38.23	44.4	325	4.65	18000	37	390	3.90	17900
		36.58	46.8	310	3.60	18000	39	370	3.00	17900
		31.51	54	265	5.15	18000	45	320	4.30	18000
	DF67	90.59	19.2	765	1.05	9900	16	920	0.90	8400
		79.76	21.6	675	1.20	10500	18	810	1.00	9400
		67.65	25.2	570	1.40	11000	21	685	1.20	10300
		61.07	27.6	515	1.55	11200	23	620	1.30	10600
		53.73	31.2	455	1.80	11400	26	545	1.50	11000
		50.74	33.6	430	1.90	11500	28	515	1.60	11100
		43.2	39.6	365	2.20	11700	33	440	1.85	11400
		39.26	43.2	335	2.30	11700	36	400	1.95	11500
		36.3	46.8	310	2.60	11700	39	370	2.20	11600
		32.08	52.8	270	3.00	11700	44	325	2.50	11700
		27.41	61.2	235	3.45	11700	51	280	2.90	11700
		25.13	67.2	215	3.80	11700	56	255	3.20	11700
	DF57	58.97	28.8	500	1.20	9100	24	600	1.00	8300
		50.1	33.6	425	1.40	8800	28	510	1.20	8900
		44.73	38.4	380	1.55	8600	32	455	1.30	9000

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
1.5kw	DF57	39.21	44.4	325	1.85	8400	37	390	1.55	8800
		35.79	46.8	305	1.95	8300	39	365	1.65	8700
		30.15	56.4	255	2.30	8000	47	305	1.95	8400
	DF47	36.61	46.8	310	1.30	5800	39	370	1.10	5700
		34.29	49.2	290	1.35	5800	41	350	1.15	5900
		28.88	58.8	245	1.60	5600	49	295	1.35	5900
		30.86	55.2	265	1.55	5700	46	315	1.30	5900
		29.32	57.6	250	1.60	5700	48	300	1.35	5900
		25.72	66	215	1.85	5600	55	260	1.55	5800
		21.82	78	185	2.15	5400	65	220	1.80	5600
		19.7	86.4	165	2.40	5300	72	200	2.00	5500
		17.33	97.2	145	2.75	5100	81	176	2.30	5400
		16.36	103	140	2.85	5000	86	166	2.40	5300
		13.93	121	120	3.35	4900	101	142	2.80	5100
	DF37	20.57	82.8	175	1.10	3100	69	210	0.95	3100
		19.27	87.6	165	1.20	3000	73	196	1.00	3100
		17.03	99.6	145	1.35	3000	83	173	1.15	3100
		14.33	118	120	1.60	2900	98	146	1.35	3000
		12.87	132	110	1.85	2900	110	131	1.55	3000
		11.08	152	94	2.00	2800	127	113	1.70	2900
		10.42	162	88	2.10	2800	135	106	1.75	2900
		8.97	188	76	2.25	2700	157	91	1.90	2800
		8.01	211	68	2.50	2600	176	81	2.10	2800

2.2kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
2.2kw	DF157 DR97	1441	1.18	15750	1.10	97700	0.98	18900	0.95	89800
		1308	1.32	14665	1.20	98700	1.1	17600	1.00	92000
		1169	1.44	13085	1.35	101500	1.2	15700	1.15	96400
		953	1.8	10585	1.65	105200	1.5	12700	1.40	101300
		845	2.04	9335	1.90	106700	1.7	11200	1.60	104200
		764	2.28	8415	2.15	107700	1.9	10100	1.80	105800

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
2.2kw	DF157 DR97	680	2.52	7515	2.40	108000	2.1	9020	2.00	107000
		576	3	6340	2.85	108000	2.5	7610	2.40	108000
		446	3.84	4950	3.60	108000	3.2	5940	3.00	108000
		302	5.64	3350	5.40	108000	4.7	4020	4.50	108000
		273	6.24	3025	6.00	108000	5.2	3630	5.00	108000
		232	7.32	2550	7.05	108000	6.1	3060	5.90	108000
		197	8.64	2160	8.25	108000	7.2	2590	6.90	108000
	DF127 DR77	1077	1.56	12165	0.95	80800	1.3	14600	0.80	77100
		930	1.8	10500	1.10	80800	1.5	12600	0.95	80000
		820	2.04	9250	1.30	80800	1.7	11100	1.10	81000
		727	2.28	8190	1.40	80800	1.9	9830	1.20	81000
		648	2.64	7340	1.60	80800	2.2	8810	1.35	81000
		549	3.12	6215	1.90	80800	2.6	7460	1.60	81000
		495	3.36	5600	2.15	80800	2.8	6720	1.80	81000
		428	3.96	4840	2.50	80800	3.3	5810	2.10	81000
	DF107 DR77	640	2.64	7250	1.05	46000	2.2	8700	0.90	42600
		560	3	6315	1.20	48000	2.5	7580	1.00	44800
		489	3.48	5510	1.35	49600	2.9	6610	1.15	47100
		436	3.84	4940	1.55	50800	3.2	5930	1.30	48600
		370	4.56	4190	1.85	52400	3.8	5030	1.55	50500
		333	5.04	3765	2.00	53200	4.2	4520	1.70	51500
	DF97 DR57	285	5.88	3240	1.30	29500	4.9	3890	1.10	27800
		245	6.96	2785	1.55	30400	5.8	3340	1.30	29200
	DF107	254.4	6.6	3160	2.40	54000	5.5	3790	2.00	53200
		215.37	7.92	2675	2.85	54800	6.6	3210	2.40	54000
		199.31	8.52	2475	3.10	55200	7.1	2970	2.60	54400
		178.64	9.48	2215	3.45	55600	7.9	2660	2.90	54900
	DF97	276.77	6.12	3435	1.25	29200	5.1	4120	1.05	27400
		253.41	6.72	3150	1.35	29800	5.6	3780	1.15	28300
		223.88	7.56	2785	1.55	30500	6.3	3340	1.30	29300
		189.92	8.88	2360	1.80	31300	7.4	2830	1.50	30300
		174.87	9.72	2175	1.95	31600	8.1	2610	1.65	30800
		156.3	10.8	1940	2.20	32000	9	2330	1.85	31300
		140.71	12	1750	2.40	32300	10	2100	2.00	31700
		127.42	13.2	1585	2.75	32500	11	1900	2.30	32000

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
2.2kw	DF87	197.2	8.64	2450	1.20	22600	7.2	2940	1.00	21200
		179.97	9.36	2235	1.30	23200	7.8	2680	1.10	21800
		159.61	10.6	1985	1.50	23900	8.8	2380	1.25	22700
		134.16	13.2	1615	1.80	24700	11	1940	1.50	23800
		123.29	13.2	1535	1.95	25000	11	1840	1.65	24400
		109.49	15.6	1360	2.20	25400	13	1630	1.85	24800
		97.89	16.8	1215	2.50	25100	14	1460	2.10	25100
		88.01	19.2	1090	2.75	24500	16	1310	2.30	25500
		76.39	21.6	950	3.10	23700	18	1140	2.60	25000
		68.4	25.2	850	3.45	23000	21	1020	2.90	24400
		56.75	30	710	4.20	22000	25	850	3.50	23300
		50.36	33.6	625	4.65	21300	28	750	3.90	22700
		45.28	37.2	565	5.00	20700	31	675	4.20	22100
	DF77	114.45	14.4	1425	1.05	14800	12	1710	0.90	13100
		108.46	15.6	1350	1.10	15200	13	1620	0.95	13700
		94.93	18	1175	1.25	15900	15	1410	1.05	14700
		85.52	19.2	1060	1.40	16300	16	1270	1.20	15400
		75.02	22.8	935	1.60	16800	19	1120	1.35	16000
		66.46	25.2	825	1.80	16800	21	990	1.50	16500
		58.32	28.8	725	2.10	17000	24	870	1.75	16900
		55.27	31.2	685	2.15	17400	26	820	1.80	17000
		48.37	34.8	600	2.50	17600	29	720	2.10	17300
		43.58	38.4	540	2.75	17600	32	650	2.30	17500
		36.58	46.8	455	2.40	17800	39	545	2.00	17600
		31.51	54	390	3.45	17900	45	470	2.90	17700
		28.75	58.8	360	3.95	17900	49	430	3.30	17800
		25.5	66	315	4.80	18000	55	380	4.00	17900
	DF67	61.07	27.6	760	1.05	9800	23	910	0.90	8700
		53.73	31.2	665	1.20	10400	26	800	1.00	9500
		50.74	33.6	630	1.30	10600	28	755	1.10	9700
		43.2	39.6	540	1.50	11000	33	645	1.25	10400
		39.26	43.2	490	1.60	11200	36	585	1.35	10800
		34.01	49.2	420	1.70	11500	41	505	1.45	11200
		32.08	52.8	400	2.00	11600	44	480	1.70	11300
		27.41	61.2	340	2.40	11700	51	410	2.00	11500

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
2.2kw	DF67	25.13	67.2	315	2.60	11700	56	375	2.20	11600
		22.05	76.8	275	3.00	11700	64	330	2.50	11700
		20.9	80.4	260	3.10	11700	67	310	2.60	11700
		18.29	92.4	230	3.60	11700	77	275	3.00	11700
	DF57	44.73	38.4	555	1.05	7700	32	665	0.90	6000
		38.21	44.4	475	1.25	7600	37	570	1.05	7800
		35.79	46.8	445	1.35	7500	39	535	1.15	7800
		30.15	56.4	375	1.55	7300	47	450	1.30	7600
		24.96	67.2	310	1.85	7100	56	370	1.55	7400
		21.17	80.4	265	2.25	6900	67	315	1.90	7200
		19.11	88.8	240	2.50	6700	74	285	2.10	7100
		16.81	101	210	2.85	6600	84	250	2.40	6900
		15.88	107	195	3.00	6500	89	235	2.50	6800
	DF47	25.72	66	320	1.25	4900	55	385	1.05	5000
		21.82	78	275	1.50	4800	65	328	1.25	5000
		19.7	86.4	245	1.60	4800	72	295	1.35	4900
		17.33	97.2	215	1.85	4700	81	260	1.55	4900
		16.36	103	205	1.95	4600	86	245	1.65	4800
		13.93	121	175	2.30	4500	101	210	1.95	4700
		12.66	133	160	2.50	4400	111	189	2.10	4700
		10.97	155	135	3.00	4300	129	163	2.50	4500
	DF37	8.96	188	110	3.00	4000	157	133	2.50	4300
		14.33	118	180	1.10	2500	98	215	0.95	2500
		12.87	132	160	1.25	2500	110	192	1.05	2500
		11.08	152	140	1.35	2500	127	165	1.15	2500
		10.42	162	130	1.40	2500	135	155	1.20	2500
		8.97	188	110	1.55	2400	157	134	1.30	2500
		8.01	211	99	1.65	2400	176	119	1.40	2500
		6.74	251	83	1.65	2300	209	100	1.40	2400
		6.05	280	75	1.80	2200	233	90	1.50	2300
		5.21	325	65	1.90	2200	271	78	1.60	2300
		4.9	346	61	1.95	2200	288	73	1.65	2300
		4.22	401	53	2.10	2100	334	63	1.75	2200
		3.77	449	47	2.20	2100	374	56	1.85	2200

3.7kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
3.7kw	DF157 DR97	845	2.04	15880	1.05	96500	1.7	19055	0.90	83800
		764	2.28	14340	1.20	99500	1.9	17205	1.00	89700
		680	2.52	12795	1.35	102100	2.1	15355	1.15	93500
		576	3	10790	1.65	105000	2.5	12950	1.40	99100
		446	3.84	8405	2.10	107600	3.2	10083	1.75	104100
		302	5.64	5695	3.05	108000	4.7	6836	2.55	108000
		273	6.24	5140	3.45	108000	5.2	6170	2.90	108000
		232	7.32	4350	4.10	108000	6.1	5217	3.45	108000
		197	8.64	3685	4.90	108000	7.2	4422	4.10	108000
	DF127 DR77	549	3.12	10485	1.10	80800	2.6	12580	0.95	79000
		495	3.48	9405	1.25	80800	2.9	11285	1.05	81000
		428	3.96	8170	1.40	80800	3.3	9805	1.20	81000
		376	4.56	7145	1.65	80800	3.8	8575	1.40	81000
	DF107 DR77	333	5.16	6345	1.20	48000	4.3	7613	1.00	43800
		291	5.88	5545	1.30	49600	4.9	6651	1.10	45700
		255	6.72	4865	1.50	51200	5.6	5837	1.25	47800
	DF107	254.4	6.72	5110	1.40	50400	5.6	6133	1.20	47300
		215.37	7.92	4325	1.70	52000	6.6	5189	1.45	49400
		199.31	8.52	4010	1.90	52400	7.1	4810	1.60	50300
		178.64	9.48	3595	2.10	53200	7.9	4311	1.75	51300
		161.28	10.6	3240	2.40	54000	8.8	3885	2.00	51900
		146.49	11.6	2945	2.55	54400	9.7	3534	2.15	52700
		129.97	13.2	2615	2.90	54800	11	3136	2.45	53600
		174.87	9.72	3515	1.20	28800	8.1	4218	1.00	26200
	DF97	156.3	10.9	3140	1.30	29600	9.1	3765	1.10	27500
		140.71	12	2830	1.40	30200	10	3395	1.20	28500
		127.42	13.2	2560	1.65	30800	11	3071	1.40	29300
		112.99	15.6	2265	1.85	31300	13	2720	1.55	30100
		102.16	16.8	2050	2.00	31700	14	2461	1.70	30500
		97.58	18	1960	2.15	31800	15	2350	1.80	30700
		89.85	19.2	1805	2.40	32100	16	2165	2.00	31100
		80.31	21.6	1610	2.55	32400	18	1933	2.15	31600
		72.3	24	1450	2.90	32600	20	1739	2.45	32000

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
3.7kw	DF87	109.49	15.6	2195	1.30	22600	13	2636	1.10	21200
		97.89	18	1965	1.40	22400	15	2359	1.20	21900
		88.01	19.2	1765	1.60	22000	16	2118	1.35	22100
		76.39	22.8	1535	1.85	21600	19	1841	1.55	21800
		68.4	25.2	1375	2.10	21100	21	1647	1.75	21500
		56.75	30	1140	2.50	20400	25	1369	2.10	20900
		50.36	33.6	1010	2.80	19900	28	1212	2.35	20500
	DF77	66.46	25.2	1335	1.05	15000	21	1600	0.90	12500
		58.32	28.8	1170	1.20	15800	24	1406	1.00	14000
		55.27	31.2	1110	1.25	16000	26	1332	1.05	14500
		48.37	34.8	970	1.40	16500	29	1166	1.20	15400
		43.58	39.6	870	1.65	16800	33	1045	1.40	15900
		38.23	44.4	765	1.90	17100	37	916	1.60	16500
		33.74	50.4	680	2.10	17400	42	814	1.75	16800
		29.91	56.4	600	2.40	17500	47	722	2.00	17100
		25.54	67.2	515	2.70	17700	56	615	2.25	17400
		31.51	54	635	2.10	17400	45	759	1.75	17000
		28.75	58.8	580	2.40	17600	49	694	2.00	17200
		25.5	67.2	515	2.80	17700	56	615	2.35	17400
		21.43	79.2	430	3.35	17800	66	513	2.80	17600
	DF67	27.41	62.4	550	1.35	10900	52	661	1.15	10100
		25.13	68.4	505	1.50	11100	57	606	1.25	10300
		22.05	76.8	445	1.80	11400	64	532	1.50	10700
		20.9	81.6	420	1.85	11400	68	504	1.55	10900
		18.29	93.6	365	2.15	11600	78	439	1.80	11200
		16.48	103	330	2.40	11700	86	393	2.00	11400
		14.46	118	290	2.70	11700	98	347	2.25	11600
		9.08	187	180	2.80	11200	156	217	2.35	11700
	DF57	21.17	80.4	425	1.35	6000	67	509	1.15	5800
		19.11	88.8	380	1.50	5900	74	458	1.25	5800
		16.81	101	335	1.70	5800	84	402	1.45	5800
		15.88	107	315	1.85	5800	89	379	1.55	5800
		13.52	126	270	2.15	5600	105	324	1.80	5700
		12.29	139	245	2.40	5600	116	296	2.00	5600
		10.64	160	210	2.80	5400	133	254	2.35	5500

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
3.7kw	DF57	9.31	184	185	2.20	5200	153	222	1.85	5200
		8.19	208	160	2.50	5000	173	194	2.10	5100
		7.73	221	155	2.70	5000	184	185	2.25	5100

5.5kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
5.5kw	DF157 DR97	576	3	16085	1.10	103900	2.5	19300	0.95	87500
		446	3.84	12500	1.40	106900	3.2	15000	1.20	94000
		302	5.64	8415	2.15	108000	4.7	10100	1.80	105500
		273	6.24	7635	2.30	108000	5.2	9160	1.95	106700
		232	7.44	6460	2.75	108000	6.2	7750	2.30	108000
		197	8.76	5475	3.20	108000	7.3	6570	2.70	108000
	DF127 DR77	418	4.08	11665	1.00	80800	3.4	14000	0.85	78000
		374	4.56	10500	1.10	80800	3.8	12600	0.95	80600
		312	5.52	8750	1.35	80800	4.6	10500	1.15	81000
		293	5.88	8200	1.40	80800	4.9	9840	1.20	81000
		259	6.6	7235	1.65	80800	5.5	8680	1.40	81000
		223	7.68	6250	1.90	80800	6.4	7500	1.60	81000
		428	3.96	12085	1.00	80800	3.3	14500	0.85	77200
		376	4.56	10585	1.10	80800	3.8	12700	0.95	80400
	DF107	215.37	7.92	6590	1.10	51200	6.6	7910	0.95	44600
		199.31	8.64	5965	1.25	52000	7.2	7160	1.05	46100
		178.64	9.6	5350	1.35	52800	8	6420	1.15	47700
		161.28	10.7	4825	1.55	53600	8.9	5790	1.30	49100
		146.49	11.8	4385	1.70	54000	9.8	5260	1.45	50100
		129.97	13.2	3890	1.90	54400	11	4670	1.60	51100
		117.94	14.4	3525	2.10	55200	12	4230	1.75	51900
		101.38	16.8	3035	2.50	55600	14	3640	2.10	53100
	DF97	127.42	13.2	3815	1.05	30400	11	4580	0.90	26100
		112.99	15.6	3385	1.25	31000	13	4060	1.05	27500
		102.16	16.8	3060	1.35	31400	14	3670	1.15	28500

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
5.5kw	DF97	97.58	18	2915	1.40	31600	15	3500	1.20	28700
		89.85	19.2	2685	1.55	31900	16	3220	1.30	29300
		86.59	20.4	2590	1.60	32000	17	3110	1.35	29600
		80.31	21.6	2400	1.70	32200	18	2880	1.45	30100
		72.3	24	2160	1.90	32500	20	2590	1.60	30700
		65.47	26.4	1960	2.15	32100	22	2350	1.80	31100
	DF87	88.01	19.2	2635	1.10	21500	16	3160	0.95	10700
		76.39	22.8	2285	1.25	21100	19	2740	1.05	19100
		68.4	25.2	2040	1.40	20700	21	2450	1.20	19100
		56.75	30	1700	1.70	20000	25	2040	1.45	18900
		50.36	33.6	1510	1.90	19600	28	1810	1.60	18600
		45.28	38.4	1350	2.00	19200	32	1620	1.70	18500
	DF77	48.37	36	1440	1.00	16300	30	1730	0.85	12500
		43.58	39.6	1300	1.10	16600	33	1560	0.95	13800
		38.23	44.4	1140	1.25	17000	37	1370	1.05	14900
		33.74	50.4	1010	1.40	17200	42	1210	1.20	15700
		29.91	57.6	890	1.60	17400	48	1070	1.35	16200
		25.54	67.2	760	1.85	17600	56	910	1.55	16700
		25.5	67.2	760	1.90	17600	56	910	1.60	16700
		21.43	80.4	640	2.25	17800	67	770	1.90	17100
		19.7	87.6	590	2.50	17800	73	705	2.10	17300
	DF67	22.05	78	675	1.20	11200	65	810	1.00	9500
		20.9	81.6	640	1.25	11300	68	770	1.05	9800
		18.29	93.6	560	1.40	11500	78	670	1.20	10400
		16.48	104	505	1.60	11600	87	605	1.35	10700
		14.46	119	440	1.85	11700	99	530	1.55	11100
		12.76	134	390	2.10	11700	112	470	1.75	11300
		11.31	151	345	2.30	11700	126	415	1.95	11500
		9.66	178	295	2.75	11400	148	355	2.30	11600
		9.08	190	280	1.90	11100	158	335	1.60	11200
		8.6	199	265	2.15	10900	166	315	1.80	11100
		7.53	228	230	2.60	10600	190	275	2.20	10800
		6.78	253	210	3.00	10300	211	250	2.50	10500

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
5.5kw	DF67	5.95	288	185	3.35	10000	240	220	2.80	10300
		5.25	326	160	3.70	9700	272	193	3.10	10000
		4.66	368	145	3.95	9400	307	171	3.30	9600
		3.97	432	120	4.05	9000	360	146	3.40	9300
	DF57	16.81	102	515	1.10	5700	85	620	0.95	4900
		15.88	108	490	1.25	5600	90	585	1.05	4900
		13.52	127	415	1.40	5500	106	495	1.20	5000
		12.29	139	375	1.60	5400	116	450	1.35	5000
		10.64	161	325	1.85	5300	134	390	1.55	5000
		8.19	210	250	1.65	5000	175	300	1.40	4700
		7.73	222	240	1.80	4900	185	285	1.50	4600
		6.58	260	200	2.10	4700	217	240	1.75	4600
		5.98	287	185	2.25	4600	239	220	1.90	4500
		5.18	331	160	2.60	4500	276	190	2.20	4400

7.5kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
7.5kw	DF127 DR87	312	5.52	11915	1.00	80800	4.6	14300	0.85	77700
		293	5.88	11250	1.05	80800	4.9	13500	0.90	79200
		259	6.6	9915	1.20	80800	5.5	11900	1.00	81000
		223	7.68	8585	1.35	80800	6.4	10300	1.15	81000
		198	8.64	7565	1.55	80800	7.2	9080	1.30	81000
	DF127	170.38	10.1	7135	1.65	80800	8.4	8560	1.40	81000
		153.27	11.2	6415	1.85	80800	9.3	7700	1.55	81000
		125.04	13.2	5235	2.25	80800	11	6280	1.90	81000
	DF107	178.64	9.6	7260	1.00	46000	8	8710	0.85	42300
		161.28	10.7	6550	1.10	47600	8.9	7860	0.95	44400
		146.49	11.8	5950	1.25	48800	9.8	7140	1.05	46100
		129.97	13.2	5285	1.40	50000	11	6340	1.20	47900
		117.94	14.4	4790	1.55	51200	12	5750	1.30	49100
		101.38	16.8	4115	1.80	52400	14	4940	1.50	50500

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
7.5kw	DF107	92.47	18	3760	1.95	53200	15	4510	1.65	51400
		88.49	19.2	3590	2.10	53200	16	4310	1.75	51800
		83.99	20.4	3410	2.20	53600	17	4090	1.85	52200
		74.52	22.8	3025	2.50	54400	19	3630	2.10	53100
		67.62	25.2	2740	2.75	53200	21	3290	2.30	53600
	DF97	97.58	18	3965	1.05	27800	15	4760	0.90	22100
		89.85	19.2	3650	1.10	28600	16	4380	0.95	26600
		86.59	20.4	3515	1.20	28900	17	4220	1.00	27100
		80.31	21.6	3260	1.25	29000	18	3910	1.05	27900
		75.63	22.8	3065	1.35	28800	19	3680	1.15	28400
		72.3	24	2935	1.40	28700	20	3520	1.20	28600
		65.47	26.4	2660	1.55	28300	22	3190	1.30	29000
		58.06	30	2360	1.80	27800	25	2830	1.50	28600
		52.49	32.4	2135	1.95	27400	27	2560	1.65	28300
		44.49	38.4	1810	2.30	26500	32	2170	1.95	27500
		38.86	44.4	1575	2.60	25800	37	1890	2.20	26900
		32.5	52.8	1315	3.10	24800	44	1580	2.60	26000
		43.28	39.6	1760	1.65	26400	33	2110	1.40	27500
		36.64	46.8	1485	1.95	25500	39	1780	1.65	26600
		33.91	50.4	1375	3.00	25100	42	1650	2.50	26300
		30.39	56.4	1235	3.35	24500	47	1480	2.80	25700
	DF87	56.75	30	2300	1.25	16400	25	2760	1.05	16300
		50.36	33.6	2040	1.35	16300	28	2450	1.15	16400
		45.28	38.4	1835	1.50	16200	32	2200	1.25	16400
		39.3	43.2	1590	1.65	16000	36	1910	1.40	16300
		35.19	49.2	1425	1.80	15800	41	1710	1.50	16200
		29.2	58.8	1185	2.00	15400	49	1420	1.70	15800
		28.78	60	1165	2.00	15400	50	1400	1.70	15800
		26.5	64.8	1075	2.75	15200	54	1290	2.30	15700
		23.68	72	960	3.00	14900	60	1150	2.50	15400
		21.32	80.4	865	3.35	14600	67	1040	2.80	15100
		19.31	88.8	785	3.70	14300	74	940	3.10	14900
		17.12	101	690	4.20	13900	84	830	3.50	14600
		15.48	110	630	4.65	13600	92	755	3.90	14300

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
7.5kw	DF77	33.74	50.4	1365	1.05	15000	42	1640	0.90	13200
		29.91	57.6	1210	1.20	15700	48	1450	1.00	14400
		25.54	67.2	1035	1.35	16400	56	1240	1.15	15500
		25.5	67.2	1035	1.35	16400	56	1240	1.15	15500
		21.43	80.4	865	1.65	16900	67	1040	1.40	16300
		19.7	87.6	800	1.80	17100	73	960	1.50	16600
		17.49	98.4	710	2.00	16700	82	850	1.70	16900
		15.64	109	635	2.25	16300	91	760	1.90	17100
		14.06	122	570	2.50	16000	102	685	2.10	16700
		12.21	140	495	3.00	15500	117	595	2.50	16200
		10.93	157	440	3.20	15100	131	530	2.70	15800
		9.3	185	375	2.75	14200	154	450	2.30	14900
		8.26	208	335	3.10	13800	173	400	2.60	14500
		7.38	233	300	3.45	13400	194	360	2.90	14100
		6.64	258	265	3.80	13100	215	320	3.20	13800
		5.76	298	235	4.40	12700	248	280	3.70	13300
		5.16	332	210	5.00	12300	277	250	4.20	13100
		4.28	413	170	5.60	11800	344	205	4.70	12400

11kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
11kw	DF157 DR97	302	5.76	16915	1.05	93700	4.8	20300	0.90	84200
		273	6.36	15250	1.20	97300	5.3	18300	1.00	89800
		232	7.44	12915	1.35	101500	6.2	15500	1.15	96600
		202	8.52	11250	1.60	104100	7.1	13500	1.35	100400
		197	8.76	11000	1.60	104500	7.3	13200	1.35	101100
	DF127 DR87	198	8.76	11085	1.05	80800	7.3	13300	0.90	79500
		166	10.4	9250	1.30	80800	8.7	11100	1.10	81000
	DF157	267.43	6.48	15835	1.05	95500	5.4	19000	0.90	87200
		217.62	7.92	12915	1.35	101200	6.6	15500	1.15	96200
		178.2	9.72	10585	1.65	104700	8.1	12700	1.40	101500
		162.96	10.6	9665	1.80	105900	8.8	11600	1.50	103300

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
11kw	DF157	141.8	12	8415	2.10	107300	10	10100	1.75	105100
		125.14	14.4	7435	2.30	108000	12	8920	1.95	106600
		108.49	15.6	6440	2.75	106800	13	7730	2.30	107900
		96.53	18	5735	3.10	104000	15	6880	2.60	108000
		85.8	20.4	5090	3.45	101100	17	6110	2.90	106300
	DF127	170.38	10.1	10085	1.10	80800	8.4	12100	0.95	81000
		153.27	11.3	9085	1.25	80800	9.4	10900	1.05	81000
		125.04	13.2	7450	1.55	80800	11	8940	1.30	81000
		114.04	15.6	6790	1.70	80800	13	8150	1.45	81000
		98.69	18	5875	1.95	80400	15	7050	1.65	81000
		87.08	19.2	5185	2.25	78400	16	6220	1.90	81000
		75.21	22.8	4475	2.60	76000	19	5370	2.20	79700
	DF107	117.94	14.4	7165	1.05	46000	12	8600	0.90	43000
		101.38	16.8	6165	1.25	48400	14	7400	1.05	45900
		83.99	20.4	5110	1.50	50400	17	6130	1.25	48700
		74.52	22.8	4535	1.65	50800	19	5440	1.40	49800
		67.62	25.2	4110	1.85	50000	21	4930	1.55	50900
		58.12	30	3535	2.15	48800	25	4240	1.80	50800
		50.73	33.6	3085	2.50	47600	28	3700	2.10	49600
		43.03	39.6	2615	3.00	46000	33	3140	2.50	48200
		33.79	51.6	2060	3.60	43600	43	2470	3.00	45600
		27.57	62.4	1675	4.65	41600	52	2010	3.90	43900
		25.14	68.4	1525	5.15	40800	57	1830	4.30	43000
	DF97	65.47	26.4	3985	1.05	24200	22	4780	0.90	24200
		58.06	30	3535	1.20	24100	25	4240	1.00	24400
		52.49	32.4	3190	1.30	24000	27	3830	1.10	24400
		44.49	38.4	2710	1.55	23700	32	3250	1.30	24200
		38.86	44.4	2360	1.80	23400	37	2830	1.50	24000
		32.5	52.8	1975	2.15	22800	44	2370	1.80	23600
		33.91	50.4	2060	2.10	23000	42	2470	1.75	23800
		30.39	56.4	1850	2.30	22600	47	2220	1.95	23300
		27.44	62.4	1665	2.60	22200	52	2000	2.20	23000
		24.92	69.6	1515	2.85	21800	58	1820	2.40	22700
		22.11	78	1340	3.20	21300	65	1610	2.70	22200

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
11kw	DF87	39.3	44.4	2335	1.10	13300	37	2800	0.95	13100
		35.19	49.2	2085	1.20	13400	41	2500	1.00	13300
		29.2	58.8	1735	1.40	13400	49	2080	1.20	13500
		26.5	64.8	1565	1.85	13300	54	1880	1.55	13500
		23.68	73.2	1400	2.10	13200	61	1680	1.75	13500
		21.32	81.6	1265	2.30	13100	68	1520	1.95	13400
		19.31	90	1140	2.50	12900	75	1370	2.10	13300
		17.12	101	1015	2.85	12700	84	1220	2.40	13100
		15.48	112	915	3.20	12500	93	1100	2.70	13000
		13.12	132	775	3.70	12200	110	930	3.10	12700
	DF77	19.7	87.6	1165	1.25	15800	73	1400	1.05	14700
		17.49	98.4	1035	1.40	15600	82	1240	1.20	15500
		15.64	110	925	1.55	15300	92	1110	1.30	15800
		14.06	122	835	1.70	15000	102	1000	1.45	15600
		12.21	142	725	2.00	14700	118	870	1.70	15200
		10.93	158	645	2.25	14400	132	775	1.90	14900
		9.3	186	550	1.90	13400	155	660	1.60	14000
		8.26	209	505	2.15	13100	174	605	1.80	13700
		7.38	234	450	2.40	12800	195	540	2.00	13400
		6.64	260	405	2.60	12600	217	485	2.20	13100
		5.76	300	350	3.10	12200	250	420	2.60	12800
		5.16	335	315	3.45	11900	279	375	2.90	12500
		4.28	403	260	3.80	11400	336	310	3.20	12000

15kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
15kw	DF157 DR97	232	7.56	17415	1.00	91900	6.3	20900	0.85	81200
		202	8.64	15250	1.20	97000	7.2	18300	1.00	89500
		197	8.88	14750	1.20	97800	7.4	17700	1.00	90800
	DF157	217.62	8.04	17585	1.00	91400	6.7	21100	0.85	80600
		178.2	9.84	14415	1.25	98500	8.2	17300	1.05	92000

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
15kw	DF157	162.96	10.8	13165	1.35	100700	9	15800	1.15	95500
		141.8	12	11415	1.55	103500	10	13700	1.30	99700
		125.14	14.4	10085	1.70	105300	12	12100	1.45	102400
		108.49	15.6	8750	2.00	102600	13	10500	1.70	104900
		96.53	18	7815	2.25	100300	15	9380	1.90	104000
		85.8	20.4	6940	2.50	97800	17	8330	2.10	101900
		78.46	22.8	6350	2.75	96000	19	7620	2.30	100100
		68.28	25.2	5525	3.20	93100	21	6630	2.70	97000
		60.25	28.8	4875	3.60	90400	24	5850	3.00	94600
	DF127	125.04	14.4	10085	1.20	78800	12	12100	1.00	80000
		114.04	15.6	9250	1.25	78000	13	11100	1.05	79500
		98.69	18	8010	1.50	76400	15	9610	1.25	78200
		87.08	20.4	7065	1.65	74800	17	8480	1.40	77000
		75.21	22.8	6100	1.90	72800	19	7320	1.60	75300
		69.89	25.2	5665	2.10	72000	21	6800	1.75	74400
	DF107	92.47	19.2	7560	1.00	45600	16	9070	0.85	41600
		88.49	20.4	7235	1.05	46000	17	8680	0.90	42600
		83.99	21.6	6865	1.10	46800	18	8240	0.95	43700
		74.52	24	6090	1.25	47200	20	7310	1.05	45700
		67.62	26.4	5525	1.35	46800	22	6630	1.15	47300
		58.12	30	4750	1.60	46000	25	5700	1.35	47000
		50.73	34.8	4150	1.85	45200	29	4980	1.55	46400
		43.03	40.8	3515	2.15	44000	34	4220	1.80	45400
		37.61	46.8	3075	2.50	42800	39	3690	2.10	44400
		31.8	55.2	2600	3.00	41600	46	3120	2.50	43200
		33.79	51.6	2765	2.60	42000	43	3320	2.20	43700
		27.57	63.6	2250	3.45	40400	53	2700	2.90	42000
		25.14	69.6	2060	3.80	39600	58	2470	3.20	41300
		21.76	80.4	1775	4.40	38400	67	2130	3.70	40000
	DF97	44.49	39.6	3635	1.20	20900	33	4360	1.00	20600
		38.86	45.6	3175	1.35	20900	38	3810	1.15	20800
		32.5	54	2660	1.60	20800	45	3190	1.35	20900
		33.91	51.6	2775	1.55	20800	43	3330	1.30	20900

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
15kw	DF97	30.39	57.6	2485	1.70	20600	48	2980	1.45	20900
		27.44	63.6	2240	1.90	20400	53	2690	1.60	20800
		24.92	70.8	2040	2.10	20200	59	2450	1.75	20600
		22.11	79.2	1810	2.40	19900	66	2170	2.00	20300
		20.07	87.6	1640	2.60	19600	73	1970	2.20	20200
		17.25	102	1410	3.00	19100	85	1690	2.50	19700
		15.06	116	1235	3.45	18600	97	1480	2.90	19300
		12.77	137	1040	4.05	18000	114	1250	3.40	18700
		11.16	157	915	4.40	17400	131	1100	3.70	18200
	DF87	26.5	66	2165	1.35	11500	55	2600	1.15	11200
		23.68	74.4	1935	1.55	11600	62	2320	1.30	11300
		21.32	81.6	1740	1.70	11600	68	2090	1.45	11400
		19.31	91.2	1575	1.90	11600	76	1890	1.60	11500
		17.12	102	1400	2.15	11500	85	1680	1.80	11600
		15.48	113	1265	2.40	11400	94	1520	2.00	11500
		13.12	133	1075	2.75	11200	111	1290	2.30	11400
		11.46	152	935	3.20	11100	127	1120	2.70	11300
		9.58	182	785	3.70	10800	152	940	3.10	11100
		8.29	211	675	2.25	10200	176	810	1.90	10500
		7.35	239	600	2.50	10000	199	720	2.10	10400
		6.65	264	540	2.75	9800	220	650	2.30	10200
		5.63	311	465	3.35	9500	259	555	2.80	9900
		4.92	356	405	3.80	9200	297	485	3.20	9600
		4.12	426	340	4.30	8900	355	405	3.60	9300

18.5kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
18.5kw	DF157 DR97	202	8.64	18750	0.95	88400	7.2	22500	0.80	67400
		197	9	18165	0.95	89800	7.5	21800	0.80	77800
	DF157	178.2	9.84	17665	1.00	91000	8.2	21200	0.85	80100
		162.96	10.8	16165	1.05	94700	9	19400	0.90	86000

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
18.5kw	DF157	141.8	12	14085	1.25	99100	10	16900	1.05	92900
		125.14	14.4	12415	1.40	101100	12	14900	1.20	97400
		108.49	16.8	10750	1.65	98900	14	12900	1.40	101200
		96.53	18	9585	1.85	96900	15	11500	1.55	100100
		85.8	20.4	8500	2.10	94900	17	10200	1.75	98200
		78.46	22.8	7810	2.25	93300	19	9370	1.90	96800
		68.28	25.2	6800	2.60	90700	21	8160	2.20	94400
		60.25	28.8	6060	3.00	88400	24	7270	2.50	92100
		52.24	33.6	5250	3.45	85600	28	6300	2.90	89400
	DF127	114.04	15.6	11335	1.00	72800	13	13600	0.85	74000
		98.69	18	9835	1.20	72000	15	11800	1.00	73400
		87.08	20.4	8665	1.35	71200	17	10400	1.15	72800
		75.21	22.8	7510	1.55	69600	19	9010	1.30	71700
		69.89	25.2	6975	1.65	69200	21	8370	1.40	71100
		63.74	27.6	6360	1.85	68000	23	7630	1.55	70200
		55.16	31.2	5510	2.15	66400	26	6610	1.80	68700
		48.67	36	4860	2.40	64800	30	5830	2.00	67300
	DF107	74.52	24	7415	1.00	43600	20	8900	0.85	41800
		67.62	26.4	6735	1.10	43600	22	8080	0.95	43800
		58.12	30	5785	1.30	43200	25	6940	1.10	43800
		50.73	34.8	5050	1.50	42800	29	6060	1.25	43600
		43.03	40.8	4285	1.80	42000	34	5140	1.50	42900
		37.61	46.8	3740	2.00	41200	39	4490	1.70	42300
		31.8	55.2	3165	2.40	40000	46	3800	2.00	41400
		33.79	51.6	3390	2.15	40400	43	4070	1.80	41800
		27.57	63.6	2740	2.85	39000	53	3290	2.40	40500
		25.14	69.6	2525	3.10	38400	58	3030	2.60	39900
	DF97	21.76	80.4	2185	3.60	37300	67	2620	3.00	38900
		38.86	45.6	3865	1.05	18500	38	4640	0.90	18100
		32.5	54	3235	1.30	18700	45	3880	1.10	18500
		27.44	63.6	2725	1.55	18700	53	3270	1.30	18800
		24.92	70.8	2475	1.70	18600	59	2970	1.45	18800
		22.1	79.2	2200	1.90	18500	66	2640	1.60	18800

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
18.5kw	DF97	20.07	87.6	1990	2.15	18300	73	2390	1.80	18700
		17.25	102	1715	2.50	18000	85	2060	2.10	18500
		15.06	116	1490	2.85	17600	97	1790	2.40	18200
		12.77	138	1265	3.35	17200	115	1520	2.80	17700
		11.16	157	1110	3.60	16800	131	1330	3.00	17400
		21.32	82.8	2115	1.35	10100	69	2540	1.15	9800
	DF87	19.31	91.2	1915	1.55	10200	76	2300	1.30	10000
		17.12	103	1700	1.70	10300	86	2040	1.45	10300
		15.48	114	1540	1.90	10400	95	1850	1.60	10400
		13.12	134	1300	2.25	10400	112	1560	1.90	10400
		11.46	154	1135	2.60	10300	128	1360	2.20	10400
		9.58	184	950	3.00	10100	153	1140	2.50	10400
		8.3	212	825	1.85	9600	177	990	1.55	10400
		7.35	239	725	2.10	9500	199	870	1.75	9700
		6.65	264	660	2.25	9300	220	790	1.90	9600
		5.63	312	560	2.60	9100	260	670	2.20	9400
		4.92	358	490	3.10	8800	298	585	2.60	9200
		4.12	427	410	3.45	8600	356	490	2.90	8900

22kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
22kw	DF157	141.8	12	16750	1.05	93400	10	20100	0.90	83900
		125.14	14.4	14750	1.20	96900	12	17700	1.00	90800
		108.49	16.8	12835	1.35	95300	14	15400	1.15	96400
		96.53	18	11415	1.55	93700	15	13700	1.30	96100
		85.8	20.4	10165	1.70	92000	17	12200	1.45	94900
		78.46	22.8	9250	1.90	90700	19	11100	1.60	93600
		68.28	25.2	8090	2.20	88400	21	9710	1.85	91500
		60.25	28.8	7140	2.50	86300	24	8570	2.10	89600
		52.24	33.6	6185	2.85	83900	28	7420	2.40	87300
		46.48	38.4	5510	3.20	81800	32	6610	2.70	85300

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
22kw	DF157	40.06	44.4	4740	3.70	79200	37	5690	3.10	82700
		32.55	54	3850	4.65	75500	45	4620	3.90	79000
	DF127	98.69	18	11665	1.00	68000	15	14000	0.85	68800
		87.08	20.4	10335	1.10	67600	17	12400	0.95	68700
		75.21	22.8	8915	1.30	66800	19	10700	1.10	68100
		69.89	25.2	8300	1.40	66000	21	9960	1.20	67800
		63.74	27.6	7565	1.55	65200	23	9080	1.30	67100
		55.16	31.2	6550	1.80	64000	26	7860	1.50	66100
		48.67	36	5785	2.00	62800	30	6940	1.70	65000
		42.04	42	4990	2.40	61200	35	5990	2.00	63500
	DF107	58.12	30	6885	1.05	40400	25	8260	0.90	40700
		50.73	34.8	6010	1.25	40400	29	7210	1.05	40800
		43.03	40.8	5100	1.50	39800	34	6120	1.25	40600
		37.61	46.8	4450	1.65	39300	39	5340	1.40	40300
		31.8	55.2	3765	2.00	38500	46	4520	1.70	39600
		33.79	51.6	4000	1.85	38800	43	4800	1.55	39900
		27.57	63.6	3265	2.40	37700	53	3920	2.00	39000
		25.14	69.6	2975	2.60	37200	58	3570	2.20	38500
		21.76	80.4	2575	3.00	36300	67	3090	2.50	37600
		19.2	91.2	2275	3.35	35400	76	2730	2.80	36900
	DF97	27.44	63.6	3250	1.30	17000	53	3900	1.10	16800
		24.92	70.8	2950	1.40	17000	59	3540	1.20	17000
		22.11	79.2	2615	1.60	17100	66	3140	1.35	17200
		20.07	87.6	2375	1.80	17000	73	2850	1.50	17300
		17.25	102	2040	2.10	16900	85	2450	1.75	17200
		15.06	116	1785	2.40	16700	97	2140	2.00	17100
		12.77	138	1510	2.75	16400	115	1810	2.30	16800
		11.16	157	1315	3.10	16000	131	1580	2.60	16600
	DF87	21.32	82.8	2525	1.20	8600	69	3030	1.00	8100
		19.31	91.2	2285	1.30	8900	76	2740	1.10	8500
		17.12	103	2025	1.40	9200	86	2430	1.20	8900
		15.48	114	1835	1.60	9300	95	2200	1.35	9100
		13.12	134	1550	1.90	9400	112	1860	1.60	9400
		11.46	154	1350	2.20	9500	128	1620	1.85	9500

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
22kw	DF87	9.58	184	1135	2.50	9400	153	1360	2.10	9500
		8.3	212	975	1.55	9000	177	1170	1.30	9100
		7.35	239	865	1.70	8900	199	1040	1.45	9100
		6.65	264	785	1.90	8800	220	940	1.60	9000
		5.63	312	665	2.25	8600	260	800	1.90	8900
		4.92	358	580	2.60	8500	298	695	2.20	8800
		4.12	427	490	3.00	8200	356	585	2.50	8600

30kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
30kw	DF157	108.49	16.8	17500	1.00	86900	14	21000	0.85	81100
		96.53	18	15500	1.10	86300	15	18600	0.95	87200
		85.8	20.4	13835	1.30	85400	17	16600	1.10	86800
		78.46	22.8	12585	1.40	84600	19	15100	1.20	86200
		68.28	26.4	11000	1.60	83100	22	13200	1.35	85100
		60.25	28.8	9665	1.85	81700	24	11600	1.55	83900
		52.24	33.6	8415	2.10	79900	28	10100	1.75	82300
		46.48	38.4	7490	2.40	78200	32	8990	2.00	80800
		40.06	44.4	6460	2.75	76100	37	7750	2.30	78800
	DF127	75.21	22.8	12085	0.95	60400	19	14500	0.80	58100
		69.89	25.2	11250	1.05	60400	21	13500	0.90	59100
		63.74	27.6	10250	1.10	60000	23	12300	0.95	60100
		55.16	32.4	8915	1.30	59600	27	10700	1.10	60000
		48.67	36	7865	1.50	58800	30	9440	1.25	59700
		42.04	42	6790	1.70	57600	35	8150	1.45	59000
		37.18	46.8	6010	1.95	56800	39	7210	1.65	58100
		31.25	56.4	5050	2.30	55200	47	6060	1.95	56900
		25.24	69.6	4075	2.85	53200	58	4890	2.40	55000
		26.79	66	4335	1.90	53600	55	5200	1.60	55500
		24.5	72	3960	2.15	52800	60	4750	1.80	54700

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
30kw	DF127	21.32	82.8	3440	3.45	51600	69	4130	2.90	53400
		18.82	93.6	3040	3.60	50000	78	3650	3.00	52100
	DF107	43.03	40.8	6935	1.05	35700	34	8320	0.90	35300
		37.61	46.8	6065	1.25	35700	39	7280	1.05	35600
		31.8	55.2	5125	1.50	35500	46	6150	1.25	35700
		27.57	63.6	4440	1.70	35100	53	5330	1.45	35600
		25.14	69.6	4050	1.90	34800	58	4860	1.60	35400
		21.76	81.6	3510	2.20	34200	68	4210	1.85	34900
		19.2	92.4	3090	2.50	33600	77	3710	2.10	34500
		16.58	107	2665	2.85	32800	89	3200	2.40	33800
		14.67	120	2360	3.20	32200	100	2830	2.70	33200
		12.33	143	1985	3.45	31100	119	2380	2.90	32300
		9.96	178	1600	3.95	29800	148	1920	3.30	31000
	DF97	22.11	79.2	3590	1.20	14300	66	4310	1.00	13600
		20.07	87.6	3260	1.30	14500	73	3910	1.10	14000
		17.25	102	2800	1.55	14700	85	3360	1.30	14400
		15.06	118	2440	1.70	14800	98	2930	1.45	14700
		12.77	138	2075	2.10	14800	115	2490	1.75	14800
		11.16	158	1815	2.35	14600	132	2180	1.96	14800
		9.06	194	1475	1.60	13700	162	1770	1.35	13900
		8.22	215	1335	1.70	13600	179	1600	1.45	13800
		7.07	250	1150	2.00	13300	208	1380	1.70	13600
		6.17	286	1000	2.20	13100	238	1200	1.85	13400
		5.23	337	850	2.50	12700	281	1020	2.10	13100
		4.57	385	740	2.75	12400	321	890	2.30	12900

37kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
37kw	DF157	85.8	20.4	17000	1.00	79600	17	20400	0.85	79700
		78.46	22.8	15585	1.10	79300	19	18700	0.95	79800
		68.28	26.4	13500	1.30	78500	22	16200	1.10	79600

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
37kw	DF157	60.25	28.8	11915	1.50	77600	24	14300	1.25	79000
		52.24	33.6	10335	1.70	76300	28	12400	1.45	78100
		46.48	38.4	9165	1.90	75100	32	11000	1.60	77100
		40.06	44.4	7960	2.20	73400	37	9550	1.85	75600
		32.5	54	6460	2.75	70800	45	7750	2.30	73300
		27.6	63.6	5485	3.20	69000	53	6580	2.70	71200
	DF127	55.16	32.4	10915	1.05	54800	27	13100	0.90	53300
		48.67	36	9665	1.20	54800	30	11600	1.00	54700
		42.04	42	8335	1.40	54000	35	10000	1.20	55000
		37.18	46.8	7400	1.60	53600	39	8880	1.35	54600
		31.25	56.4	6215	1.90	52800	47	7460	1.60	53900
		25.24	69.6	5025	2.30	51200	58	6030	1.95	52600
		26.79	66	5335	1.55	51600	55	6400	1.30	53000
		24.5	72	4875	1.70	50800	60	5850	1.45	52400
		21.32	82.8	4240	2.75	49600	69	5090	2.30	51300
		18.82	93.6	3740	2.85	48400	78	4490	2.40	50300
		16.31	108	3240	3.35	47200	90	3890	2.80	49100
		14.51	121	2885	3.70	46000	101	3460	3.10	48000
		12.51	140	2490	3.95	44800	117	2990	3.30	46600
		10.16	173	2015	4.65	42800	144	2420	3.90	44600
		8.62	199	1760	3.95	41200	166	2110	3.30	42900
		7.88	223	1560	3.80	39900	186	1870	3.20	41800
	DF107	27.57	63.6	5525	1.40	32500	53	6630	1.20	32600
		25.14	69.6	5035	1.55	32400	58	6040	1.30	32600
		21.76	81.6	4360	1.80	32100	68	5230	1.50	32600
		19.2	92.4	3840	2.00	31800	77	4610	1.70	32400
		16.58	107	3325	2.30	31200	89	3990	1.95	32000
		14.67	120	2940	2.60	30800	100	3530	2.20	31600
		12.33	143	2465	2.85	30000	119	2960	2.40	31000
		9.96	178	1990	3.20	28800	148	2390	2.70	30000
		9.69	182	1940	2.50	28200	152	2330	2.10	29200
		8.37	211	1675	2.85	27500	176	2010	2.40	28500
	DF107	7.4	239	1485	3.10	26800	199	1780	2.60	27900
		6.22	283	1250	3.70	25900	236	1500	3.10	27000

45kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
45kw	DF157	68.28	26.4	16415	1.05	73300	22	19700	0.90	73300
		60.25	28.8	14500	1.20	73000	24	17400	1.00	73400
		52.24	33.6	12585	1.40	72300	28	15100	1.20	73200
		46.48	38.4	11165	1.55	71500	32	13400	1.30	72800
		40.06	44.4	9665	1.85	70300	37	11600	1.55	71900
		32.55	54	7860	2.25	68300	45	9430	1.90	70200
		27.6	63.6	6665	2.60	66400	53	8000	2.20	68600
	DF127	48.67	36	11750	1.00	49600	30	14100	0.85	46400
		42.04	42	10165	1.10	50800	35	12200	0.95	48900
		37.18	46.8	9000	1.30	50400	39	10800	1.10	50200
		31.25	56.4	7565	1.55	50000	47	9080	1.30	50500
		25.24	69.6	6110	1.90	48800	58	7330	1.60	49900
		26.79	66	6485	1.30	49200	55	7780	1.10	50000
		24.5	72	5935	1.40	48800	60	7120	1.20	49700
		21.32	82.8	5160	2.25	48000	69	6190	1.90	49100
		18.82	93.6	4560	2.40	46800	78	5470	2.00	48200
		16.31	108	3950	2.75	46000	90	4740	2.30	47300
		14.51	121	3510	3.10	44800	101	4210	2.60	46400
		12.51	140	3025	3.20	43600	117	3630	2.70	45300
		10.16	173	2460	3.80	42000	144	2950	3.20	43500
		8.62	199	2135	3.20	40400	166	2560	2.70	41900
		7.88	223	1900	3.10	39200	186	2280	2.60	40900
		6.8	259	1640	4.20	37900	216	1970	3.50	39600
		5.52	319	1335	4.40	36100	266	1600	3.70	37700
	DF107	27.57	63.6	6660	1.10	29800	53	7990	0.95	28700
		25.14	69.6	6075	1.25	30000	58	7290	1.05	29300
		21.76	81.6	5250	1.50	30000	68	6300	1.25	29900
		19.2	92.4	4635	1.65	29900	77	5560	1.40	30000
		16.58	107	4000	1.90	29700	89	4800	1.60	30000
		14.67	120	3540	2.15	29400	100	4250	1.80	29800
		12.33	143	2975	2.30	28800	119	3570	1.95	29300
		9.96	178	2400	2.60	27900	148	2880	2.20	28700

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
45kw	DF107	9.69	182	2340	2.10	27200	152	2810	1.75	27800
		8.37	211	2015	2.30	26600	176	2420	1.95	27400
		7.4	239	1785	2.50	26000	199	2140	2.10	26800
		6.22	283	1500	3.00	25200	236	1800	2.50	26100

55kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
55kw	DF157 DF127	60.25	28.8	17915	1.00	67200	24	21500	0.85	66400
		52.24	33.6	15500	1.10	67300	28	18600	0.95	67100
		46.48	38.4	13750	1.30	67100	32	16500	1.10	67300
		40.06	44.4	11915	1.50	66500	37	14300	1.25	67200
		32.55	54	9665	1.85	65100	45	11600	1.55	66400
		28.6	62.4	8500	1.95	64100	52	10200	1.65	65600
		27.6	63.6	8190	2.20	63800	53	9830	1.85	65300
		25.43	69.6	7550	1.95	63000	58	9060	1.65	64700
		22.16	80.4	6575	2.75	61700	67	7890	2.30	63500
		19.77	90	5865	2.85	60500	75	7040	2.40	62500
		16.85	106	5000	3.60	58600	88	6000	3.00	60800
		37.18	48	11085	1.05	44400	40	13300	0.90	42300
		31.25	56.4	9335	1.30	46000	47	11200	1.10	45000
		25.24	69.6	7510	1.60	45600	58	9010	1.35	46400
		21.32	82.8	6340	1.90	45200	69	7610	1.60	46200
		18.82	93.6	5600	1.95	44800	78	6720	1.65	45700
		16.31	108	4850	2.25	44000	90	5820	1.90	45100
		14.51	121	4315	2.50	43200	101	5180	2.10	44500
		12.51	142	3725	2.60	42000	118	4470	2.20	43600
		10.16	174	3025	3.10	40400	145	3630	2.60	42100
		8.62	199	2635	2.60	39000	166	3160	2.20	40600
		7.88	224	2340	2.50	26200	187	2810	2.10	39700
		6.8	260	2015	3.45	25000	217	2420	2.90	38600
		5.52	320	1640	3.60	35300	267	1970	3.00	37000
		4.68	378	1390	4.30	34000	315	1670	3.60	35600

75kw

Type	i	60Hz				50Hz			
		n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
DF157	46.48	38.4	18665	0.95	58100	32	22400	0.80	56600
	40.06	44.4	16165	1.10	58800	37	19400	0.95	58000
	32.55	54	13165	1.35	58900	45	15800	1.15	58900
	27.6	64.8	11085	1.60	58500	54	13300	1.35	59000
	28.6	62.4	11500	1.50	65800	52	13800	1.25	59000
	25.43	69.6	10250	1.40	58100	58	12300	1.20	58900
	22.16	80.4	8915	2.00	57400	67	10700	1.70	58400
	19.77	90	7960	2.15	56600	75	9550	1.80	57900
	16.85	106	6785	2.60	55400	88	8140	2.20	56900
	13.96	127	5615	3.00	53800	106	6740	2.50	55400
	11.92	149	4790	3.35	52300	124	5750	2.80	54100
DF127	25.24	69.6	10165	1.20	39100	58	12200	1.00	36000
	21.32	82.8	8585	1.35	40400	69	10300	1.15	38700
	18.82	93.6	7610	1.40	40800	78	9130	1.20	40000
	16.31	108	6600	1.65	40400	90	7920	1.40	40700
	14.51	122	5865	1.85	40000	102	7040	1.55	40500
	12.51	142	5060	1.95	39400	118	6070	1.65	40100
	10.16	174	4110	2.30	38400	145	4930	1.95	39300
	8.62	200	3575	1.95	37000	167	4290	1.65	38000
	7.88	226	3175	1.85	36400	188	3810	1.55	37400
	6.8	262	2740	2.50	35500	218	3290	2.10	36600

90kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
90kw	DF157	32.55	54	15750	1.10	53200	45	18900	0.95	50200
		27.6	64.8	13335	1.30	53600	54	16000	1.10	51200
		22.16	80.4	10665	1.65	53600	67	12800	1.40	51500
		19.77	90	9500	1.80	53200	75	11400	1.50	51400
		16.85	106	8140	2.20	52400	88	9770	1.85	50900

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
90kw	DF157	13.96	127	6750	2.50	51200	106	8100	2.10	50100
		11.92	149	5760	2.75	50400	124	6910	2.30	49100
	DF127	25.24	69.6	12250	0.95	0	58	14700	0.80	25200
		16.31	108	7910	1.35	36500	90	9490	1.15	33900
		14.51	122	7040	1.55	37000	102	8450	1.30	34900
		12.51	142	6065	1.60	36800	118	7280	1.35	35500
		10.16	174	4935	1.90	36300	145	5920	1.60	35200
		8.62	200	4290	1.60	35100	167	5150	1.35	34100
		7.88	226	3815	1.55	34600	188	4580	1.30	33700
		6.8	262	3290	2.10	34000	218	3950	1.75	33200
		5.52	322	2675	2.20	32900	268	3210	1.85	32200
		4.68	379	2265	2.60	31900	316	2720	2.20	31400

110kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
110kw	DF157	27.6	64.8	16165	1.05	48800	54	19400	0.90	47800
		22.16	80.4	13000	1.35	49600	67	15600	1.15	49400
		19.77	90	11585	1.40	49600	75	13900	1.20	49900
		16.85	106	9835	1.80	49600	88	11800	1.50	50000
		13.96	127	8210	2.00	48800	106	9850	1.70	49800
		11.92	150	7010	2.25	48000	125	8410	1.90	49200

132kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
132kw	DF157	22.16	80.4	15665	1.10	45600	67	18800	0.95	43800
		19.77	90	14000	1.20	46000	75	16800	1.00	44800
		16.85	104	11915	1.50	46400	88	14300	1.25	45800
		13.96	127	9915	1.70	46400	106	11900	1.45	46300
		11.92	150	8415	1.90	46000	125	10100	1.60	46300

160kw

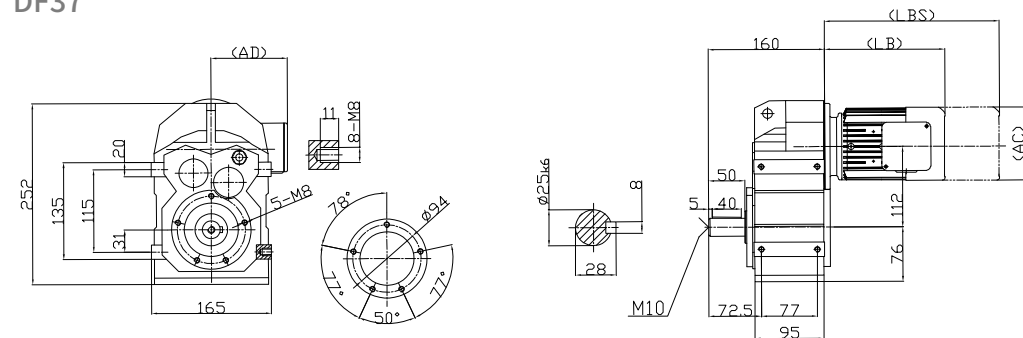
Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
160kw	DF157	16.85	106	14415	1.25	43600	88	17300	1.05	40300
		13.96	127	12000	1.40	44000	106	14400	1.20	41800
		11.92	150	10250	1.55	44000	125	12300	1.30	42400

200kw

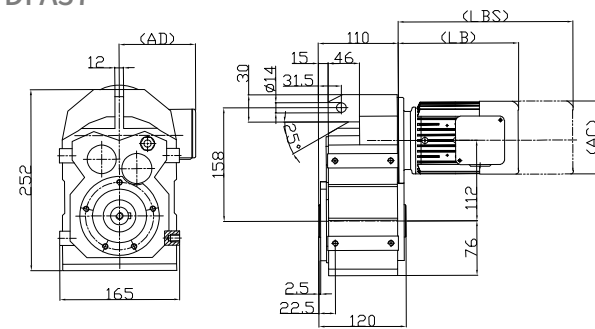
Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
200kw	DF157	16.85	106	18085	1.00	34400	88	21700	0.85	32500
		13.96	127	15000	1.10	36400	106	18000	0.95	35300
		11.92	150	12750	1.25	37400	125	15300	1.05	36900

DF-Series 도면

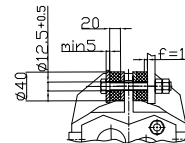
DF37



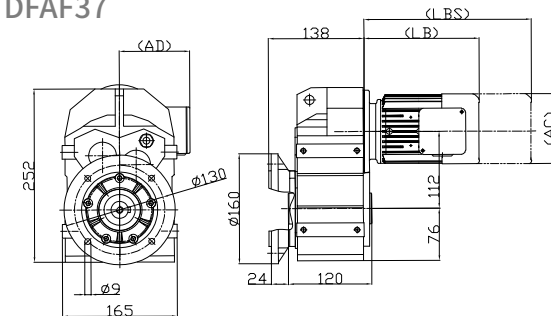
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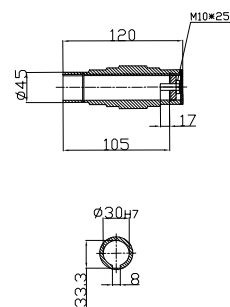
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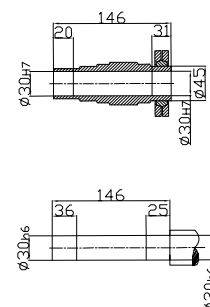
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Hollow shaft



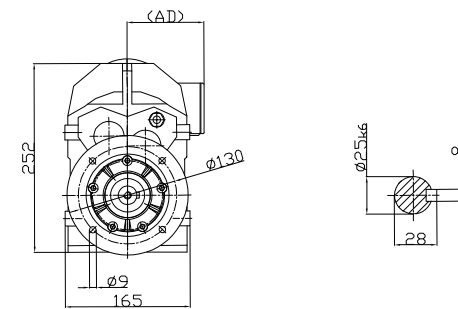
Shrink disk



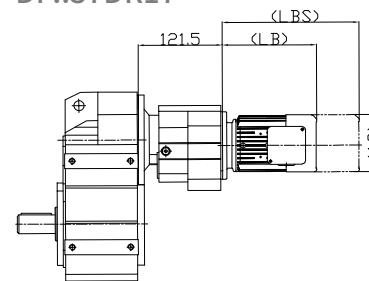
DF37

	0.4kW	0.75kW	1.5kW	2.2kW
LB	240	254	328	377
LBS	330	344	428	477
AC	145	175	193	236
AD	126	135	147	202

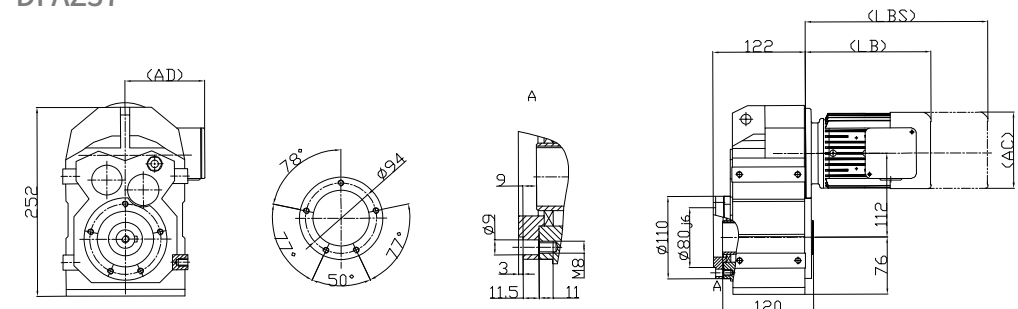
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DF..37DR17



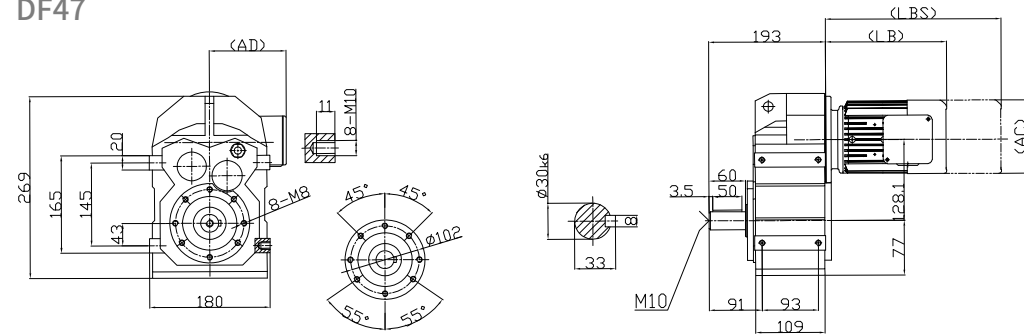
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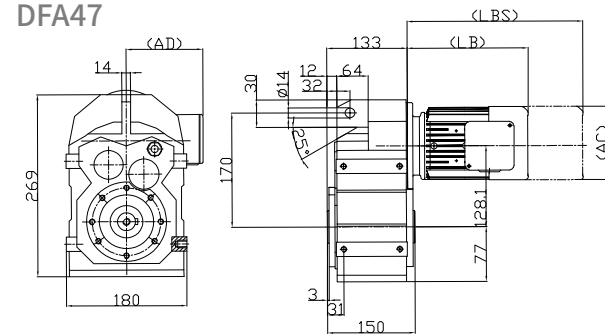
DF37

	0.4kW	0.75kW	1.5kW	2.2kW
LB	240	254	328	377
LBS	330	344	428	477
AC	145	175	193	236
AD	126	135	147	202

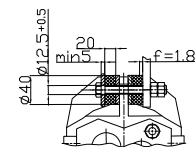
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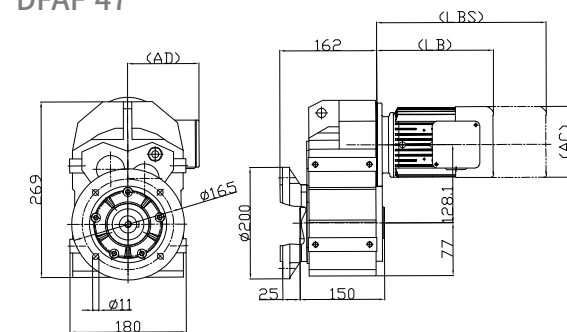
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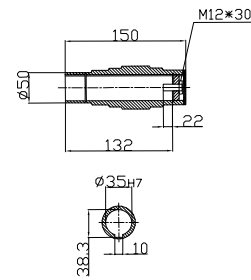
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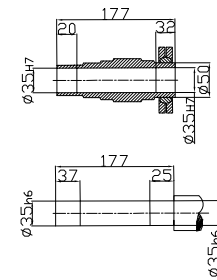
DFAF 47



Hollow shaft



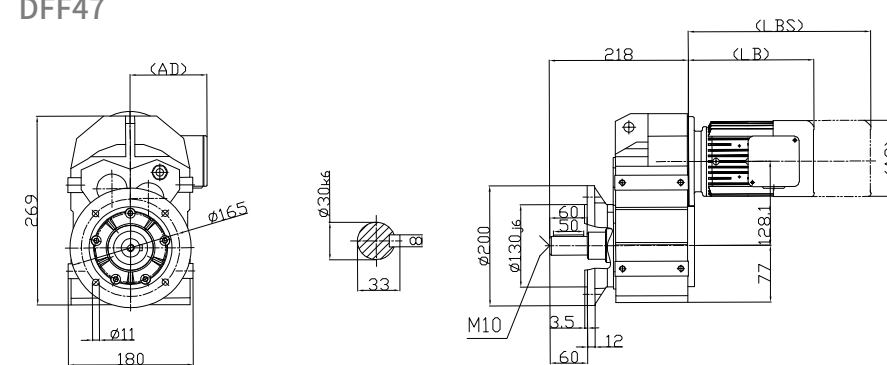
Shrink disk



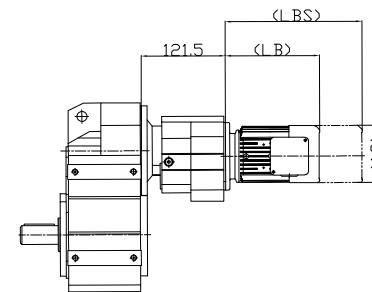
DF47

	0.4kW	0.75kW	1.5kW	2.2kW
LB	229	248	321	368
LBS	319	338	421	468
AC	145	175	193	236
AD	126	135	147	202

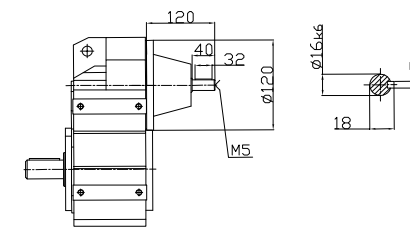
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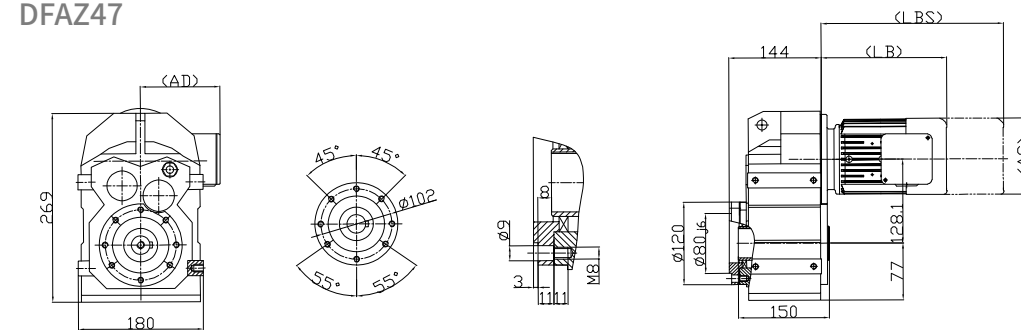
DF..47DR17



DF..S47



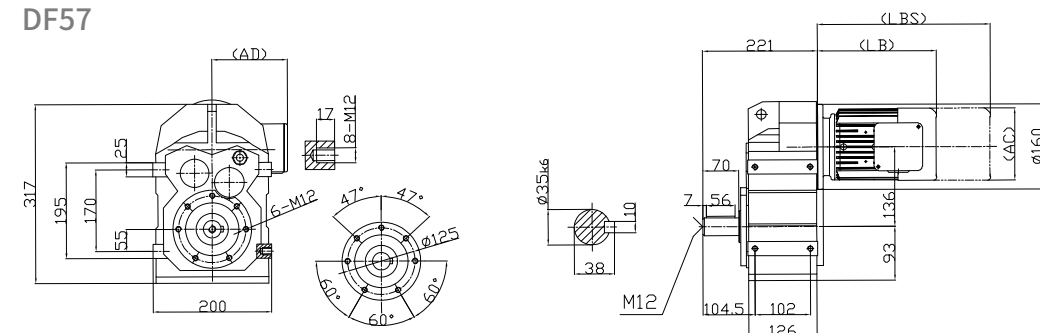
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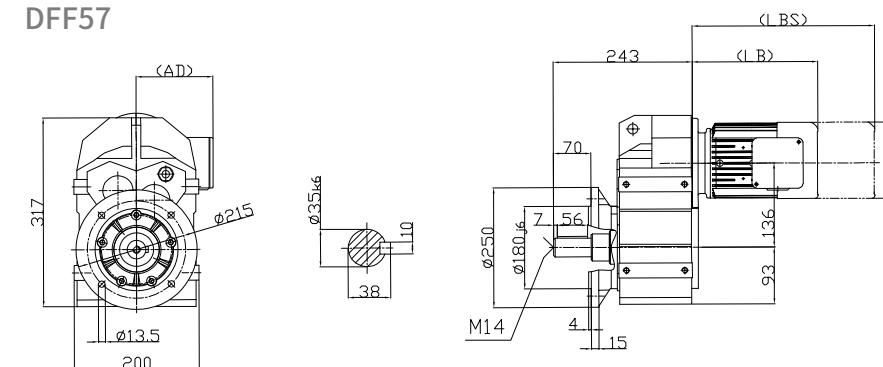
DF47

	0.4kW	0.75kW	1.5kW	2.2kW
LB	229	248	321	368
LBS	319	338	421	468
AC	145	175	193	236
AD	126	135	147	202

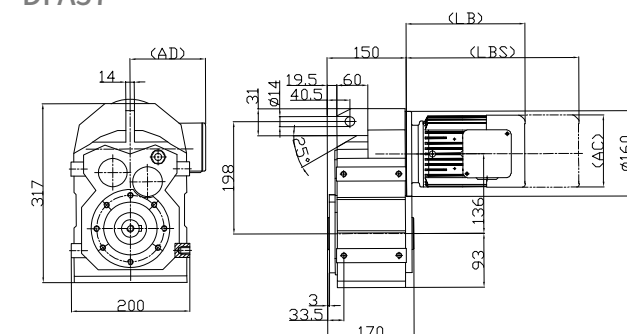
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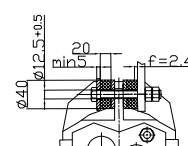
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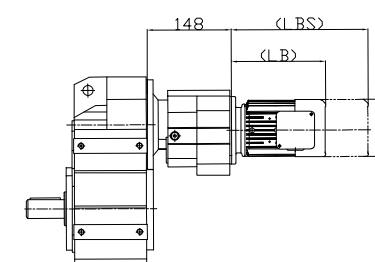
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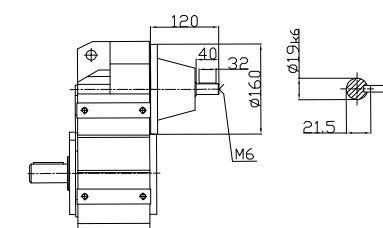
DF..T57



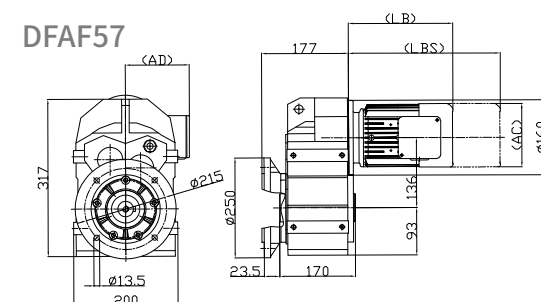
DF..57DR37



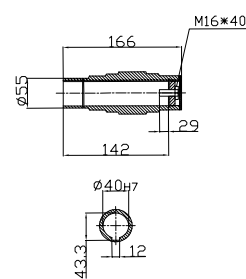
DF..S57



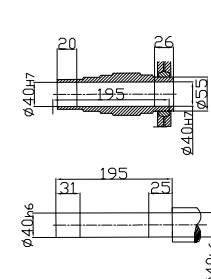
DFAF57



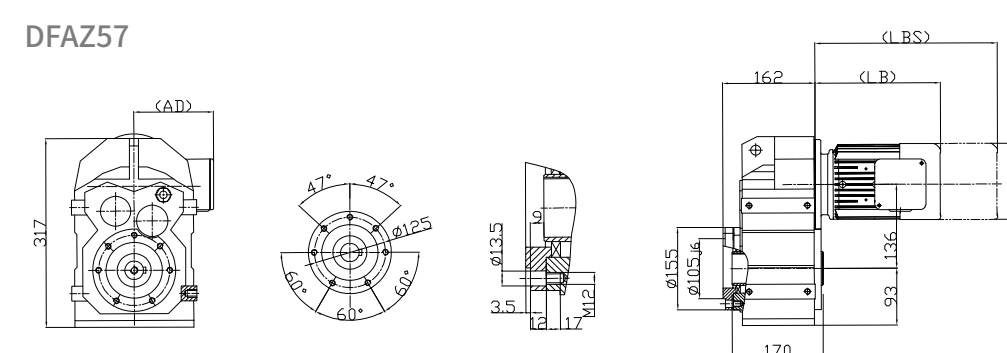
Hollow shaft



Shrink disk



DFAZ57



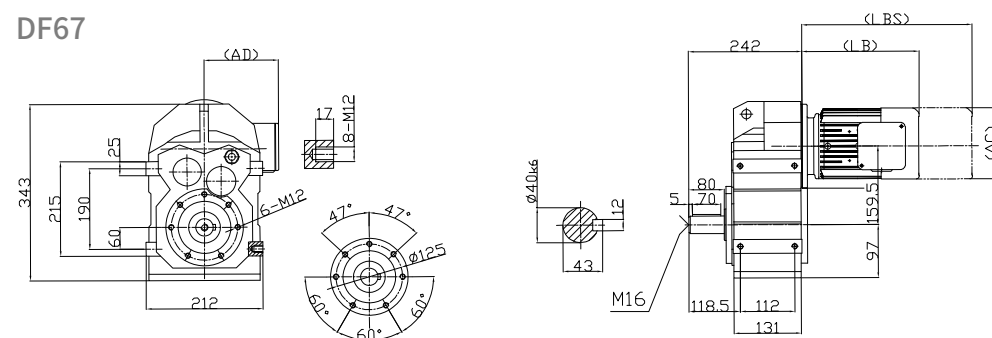
DF57

	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW
LB	229	248	321	368	372	427
LBS	319	338	421	468	497	557
AC	145	175	193	236	236	274
AD	126	135	147	202	202	222

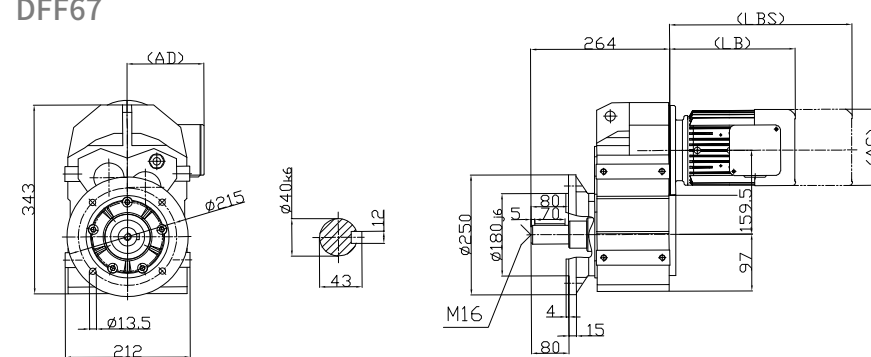
DF57

	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW
LB	229	248	321	368	372	427
LBS	319	338	421	468	497	557
AC	145	175	193	236	236	274
AD	126	135	147	202	202	222

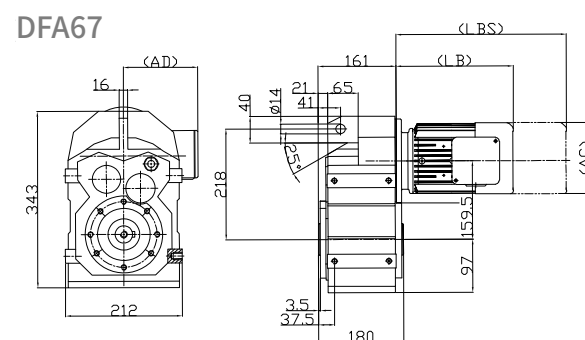
DF67



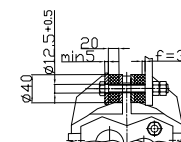
DFF67



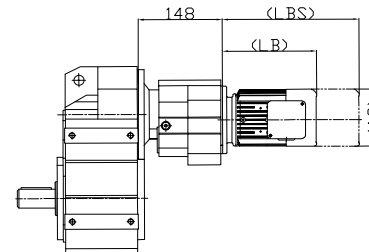
DFA67



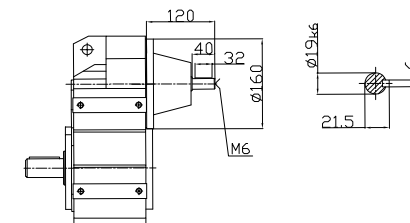
DF..T67



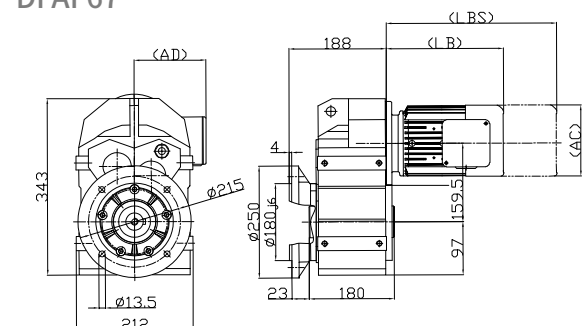
DF..67DR37



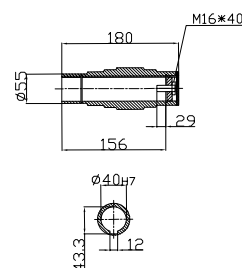
DF..S67



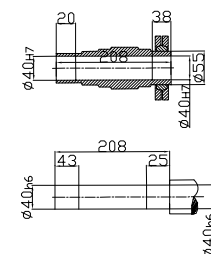
DFAF67



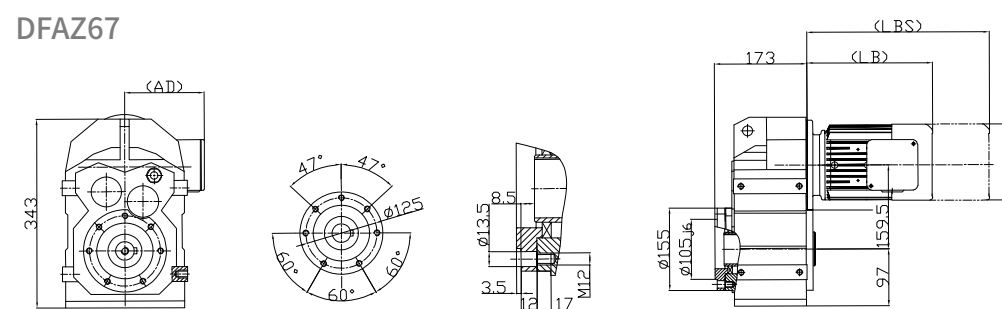
Hollow shaft



Shrink disk



DFAZ67



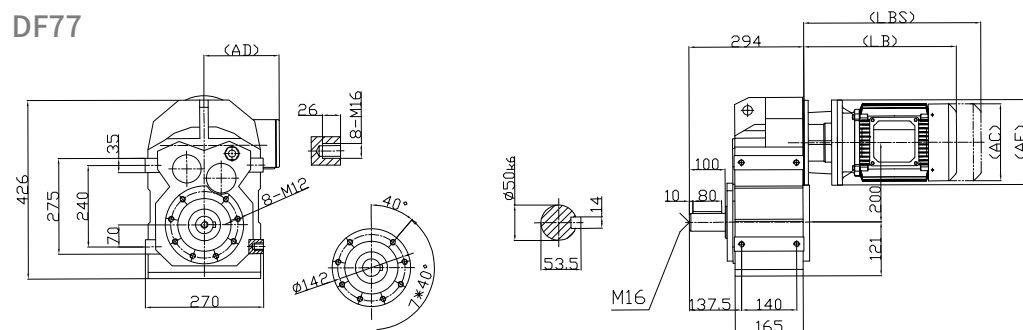
DF67

	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW
LB	229	248	321	368	372	427
LBS	319	338	421	468	497	557
AC	145	175	193	236	236	274
AD	126	135	147	202	202	222

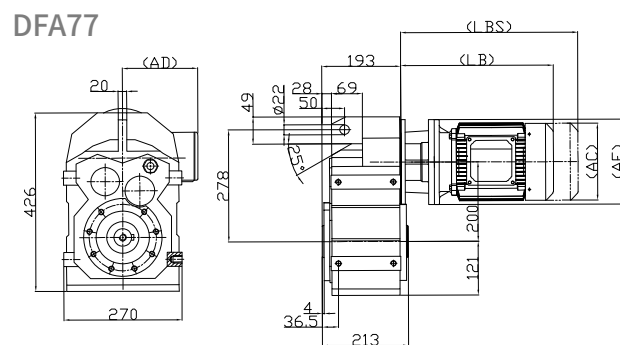
DF67

	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW
LB	229	248	321	368	372	427
LBS	319	338	421	468	497	557
AC	145	175	193	236	236	274
AD	126	135	147	202	202	222

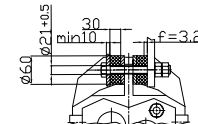
DF77



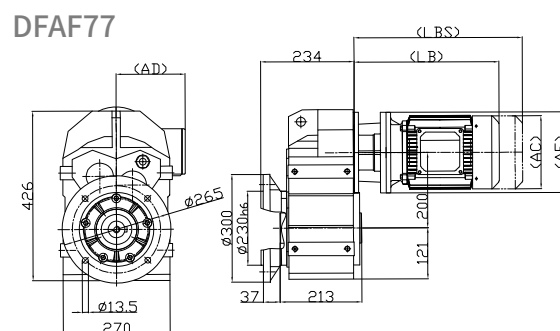
DFA77



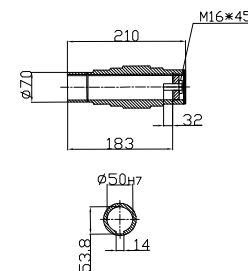
DF..T77



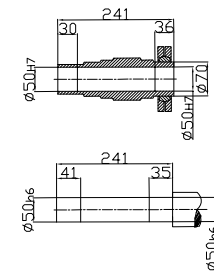
DFAF77



Hollow shaft



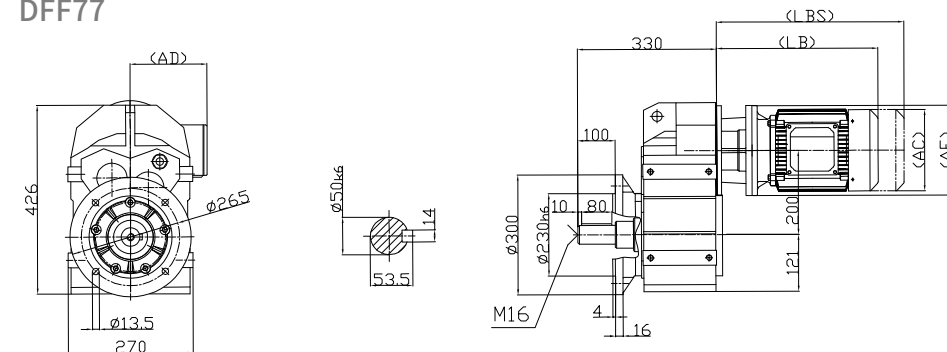
Shrink disk



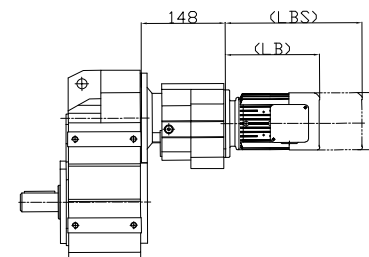
DF77

	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW	11kW
LB	277	322	380	437	462	529	529	638
LBS	367	412	480	537	587	659	659	793
AC	158	175	193	236	236	274	274	317
AD	130	148	158	180	180	220	220	265
AE	160	200	200	250	250	300	300	350

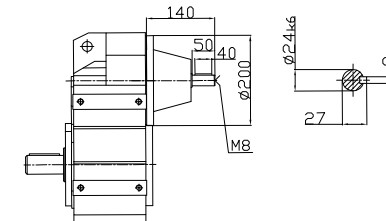
DFF77



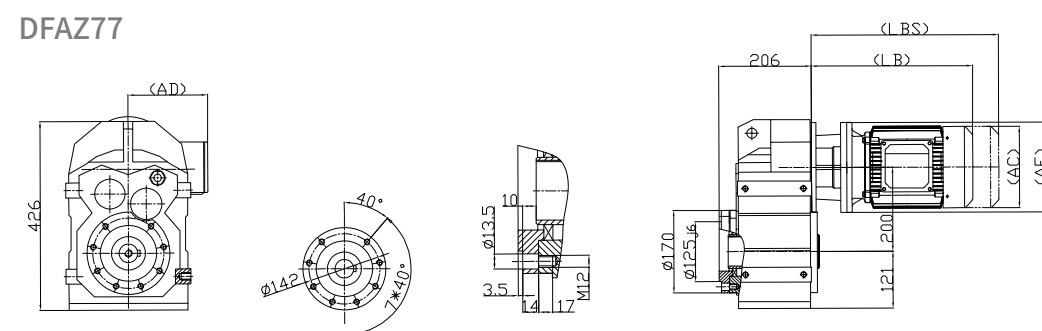
DF..77DR37



DF..S77



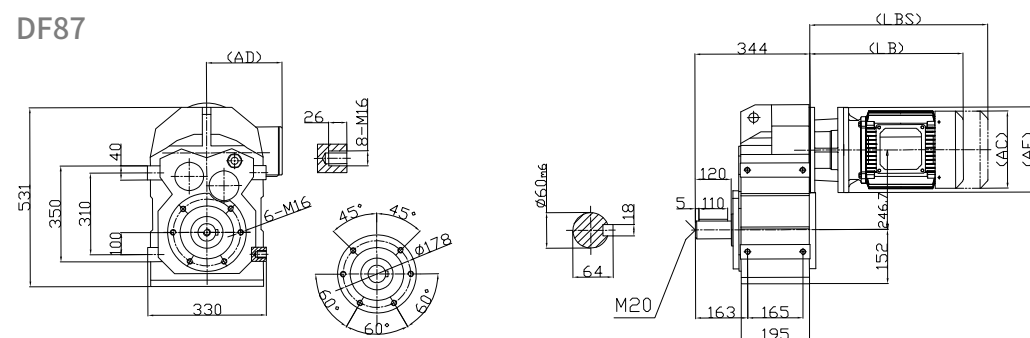
DFAZ77



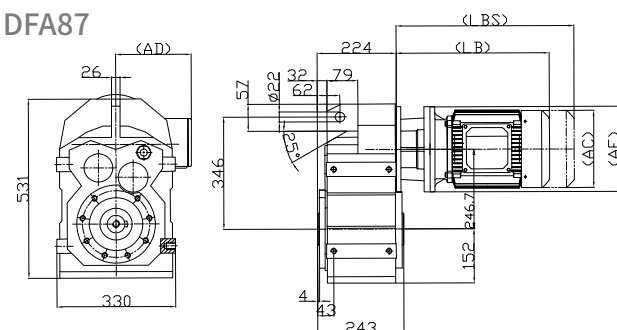
DF77

	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW	11kW
LB	277	322	380	437	462	529	529	638
LBS	367	412	480	537	587	659	659	793
AC	158	175	193	236	236	274	274	317
AD	130	148	158	180	180	220	220	265
AE	160	200	200	250	250	300	300	350

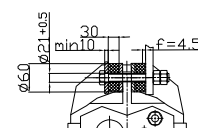
DF87



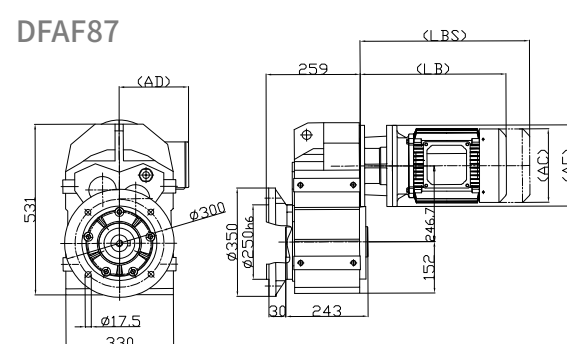
DFA87



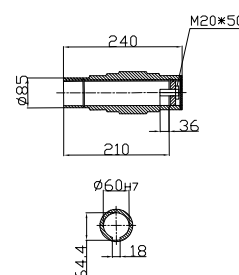
DF..T87



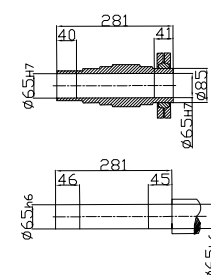
DFAF87



Hollow shaft



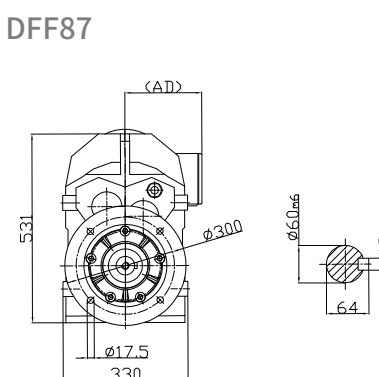
Shrink disk



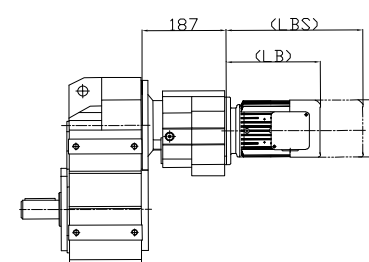
DF87

	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
LB	317	375	433	458	524	524	633	677	696	696
LBS	407	475	533	583	654	654	788	832	851	851
AC	175	193	236	236	274	274	317	317	365	365
AD	148	158	180	180	220	220	265	265	300	300
AE	200	200	250	250	300	300	350	350	350	350

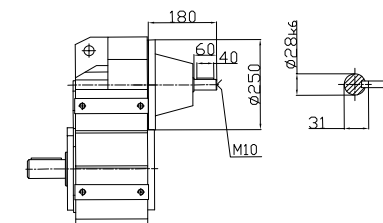
DFF87



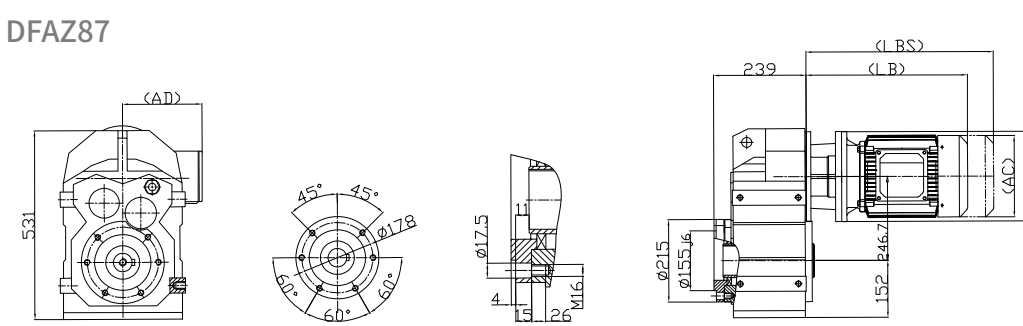
DF..87DR57



DF..S87



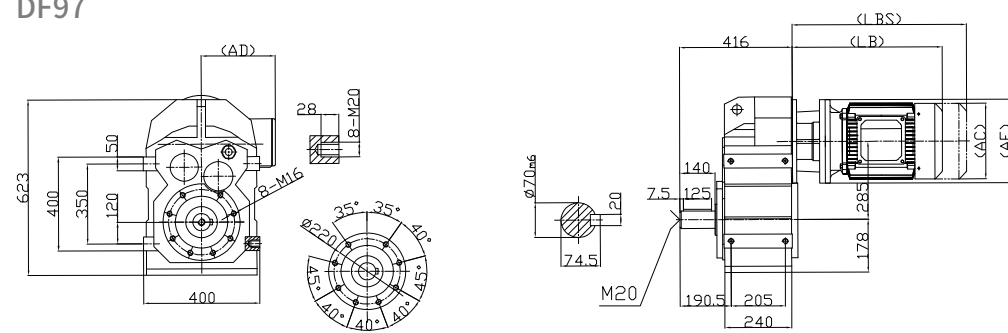
DFAZ87



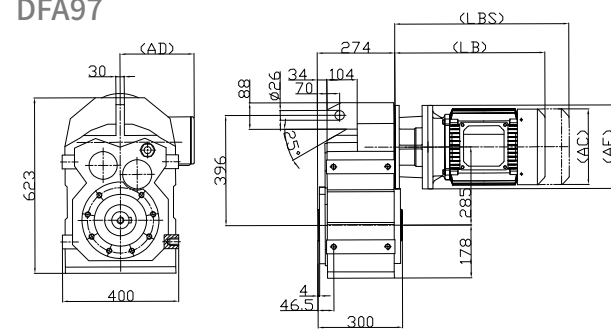
DF87

	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
LB	317	375	433	458	524	524	633	677	696	696
LBS	407	475	533	583	654	654	788	832	851	851
AC	175	193	236	236	274	274	317	317	365	365
AD	148	158	180	180	220	220	265	265	300	300
AE	200	200	250	250	300	300	350	350	350	350

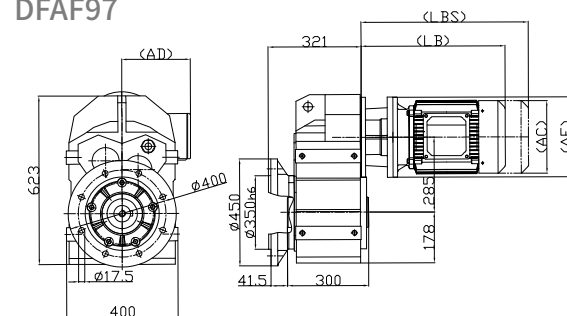
DF97



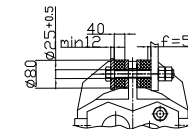
DFA97



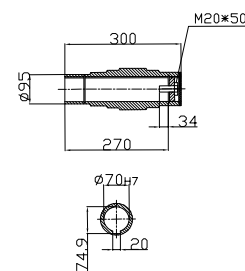
DFAF97



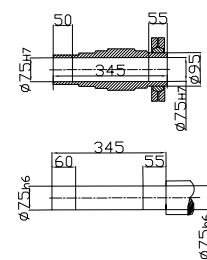
DF..T97



Hollow shaft



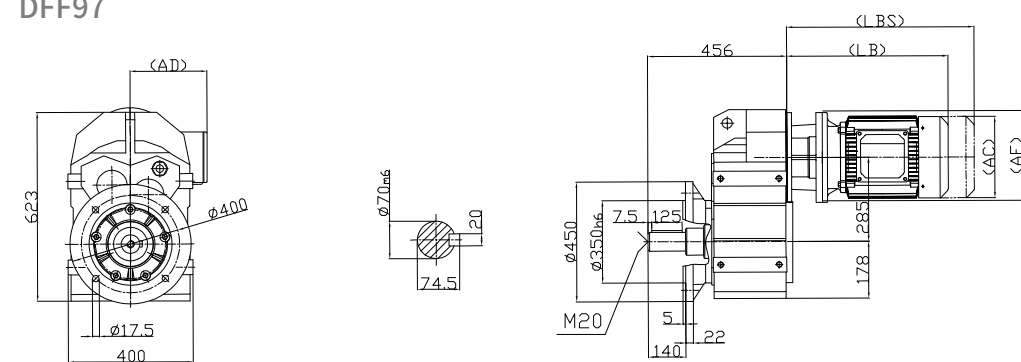
Shrink disk



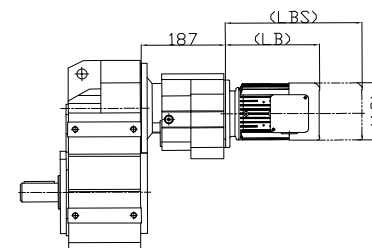
DF97

	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW
LB	369	427	452	519	519	628	672	691	691	736
LBS	469	527	577	649	649	783	827	846	846	891
AC	193	236	236	274	274	317	317	365	365	365
AD	158	180	180	220	220	265	265	300	300	300
AE	200	250	250	300	300	350	350	350	350	400

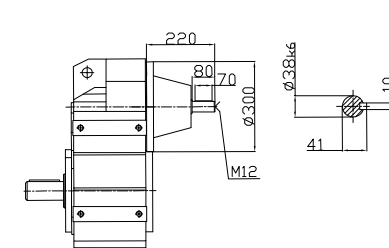
DFF97



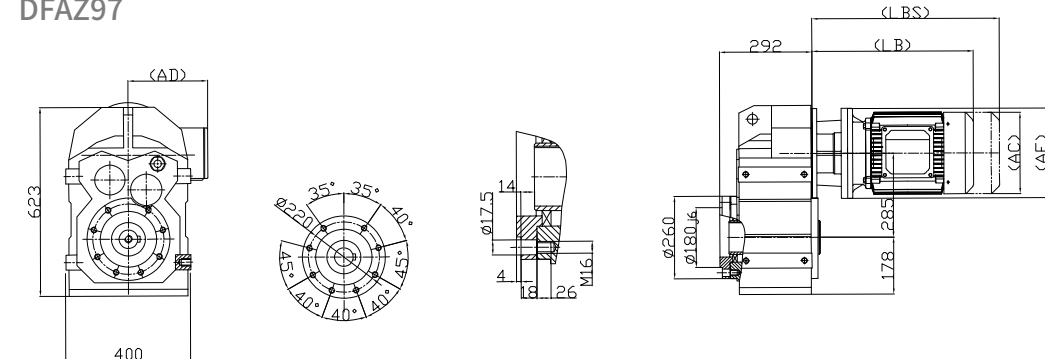
DF..97DR57



DF..S97



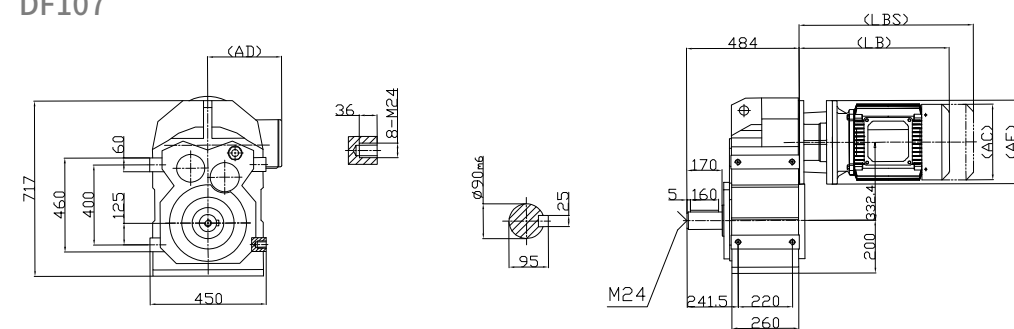
DFAZ97



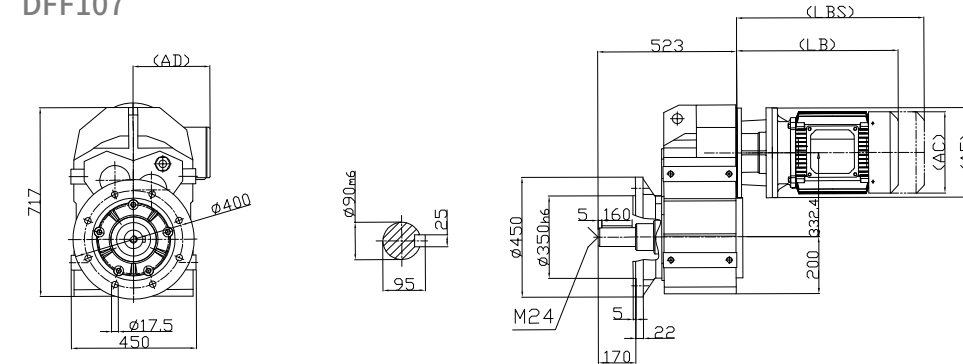
DF97

	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW
LB	369	427	452	519	519	628	672	691	691	736
LBS	469	527	577	649	649	783	827	846	846	891
AC	193	236	236	274	274	317	317	365	365	365
AD	158	180	180	220	220	265	265	300	300	300
AE	200	250	250	300	300	350	350	350	350	400

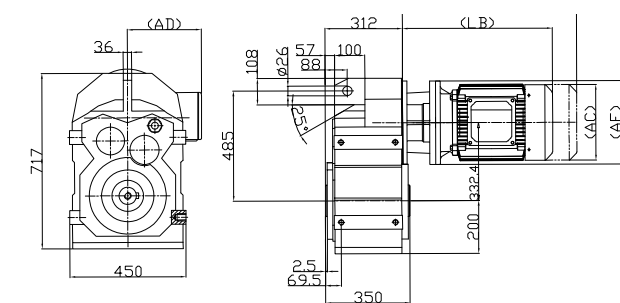
DF107



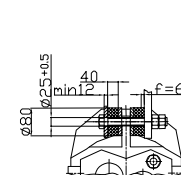
DFF107



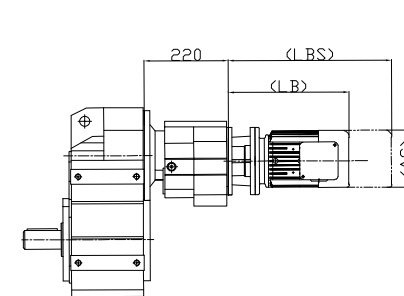
DFA107



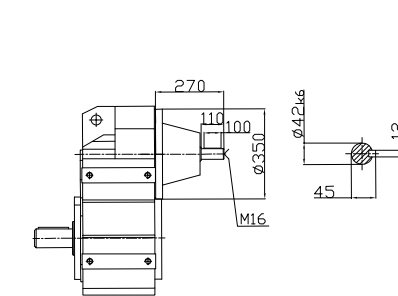
DF..T107



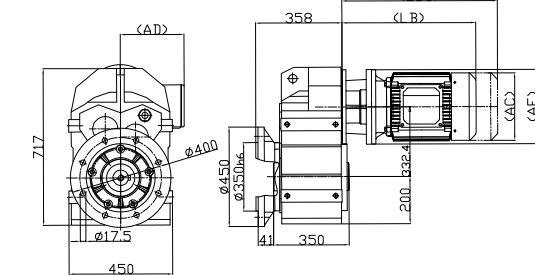
DF..107DR77



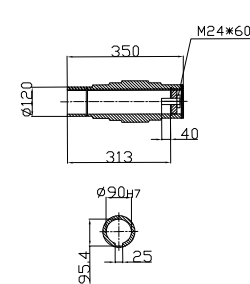
DF..S107



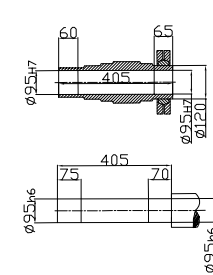
DFAF107



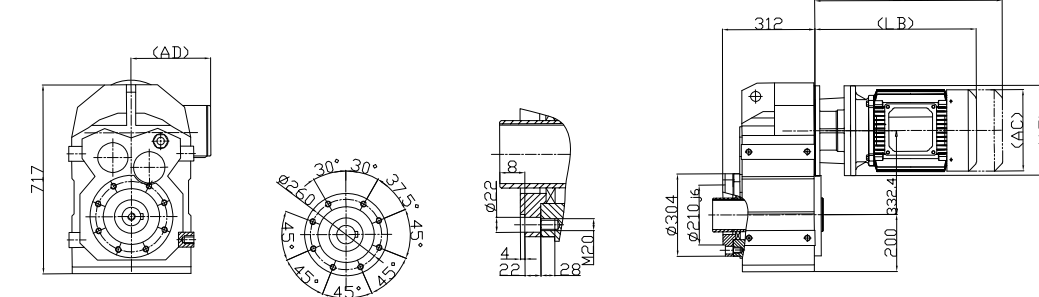
Hollow shaft



Shrink disk



DFAZ107



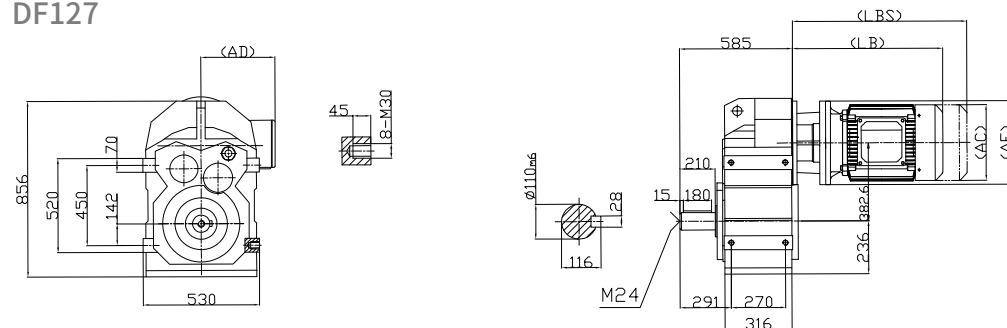
DF107

	2.2kW	3.7kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW
LB	421	446	513	513	622	666	685	685	730	849	849
LBS	521	571	643	643	777	821	840	840	885	1004	1004
AC	236	236	274	274	317	317	365	365	365	418	418
AD	180	180	220	220	265	265	300	300	300	370	370
AE	250	250	300	300	350	350	350	350	400	450	450

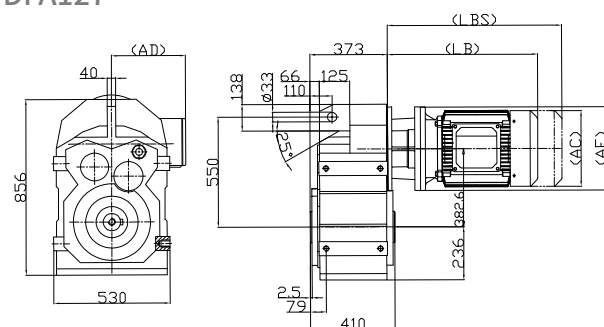
DF107

	2.2kW	3.7kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW
LB	421	446	513	513	622	666	685	685	730	849	849
LBS	521	571	643	643	777	821	840	840	885	1004	1004
AC	236	236	274	274	317	317	365	365	365	418	418
AD	180	180	220	220	265	265	300	300	300	370	370
AE	250	250	300	300	350	350	350	350	400	450	450

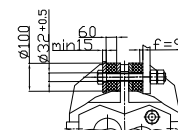
DF127



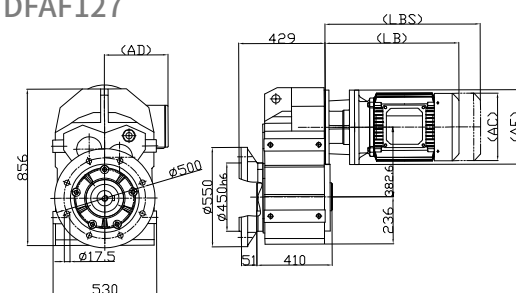
DFA127



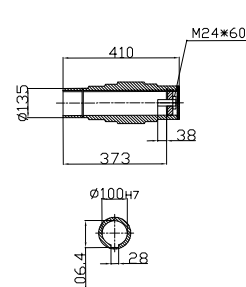
DF..T127



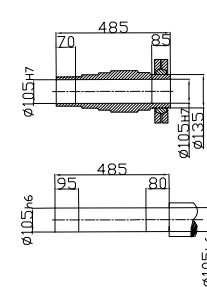
DFAF127



Hollow shaft



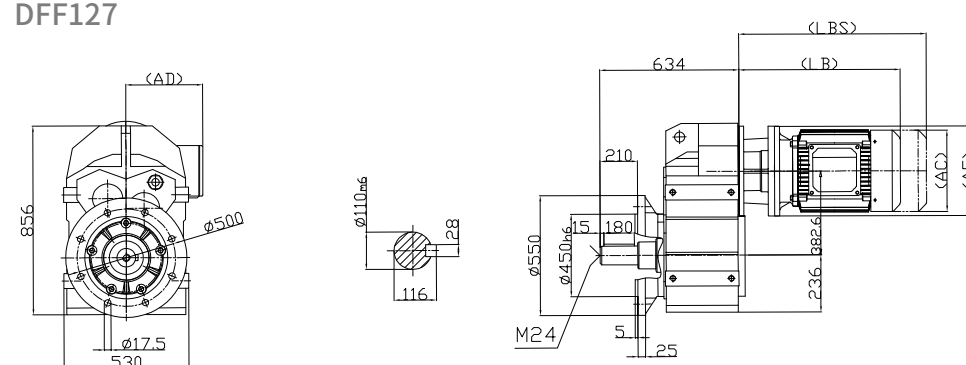
Shrink disk



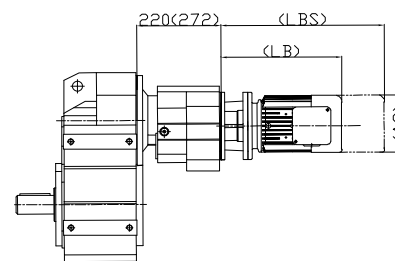
DF127

	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW
LB	498	498	607	651	670	670	715	834	834	839	924	924
LBS	628	628	762	806	825	825	870	989	989	999	1084	1084
AC	274	274	317	317	365	365	365	418	418	453	510	510
AD	220	220	265	265	300	300	300	370	370	400	435	435
AE	300	300	350	350	350	350	400	450	450	450	550	550

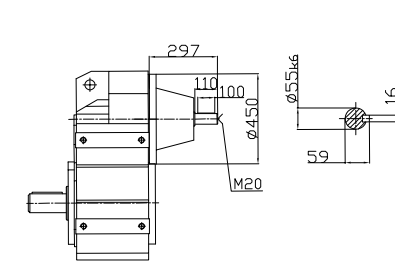
DFF127



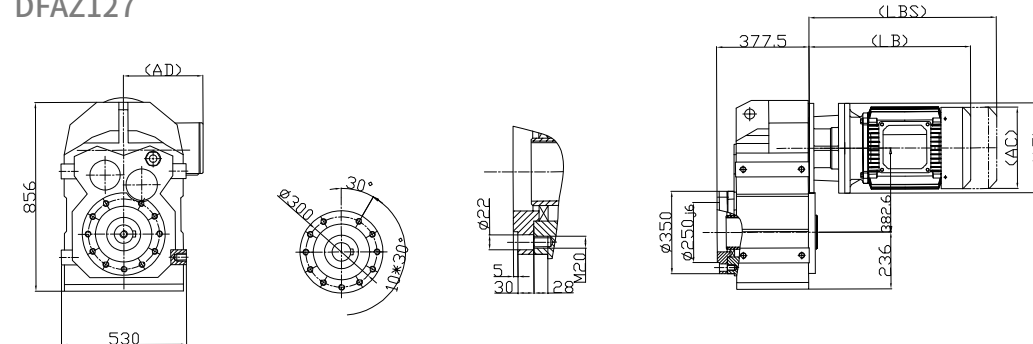
DF..127DR77(87)



DF..S127



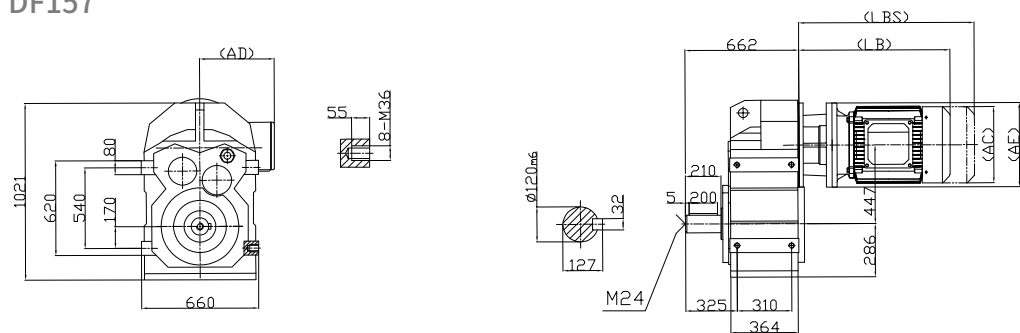
DFAZ127



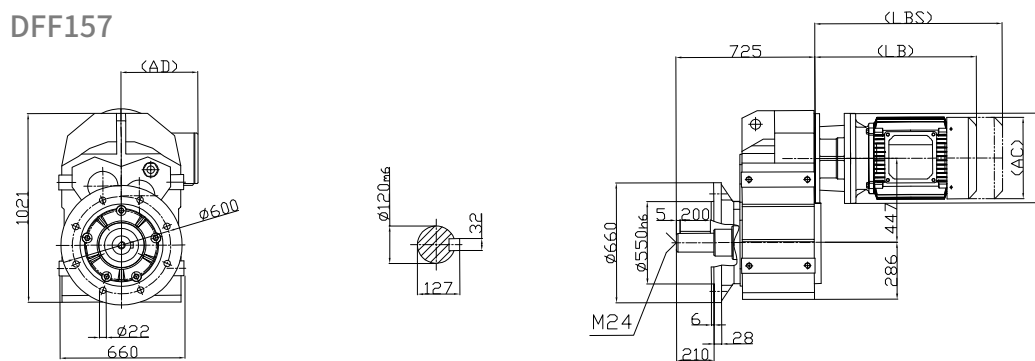
DF127

	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW
LB	498	498	607	651	670	670	715	834	834	839	924	924
LBS	628	628	762	806	825	825	870	989	989	999	1084	1084
AC	274	274	317	317	365	365	365	418	418	453	510	510
AD	220	220	265	265	300	300	300	370	370	400	435	435
AE	300	300	350	350	350	350	400	450	450	450	550	550

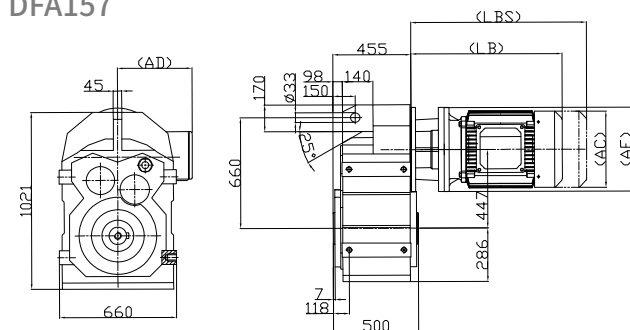
DF157



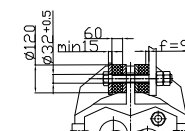
DFF157



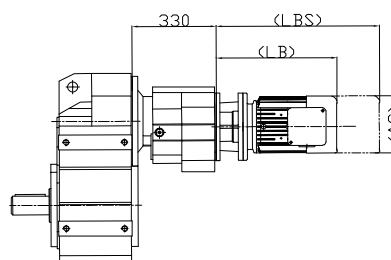
DFA157



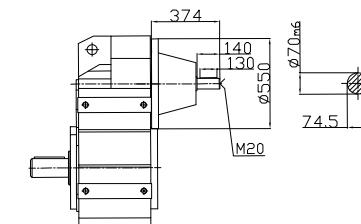
DF..T157



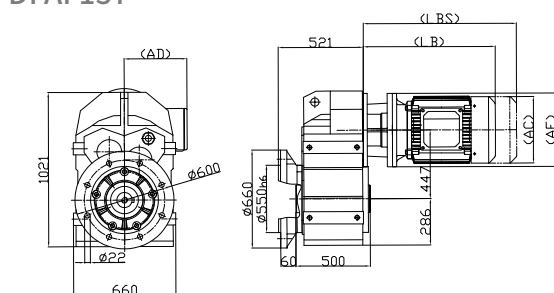
DF..157DR97



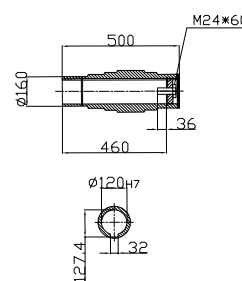
DF..S157



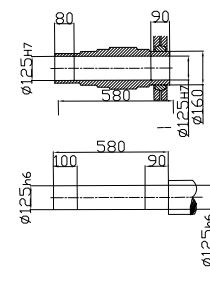
DFAF157



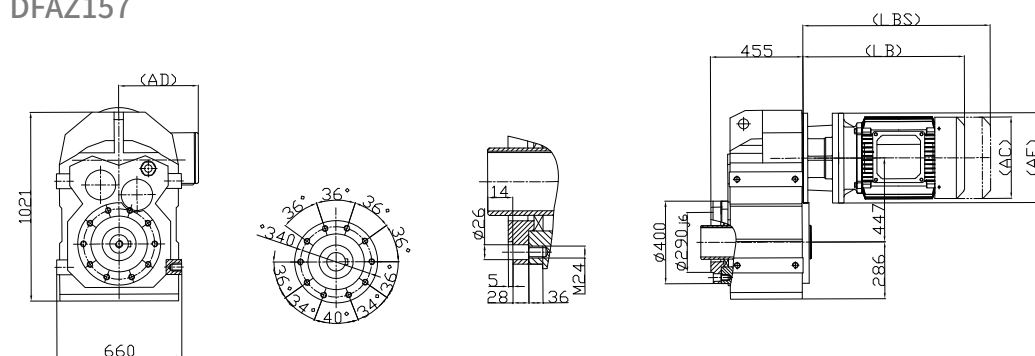
Hollow shaft



Shrink disk



DFAZ157



DF157

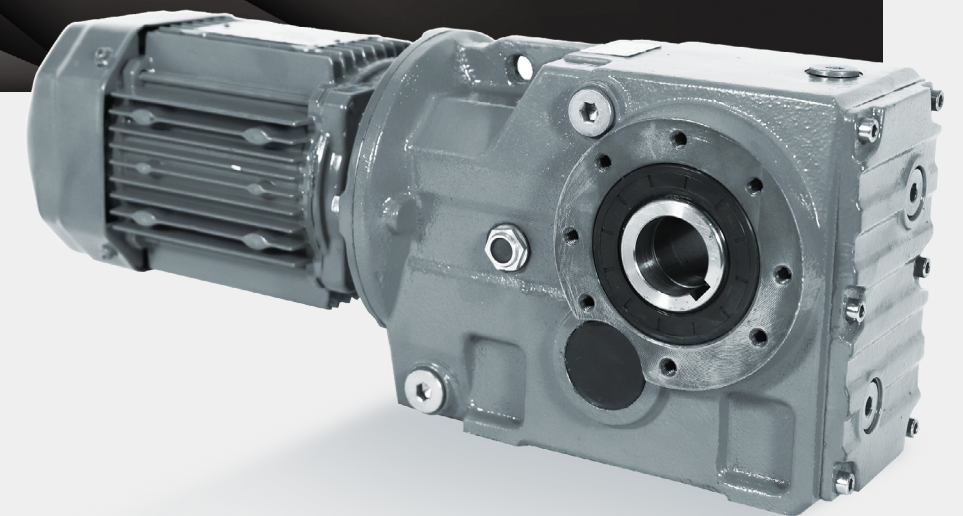
	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW	110kW	132kW	160kW	200kW
LB	599	643	662	662	707	826	826	831	916	916	1133	1133	1529	1529
LBS	754	798	817	817	862	981	981	991	1076	1076	1293	1293	1689	1689
AC	317	317	365	365	365	418	418	453	510	510	617	617	650	650
AD	265	265	300	300	300	370	370	400	435	435	550	550	587	587
AE	350	350	350	350	400	450	450	450	550	550	550	550	660	660

DF157

	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW	110kW	132kW	160kW	200kW
LB	599	643	662	662	707	826	826	831	916	916	1133	1133	1529	1529
LBS	754	798	817	817	862	981	981	991	1076	1076	1293	1293	1689	1689
AC	317	317	365	365	365	418	418	453	510	510	617	617	650	650
AD	265	265	300	300	300	370	370	400	435	435	550	550	587	587
AE	350	350	350	350	400	450	450	450	550	550	550	550	660	660

DK 시리즈 | DK-Series

헬리컬 베벨 감속기 HELICAL BEVEL GEARED MOTORS



모터 용량 Power	0.4 ~ 200kw
감속기 최대 토크 Gearbox Max Torque	50,000Nm
감속비 Ratio	5.36 ~ 17,550

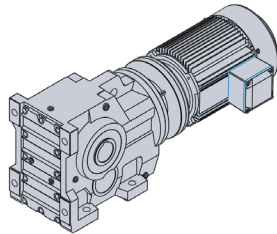
DK 시리즈 | DK-Series

헬리컬 베벨 감속기

HELICAL BEVEL GEARED MOTORS

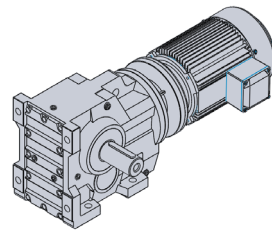
DKAB type

바닥 장착형 중공축 타입
Foot-mounted helical-bevel gear reducer with hollow shaft



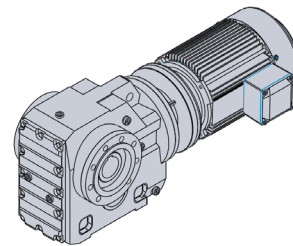
DK type

바닥 장착형 중실축 타입
Foot-mounted helical-bevel gear reducer with solid shaft



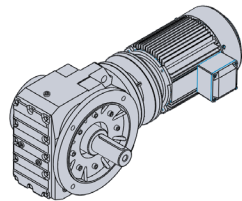
DKA type

중공축 부착 타입
Helical-bevel gear reducer with hollow shaft



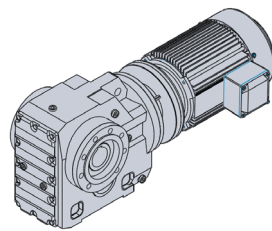
DKF type

B5플렌지 부착형 중실축 타입
Helical-bevel gear reducer in B5 flange-mounted with solid shaft



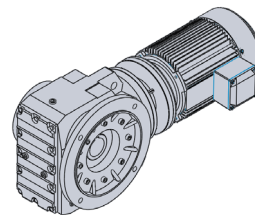
DKAZ type

B14플렌지 부착형 중공축 타입
Helical-bevel gear reducer in B14 flange with hollow shaft



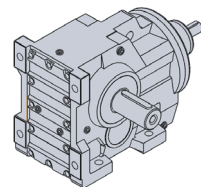
DKAF type

B5플렌지 부착형 중공축 타입
Helical-bevel gear reducer in B5 flange-mounted with hollow shaft



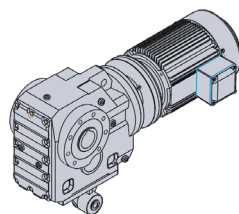
DKS 타입

입력 중실축 타입(라인 파워 타입)
Input-shaft style(Line Power Type)

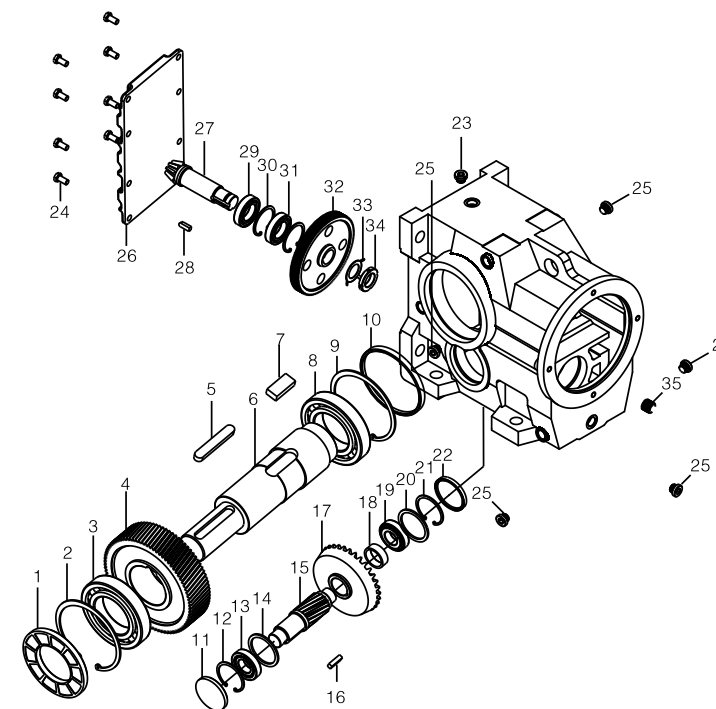


DKAT type

토크암 부착형 중공축 타입
Helical-bevel gear reducer in torque arm with hollow shaft



DK 시리즈 구조 Internal Structure of DK-Series



1. Oil seal - 오일 씸
2. Snap ring - 스냅링
3. Bearing - 베어링
4. Third-stage gear - 3단 기어
5. Key - 키
6. Output shaft - 출력 샤프트
7. Key - 키
8. Bearing - 베어링
9. Snap ring - 스냅링
10. Cap - 캡
11. Cap - 캡
12. Snap ring - 스냅링
13. Bearing - 베어링
14. Shim
15. Second-stage pinion - 2단 피니언
16. Key - 키
17. Second-stage bevel gear - 2단 베벨기어
18. Shaft sleeve - 샤프트 슬리브
19. Bearing - 베어링
20. Shim
21. Snap ring - 스냅링
22. Cap - 캡
23. Breather valve - 공기압 밸브
24. Bolt - 볼트
25. Oil Plug - 오일 플러그
26. Cover Plate - 커버
27. Second-stage bevel pinion - 2단 베벨 피니언
28. Key - 키
29. Bearing - 베어링
30. Snap ring - 스냅링
31. Bearing - 베어링
32. First-stage gear - 1단 기어
33. Lock washer
34. Round nut
35. First stage pinion - 1단 피니언

형식 표시 Instructions for models

형번 표시 (Frame No)	모터 용량 (Motor Capacity)	모터 주파수 (Frequency)	브레이크 표시 (Brake Option)
DKA 87 - 31.38 / 11kw - 380V - 60Hz (*-*) / AC-B			
형식 표시 (Type)	감속비 표시 (Ratio)	모터 전압 (Voltage)	모터 옵션 표시 (Motor Option)

예시 Example

DKAF67-48.77/2.2kw-2/3V-60Hz(INV)/DC-B

감속부	① B5플렌지 장착형 중공축 타입 감속기 ② Gear Box는 67형번이며 감속비는 48.77
모터	① 2.2kw 용량의 모터 ② 전압: 220/380V, 주파수: 60Hz ③ INVERTER전용 모터
기타	① DC-B 브레이크 부착형
Gear box	① Helical-bevel gear reducer in B5 flange-mounted with hollow shaft ② Size: 67, Ratio: 48.77
Motor	① 2.2kw motor ② Voltage: 220/380V, Frequency: 60Hz ③ Use for inverter motor
Etc	① DC-B Brake

DK87-70.46/5.5kw-2/3V-50Hz/AC-B(HL)

감속부	① 본체 장착형 중실축 타입 감속기 ② Gear Box는 87형번이며 감속비는 70.46
모터	① 5.5kw 용량의 모터 ② 전압: 220/380V, 주파수: 50Hz
기타	① AC-B부착형(수동 해방)
Gear box	① Foot-mounted helical-bevel gear reducer with solid shaft ② Size: 87, Ratio: 70.46
Motor	① 5.5kw motor ② Voltage: 220/380V, Frequency: 50Hz
Etc	① AC-B Brake(Hand lever brake)

사이즈/모터 프레임별 IEC플랜지 길이 Length of IEC flange

Reducer Type \ Motor Frame	71	80	90	100	112	132	160	180	200	225	250	280	315
DK..37	61.5	80	80	98									
DK..47	56	74.5	74.5	90.5									
DK..57	56	74.5	74.5	90.5	90.5								
DK..67	56	74.5	74.5	90.5	90.5	123							
DK..77	50	68.5	68.5	82.5	82.5	111	152.5						
DK..87		63.5	63.5	78.5	78.5	106	147.5	147.5					
DK..97			57.5	72.5	72.5	101	142.5	142.5	144.5				
DK..107				66.5	66.5	95	136.5	136.5	138.5	168.5			
DK..127						80	121.5	121.5	123.5	153.5	153.5	153.5	
DK..157							113.5	113.5	115.5	145.5	145.5	145.5	184
DK..167							113.5	113.5	115.5	145.5	145.5	145.5	184
DK..187							113.5	113.5	115.5	145.5	145.5	145.5	184

사이즈별 허용토크/모터 용량/감속비 The table for each size of allowable torque, motor and ratio.

사양 Specification \ 사이즈 Size	37	47	57	67	77	87	97	107	127	157	167	187
Allowable Maximum Torque [Nm]	200	400	600	800	1500	2700	4300	8000	13000	18000	32000	50000
Motor [kw]	0.4 ~ 3	0.4 ~ 3	0.4 ~ 5.5	0.4 ~ 5.5	0.4 ~ 11	0.4 ~ 22	0.4 ~ 30	0.4 ~ 45	0.4 ~ 90	0.75 ~ 200	0.75 ~ 200	0.75 ~ 200
Ratio	5.36 ~ 106.38	5.81 ~ 131.87	6.57 ~ 906	7.28 ~ 1351	7.22 ~ 2717	7.21 ~ 5240	8.71 ~ 8054	8.69 ~ 14311	8.68 ~ 17550	12.65 ~ 6881	17.34 ~ 11573	17.18 ~ 16978

형번 별 중량 Gearbox Weight

사이즈 Size	37	47	57	67	77	87	97	107	127	157	167	187
중량 Weight	15	24	32	36	50	90	165	250	460	750	1150	1800

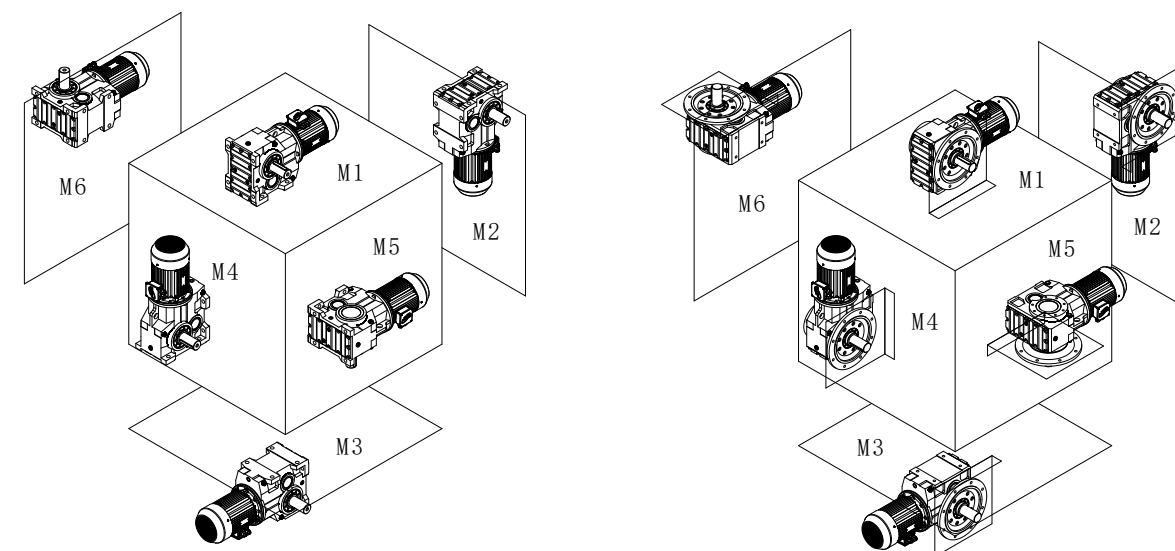
1) 표기 중량은 오일이 포함되어 있지 않으며 기어 비, 기어 단수에 따라 편차가 있을 수 있습니다.

Weight in the table does not include oil, and there would be little gap in terms of gear composition.

2) 표기 중량에 모터 중량은 포함되어 있지 않습니다.

Weight in the table does not include motor.

설치 형태 Mounting Position

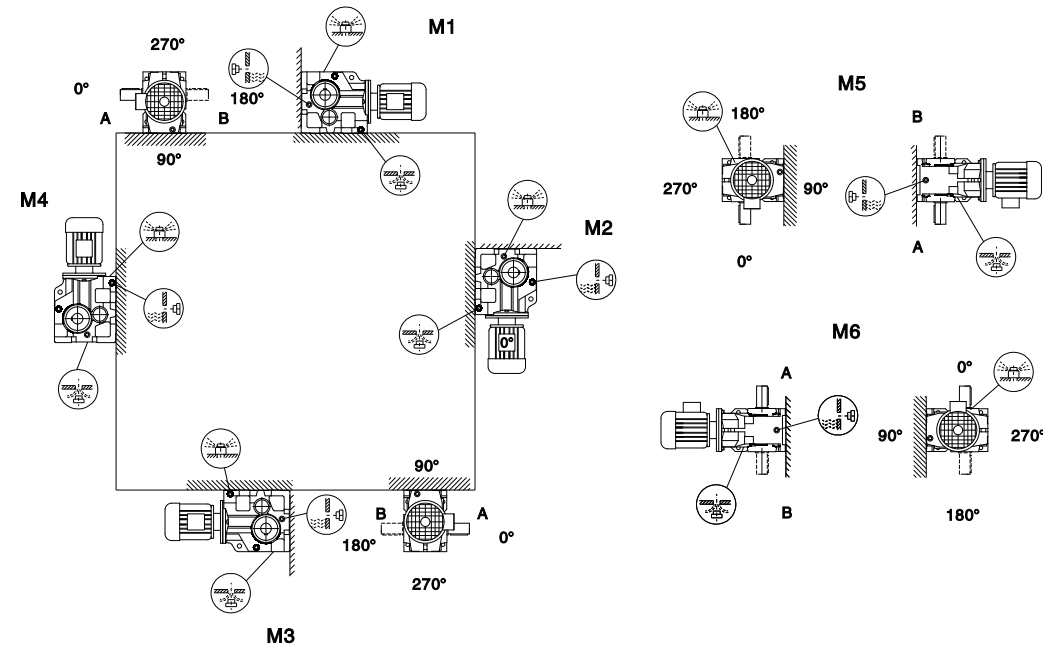


설치 형태에 따른 오일 충전량 Oil capacity table

설치형태 position \ 사이즈 Size	M1	M2	M3	M4	M5	M6
DK..37	0.4	0.8	0.9	1.2	0.9	0.9
DK..47	0.6	0.9	1	1.4	1.1	1.1
DK..57	1.1	2.1	2.3	2.8	2.4	2.2
DK..67	1.1	2.2	2.4	3.2	2.5	2.5
DK..77	1.9	3.6	3.9	5.2	3.7	3.9
DK..87	3.2	7	7.6	9.5	6.8	7
DK..97	6.1	12.2	13.7	17.5	13.7	14
DK..107	6.5	13.2	16	21	15	15
DK..127	10.8	21.3	22.6	27.7	20.5	21
DK..157	17.2	34.4	36	50	32.2	34.4
DK..167	31	88	88	110	75	75
DK..187	56	155	155	190	120	120

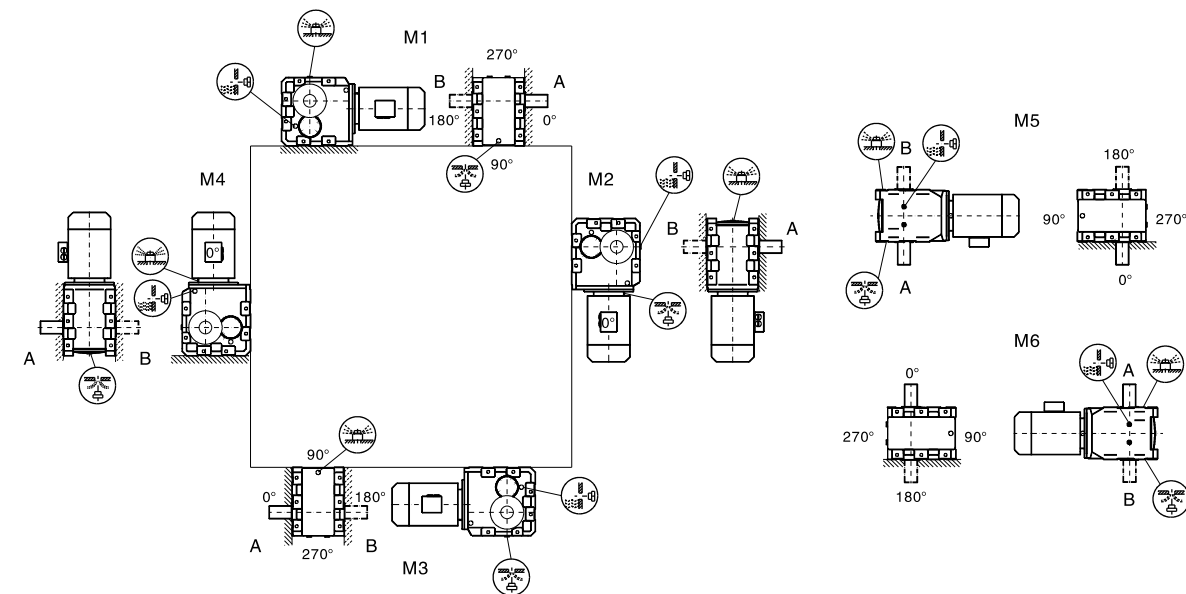
단위: Kg

DK/DKAB37 - 157 설치 예시 DK/DKAB37-157 Mounting position example

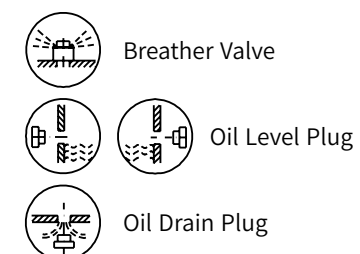


DK/DKA167-187 설치 예시 DK/DKA167-187 Mounting position example

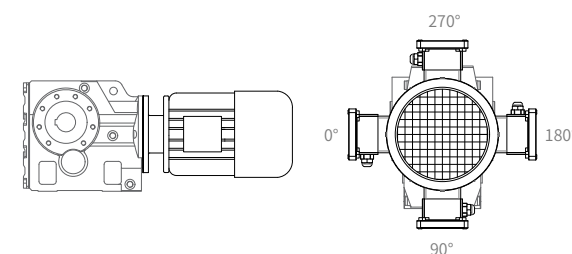
※ 출력 양측형은 'AB'로 표기해 주시기 바랍니다. Please mark the output biaxial type as 'AB' and order it.



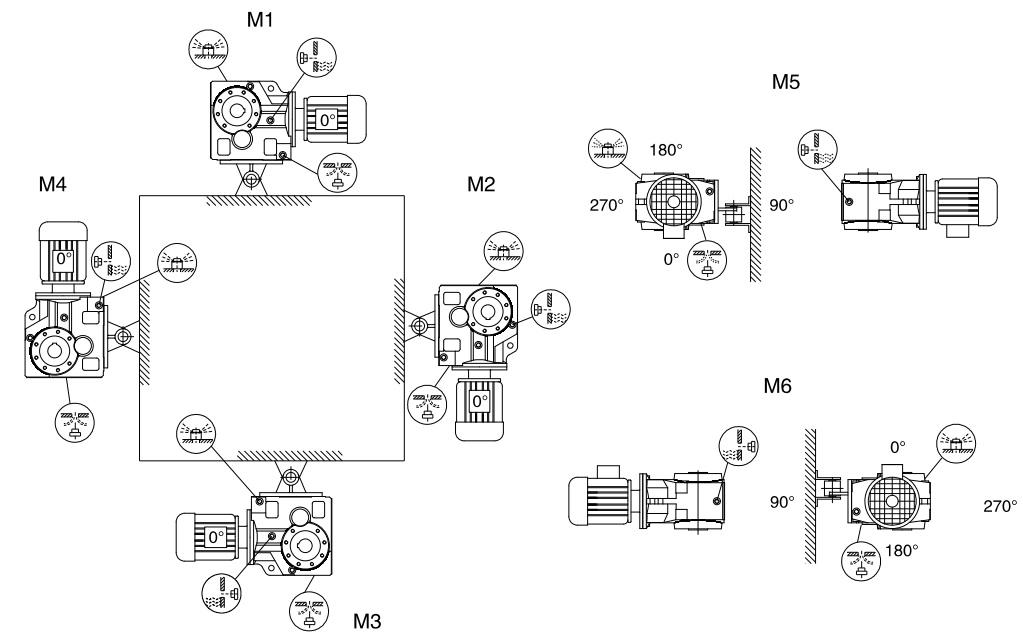
기호 표기 Symbol Mark



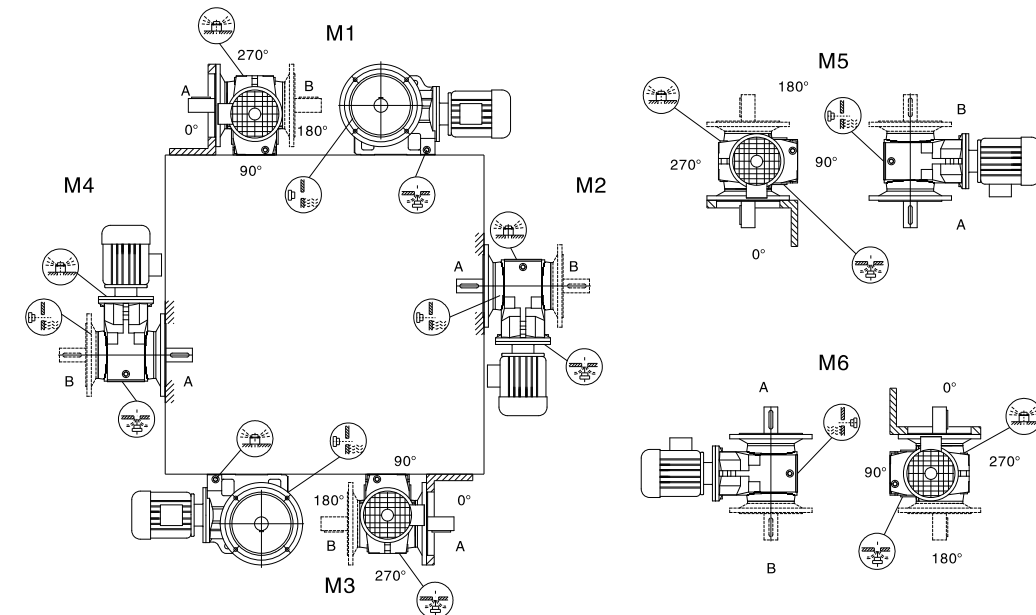
단자박스 표기 Terminal box



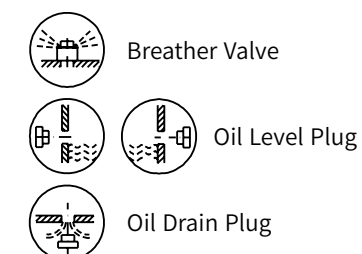
DKAT37 - 157 설치 예시 DKAT37-157 Mounting position example



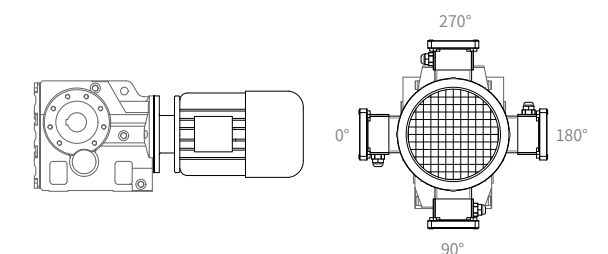
DKF/DKAF37-157 설치 예시 DKF/DKAF37-157 Mounting position example



기호 표기 Symbol Mark



단자박스 표기 Terminal box



DK-Series 특성표

0.4kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
0.4kw	DK127 DR77	6565	0.25	13065	0.95	71600	0.21	15676	0.80	69200
		5804	0.29	11350	1.10	72400	0.24	13622	0.95	71500
		5027	0.32	9910	1.30	72800	0.27	11892	1.10	72200
		4423	0.37	8660	1.40	73200	0.31	10389	1.20	72700
		3889	0.42	7595	1.65	73600	0.35	9114	1.40	73200
		3311	0.5	6415	2.00	74000	0.42	7697	1.70	73600
		1926	0.86	3810	3.40	74400	0.72	4573	2.85	74200
		1757	0.95	3480	3.70	74400	0.79	4173	3.10	74300
		1541	1.08	3025	4.30	74400	0.9	3632	3.60	74300
	DK107 DR77	3810	0.43	7550	1.00	58400	0.36	9059	0.85	58500
		3358	0.49	6575	1.20	58400	0.41	7892	1.00	58500
		2977	0.55	5865	1.35	58400	0.46	7038	1.15	58500
		2599	0.64	5125	1.50	58400	0.53	6151	1.25	58500
		2286	0.72	4480	1.70	58400	0.6	5373	1.45	58500
		1939	0.85	3795	2.10	58400	0.71	4551	1.75	58500
		1713	0.97	3415	2.25	58400	0.81	4097	1.90	58500
		1554	1.07	3100	2.50	58400	0.89	3719	2.10	58500
		1336	1.2	2660	2.90	58400	1	3189	2.45	58500
		1166	1.44	2325	3.40	58400	1.2	2789	2.85	58500
	DK97 DR57	2123	0.78	4300	0.95	36000	0.65	5157	0.80	36000
		1856	0.89	3785	1.05	36000	0.74	4541	0.90	36000
		1625	1.02	3255	1.30	36000	0.85	3903	1.10	36000
		1430	1.15	2845	1.40	36000	0.96	3416	1.20	36000
		1261	1.32	2570	1.60	36000	1.1	3081	1.35	36000
		1102	1.44	2245	1.85	36000	1.2	2692	1.55	36000
		957	1.68	1945	2.20	36000	1.4	2335	1.85	36000
		855	1.92	1740	2.40	36000	1.6	2086	2.00	36000
		743	2.28	1460	2.90	36000	1.9	1751	2.45	36000
		652	2.52	1290	3.30	36000	2.1	1546	2.75	36000
		573	2.88	1155	3.70	36000	2.4	1384	3.10	36000

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
0.4kw	DK87 DR57	1415	1.16	2885	0.90	24600	0.97	3459	0.75	23900
		1229	1.32	2495	1.00	25000	1.1	2995	0.85	24400
		1078	1.56	2180	1.20	25200	1.3	2616	1.00	24800
		951	1.8	1900	1.40	25400	1.5	2281	1.20	25100
		837	1.92	1665	1.55	25600	1.6	2000	1.30	25400
		726	2.28	1440	1.85	25700	1.9	1730	1.55	25600
		638	2.64	1280	2.10	25800	2.2	1535	1.75	25700
		562	3	1120	2.40	25900	2.5	1341	2.00	25700
		474	3.48	935	2.85	25900	2.9	1124	2.40	25900
		426	3.84	845	3.15	26000	3.2	1016	2.65	25900
	DK77 DR37	373	4.44	730	3.65	26000	3.7	876	3.05	26000
		815	2.04	1675	0.90	13900	1.7	2011	0.75	6700
		709	2.4	1425	1.05	15300	2	1708	0.90	13600
		622	2.64	1245	1.20	16000	2.2	1492	1.00	14800
		552	3	1110	1.35	16400	2.5	1330	1.15	15500
		485	3.36	975	1.55	16800	2.8	1168	1.30	16100
		428	3.84	855	1.70	17100	3.2	1027	1.45	16600
		367	4.56	750	2.00	17400	3.8	897	1.70	17000
		328	5.04	665	2.25	17500	4.2	795	1.90	17200
		290	5.76	590	2.60	17600	4.8	708	2.20	17500
	DK67 DR37	252	6.6	510	3.05	176600	5.5	611	2.55	17600
		221	7.44	445	3.40	17800	6.2	535	2.85	17700
		195	8.52	390	3.80	17900	7.1	470	3.20	17800
		175	9.48	350	4.40	18000	7.9	422	3.70	17900
		154	10.8	305	4.95	18000	9	368	4.15	17900
		420	3.96	845	0.95	9700	3.3	1016	0.80	7300
		361	4.56	740	1.05	10300	3.8	886	0.90	9200
		323	5.16	655	1.25	10700	4.3	784	1.05	9800
		279	5.88	565	1.40	11100	4.9	676	1.20	10500
		246	6.72	495	1.60	11400	5.6	595	1.35	10900
		217	7.56	435	1.85	11500	6.3	524	1.55	11200
		191	8.64	390	2.10	11700	7.2	465	1.75	11400
		166	9.96	335	2.40	11700	8.3	400	2.00	11600
		144	11.5	290	2.75	11700	9.6	346	2.30	11700
		122	13.2	250	3.30	11700	11	297	2.75	11700

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
0.4kw	DK57 DR37	280	5.88	565	1.00	7500	4.9	676	0.85	6600
		246	6.72	495	1.20	7800	5.6	595	1.00	7200
		215	7.68	435	1.35	8000	6.4	519	1.15	7600
		192	8.64	390	1.50	8200	7.2	465	1.25	7800
		166	9.96	335	1.70	8300	8.3	400	1.45	8100
		145	11.5	295	2.00	8400	9.6	351	1.70	8300
		129	13.2	260	2.25	8500	11	314	1.90	8400
		111	14.4	220	2.60	8600	12	265	2.20	8500
		97	16.8	195	3.05	8700	14	232	2.55	8600
	DK77	192.18	8.64	440	3.30	17800	7.2	530	2.75	17700
		179.37	9.24	410	3.50	17900	7.7	492	2.95	17800
		154.02	10.8	350	4.30	17900	9	422	3.60	17900
	DK67	144.79	11.4	335	2.40	11700	9.5	400	2.00	11600
		123.54	13.2	285	2.85	11700	11	341	2.40	11700
		108.03	15.6	250	3.30	11700	13	297	2.75	11700
		90.04	18	210	3.95	11700	15	249	3.30	11700
		76.37	21.6	175	4.60	11700	18	212	3.85	11700
	DK57	145.15	11.4	335	1.70	8300	9.5	400	1.45	8100
		123.85	13.2	285	2.10	8500	11	341	1.75	8300
		108.29	15.6	250	2.40	8600	13	297	2.00	8400
		102.88	15.6	240	2.50	8600	13	286	2.10	8500
		90.26	18	210	2.85	8700	15	249	2.40	8600
		76.56	21.6	175	3.40	8800	18	212	2.85	8700
		69.12	24	160	3.70	8800	20	191	3.10	8700
	DK47	131.87	12	305	1.30	6500	10	368	1.10	6000
		121.48	13.2	280	1.40	6700	11	335	1.20	6300
		104.37	15.6	240	1.60	6900	13	286	1.35	6600
		90.86	18	210	1.85	7000	15	254	1.55	6800
		85.12	19.2	200	2.00	7100	16	238	1.70	6900
		75.2	21.6	175	2.25	7200	18	209	1.90	7000
		69.84	24	160	2.40	7200	20	194	2.00	7100
		63.3	26.4	145	2.75	7200	22	175	2.30	7200

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
0.4kw	DK37	97.81	16.8	225	0.80	4600	14	270	0.70	2300
		83.69	19.2	190	1.00	4900	16	227	0.85	4900
		72.54	22.8	170	1.20	5000	19	201	1.00	5100
		67.8	24	155	1.25	4900	20	188	1.05	5100
		58.6	28.8	135	1.40	4800	24	162	1.20	5000
		49.79	33.6	115	1.65	4600	28	138	1.40	4800
		44.46	37.2	105	1.90	4500	31	123	1.60	4700
		37.97	43.2	88	2.25	4300	36	105	1.90	4600
		35.57	46.8	82	2.40	4300	39	98	2.00	4500
		29.96	55.2	69	2.85	4100	46	83	2.40	4300
		28.83	57.6	67	2.90	4000	48	80	2.45	4300
		24.99	66	58	3.40	3900	55	69	2.85	4100
		23.36	70.8	54	3.65	3800	59	65	3.05	4100
		20.19	81.6	47	3.95	3700	68	56	3.30	3900
		17.15	96	40	4.50	3500	80	48	3.75	3700
		15.32	108	35	4.95	3550	90	42	4.15	3600
		13.08	126	31	5.40	3450	105	37	4.50	3500
		12.14	137	28	5.60	3350	114	34	4.70	3400
		10.49	158	24	6.50	3250	132	29	5.45	3300
		8.91	186	21	7.70	3050	155	25	6.45	3100
		7.96	208	18	8.40	2950	173	22	7.00	3000
		6.8	244	15	9.50	2850	203	18	7.95	2900
		6.37	260	14	9.80	2750	217	17	8.20	2800
		5.36	308	13	11.10	2650	257	15	9.25	2700

0.75kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
0.75kw	DK187 DR97	13116	0.13	48665	1.00	170900	0.11	58400	0.85	171000
		11647	0.14	42915	1.10	170900	0.12	51500	0.95	171000
		7343	0.23	27335	1.80	170900	0.19	32800	1.50	171000
		6747	0.24	25000	1.95	170900	0.2	30000	1.65	171000
		5991	0.28	22085	2.25	170900	0.23	26500	1.90	171000

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
0.75kw	DK167 DR97	8628	0.19	32165	1.00	134900	0.16	38600	0.85	135000
		6562	0.25	24415	1.30	134900	0.21	29300	1.10	135000
		5355	0.31	19750	1.60	134900	0.26	23700	1.35	135000
		4079	0.41	15165	2.10	134900	0.34	18200	1.75	135000
		3376	0.49	12585	2.50	134900	0.41	15100	2.10	135000
	DK157 DR97	3979	0.42	14835	1.20	102700	0.35	17800	1.00	101400
		3051	0.54	11335	1.55	103300	0.45	13600	1.30	103000
		1659	1	6200	2.85	103300	0.83	7440	2.40	104400
		1365	1.2	5035	3.60	103300	1	6040	3.00	104600
	DK127 DR77	3311	0.5	12585	1.00	72000	0.42	15100	0.85	69400
		3009	0.55	11415	1.10	72400	0.46	13700	0.95	71200
		2607	0.64	9835	1.30	72800	0.53	11800	1.10	72100
		1926	0.86	7440	1.70	73200	0.72	8930	1.45	73100
		1757	0.95	6790	1.90	73600	0.79	8150	1.60	73400
		1541	1.08	5935	2.20	74000	0.9	7120	1.85	73500
		1342	1.2	5185	2.50	74000	1	6220	2.10	73800
		1177	1.44	4535	2.85	74000	1.2	5440	2.40	74000
		1025	1.68	3960	3.20	74000	1.4	4750	2.70	74200
		899	1.8	3460	3.70	74400	1.5	4150	3.10	74300
	DK107 DR77	1713	0.97	6635	1.20	58400	0.81	7960	1.00	58500
		1554	1.07	6025	1.30	58400	0.89	7230	1.10	58500
		1336	1.2	5175	1.55	58400	1	6210	1.30	58500
		1166	1.44	4515	1.80	58400	1.2	5420	1.50	58500
		1030	1.56	3925	2.00	58400	1.3	4710	1.70	58500
		904	1.8	3435	2.30	58400	1.5	4120	1.95	58500
		793	2.04	3065	2.60	58400	1.7	3680	2.20	58500
		696	2.4	2675	3.00	58400	2	3210	2.50	58500
		615	2.64	2335	3.35	58400	2.2	2800	2.80	58500
	DK97 DR57	1102	1.44	4315	1.00	36000	1.2	5180	0.85	35600
		957	1.68	3740	1.10	36000	1.4	4490	0.95	36000
		855	1.92	3350	1.25	36000	1.6	4020	1.05	36000

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
0.75kw	DK97 DR57	743	2.28	2860	1.50	36000	1.9	3430	1.25	36000
		652	2.52	2515	1.65	36000	2.1	3020	1.40	36000
		573	2.88	2235	1.90	36000	2.4	2680	1.60	36000
		504	3.24	1935	2.20	36000	2.7	2320	1.85	36000
		437	3.84	1675	2.50	36000	3.2	2010	2.10	36000
		382	4.32	1475	2.85	36000	3.6	1770	2.40	36000
		305	5.4	1185	3.60	36000	4.5	1420	3.00	36000
		258	6.48	990	4.30	36000	5.4	1190	3.60	36000
		232	7.08	900	4.80	36000	5.9	1080	4.00	36000
		199	8.28	765	5.60	36000	6.9	920	4.70	36000
	DK87 DR57	726	2.28	2810	0.95	24600	1.9	3370	0.80	23700
		638	2.64	2475	1.05	24900	2.2	2970	0.90	24200
		562	3	2175	1.25	25200	2.5	2610	1.05	24700
		474	3.48	1835	1.50	25400	2.9	2200	1.25	25000
		426	3.84	1650	1.60	25600	3.2	1980	1.35	25300
		373	4.44	1435	1.85	25700	3.7	1720	1.55	25500
		330	5.04	1265	2.15	25800	4.2	1520	1.80	25600
		294	5.64	1125	2.40	25800	4.7	1350	2.00	25700
		250	6.6	965	2.75	25900	5.5	1160	2.30	25800
		236	6.96	915	3.00	25900	5.8	1100	2.50	25800
		201	8.28	775	3.45	26000	6.9	930	2.90	25900
	DK77 DR37	367	4.56	1435	1.05	14900	3.8	1720	0.90	13100
		328	5.04	1285	1.20	15600	4.2	1540	1.00	14200
		290	5.76	1135	1.35	16200	4.8	1360	1.15	15100
		252	6.6	985	1.55	16700	5.5	1180	1.30	15900
		221	7.44	860	1.80	17000	6.2	1030	1.50	16500
		197.37	8.4	815	3.35	26000	7	980	2.80	25900
	DK87	174.19	9.48	715	3.70	26000	7.9	860	3.10	25900
		164.34	10.08	675	3.95	26000	8.4	810	3.30	26000
		147.32	11.28	610	4.40	26000	9.4	730	3.70	26000
	DK77	154.02	10.8	640	2.40	17500	9	765	2.00	17100
		135.28	12	560	2.75	17600	10	670	2.30	17400

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
0.75kw	DK77	128.52	13.2	530	2.85	17700	11	635	2.40	17400
		113.56	14.4	465	3.20	17800	12	560	2.70	17600
		97.05	16.8	400	3.80	17800	14	480	3.20	17700
	DK67	123.54	13.2	510	1.60	11200	11	610	1.35	10500
		108.03	15.6	445	1.85	11400	13	535	1.55	10900
		90.04	18	370	2.20	11600	15	445	1.85	11300
		76.37	21.6	315	2.60	11700	18	375	2.20	11500
		68.95	24	285	2.85	11700	20	340	2.40	11700
		60.66	27.6	250	3.20	11700	23	300	2.70	11700
		57.28	28.8	235	3.45	11700	24	280	2.90	11700
	DK57	123.85	13.2	515	1.10	7600	11	615	0.95	6400
		108.29	15.6	445	1.30	7800	13	535	1.10	7100
		102.88	15.6	425	1.35	7900	13	510	1.15	7300
		90.26	18	370	1.60	8100	15	445	1.35	7700
		76.56	21.6	315	1.90	8300	18	380	1.60	8000
		69.12	24	285	2.10	8400	20	340	1.75	8200
		60.81	27.6	250	2.40	8500	23	300	2.00	8300
		57.42	28.8	240	2.50	8600	24	285	2.10	8400
		48.89	33.6	200	3.00	8700	28	240	2.50	8500
		44.43	37.2	185	3.20	8700	31	220	2.70	8600
	DK47	75.2	21.6	310	1.25	6300	18	370	1.05	5500
		69.84	24	290	1.35	6500	20	345	1.15	5800
		63.3	26.4	260	1.50	6600	22	310	1.25	6100
		56.83	28.8	235	1.65	6800	24	280	1.40	6400
		48.95	33.6	200	1.95	7000	28	240	1.65	6700
		46.04	36	190	2.10	7000	30	225	1.75	6800
		39.61	42	165	2.40	6800	35	197	2.00	7000
		35.39	46.8	145	2.75	6600	39	176	2.30	7000
		31.3	52.8	130	3.10	6400	44	156	2.60	6800
	DK37	44.46	37.2	185	1.05	3700	31	220	0.90	3800
		37.97	43.2	160	1.25	3700	36	189	1.05	3700
		35.57	46.8	150	1.35	3600	39	177	1.15	3700
		29.96	55.2	125	1.60	3600	46	149	1.35	3700

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
0.75kw	DK37	28.83	57.6	120	1.65	3600	48	143	1.40	3700
		24.99	66	105	1.90	3500	55	124	1.60	3600
		23.36	70.8	97	2.00	3400	59	116	1.70	3600
		20.19	81.6	83	2.20	3300	68	100	1.85	3500
		17.15	96	71	2.50	3200	80	85	2.10	3400
		15.32	108	63	2.75	3100	90	76	2.30	3300
		13.08	126	54	3.00	3000	105	65	2.50	3200
		12.14	136.8	50	3.10	3000	114	60	2.60	3200
		10.49	158.4	43	3.70	2900	132	52	3.10	3000
		8.91	186	37	4.30	2700	155	44	3.60	2900
		7.96	207.6	33	4.65	2700	173	40	3.90	2800
		6.8	243.6	29	5.00	2650	203	35	4.20	2700
		6.37	260.4	28	5.25	2550	217	33	4.40	2600
		5.36	308.4	23	6	2450	257	28	5.00	2500

DK 1.5kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
DK 1.5kw	DK187 DR97	6747	0.25	50585	0.95	170900	0.21	60700	0.80	171000
		5991	0.29	44750	1.10	170900	0.24	53700	0.95	171000
		5358	0.31	39915	1.25	170900	0.26	47900	1.05	171000
		4817	0.35	35750	1.35	170900	0.29	42900	1.15	171000
		4370	0.38	32415	1.55	170900	0.32	38900	1.30	171000
		3609	0.47	27500	1.80	170900	0.39	33000	1.50	171000
		3062	0.55	23165	2.15	170900	0.46	27800	1.80	171000
		2519	0.67	19000	2.60	170900	0.56	22800	2.20	171000
		2268	0.74	17000	3.00	170900	0.62	20400	2.50	171000
	DK167 DR97	4079	0.42	30585	1.00	134900	0.35	36700	0.85	135000
		3376	0.5	25335	1.25	134900	0.42	30400	1.05	135000
		2755	0.61	20585	1.55	134900	0.51	24700	1.30	135000
		2182	0.78	16585	1.90	134900	0.65	19900	1.60	135000
		1704	1	12915	2.50	134900	0.83	15500	2.10	135000

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
DK 1.5kw	DK167 DR97	1408	1.2	10665	3.00	134900	1	12800	2.50	135000
		1296	1.32	9835	3.20	134900	1.1	11800	2.70	135000
	DK157 DR97	2322	0.73	17250	1.00	101800	0.61	20700	0.85	100200
		1659	1.02	12585	1.40	101800	0.85	15100	1.20	102200
		1365	1.2	10250	1.70	101800	1	12300	1.45	103100
		1229	1.32	9250	1.95	101800	1.1	11100	1.65	103500
		1093	1.56	8200	2.20	101800	1.3	9840	1.85	103800
		942	1.8	7065	2.50	101800	1.5	8480	2.10	104100
		854	1.92	6375	2.75	101800	1.6	7650	2.30	104300
		567	3	4210	4.30	101800	2.5	5050	3.60	104700
		504	3.36	3740	4.80	101800	2.8	4490	4.00	104800
	DK127 DR87	536	3.12	4015	3.20	74000	2.6	4820	2.70	74100
		418	4.08	3140	4.20	74400	3.4	3770	3.50	74300
	DK127 DR77	367	4.56	2775	4.65	74400	3.8	3330	3.90	74300
		1757	0.96	13500	0.95	71200	0.8	16200	0.80	67000
		1541	1.09	11835	1.05	72000	0.91	14200	0.90	70500
		1342	1.2	10335	1.25	72400	1	12400	1.05	71600
		1177	1.44	9085	1.40	73200	1.2	10900	1.20	72300
		1025	1.68	7890	1.60	73200	1.4	9470	1.35	72800
		899	1.92	6915	1.85	73600	1.6	8300	1.55	73200
		790	2.16	6010	2.15	74000	1.8	7210	1.80	73500
		704	2.4	5400	2.40	74000	2	6480	2.00	73700
		610	2.76	4660	2.75	74000	2.3	5590	2.30	74000
		549	3.12	4200	3.10	74000	2.6	5040	2.60	74100
		477	3.6	3635	3.60	74400	3	4360	3.00	74200
		418	4.08	3200	4.05	74400	3.4	3840	3.40	74300
	DK107 DR77	1030	1.68	7885	1.00	58400	1.4	9460	0.85	58500
		904	1.92	6900	1.10	58400	1.6	8280	0.95	58500
		793	2.16	6110	1.30	58400	1.8	7330	1.10	58500
		696	2.4	5350	1.50	58400	2	6420	1.25	58500
		615	2.76	4700	1.65	58400	2.3	5640	1.40	58500
		522	3.24	3985	1.95	58400	2.7	4780	1.65	58500
		461	3.72	3510	2.25	58400	3.1	4210	1.90	58500

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
DK 1.5kw	DK107 DR77	408	4.2	3100	2.60	58400	3.5	3720	2.20	58500
		364	4.68	2790	2.85	58400	3.9	3350	2.40	58500
		318	5.28	2435	3.20	58400	4.4	2920	2.70	58500
	DK97 DR57	573	3	4435	0.95	36000	2.5	5320	0.80	35600
		504	3.36	3875	1.10	36000	2.8	4650	0.95	36000
		437	3.84	3350	1.25	36000	3.2	4020	1.05	36000
		382	4.44	2950	1.40	36000	3.7	3540	1.20	36000
		342	4.92	2615	1.60	36000	4.1	3140	1.35	36000
		305	5.52	2350	1.80	36000	4.6	2820	1.50	36000
		258	6.6	1985	2.15	36000	5.5	2380	1.80	36000
		232	7.32	1785	2.40	36000	6.1	2140	2.00	36000
		199	8.52	1535	2.75	36000	7.1	1840	2.30	36000
	DK87 DR57	330	5.16	2535	1.05	24800	4.3	3040	0.90	24100
		294	5.76	2250	1.20	25100	4.8	2700	1.00	24500
		250	6.72	1925	1.35	25300	5.6	2310	1.15	24900
		236	7.2	1815	1.50	25400	6	2180	1.25	25000
		201	8.4	1550	1.70	25600	7	1860	1.45	25400
	DK97	183	9.24	1410	1.90	25700	7.7	1690	1.60	25500
		176.05	9.6	1435	2.85	36000	8	1720	2.40	36000
		153.21	11	1250	3.35	36000	9.2	1500	2.80	36000
		140.28	12	1140	3.60	36000	10	1370	3.00	36000
	DK87	123.93	13.2	1010	4.05	36000	11	1210	3.40	36000
		174.19	9.72	1415	1.85	25600	8.1	1700	1.55	25500
		164.34	10.3	1340	1.90	25700	8.6	1610	1.60	25500
		147.32	11.5	1200	2.15	25800	9.6	1440	1.80	25700
		126.91	13.2	1035	2.50	25800	11	1240	2.10	25700
		115.82	14.4	940	2.75	25900	12	1130	2.30	25800
		102.71	16.8	835	3.10	26000	14	1000	2.60	25900
		86.34	19.2	700	3.70	26000	16	840	3.10	25900
	DK77	135.28	12	1100	1.35	16100	10	1320	1.15	15100
		128.52	13.2	1050	1.40	16300	11	1260	1.20	15200
		113.56	14.4	925	1.60	16700	12	1110	1.35	15900
		97.05	18	790	1.85	17100	15	950	1.55	16600

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
DK 1.5kw	DK77	88.97	19.2	725	2.00	17300	16	870	1.70	16800
		78.07	21.6	640	2.30	17500	18	765	1.95	17100
		73.99	22.8	605	2.50	17500	19	725	2.10	17200
		64.76	26.4	525	2.85	17700	22	630	2.40	17500
		58.34	28.8	475	3.10	17800	24	570	2.60	17600
		51.18	33.6	415	3.60	17800	28	500	3.00	17700
		45.16	37.2	365	4.05	17900	31	440	3.40	17800
		40.04	42	325	4.55	17900	35	390	3.80	17800
	DK67	90.04	19.2	735	1.05	10000	16	880	0.90	8700
		76.37	21.6	620	1.25	10600	18	745	1.05	9800
		68.95	24	565	1.35	10900	20	675	1.15	10200
		60.66	27.6	490	1.60	11200	23	590	1.35	10600
		57.28	30	465	1.65	11300	25	560	1.40	10800
		48.77	34.8	395	1.95	11500	29	475	1.65	11200
		44.32	38.4	360	2.15	11600	32	430	1.80	11300
		38.39	44.4	315	2.40	11700	37	375	2.00	11500
		35.62	48	290	2.75	11700	40	345	2.30	11600
		30.22	56.4	245	3.20	11700	47	295	2.70	11700
		27.28	62.4	220	3.60	11700	52	265	3.00	11700
		24	70.8	195	3.95	11700	59	235	3.30	11700
	DK57	60.81	27.6	495	1.10	7600	23	595	0.95	6900
		57.42	30	465	1.25	7700	25	560	1.05	7100
		48.89	34.8	395	1.40	8000	29	475	1.20	7700
		44.43	38.4	365	1.60	8200	32	435	1.35	7800
		38.49	44.4	315	1.85	8300	37	375	1.55	8000
		35.7	46.8	290	1.95	8200	39	350	1.65	8100
		30.28	56.4	245	2.30	7900	47	295	1.95	8300
		27.34	62.4	220	2.60	7700	52	265	2.20	8100
		24.05	70.8	195	3.00	7500	59	235	2.50	7900
		22.71	74.4	185	3.10	7400	62	220	2.60	7800
	DK47	19.34	87.6	160	3.45	7100	73	190	2.90	7500
		39.61	43.2	320	1.20	5700	36	385	1.00	5500
		35.39	48	290	1.30	5600	40	345	1.10	5700

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
DK 1.5kw	DK47	31.3	54	255	1.50	5600	45	305	1.25	5700
		29.32	57.6	240	1.60	5500	48	285	1.35	5600
		25.91	64.8	210	1.80	5400	54	250	1.50	5600
		21.81	78	175	2.15	5200	65	210	1.80	5400
		19.58	86.4	160	2.40	5200	72	192	2.00	5400
		16.86	101	140	2.60	5000	84	165	2.20	5200
		15.86	107	130	2.85	4900	89	155	2.40	5200
		13.65	124	110	3.10	4800	103	134	2.60	5000
		12.19	139	100	3.35	4600	116	120	2.80	4900
		11.77	144	96	2.75	4600	120	115	2.30	4800
	DK37	23.36	72	190	0.95	2600	60	225	0.80	2600
		20.19	84	165	1.05	2700	70	198	0.90	2600
		17.15	98.4	140	1.25	2600	82	168	1.05	2600
		15.32	110	125	1.30	2600	92	150	1.10	2700
		13.08	130	105	1.50	2600	108	128	1.25	2600
		12.14	139	99	1.55	2600	116	119	1.30	2600
		10.49	161	86	1.80	2500	134	103	1.50	2600
		8.91	190	73	2.10	2500	158	87	1.75	2500
		7.96	212	65	2.25	2400	177	78	1.90	2500
		6.8	248	56	2.60	2300	207	67	2.20	2400
		6.37	265	52	2.60	2300	221	62	2.20	2400
		5.36	316	44	3.10	2200	263	53	2.60	2300

2.2kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
2.2kw	DK187 DR97	4370	0.38	48250	1.00	170900	0.32	57900	0.85	171000
		2818	0.6	30835	1.60	170900	0.5	37000	1.35	171000
		3609	0.47	40665	1.20	170900	0.39	48800	1.00	171000
		3062	0.55	34415	1.40	170900	0.46	41300	1.20	171000
		2519	0.67	28165	1.80	170900	0.56	33800	1.50	171000
		2268	0.74	25335	1.95	170900	0.62	30400	1.65	171000

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
2.2kw	DK187 DR97	2054	0.83	22835	2.15	170900	0.69	27400	1.80	171000
		1821	0.92	20165	2.50	170900	0.77	24200	2.10	171000
		1605	1.06	17835	2.75	170900	0.88	21400	2.30	171000
	DK167 DR97	2755	0.61	30500	1.00	134900	0.51	36600	0.85	135000
		2263	0.74	24835	1.25	134900	0.62	29800	1.05	135000
		2182	0.78	24585	1.30	134900	0.65	29500	1.10	135000
		1704	1	19085	1.65	134900	0.83	22900	1.40	135000
		1408	1.2	15835	2.00	134900	1	19000	1.70	135000
		1296	1.32	14500	2.20	134900	1.1	17400	1.85	135000
		1101	1.56	12250	2.60	134900	1.3	14700	2.20	135000
		944	1.8	10500	3.00	134900	1.5	12600	2.50	135000
	DK157 DR97	1659	1.02	18665	0.95	100900	0.85	22400	0.80	98600
		1365	1.2	15250	1.20	102300	1	18300	1.00	100800
		1229	1.32	13750	1.30	102800	1.1	16500	1.10	101600
		1093	1.56	12165	1.50	103200	1.3	14600	1.25	102300
		942	1.8	10500	1.70	103700	1.5	12600	1.45	103100
		854	1.92	9500	1.90	103900	1.6	11400	1.60	103400
		756	2.28	8325	2.15	104200	1.9	9990	1.80	103800
	DK127 DR87	536	3.12	5985	2.15	74000	2.6	7180	1.80	73500
		473	3.6	5260	2.50	74000	3	6310	2.10	73800
		418	4.08	4665	2.75	74000	3.4	5600	2.30	73900
		367	4.56	4125	3.10	74000	3.8	4950	2.60	74100
		330	5.16	3700	3.45	74400	4.3	4440	2.90	74200
	DK127 DR77	1025	1.68	11665	1.10	72000	1.4	14000	0.95	70000
		899	1.92	10165	1.25	72400	1.6	12200	1.05	71600
		790	2.16	8915	1.40	72800	1.8	10700	1.20	72400
		704	2.4	7985	1.60	73200	2	9580	1.35	72700
		610	2.76	6900	1.85	73600	2.3	8280	1.55	73200
		549	3.12	6215	2.10	73600	2.6	7460	1.75	73400
		477	3.6	5385	2.40	74000	3	6460	2.00	73700
		418	4.08	4735	2.75	74000	3.4	5680	2.30	73900

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
2.2kw	DK107 DR77	615	2.76	6950	1.10	58400	2.3	8340	0.95	58500
		522	3.24	5890	1.35	58400	2.7	7070	1.15	58500
		461	3.72	5190	1.55	58400	3.1	6230	1.30	58500
		408	4.2	4600	1.70	58400	3.5	5520	1.45	58500
		364	4.68	4115	1.90	58400	3.9	4940	1.60	58500
		318	5.28	3600	2.20	58400	4.4	4320	1.85	58500
		286	5.88	3240	2.50	58400	4.9	3890	2.10	58500
		251	6.72	2840	2.75	58400	5.6	3410	2.30	58500
	DK97 DR57	382	4.44	4340	0.95	36000	3.7	5210	0.80	35600
		342	4.92	3865	1.10	36000	4.1	4640	0.95	36000
		305	5.52	3475	1.25	36000	4.6	4170	1.05	36000
		258	6.6	2925	1.40	36000	5.5	3510	1.20	36000
		232	7.32	2635	1.60	36000	6.1	3160	1.35	36000
		199	8.52	2260	1.90	36000	7.1	2710	1.60	36000
	DK97	176.05	9.6	2185	1.95	36000	8	2620	1.65	36000
		153.21	11	1900	2.25	36000	9.2	2280	1.90	36000
		140.28	12	1740	2.50	36000	10	2090	2.10	36000
		123.93	13.2	1540	2.75	36000	11	1850	2.30	36000
		105.13	15.6	1310	3.35	36000	13	1570	2.80	36000
		96.8	18	1200	3.60	36000	15	1440	3.00	36000
	DK87	147.32	11.5	1775	1.50	25400	9.6	2130	1.25	25100
		126.91	13.2	1525	1.70	25600	11	1830	1.45	25400
		115.82	14.4	1390	1.85	25600	12	1670	1.55	25500
		102.71	16.8	1235	2.10	25800	14	1480	1.75	25700
		86.34	19.2	1040	2.50	25800	16	1250	2.10	25700
		79.34	21.6	950	2.75	25900	18	1140	2.30	25800
		70.46	24	850	3.10	25900	20	1020	2.60	25900
		63	26.4	760	3.45	26000	22	910	2.90	25900
	DK77	113.56	14.4	1365	1.05	14800	12	1640	0.90	12900
		97.05	18	1165	1.25	15800	15	1400	1.05	14500
		88.97	19.2	1065	1.35	16200	16	1280	1.15	15100
		78.07	21.6	940	1.60	16600	18	1130	1.35	15800

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
2.2kw	DK77	73.99	22.8	890	1.65	16800	19	1070	1.40	16100
		64.76	26.4	775	1.90	17100	22	930	1.60	16600
		58.34	28.8	700	2.15	17300	24	840	1.80	16900
		51.18	33.6	615	2.40	17500	28	740	2.00	17200
		45.16	37.2	540	2.75	17600	31	650	2.30	17400
		40.04	42	485	3.10	17700	35	580	2.60	17600
		35.19	48	420	3.60	17800	40	505	3.00	17700
		30.88	55.2	370	4.05	17900	46	445	3.40	17800
		29.26	57.6	350	4.30	17900	48	420	3.60	17800
		25.61	66	310	4.90	18000	55	370	4.10	17900
	DK67	60.66	27.6	725	1.05	9900	23	870	0.90	8800
		57.28	30	685	1.10	10200	25	820	0.95	9200
		48.77	34.8	590	1.35	10700	29	705	1.15	10100
		44.32	38.4	535	1.50	11000	32	640	1.25	10400
		38.39	44.4	465	1.65	11300	37	555	1.40	10900
		35.61	48	430	1.85	11400	40	515	1.55	11100
		30.21	56.4	365	2.15	11600	47	435	1.80	11300
		27.27	62.4	330	2.40	11700	52	395	2.00	11500
		23.99	70.8	290	2.60	11700	59	345	2.20	11700
		22.66	74.4	270	2.75	11700	62	325	2.30	11700
		19.29	87.6	230	3.10	11700	73	275	2.60	11700
		17.53	96	210	3.35	11700	80	250	2.80	11700
		15.19	112	185	3.70	11700	93	220	3.10	11700
		13.22	128	160	4.05	11700	107	191	3.40	11700
		12.48	136	150	3.35	11700	113	181	2.80	11700
		10.63	160	130	3.80	11700	133	154	3.20	11700
		9.66	175	115	3.95	11600	146	140	3.30	11700
		8.37	203	100	4.20	11200	169	121	3.50	11700
		7.28	233	90	4.65	10800	194	105	3.90	11400

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
2.2kw	DK57	44.43	38.4	535	1.05	7300	32	640	0.90	6300
		38.49	44.4	465	1.25	7400	37	555	1.05	7200
		35.7	46.8	430	1.35	7300	39	515	1.15	7400
		30.28	56.4	365	1.60	7200	47	435	1.35	7400
		27.34	62.4	330	1.70	7100	52	395	1.45	7300
		24.05	70.8	290	1.95	7000	59	345	1.65	7200
		22.71	74.4	270	2.10	6900	62	325	1.75	7200
		19.34	87.6	235	2.40	6700	73	280	2.00	7000
		17.57	96	210	2.50	6600	80	250	2.10	6900
		15.22	112	185	2.85	6400	93	220	2.40	6700
		13.25	127	160	3.10	6200	106	192	2.60	6500
		11.92	142	145	2.75	5900	118	173	2.30	6200
		11.26	150	135	3.00	5800	125	163	2.50	6100
	DK47	25.91	64.8	315	1.25	4700	54	375	1.05	4700
		21.81	78	265	1.50	4600	65	315	1.25	4700
		19.58	86.4	235	1.60	4600	72	280	1.35	4700
		16.86	101	200	1.80	4500	84	240	1.50	4700
		15.86	107	190	1.90	4500	89	225	1.60	4600
		13.65	124	165	2.10	4400	103	198	1.75	4600
		12.19	139	150	2.30	4300	116	177	1.95	4500
		11.77	144	140	1.90	4200	120	170	1.60	4400
		10.56	160	130	2.15	4200	133	153	1.80	4300
		9.1	186	110	2.50	4000	155	132	2.10	4200
	DK37	13.08	130	160	1.00	2200	108	190	0.85	2100
		10.49	161	125	1.20	2200	134	152	1.00	2200
		8.91	190	110	1.40	2200	158	129	1.20	2200
		7.96	212	96	1.55	2100	177	115	1.30	2200
		6.8	248	82	1.80	2100	207	98	1.50	2200
		6.37	265	77	1.85	2100	221	92	1.55	2200
		5.36	316	65	2.10	2000	263	78	1.75	2100

3.7kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
3.7kw	DK187 DR97	2519	0.67	47715	1.00	170900	0.56	57260	0.85	171000
		2268	0.76	42860	1.10	170900	0.63	51430	0.95	171000
		2054	0.83	38775	1.25	170900	0.69	46530	1.05	171000
		1821	0.94	34305	1.35	170900	0.78	41165	1.15	171000
		1605	1.06	30295	1.60	170900	0.88	36355	1.35	171000
		1395	1.2	26210	1.85	170900	1	31450	1.55	171000
		1196	1.44	22510	2.15	170900	1.2	27010	1.80	171000
		1046	1.68	19735	2.50	170900	1.4	23680	2.10	171000
		945	1.8	17810	2.80	170900	1.5	21370	2.35	171000
	DK167 DR97	1408	1.2	26670	1.10	134900	1	32005	0.95	135000
		1296	1.32	24590	1.25	134900	1.1	29510	1.05	135000
		1101	1.56	20740	1.50	134900	1.3	24885	1.25	135000
		944	1.8	17810	1.80	134900	1.5	21370	1.50	135000
		843	2.04	15805	1.95	134900	1.7	18965	1.65	135000
		757	2.28	14265	2.20	134900	1.9	17115	1.85	135000
		632	2.64	11870	2.70	134900	2.2	14245	2.25	135000
	DK157 DR97	854	2.04	16115	1.05	101900	1.7	19335	0.90	99500
		756	2.28	14185	1.25	102700	1.9	17020	1.05	100800
		567	3	10640	1.65	104000	2.5	12765	1.40	102600
		504	3.36	9485	1.85	103900	2.8	11380	1.55	103100
		434	3.96	8170	2.15	104200	3.3	9805	1.80	103600
	DK127 DR87	536	3.24	10100	1.25	72400	2.7	12120	1.05	71200
		473	3.6	8940	1.35	73200	3	10730	1.15	71900
		418	4.08	7940	1.60	73200	3.4	9530	1.35	72500
		367	4.68	6965	1.85	73600	3.9	8360	1.55	73000
		330	5.16	6260	2.00	73600	4.3	7510	1.70	73300
		287	6	5405	2.40	74000	5	6485	2.00	73600
		253	6.72	4780	2.70	74000	5.6	5735	2.25	73800
	DK127 DR77	610	2.76	11640	1.05	72000	2.3	13970	0.90	68000
		549	3.12	10485	1.20	72400	2.6	12580	1.00	70700
		477	3.6	9095	1.35	72800	3	10915	1.15	71800
		418	4.08	7940	1.60	73200	3.4	9530	1.35	72500

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
3.7kw	DK107 DR77	364	4.68	6930	1.10	58400	3.9	8315	0.95	58500
		318	5.4	6060	1.25	58400	4.5	7270	1.05	58500
		286	6	5460	1.40	58400	5	6550	1.20	58500
		251	6.84	4780	1.65	58400	5.7	5735	1.40	58500
		222	7.68	4215	1.85	58400	6.4	5060	1.55	58500
		196	8.64	3730	2.10	58400	7.2	4475	1.75	58500
		174	9.84	3310	2.15	58400	8.2	3970	1.80	58500
		154	11	2930	2.45	58400	9.2	3515	2.05	58500
		140	12	2650	2.70	58400	10	3180	2.25	58500
	DK97 DR57	199	8.52	3800	1.05	36000	7.1	4560	0.90	35900
	DK107	143.47	11.9	2975	2.70	58400	9.9	3570	2.25	58500
		121.46	14.4	2520	3.20	58400	12	3025	2.70	58500
	DK97	153.21	11.2	3075	1.30	36000	9.3	3690	1.10	36000
		140.28	12	2820	1.40	36000	10	3385	1.20	36000
		123.93	13.2	2490	1.65	36000	11	2990	1.40	36000
		105.13	16.8	2115	1.90	36000	14	2535	1.60	36000
		96.8	18	1940	2.10	36000	15	2330	1.75	36000
		86.52	19.2	1735	2.40	36000	16	2080	2.00	36000
		77.89	21.6	1565	2.70	36000	18	1880	2.25	36000
		70.54	24	1415	2.90	36000	20	1700	2.45	36000
	DK87	115.82	14.4	2330	1.10	24900	12	2795	0.95	24000
		102.71	16.8	2060	1.25	25200	14	2470	1.05	24500
		86.34	19.2	1735	1.50	25400	16	2080	1.25	24900
		79.34	21.6	1595	1.65	25500	18	1915	1.40	25100
		70.46	24	1415	1.85	25600	20	1695	1.55	25400
		63	27.6	1265	2.10	25700	23	1515	1.75	25500
		56.64	30	1135	2.40	25800	25	1360	2.00	25700
		49.16	34.8	990	2.70	25200	29	1185	2.25	25700
		44.02	38.4	880	2.90	24700	32	1055	2.45	25500
		36.52	46.8	735	3.35	23700	39	880	2.80	24600
	DK77	64.76	26.4	1295	1.10	15200	22	1555	0.95	12900
		58.34	28.8	1170	1.25	15800	24	1405	1.05	13700

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
3.7kw	DK77	51.18	33.6	1025	1.40	16300	28	1230	1.20	14900
		45.16	37.2	900	1.65	16700	31	1080	1.40	15700
		40.04	42	800	1.85	17000	35	960	1.55	16200
		38.39	44.4	770	1.90	17100	37	925	1.60	16400
		35.19	48	700	2.10	17300	40	840	1.75	16700
		30.88	55.2	615	2.40	17500	46	740	2.00	17000
		29.26	58.8	590	2.50	17500	49	705	2.10	17100
		25.61	66	515	2.90	17700	55	615	2.45	17400
	DK67	30.21	56.4	605	1.30	10600	47	725	1.10	9400
		27.27	62.4	545	1.40	10900	52	655	1.20	9900
		23.99	70.8	485	1.65	11200	59	580	1.40	10400
		22.66	75.6	455	1.65	11300	63	545	1.40	10600
		19.29	88.8	390	1.90	11600	74	465	1.60	11100
		17.53	97.2	350	2.00	11600	81	420	1.70	11300
		15.19	113	305	2.20	11700	94	365	1.85	11500
		13.22	128	265	2.50	11700	107	315	2.10	11700
		12.48	137	250	2.10	11700	114	300	1.75	11700
		10.63	161	215	2.25	11400	134	255	1.90	11700
		9.66	176	190	2.45	11200	147	230	2.05	11600
		8.37	204	165	2.55	10800	170	200	2.15	11300
		7.28	234	145	2.75	10400	195	175	2.30	10900
	DK57	24.05	70.8	485	1.20	5800	59	580	1.00	5500
		22.71	75.6	455	1.25	5800	63	545	1.05	5500
		19.34	87.6	390	1.40	5800	73	465	1.20	5600
		17.57	97.2	350	1.50	5700	81	420	1.25	5600
		15.22	112	305	1.70	5600	93	365	1.45	5600
		13.25	128	265	1.90	5500	107	320	1.60	5500
		11.92	143	240	1.70	5200	119	285	1.45	5200
		11.26	151	225	1.80	5200	126	270	1.50	5200
		9.59	178	190	2.00	5100	148	230	1.70	5100
		8.71	196	175	2.15	5000	163	210	1.80	5100
		7.55	226	150	2.40	4900	188	180	2.00	5000
		6.57	259	135	2.50	4700	216	160	2.10	4900

5.5kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
5.5kw	DK187 DR97	1821	0.95	50915	0.95	170900	0.79	61100	0.80	171000
		1605	1.07	44915	1.10	170900	0.89	53900	0.95	171000
		1395	1.2	38915	1.25	170900	1	46700	1.05	171000
		1196	1.44	33415	1.50	170900	1.2	40100	1.25	171000
		1046	1.68	29250	1.70	170900	1.4	35100	1.45	171000
		945	1.8	26415	1.90	170900	1.5	31700	1.60	171000
		738	2.28	20665	2.40	170900	1.9	24800	2.00	171000
		621	2.76	17335	2.85	170900	2.3	20800	2.40	171000
	DK167 DR97	1101	1.56	30750	1.00	134900	1.3	36900	0.85	135000
		944	1.8	26415	1.20	134900	1.5	31700	1.00	135000
		843	2.04	23500	1.35	134900	1.7	28200	1.15	135000
		757	2.28	21165	1.50	134900	1.9	25400	1.25	135000
		632	2.76	17665	1.80	134900	2.3	21200	1.50	135000
		561	3	15585	2.00	134900	2.5	18700	1.70	135000
		481	3.6	13415	2.40	134900	3	16100	2.00	135000
		423	4.08	11750	2.75	134900	3.4	14100	2.30	135000
	DK157 DR97	661	2.64	18415	0.95	101100	2.2	22100	0.80	98900
		567	3	15835	1.10	102000	2.5	19000	0.95	100400
		504	3.36	14085	1.25	102600	2.8	16900	1.05	101400
		434	3.96	12085	1.50	103300	3.3	14500	1.25	102400
		379	4.56	10585	1.65	103700	3.8	12700	1.40	103100
		333	5.16	9250	1.90	103900	4.3	11100	1.60	103500
	DK127 DR77	418	4.08	11750	1.05	71600	3.4	14100	0.90	70200
		367	4.68	10335	1.25	72400	3.9	12400	1.05	71600
		330	5.16	9250	1.35	72800	4.3	11100	1.15	72200
		287	6	8015	1.60	73200	5	9620	1.35	72800
		253	6.72	7090	1.85	73600	5.6	8510	1.55	73200
		213	8.04	5960	2.15	73600	6.7	7150	1.80	73600
		200	8.52	5615	2.15	74000	7.1	6740	1.80	73700
		166	10.3	4650	2.60	74000	8.6	5580	2.20	74000
		147	11.8	4100	2.85	74000	9.8	4920	2.40	74100
	DK107 DR77	222	7.68	6240	1.25	58400	6.4	7490	1.05	58500
		196	8.76	5535	1.40	58400	7.3	6640	1.20	58500

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
5.5kw	DK107 DR77	174	9.84	4890	1.50	58400	8.2	5870	1.25	58500
		154	11.2	4335	1.65	58400	9.3	5200	1.40	58500
		140	12	3935	1.85	58400	10	4720	1.55	58500
	DK107	143.47	12	4290	1.80	58400	10	5150	1.50	58500
		121.46	14.4	3635	2.15	58400	12	4360	1.80	58500
		112.41	15.6	3365	2.30	58400	13	4040	1.95	58500
		100.75	16.8	3015	2.60	58400	14	3620	2.20	58500
		90.96	19.2	2715	2.85	58000	16	3260	2.40	58500
		82.61	20.4	2465	3.10	56800	17	2960	2.60	58500
	DK97	123.93	14.4	3710	1.10	36000	12	4450	0.95	36000
		105.13	16.8	3140	1.30	36000	14	3770	1.10	36000
		93.8	18	2890	1.40	36000	15	3470	1.20	36000
		86.52	20.4	2590	1.60	36000	17	3110	1.35	36000
		77.89	21.6	2335	1.80	36000	18	2800	1.50	36000
		70.54	24	2110	1.95	35700	20	2530	1.65	36000
		62.55	27.6	1865	2.20	34900	23	2240	1.85	36000
		56.55	30	1690	2.50	34300	25	2030	2.10	35700
		47.93	36	1435	2.85	33200	30	1720	2.40	34700
	DK87	86.34	20.4	2585	1.00	24600	17	3100	0.85	23900
		79.34	21.6	2375	1.10	24600	18	2850	0.95	24300
		70.46	24	2110	1.25	24400	20	2530	1.05	24700
		63	27.6	1885	1.35	24100	23	2260	1.15	24800
		56.64	30	1690	1.55	23800	25	2030	1.30	24600
		49.16	34.8	1465	1.80	23400	29	1760	1.50	24200
		44.02	38.4	1315	1.90	23000	32	1580	1.60	23900
		36.52	46.8	1090	2.20	22400	39	1310	1.85	23200
		31.38	55.2	935	2.75	21700	46	1120	2.30	22700
		27.87	61.2	835	3.00	21200	51	1000	2.50	22200
	DK77	45.16	38.4	1350	1.10	14900	32	1620	0.95	13300
		40.04	43.2	1190	1.25	15600	36	1430	1.05	14300
		30.88	55.2	925	1.60	16700	46	1110	1.35	16000
		29.26	58.8	875	1.70	16800	49	1050	1.45	16200
		25.61	67.2	765	1.95	17100	56	920	1.65	16700
		23.08	74.4	685	2.20	17300	62	820	1.85	16900

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
5.5kw	DK77	20.24	85.2	605	2.40	17400	71	725	2.00	17200
		17.86	96	535	2.60	16900	80	640	2.20	17500
		15.84	108	470	2.85	16500	90	565	2.40	17300
		13.52	127	405	3.20	15900	106	485	2.70	16700
		12.33	139	365	2.60	15400	116	440	2.20	16100
		10.81	158	320	3.00	14900	132	385	2.50	15700
	DK67	23.99	72	715	1.05	10000	60	860	0.90	8900
		22.66	75.6	675	1.10	10200	63	810	0.95	9200
		19.29	88.8	575	1.25	10800	74	690	1.05	10100
		17.53	98.4	525	1.35	11000	82	630	1.15	10400
		15.19	113	455	1.50	11300	94	545	1.25	10900
		13.22	130	395	1.65	11500	108	475	1.40	11300
		12.48	138	370	1.35	11000	115	445	1.15	11300
		10.63	162	315	1.55	10800	135	380	1.30	11200
		9.66	178	290	1.60	10600	148	345	1.35	11000
		8.37	205	250	1.70	10300	171	300	1.45	10700
		7.28	235	215	1.85	10000	196	260	1.55	10400
	DK57	13.25	130	405	1.25	4700	108	485	1.05	4400
		11.92	144	365	1.10	4400	120	440	0.95	3900
		11.26	152	345	1.20	4400	127	415	1.00	4000
		9.59	179	290	1.35	4400	149	350	1.15	4000
		8.71	197	265	1.40	4400	164	320	1.20	4000
		7.55	228	230	1.55	4400	190	275	1.30	4000
		6.57	262	200	1.70	4300	218	240	1.45	4000

7.5kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
7.5kw	DK187 DR107	835	2.04	31835	1.55	170800	1.7	38200	1.30	171000
		729	2.4	27750	1.80	170800	2	33300	1.50	171000
		622	2.76	23665	2.10	170800	2.3	28400	1.75	171000
	DK187 DR97	1196	1.44	45835	1.05	170800	1.2	55000	0.90	171000
		1046	1.68	40000	1.25	170800	1.4	48000	1.05	171000

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
7.5kw	DK187 DR97	945	1.8	36165	1.35	170800	1.5	43400	1.15	171000
		738	2.28	28250	1.70	170800	1.9	33900	1.45	171000
		621	2.76	23750	2.10	170800	2.3	28500	1.75	171000
		527	3.24	20085	2.50	170800	2.7	24100	2.10	171000
	DK167 DR97	843	2.04	32250	1.00	134900	1.7	38700	0.85	135000
		757	2.28	28915	1.05	134900	1.9	34700	0.90	135000
		632	2.76	24165	1.30	134900	2.3	29000	1.10	135000
		561	3	21415	1.50	134900	2.5	25700	1.25	135000
		481	3.6	18415	1.70	134900	3	22100	1.45	135000
		423	4.08	16165	1.95	134900	3.4	19400	1.65	135000
		369	4.68	14085	2.25	134900	3.9	16900	1.90	135000
	DK157 DR97	434	3.96	16585	1.05	101800	3.3	19900	0.90	100100
		379	4.56	14500	1.25	102500	3.8	17400	1.05	101300
		333	5.16	12750	1.40	103100	4.3	15300	1.20	102200
		291	5.88	11085	1.60	103500	4.9	13300	1.35	102800
	DK127 DR87	330	5.16	12665	1.00	71600	4.3	15200	0.85	67800
		287	6	11000	1.20	72400	5	13200	1.00	71200
		253	6.72	9665	1.30	72800	5.6	11600	1.10	71900
		213	8.04	8160	1.60	73200	6.7	9790	1.35	72700
		200	8.52	7685	1.55	73200	7.1	9220	1.30	72800
		166	10.3	6365	1.85	73600	8.6	7640	1.55	73400
	DK127	147	11.8	5615	2.15	74000	9.8	6740	1.80	73600
		146.3	11.8	5935	2.15	73600	9.8	7120	1.80	73500
		136.35	13.2	5535	2.25	74000	11	6640	1.90	73600
		122.67	14.4	4975	2.50	74000	12	5970	2.10	73800
		110.35	15.6	4475	2.85	74000	13	5370	2.40	74000
		90.03	19.2	3650	3.45	74400	16	4380	2.90	74200
		82.11	20.4	3325	3.80	74400	17	3990	3.20	74300
		71.06	24	2885	4.40	74400	20	3460	3.70	74300
	DK107	143.47	12	5825	1.30	58400	10	6990	1.10	58500
		121.46	14.4	4935	1.55	58400	12	5920	1.30	58500
		112.41	15.6	4565	1.65	57600	13	5480	1.40	58500
		100.75	16.8	4090	1.90	56800	14	4910	1.60	58500
		90.96	19.2	3690	2.10	55600	16	4430	1.75	57600

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
7.5kw	DK107	82.61	20.4	3360	2.30	54800	17	4030	1.95	56700
		73.3	24	2975	2.60	53600	20	3570	2.20	55700
		66.52	26.4	2700	2.85	52400	22	3240	2.40	54800
		57.17	30	2315	3.35	50800	25	2780	2.80	53200
		49.9	34.8	2025	3.70	49200	29	2430	3.10	51800
		42.33	40.8	1715	4.20	47600	34	2060	3.50	50000
		37	46.8	1500	4.65	46000	39	1800	3.90	48400
	DK97	96.8	18	3935	1.05	34400	15	4720	0.90	34500
		86.52	20.4	3515	1.20	34100	17	4220	1.00	34500
		77.89	21.6	3165	1.30	33800	18	3800	1.10	34300
		70.54	24	2865	1.40	33400	20	3440	1.20	34100
		62.55	27.6	2540	1.60	33000	23	3050	1.35	33800
		56.55	30	2290	1.85	32500	25	2750	1.55	33400
		47.93	36	1940	2.20	31600	30	2330	1.85	32800
		41.87	40.8	1700	2.50	30900	34	2040	2.10	32000
		38.29	44.4	1550	2.75	30400	37	1860	2.30	31600
		34.22	50.4	1385	3.10	29800	42	1660	2.60	31000
	DK87	63	27.6	2560	1.00	21800	23	3070	0.85	21700
		56.64	30	2300	1.10	21800	25	2760	0.95	21800
		49.16	34.8	1990	1.30	21600	29	2390	1.10	21800
		44.02	38.4	1785	1.40	21400	32	2140	1.20	21800
		36.52	46.8	1485	1.60	21000	39	1780	1.35	21500
		31.38	55.2	1275	2.00	20600	46	1530	1.70	21200
		27.87	61.2	1125	2.20	20200	51	1350	1.85	20900
		24.92	68.4	1010	2.40	19800	57	1210	2.00	20500
		22.4	76.8	910	2.45	19500	64	1090	2.05	20300
		19.45	88.8	785	2.85	19000	74	940	2.40	19700
		17.41	98.4	700	3.00	18500	82	840	2.50	19400
		16	107	650	2.60	17800	89	780	2.20	18500
		14.44	119	585	3.45	17800	99	700	2.90	18600
	DK77	30.88	55.2	1250	1.20	15500	46	1500	1.00	13900
		29.26	58.8	1185	1.25	15800	49	1420	1.05	14400
		25.61	67.2	1035	1.40	16400	56	1240	1.20	15300
		23.08	74.4	935	1.60	16700	62	1120	1.35	15900

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
7.5kw	DK77	20.24	85.2	815	1.80	16500	71	980	1.50	16500
		17.86	96	725	1.90	16200	80	870	1.60	16700
		15.84	108	640	2.10	15800	90	770	1.75	16400
		13.52	127	545	2.40	15400	106	655	2.00	16000
		12.33	139	500	1.90	14800	116	600	1.60	15300
		10.81	158	440	2.15	14400	132	525	1.80	15000
		9.54	180	390	2.30	14000	150	465	1.95	14700
		8.46	203	340	2.55	13700	169	410	2.13	14300
		7.22	238	290	2.75	13200	198	350	2.30	13900

11kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
11kw	DK187 DR107	835	2.04	46585	1.05	170800	1.7	55900	0.90	171000
		729	2.4	40665	1.25	170800	2	48800	1.05	171000
		622	2.76	34665	1.40	170800	2.3	41600	1.20	171000
		520	3.36	29000	1.70	170800	2.8	34800	1.45	171000
		454	3.84	25335	1.95	170800	3.2	30400	1.65	171000
		355	4.92	19835	2.50	170800	4.1	23800	2.10	171000
	DK187 DR97	738	2.4	41335	1.20	170800	2	49600	1.00	171000
		621	2.76	34750	1.40	170800	2.3	41700	1.20	171000
		527	3.24	29415	1.65	170800	2.7	35300	1.40	171000
	DK167 DR107	318	5.4	17750	1.80	134800	4.5	21300	1.50	135000
		278	6.24	15500	2.00	134800	5.2	18600	1.70	135000
		244	7.08	13585	2.30	134800	5.9	16300	1.95	135000
		213	8.16	11835	2.60	134800	6.8	14200	2.20	135000
		206	8.4	11415	2.75	134800	7	13700	2.30	135000
	DK167 DR97	561	3.12	31250	1.00	134800	2.6	37500	0.85	135000
		481	3.6	26915	1.20	134800	3	32300	1.00	135000
		423	4.08	23585	1.35	134800	3.4	28300	1.15	135000
		369	4.68	20585	1.55	134800	3.9	24700	1.30	135000
	DK157 DR97	333	5.16	18585	0.95	100900	4.3	22300	0.80	98700
		291	5.88	16250	1.05	101900	4.9	19500	0.90	100300

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
11kw	DK127 DR87	213	8.16	11915	1.05	71600	6.8	14300	0.90	69500
		200	8.64	11250	1.05	72000	7.2	13500	0.90	70700
		166	10.4	9335	1.30	72800	8.7	11200	1.10	72100
		147	11.8	8210	1.40	73200	9.8	9850	1.20	72600
	DK167	164.5	10.6	9750	3.20	134800	8.8	11700	2.70	135000
		134.99	13.2	8015	3.80	134800	11	9620	3.20	135000
	DK157	150.41	11.5	8915	1.95	103900	9.6	10700	1.65	103500
		122.39	14.4	7265	2.40	104300	12	8720	2.00	104000
		100.22	16.8	5950	3.00	103400	14	7140	2.50	104300
		91.65	19.2	5440	3.20	101400	16	6530	2.70	104400
	DK127	136.35	13.2	8085	1.55	73200	11	9700	1.30	72600
		122.67	14.4	7275	1.70	73600	12	8730	1.45	73000
		110.35	15.6	6540	1.90	73600	13	7850	1.60	73300
		90.03	19.2	5340	2.40	74000	16	6410	2.00	73700
		82.11	21.6	4865	2.60	74000	18	5840	2.20	73900
	DK107	71.06	24	4210	3.00	74000	20	5050	2.50	74100
		112.41	15.6	6675	1.20	52000	13	8010	1.00	52600
		100.75	16.8	5985	1.30	51600	14	7180	1.10	52500
		90.96	19.2	5400	1.40	50800	16	6480	1.20	52200
		82.61	20.4	4910	1.60	50400	17	5890	1.35	51800
		73.3	24	4350	1.80	49600	20	5220	1.50	51200
		66.52	26.4	3950	1.95	48800	22	4740	1.65	50600
		57.17	30	3390	2.25	47600	25	4070	1.90	49600
		49.9	34.8	2960	2.60	46800	29	3550	2.20	48600
		42.33	40.8	2510	2.85	45200	34	3010	2.40	47300
		37	46.8	2190	3.20	44000	39	2630	2.70	46100
		70.54	24	4190	1.00	29000	20	5030	0.85	29000
	DK97	62.55	27.6	3715	1.10	29000	23	4460	0.95	29300
		56.55	30	3360	1.25	29000	25	4030	1.05	29300
		47.93	36	2840	1.50	28600	30	3410	1.25	29300
		41.87	40.8	2485	1.65	28300	34	2980	1.40	29000
		38.29	45.6	2275	1.85	28000	38	2730	1.55	28800

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
11kw	DK97	34.22	50.4	2035	2.00	27600	42	2440	1.70	28400
		30.81	56.4	1825	2.25	27200	47	2190	1.90	28200
		27.9	62.4	1650	2.50	26800	52	1980	2.10	27700
		24.74	69.6	1465	2.85	26200	58	1760	2.40	27300
		22.37	76.8	1325	3.10	25800	64	1590	2.60	26800
	DK87	44.02	39.6	2610	0.95	18200	33	3130	0.80	18000
		36.52	46.8	2165	1.10	18400	39	2600	0.95	18400
		31.38	55.2	1860	1.40	18300	46	2230	1.20	18500
		27.87	62.4	1650	1.55	18200	52	1980	1.30	18500
		24.92	69.6	1475	1.65	18000	58	1770	1.40	18500
		22.4	76.8	1325	1.65	17800	64	1590	1.40	18300
		19.45	88.8	1150	1.90	17600	74	1380	1.60	18100
		17.41	99.6	1035	2.10	17300	83	1240	1.75	17800
		16	108	950	1.85	16400	90	1140	1.55	16900
		14.44	120	860	2.40	16800	100	1030	2.00	17500
		12.56	138	740	2.60	16400	115	890	2.20	17000
		11.16	155	665	2.20	15600	129	795	1.85	16200
		10	173	590	2.50	15300	144	710	2.10	15900
		8.29	209	490	2.75	14700	174	590	2.30	15400
		7.21	240	425	3.00	14300	200	510	2.50	15000
	DK77	23.08	74.4	1365	1.05	14800	62	1640	0.90	13200
		20.24	85.2	1200	1.20	14800	71	1440	1.00	14300
		17.86	97.2	1060	1.30	14600	81	1270	1.10	14900
		15.84	109	935	1.40	14500	91	1120	1.20	14900
		13.52	128	800	1.60	14200	107	960	1.35	14700
		12.33	140	735	1.30	13600	117	880	1.10	14000
		10.81	160	640	1.50	13400	133	770	1.25	13800
		9.54	181	565	1.60	13100	151	680	1.35	13600
		8.46	204	500	1.70	12900	170	600	1.45	13300
		7.22	239	430	1.85	12500	199	515	1.55	13100

15kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
15kw	DK187 DR107	622	2.76	46750	1.05	170800	2.3	56100	0.90	171000
		520	3.36	39165	1.25	170800	2.8	47000	1.05	171000
		454	3.84	34165	1.40	170800	3.2	41000	1.20	171000
		355	4.92	26750	1.85	170800	4.1	32100	1.55	171000
		261	6.72	19665	2.50	170800	5.6	23600	2.10	171000
	DK167 DR107	318	5.52	23915	1.30	134800	4.6	28700	1.10	135000
		278	6.36	20835	1.55	134800	5.3	25000	1.30	135000
		244	7.2	18335	1.70	134800	6	22000	1.45	135000
		213	8.16	16000	1.95	134800	6.8	19200	1.65	135000
		206	8.52	15415	2.10	134800	7.1	18500	1.75	135000
		180	9.72	13500	2.30	134800	8.1	16200	1.95	135000
	DK157 DR107	230	7.56	17250	1.00	101400	6.3	20700	0.85	99700
		213	8.28	16000	1.10	101800	6.9	19200	0.95	100400
		187	9.36	14000	1.25	102600	7.8	16800	1.05	101500
		157	11.2	11835	1.50	103300	9.3	14200	1.25	102500
	DK167	164.5	10.7	13250	2.40	134800	8.9	15900	2.00	135000
		134.99	13.2	10915	2.85	134800	11	13100	2.40	135000
	DK157	150.41	11.6	12165	1.40	103100	9.7	14600	1.20	102300
		122.39	14.4	9835	1.80	102800	12	11800	1.50	103200
		100.22	18	8110	2.20	99200	15	9730	1.85	102800
		91.65	19.2	7415	2.40	97500	16	8900	2.00	101300
	DK127	136.35	13.2	11000	1.10	72000	11	13200	0.95	71100
		122.67	14.4	9915	1.30	72400	12	11900	1.10	71700
		110.35	15.6	8915	1.40	72800	13	10700	1.20	72300
		90.03	19.2	7275	1.70	73600	16	8730	1.45	73100
		82.11	21.6	6700	1.90	72800	18	8040	1.60	73300
		71.06	25.2	5800	2.20	71200	21	6960	1.85	73400
		62.70	27.6	5115	2.50	69600	23	6140	2.10	72000
		54.15	32.4	4415	3.00	67600	27	5300	2.50	70200
		47.90	37.2	3910	3.35	66000	31	4690	2.80	68600
	DK107	90.96	19.2	7360	1.05	45200	16	8830	0.90	45800
		82.61	21.6	6685	1.20	46000	18	8020	1.00	46000

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
15kw	DK107	73.3	24	5935	1.30	45600	20	7120	1.10	46100
		66.52	26.4	5385	1.50	45600	22	6460	1.25	45900
		57.17	31.2	4625	1.70	44800	26	5550	1.45	45500
		49.9	34.8	4035	1.90	44000	29	4840	1.60	45000
		42.33	40.8	3425	2.10	42800	34	4110	1.75	44200
		37	46.8	2990	2.40	42000	39	3590	2.00	43400
		32.68	54	2640	2.60	41200	45	3170	2.20	42600
		31.28	56.4	2525	2.60	40800	47	3030	2.20	42300
		29	60	2340	3.00	40400	50	2810	2.50	41800
	DK97	47.93	36	3875	1.05	25600	30	4650	0.90	25300
		41.87	42	3385	1.25	25700	35	4060	1.05	25600
		38.29	45.6	3100	1.35	25600	38	3720	1.15	25700
		34.22	51.6	2765	1.55	25400	43	3320	1.30	25700
		30.81	56.4	2490	1.65	25200	47	2990	1.40	25600
		27.9	62.4	2285	1.85	25000	52	2740	1.55	25500
		24.74	70.8	2025	2.10	24700	59	2430	1.75	25200
		22.37	78	1825	2.30	24400	65	2190	1.95	24900
		18.96	92.4	1550	2.75	23800	77	1860	2.30	24500
		16.56	106	1350	3.20	23200	88	1620	2.70	23900
	DK87	31.38	56.4	2535	1.05	16000	47	3040	0.90	15600
		27.87	62.4	2250	1.10	16200	52	2700	0.95	15800
		24.92	70.8	2015	1.20	16200	59	2420	1.00	16000
		22.4	78	1810	1.25	16200	65	2170	1.05	16200
		19.45	90	1565	1.40	16100	75	1880	1.20	16200
		17.41	101	1410	1.55	16000	84	1690	1.30	16200
		16	109	1290	1.35	15100	91	1550	1.15	15100
		14.44	121	1165	1.80	15700	101	1400	1.50	16000
		12.56	139	1015	1.90	15400	116	1220	1.60	15800
		11.16	157	900	1.60	14600	131	1080	1.35	14900
		10	175	810	1.85	14400	146	970	1.55	14800
		8.29	211	675	2.00	14000	176	810	1.70	14400
		7.21	242	590	2.20	13700	202	705	1.85	14100

18.5kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
18.5kw	DK187 DR107	520	3.36	48165	1.00	170800	2.8	57800	0.85	171000
		454	3.84	42000	1.20	170800	3.2	50400	1.00	171000
		355	4.92	32915	1.50	170800	4.1	39500	1.25	171000
		261	6.72	24165	2.00	170800	5.6	29000	1.70	171000
		221	7.92	20500	2.40	170800	6.6	24600	2.00	171000
	DK167 DR107	318	5.52	29415	1.05	134800	4.6	35300	0.90	135000
		278	6.36	25665	1.25	134800	5.3	30800	1.05	135000
		244	7.2	22585	1.40	134800	6	27100	1.20	135000
		213	8.28	19665	1.60	134800	6.9	23600	1.35	135000
		206	8.52	19000	1.65	134800	7.1	22800	1.40	135000
		180	9.72	16665	1.90	134800	8.1	20000	1.60	135000
		160	11	14750	2.15	134800	9.2	17700	1.80	135000
		135	13.2	12500	2.50	134800	11	15000	2.10	135000
		118	14.4	10915	2.85	134800	12	13100	2.40	135000
	DK157 DR107	187	9.36	17250	1.00	101400	7.8	20700	0.85	99600
		157	11.2	14500	1.25	102400	9.3	17400	1.05	101200
		122	14.4	11335	1.60	100000	12	13600	1.35	102500
		107	16.8	9915	1.80	98000	14	11900	1.50	100800
	DK187	179.86	9.72	17835	2.75	170800	8.1	21400	2.30	171000
		165.21	10.7	16415	3.00	170800	8.9	19700	2.50	171000
		144.59	12	14335	3.45	170800	10	17200	2.90	171000
		129.69	13.2	12915	3.80	170800	11	15500	3.20	171000
	DK167	134.99	13.2	13415	2.30	134800	11	16100	1.95	135000
		109.83	15.6	10915	2.85	134800	13	13100	2.40	135000
		87.86	20.4	8750	3.60	134800	17	10500	3.00	135000
	DK157	122.39	14.4	12165	1.40	98200	12	14600	1.20	100400
		100.22	18	9915	1.80	95400	15	11900	1.50	98200
		91.65	19.2	9085	1.95	94100	16	10900	1.65	97000
		79.75	21.6	7940	2.20	91800	18	9530	1.85	95000
		70.38	25.2	7010	2.50	89700	21	8410	2.10	93100
	DK127	110.35	15.6	10915	1.20	70800	13	13100	1.00	71100
		90.03	19.2	8915	1.40	69600	16	10700	1.20	71100
		82.11	21.6	8160	1.55	69200	18	9790	1.30	70700

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
18.5kw	DK127	71.06	25.2	7065	1.80	68000	21	8480	1.50	69800
		62.7	27.6	6235	2.00	66800	23	7480	1.70	68800
		54.15	32.4	5385	2.40	65200	27	6460	2.00	67300
		47.9	37.2	4760	2.60	63600	31	5710	2.20	66100
		40.25	43.2	4000	3.20	61600	36	4800	2.70	64200
		36.3	48	3610	3.60	60400	40	4330	3.00	62900
		31.41	56.4	3115	4.05	58400	47	3740	3.40	61200
	DK107	73.3	24	7300	1.05	40400	20	8760	0.90	41700
		66.52	26.4	6625	1.20	41200	22	7950	1.00	41900
		57.17	31.2	5690	1.35	41600	26	6830	1.15	42100
		49.9	34.8	4965	1.55	41200	29	5960	1.30	42000
		42.33	42	4210	1.70	40800	35	5050	1.45	41700
		37	48	3685	1.90	40000	40	4420	1.60	41100
		32.68	54	3250	2.20	39400	45	3900	1.85	40600
		31.28	56.4	3110	2.15	39200	47	3730	1.80	40400
		29	61.2	2885	2.50	38700	51	3460	2.10	40000
		26.32	67.2	2615	2.75	38100	56	3140	2.30	39400
		22.62	78	2250	3.10	37000	65	2700	2.60	38400
		19.74	88.8	1960	3.60	36100	74	2350	3.00	37500
	DK97	41.87	42	4165	1.00	23000	35	5000	0.85	22600
		30.81	57.6	3065	1.35	23300	48	3680	1.15	23400
		27.9	63.6	2775	1.55	23300	53	3330	1.30	23400
		24.74	70.8	2460	1.70	23100	59	2950	1.45	23400
		22.37	78	2225	1.90	23000	65	2670	1.60	23300
		18.96	92.4	1885	2.25	22600	77	2260	1.90	23100
		16.56	106	1640	2.60	22200	88	1970	2.20	22800
		13.85	127	1375	3.10	21600	106	1650	2.60	22300
		11.99	146	1190	3.20	21100	122	1430	2.70	21900
	DK87	24.92	70.8	2475	1.00	14400	59	2970	0.85	14000
		22.4	78	2225	1.00	14600	65	2670	0.85	14300
		19.45	90	1935	1.20	14700	75	2320	1.00	14600
		17.41	101	1735	1.25	14800	84	2080	1.05	14800
		14.45	121	1435	1.40	14700	101	1720	1.20	14900
		12.56	140	1250	1.55	14500	117	1500	1.30	14800

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
18.5kw	DK87	11.16	157	1110	1.30	13700	131	1330	1.10	13900
		10	176	990	1.50	13600	147	1190	1.25	13800
		8.29	212	825	1.65	13300	177	990	1.40	13600
		7.21	244	715	1.80	13100	203	860	1.50	13400

22kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
22kw	DK187 DR107	454	3.84	50000	1.00	170800	3.2	60000	0.85	171000
		355	4.92	39165	1.25	170800	4.1	47000	1.05	171000
		261	6.72	28750	1.70	170800	5.6	34500	1.45	171000
		221	7.92	24415	2.00	170800	6.6	29300	1.70	171000
		193	9.12	21335	2.30	170800	7.6	25600	1.95	171000
		163	10.7	18000	2.75	170800	8.9	21600	2.30	171000
	DK167 DR107	278	6.36	30585	1.00	134900	5.3	36700	0.85	135000
		244	7.2	26835	1.20	134900	6	32200	1.00	135000
		213	8.28	23500	1.35	134900	6.9	28200	1.15	135000
		206	8.52	22665	1.40	134900	7.1	27200	1.20	135000
		180	9.72	19835	1.60	134900	8.1	23800	1.35	135000
		160	11	17585	1.80	134900	9.2	21100	1.50	135000
		135	13.2	14915	2.15	134900	11	17900	1.80	135000
		118	14.4	13000	2.40	134900	12	15600	2.00	135000
	DK157 DR107	157	11.2	17335	1.00	97900	9.3	20800	0.85	98500
		122	14.4	13500	1.30	95700	12	16200	1.10	97300
		107	16.8	11750	1.50	94300	14	14100	1.25	96300
	DK187	179.86	9.72	21500	2.30	170800	8.1	25800	1.95	171000
		165.21	10.7	19750	2.50	170800	8.9	23700	2.10	171000
		144.59	12	17250	2.85	170800	10	20700	2.40	171000
	DK167	134.99	13.2	15915	1.95	134800	11	19100	1.65	135000
		109.83	15.6	13000	2.40	134800	13	15600	2.00	135000
		87.86	20.4	10335	3.00	134800	17	12400	2.50	135000
		78.14	22.8	9250	3.45	134800	19	11100	2.90	135000

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
22kw	DK157	122.39	14.4	14500	1.25	93700	12	17400	1.05	95000
		100.22	18	11835	1.50	91700	15	14200	1.25	93700
		91.65	19.2	10835	1.60	90700	16	13000	1.35	92900
		79.75	21.6	9415	1.85	88900	18	11300	1.55	91400
		70.38	25.2	8335	2.15	87100	21	10000	1.80	89800
		61.02	28.8	7225	2.50	84900	24	8670	2.10	87900
	DK127	90.03	19.2	10585	1.20	65600	16	12700	1.00	66500
		82.11	21.6	9665	1.30	65600	18	11600	1.10	66400
		71.06	25.2	8335	1.55	64800	21	10000	1.30	66100
		62.7	27.6	7415	1.70	64000	23	8900	1.45	65500
		54.15	32.4	6410	2.00	62800	27	7690	1.70	64500
		47.9	37.2	5665	2.25	61600	31	6800	1.90	63600
		40.25	43.2	4760	2.75	60000	36	5710	2.30	62100
		36.3	48	4290	3.00	58800	40	5150	2.50	61000
		31.41	56.4	3715	3.45	57200	47	4460	2.90	59600
		27.72	63.6	3275	3.95	55600	53	3930	3.30	58100
		23.94	73.2	2825	4.55	54000	61	3390	3.80	56500
		21.17	82.8	2500	5.15	52800	69	3000	4.30	55100
	DK107	57.17	31.2	6775	1.20	37400	26	8130	1.00	38700
		49.9	34.8	5910	1.30	38300	29	7090	1.10	39000
		42.33	42	5015	1.40	38500	35	6020	1.20	39100
		37	48	4385	1.60	38200	40	5260	1.35	38900
		32.69	54	3865	1.85	37700	45	4640	1.55	38600
		31.28	56.4	3700	1.80	37500	47	4440	1.50	38500
		29	61.2	3435	2.10	37200	51	4120	1.75	38300
		26.32	67.2	3115	2.25	36700	56	3740	1.90	37800
		22.62	78	2675	2.60	35800	65	3210	2.20	37100
		19.74	88.8	2335	3.00	35000	74	2800	2.50	36400
		16.75	106	2000	3.45	34000	88	2400	2.90	35400
		14.63	120	1735	3.95	33100	100	2080	3.30	34600
		13.43	131	1590	2.60	31800	109	1910	2.20	33100
		11.73	150	1385	3.10	31000	125	1660	2.60	32300
		9.94	176	1175	3.45	29900	147	1410	2.90	31300

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
22kw	DK97	30.82	57.6	3650	1.10	21400	48	4380	0.95	21200
		27.91	63.6	3300	1.25	21500	53	3960	1.05	21400
		24.75	70.8	2925	1.40	21600	59	3510	1.20	21700
		22.37	78	2650	1.60	21600	65	3180	1.35	21800
		18.96	92.4	2240	1.90	21400	77	2690	1.60	21700
		16.56	106	1960	2.15	21200	88	2350	1.80	21600
		13.85	127	1635	2.60	20700	106	1960	2.20	21300
		11.99	146	1415	2.75	20300	122	1700	2.30	21000
		10.41	169	1235	2.25	19100	141	1480	1.90	19600
	DK87	8.71	202	1025	2.50	18600	168	1230	2.10	19200
		19.45	90	2300	0.95	13300	75	2760	0.80	13000
		17.41	101	2060	1.05	13500	84	2470	0.90	13300
		14.44	121	1710	1.20	13600	101	2050	1.00	13600
		12.56	140	1485	1.30	13600	117	1780	1.10	13800
		11.16	157	1315	1.10	12700	131	1580	0.95	12800
		10	176	1185	1.25	12700	147	1420	1.05	12800
		8.29	212	975	1.40	12600	177	1170	1.20	12900
		7.21	244	850	1.50	12500	203	1020	1.25	12800

30kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
30kw	DK187 DR107	261	6.72	39165	1.25	170800	5.6	47000	1.05	171000
		221	7.92	33165	1.50	170800	6.6	39800	1.25	171000
		193	9.12	29000	1.70	170800	7.6	34800	1.45	171000
		163	10.8	24500	2.00	170800	9	29400	1.70	171000
	DK167 DR107	213	8.28	31915	1.00	134800	6.9	38300	0.85	135000
		206	8.52	30835	1.00	134800	7.1	37000	0.85	135000
		180	9.72	27000	1.20	134800	8.1	32400	1.00	135000
		160	11	23915	1.30	134800	9.2	28700	1.10	135000
		135	13.2	20335	1.55	134800	11	24400	1.30	135000
		118	14.4	17750	1.80	134800	12	21300	1.50	135000

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
30kw	DK187	179.86	9.84	29000	1.70	170800	8.2	34800	1.45	171000
		165.21	10.7	26585	1.85	170800	8.9	31900	1.55	171000
		144.59	12	23250	2.10	170800	10	27900	1.75	171000
		129.69	13.2	20915	2.40	170800	11	25100	2.00	171000
		112.6	15.6	18085	2.75	170800	13	21700	2.30	171000
		102.16	16.8	16415	3.00	170800	14	19700	2.50	171000
		88	20.4	14165	3.45	170200	17	17000	2.90	171000
	DK167	109.83	15.6	17665	1.80	134800	13	21200	1.50	135000
		87.86	20.4	14165	2.20	134800	17	17000	1.85	135000
		78.14	22.8	12585	2.50	134800	19	15100	2.10	135000
		68.07	26.4	10915	2.85	134800	22	13100	2.40	135000
		60.74	28.8	9750	3.20	134800	24	11700	2.70	135000
	DK157	100.22	18	16165	1.05	83300	15	19400	0.90	83400
		91.65	19.2	14750	1.20	82900	16	17700	1.00	83500
		79.75	21.6	12835	1.35	82100	18	15400	1.15	83200
		70.38	25.2	11335	1.55	81100	21	13600	1.30	82600
		61.02	28.8	9835	1.80	79800	24	11800	1.50	81600
		54.29	32.4	8750	2.00	78500	27	10500	1.70	80600
		46.79	37.2	7540	2.30	76700	31	9050	1.95	79000
		38.02	46.8	6125	2.85	73900	39	7350	2.40	76600
	DK127	71.06	25.2	11415	1.10	58400	21	13700	0.95	57800
		62.7	27.6	10085	1.25	58400	23	12100	1.05	58100
		54.15	32.4	8665	1.50	58000	27	10400	1.25	58200
		47.9	37.2	7710	1.65	57200	31	9250	1.40	58000
		40.25	44.4	6475	1.95	56400	37	7770	1.65	57300
		36.3	49.2	5840	2.20	55600	41	7010	1.85	56800
		31.41	56.4	5060	2.50	54400	47	6070	2.10	55800
		27.72	63.6	4460	2.85	53200	53	5350	2.40	54900
		23.94	74.4	3850	3.35	52000	62	4620	2.80	53600
	DK107	42.33	42	6825	1.05	32000	35	8190	0.90	29300
		37	48	5965	1.20	33200	40	7160	1.00	31300
		31.28	56.4	5040	1.30	34000	47	6050	1.10	32900
		29	61.2	4675	1.50	34100	51	5610	1.25	34200
		26.32	67.2	4240	1.65	33900	56	5090	1.40	34200

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
30kw	DK107	22.62	78	3640	1.95	33500	65	4370	1.65	33900
		19.74	88.8	3185	2.20	33000	74	3820	1.85	33700
		16.75	106	2700	2.60	32200	88	3240	2.20	33000
		14.63	120	2360	2.85	31600	100	2830	2.40	32500
		13.43	131	2160	1.95	30200	109	2590	1.65	31000
		11.73	150	1885	2.25	29500	125	2260	1.90	30400
		9.94	178	1600	2.60	28700	148	1920	2.20	29700
		8.69	203	1400	2.85	28000	169	1680	2.40	29000
	DK97	24.75	70.8	3985	1.05	18500	59	4780	0.90	17600
		22.37	79.2	3600	1.20	18800	66	4320	1.00	18100
		18.96	93.6	3050	1.35	19000	78	3660	1.15	18600
		16.56	107	2665	1.60	19100	89	3200	1.35	18900
		13.85	127	2235	1.90	19000	106	2680	1.60	19100
		11.99	148	1935	1.95	18800	123	2320	1.65	19000
		10.41	169	1675	1.65	17500	141	2010	1.40	17600
		8.71	203	1400	1.85	17300	169	1680	1.55	17500

37kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
37kw	DK187 DR107	261	6.72	48335	1.00	170800	5.6	58000	0.85	171000
		221	7.92	41000	1.20	170800	6.6	49200	1.00	171000
		193	9.12	35835	1.35	170800	7.6	43000	1.15	171000
		163	10.8	30250	1.65	170800	9	36300	1.40	171000
	DK167 DR107	180	9.72	33335	0.95	134800	8.1	40000	0.80	135000
		160	11	29585	1.05	134800	9.2	35500	0.90	135000
		135	13.2	25085	1.25	134800	11	30100	1.05	135000
		118	14.4	21915	1.40	134800	12	26300	1.20	135000
	DK187	179.86	9.84	35665	1.35	170800	8.2	42800	1.15	171000
		165.21	10.7	32750	1.50	170800	8.9	39300	1.25	171000
		144.59	12	28665	1.70	170800	10	34400	1.45	171000
		129.69	13.2	25750	1.90	170800	11	30900	1.60	171000
		112.6	15.6	22335	2.20	170800	13	26800	1.85	171000

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
37kw	DK187	102.16	16.8	20250	2.40	170400	14	24300	2.00	171000
		88	20.4	17415	2.85	165600	17	20900	2.40	171000
	DK167	109.83	15.6	21750	1.40	134800	13	26100	1.20	135000
		87.86	20.4	17415	1.80	134800	17	20900	1.50	135000
		78.14	22.8	15500	2.00	134800	19	18600	1.70	135000
		68.07	26.4	13500	2.30	134800	22	16200	1.95	135000
		60.74	28.8	12000	2.60	134200	24	14400	2.20	135000
		51.77	33.6	10250	3.10	129900	28	12300	2.60	135000
	DK157	91.65	19.2	18165	0.95	76200	16	21800	0.80	75200
		79.75	21.6	15835	1.10	76200	18	19000	0.95	76100
		70.38	25.2	13915	1.25	75900	21	16700	1.05	76300
		61.02	28.8	12085	1.50	75300	24	14500	1.25	76100
		54.29	32.4	10750	1.65	74500	27	12900	1.40	75700
		46.79	37.2	9250	1.90	73200	31	11100	1.60	74900
		38.02	46.8	7550	2.30	71100	39	9060	1.95	73200
	DK127	62.7	27.6	12415	1.00	52400	23	14900	0.85	51800
		54.15	32.4	10665	1.20	52800	27	12800	1.00	52700
		47.9	37.2	9500	1.35	52800	31	11400	1.15	53100
		40.25	44.4	7985	1.60	52800	37	9580	1.35	53200
		36.3	49.2	7260	1.80	52400	41	8710	1.50	53100
		31.41	56.4	6285	2.00	51600	47	7540	1.70	52700
		27.72	63.6	5540	2.30	50800	53	6650	1.95	52000
		23.94	74.4	4785	2.75	49600	62	5740	2.30	51200
		21.17	84	4235	3.10	48800	70	5080	2.60	50400
		17.79	99.6	3560	3.60	47200	83	4270	3.00	49100
		14.37	122	2875	4.20	45600	102	3450	3.50	47300
		12.78	138	2560	3.35	43600	115	3070	2.80	45200
		10.74	164	2150	3.70	42000	137	2580	3.10	43700
		8.68	203	1740	4.20	40000	169	2090	3.50	41900
	DK107	37	48	7410	0.95	26800	40	8890	0.80	26100
		31.28	56	6265	1.05	29000	47	7520	0.90	29700
		29	61	5810	1.25	29700	51	6970	1.05	30800
		26.32	67	5265	1.35	30300	56	6320	1.15	31100
		22.62	78	4535	1.55	31000	65	5440	1.30	31200

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
37kw	DK107	19.74	89	3950	1.80	30900	74	4740	1.50	31200
		16.75	106	3350	2.10	30500	88	4020	1.75	31100
		14.63	120	2935	2.30	30000	100	3520	1.95	30800
		13.43	131	2690	1.60	28500	109	3230	1.35	29100
		11.73	150	2350	1.85	28100	125	2820	1.55	28800
		9.94	178	1990	2.10	27500	148	2390	1.75	28300
		8.69	203	1740	2.30	26900	169	2090	1.95	27800

45kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
45kw	DK187 DR107	221	7.92	50165	1.00	170800	6.6	60200	0.85	171000
		193	9.12	43750	1.10	170800	7.6	52500	0.95	171000
		163	10.8	36915	1.35	170800	9	44300	1.15	171000
	DK167 DR107	135	13.2	30665	1.00	134800	11	36800	0.85	135000
		118	14.4	26750	1.20	134800	12	32100	1.00	135000
	DK187	179.86	9.84	43415	1.10	170800	8.2	52100	0.95	167000
		165.86	10.7	39915	1.25	170800	8.9	47900	1.05	171000
		144.59	12	34915	1.40	170800	10	41900	1.20	171000
		129.69	13.2	31335	1.55	169800	11	37600	1.30	171000
		112.6	15.6	27165	1.80	166700	13	32600	1.50	171000
		102.16	16.8	24665	1.95	164300	14	29600	1.65	171000
		88	20.4	21250	2.30	160300	17	25500	1.95	171000
		73.96	24	17835	2.75	155400	20	21400	2.30	168900
	DK167	109.83	15.6	26500	1.20	134800	13	31800	1.00	135000
		87.86	20.4	21165	1.50	134800	17	25400	1.25	135000
		78.14	22.8	18835	1.65	134800	19	22600	1.40	135000
		68.07	26.4	16415	1.90	132400	22	19700	1.60	135000
		60.74	28.8	14665	2.15	129900	24	17600	1.80	134100
		51.77	33.6	12500	2.50	126300	28	15000	2.10	130800
		42.89	40.8	10335	3.00	121800	34	12400	2.50	126500

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
45kw	DK157	70.38	25.2	17000	1.00	70000	21	20400	0.85	69100
		61.02	28.8	14665	1.20	70100	24	17600	1.00	69900
		54.29	32.4	13085	1.35	69900	27	15700	1.15	70100
		46.79	37.2	11250	1.55	69300	31	13500	1.30	70000
		38.02	46.8	9165	1.90	67900	39	11000	1.60	69200
		31.3	56.4	7560	2.30	66200	47	9070	1.95	68000
		27.62	63.6	6665	2.60	65000	53	8000	2.20	66900
		23.95	73.2	5785	3.10	63500	61	6940	2.60	65500
		21.31	82.8	5140	3.45	62100	69	6170	2.90	64400
	DK127	47.9	37.2	11500	1.10	48800	31	13800	0.95	47500
		40.25	44.4	9665	1.30	48800	37	11600	1.10	48500
		36.3	49.2	8750	1.50	48800	41	10500	1.25	48800
		31.41	56.4	7575	1.65	48800	47	9090	1.40	49000
		27.72	63.6	6685	1.90	48400	53	8020	1.60	48800
		23.94	74.4	5775	2.20	47600	62	6930	1.85	48400
		21.17	84	5100	2.50	46800	70	6120	2.10	47900
		17.79	99.6	4290	3.00	45600	83	5150	2.50	47000
		14.37	122	3465	3.45	44000	102	4160	2.90	45600
		12.78	138	3085	2.75	42000	115	3700	2.30	43500
	DK107	10.74	164	2590	3.00	40800	137	3110	2.50	42300
		8.68	203	2090	3.35	39200	169	2510	2.80	40800
		29	61.2	7000	1.00	24600	51	8400	0.85	23000
		26.32	67.2	6350	1.10	25900	56	7620	0.95	25500
		22.62	78	5460	1.30	27400	65	6550	1.10	27900
		19.74	88.8	4765	1.50	28200	74	5720	1.25	28500
		16.75	106	4040	1.70	28700	88	4850	1.45	28700
		14.63	120	3535	1.90	28500	100	4240	1.60	28700
		13.43	131	3240	1.30	26800	109	3890	1.10	26900
		11.73	150	2825	1.50	26600	125	3390	1.25	26900
		9.94	178	2400	1.70	26200	148	2880	1.45	26600
		8.69	203	2090	1.90	25800	169	2510	1.60	26400

55kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
55kw	DK187	144.59	12	42665	1.10	161100	10	51200	0.95	161800
		129.69	13.2	38250	1.30	160100	11	45900	1.10	161600
		112.6	15.6	33250	1.50	158300	13	39900	1.25	160700
		102.16	16.8	30165	1.60	156700	14	36200	1.35	159700
		88	20.4	25915	1.90	153800	17	31100	1.60	157400
		73.96	24	21835	2.25	149900	20	26200	1.90	154200
		64.04	27.6	18835	2.60	146300	23	22600	2.20	151000
	DK167	87.86	20.4	25915	1.20	129500	17	31100	1.00	130800
		78.14	22.8	23000	1.35	128300	19	27600	1.15	130100
		68.07	26.4	20085	1.55	126400	22	24100	1.30	129000
		60.74	28.8	17915	1.80	124600	24	21500	1.50	127500
		51.77	33.6	15250	2.10	121700	28	18300	1.75	125200
		42.89	40.8	12665	2.50	118000	34	15200	2.10	121900
	DK157	36.61	48	10750	3.00	114600	40	12900	2.50	118700
		61.02	28.8	18000	1.00	63700	24	21600	0.85	62100
		54.29	32.4	16000	1.10	64200	27	19200	0.95	63200
		46.79	38.4	13750	1.30	64300	32	16500	1.10	64100
		38.02	46.8	11165	1.60	63900	39	13400	1.35	64400
		31.3	56.4	9165	1.90	62900	47	11000	1.60	63900
		27.62	63.6	8150	2.20	62100	53	9780	1.85	63400
		23.95	74.4	7065	2.50	60900	62	8480	2.10	62500
		21.31	82.8	6290	2.85	59900	69	7550	2.40	61600
		18.37	96	5415	3.35	58400	80	6500	2.80	60300
	DK127	40.25	44.4	11835	1.05	43600	37	14200	0.90	42700
		31.41	56.4	9250	1.35	44400	47	11100	1.15	44400
		27.72	63.6	8165	1.55	44400	53	9800	1.30	44700
		23.94	74.4	7060	1.85	44400	62	8470	1.55	44900
		21.17	84	6240	2.10	44000	70	7490	1.75	44800
		17.79	99.6	5240	2.40	43200	83	6290	2.00	44400
		14.37	124	4235	2.85	42400	103	5080	2.40	43500
		12.78	138	3775	2.20	40000	115	4530	1.85	41300
		10.74	164	3165	2.50	39200	137	3800	2.10	40500
		8.68	204	2560	2.75	37900	170	3070	2.30	39200

75kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
75kw	DK187	129.69	13.2	52165	0.95	140900	11	62600	0.80	138400
		112.6	15.6	45335	1.05	141500	13	54400	0.90	140600
		102.16	16.8	41085	1.2	141500	14	49300	1.00	141300
		88	20.4	35415	1.35	140700	17	42500	1.15	141700
		73.96	24	29750	1.65	138900	20	35700	1.40	140900
		64.04	27.6	25750	1.9	136800	23	30900	1.60	139500
		53.36	33.6	21415	2.3	133600	28	25700	1.95	137000
		45.5	39.6	18250	2.75	130300	33	21900	2.30	134200
	DK167	78.14	22.8	31415	1	114500	19	37700	0.85	113500
		68.07	26.4	27335	1.1	114400	22	32800	0.95	114400
		60.74	28.8	24415	1.3	113900	24	29300	1.10	114600
		51.77	34.8	20835	1.55	112600	29	25000	1.30	114100
		42.89	42	17250	1.85	110400	35	20700	1.55	112700
		36.61	48	14665	2.15	108100	40	17600	1.80	110900
		32.25	55.2	12915	2.4	106100	46	15500	2.00	109200
		28.77	61.2	11585	2.75	104100	51	13900	2.30	107400
		24.52	72	9835	3.2	101100	60	11800	2.70	104700
	DK157	38.02	46.8	15250	1.2	55900	39	18300	1.00	54700
		31.3	56.4	12585	1.4	56300	47	15100	1.20	56000
		27.62	64.8	11085	1.6	56200	54	13300	1.35	56300
		23.95	74.4	9585	1.85	55900	62	11500	1.55	56300
		21.31	82.8	8500	2.1	55400	69	10200	1.75	56200
		18.37	97.2	7390	2.4	54600	81	8870	2.00	55600
		14.92	119	6010	3	53100	99	7210	2.50	54500
		12.65	140	5090	3.35	51800	117	6110	2.80	53400
	DK127	31.41	56.4	12585	1	37400	47	15100	0.85	35300
		27.72	63.6	11085	1.1	38300	53	13300	0.95	36700
		23.94	74.4	9585	1.3	37800	62	11500	1.10	38000
		21.17	84	8500	1.5	39300	70	10200	1.25	38600
		17.79	99.6	7150	1.8	39400	83	8580	1.50	39200
		14.37	124	5775	2.1	39000	103	6930	1.75	39300
		12.78	139	5140	1.65	36900	116	6170	1.40	37000
		10.74	166	4325	1.85	36400	138	5190	1.55	36900
		8.68	205	3490	2	35600	171	4190	1.70	36400

90kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
90kw	DK187	102.16	16.8	49335	1.00	130100	14	59200	0.85	127500
		88	20.4	42500	1.20	130900	17	51000	1.00	129800
		73.96	24	35750	1.35	130700	20	42900	1.15	131000
		64.04	27.6	30915	1.60	129700	23	37100	1.35	130900
		53.36	33.6	25750	1.90	127600	28	30900	1.60	129800
		45.5	39.6	22000	2.25	125300	33	26400	1.90	128100
		42.51	42	20500	2.40	124100	35	24600	2.00	127200
		38.57	45.6	18585	2.60	122400	38	22300	2.20	125700
	DK167	68.07	26.4	32915	0.95	105400	22	39500	0.80	103600
		60.74	28.8	29335	1.05	105900	24	35200	0.90	104900
		51.77	34.8	25000	1.25	105800	29	30000	1.05	105800
		42.89	42	20665	1.55	104800	35	24800	1.30	105800
		36.61	48	17665	1.80	103300	40	21200	1.50	105000
		32.25	55.2	15585	2.00	101800	46	18700	1.70	104000
		28.77	61.2	13835	2.25	100300	51	16600	1.90	102800
		24.52	72	11835	2.60	97900	60	14200	2.20	100700
		20.32	87.6	9750	3.20	94800	73	11700	2.70	97900
		17.34	102	8335	3.80	92000	85	10000	3.20	95400
	DK157	31.3	56.4	15165	1.20	50400	47	18200	1.00	51800
		27.62	64.8	13335	1.30	51900	54	16000	1.10	52100
		23.95	74.4	11585	1.55	52100	62	13900	1.30	52100
		21.31	82.8	10335	1.70	52000	69	12400	1.45	51700
		18.37	97.2	8915	2.00	51600	81	10700	1.70	52100
		14.92	119	7225	2.50	50800	99	8670	2.10	51700
		12.65	140	6125	2.75	49800	117	7350	2.30	50900
	DK127	23.94	74.4	11585	1.10	33600	62	13900	0.95	32800
		21.17	84	10250	1.25	34500	70	12300	1.05	34000
		17.79	99.6	8585	1.50	35400	83	10300	1.25	35300
		14.37	124	6940	1.70	35800	103	8330	1.45	36200
		12.78	139	6185	1.35	33600	116	7420	1.15	33800
		10.74	166	5200	1.55	33700	138	6240	1.30	34200
		8.68	205	4200	1.70	33400	171	5040	1.45	34200

110kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
110kw	DK187	88	20.4	51750	0.95	117800	17	62100	0.80	114100
		73.96	24	43500	1.10	119700	20	52200	0.95	117700
		64.04	27.6	37665	1.30	120100	23	45200	1.10	119400
		53.36	33.6	31335	1.55	119700	28	37600	1.30	120200
		45.5	39.6	26750	1.85	118500	33	32100	1.55	119900
		42.51	42	25000	1.95	117200	35	30000	1.65	119500
		38.57	46.8	22665	2.20	116600	39	27200	1.85	118700
		33.23	54	19500	2.50	114500	45	23400	2.10	117200
		27.92	63.6	16415	3.00	111600	53	19700	2.50	114800
		51.77	34.8	30415	1.00	96700	29	36500	0.85	95000
	DK167	42.89	42	25165	1.25	97200	35	30200	1.05	96800
		36.61	49.2	21500	1.50	96800	41	25800	1.25	97300
		32.25	55.2	18915	1.65	95600	46	22700	1.40	97100
		28.77	62.4	16915	1.85	95200	52	20300	1.55	96700
		24.52	73.2	14415	2.20	93500	61	17300	1.85	95500
		20.32	87.6	11915	2.60	91200	73	14300	2.20	93600
		17.34	103	10165	3.10	88900	86	12200	2.60	91600
		23.95	74.4	14085	1.25	46400	62	16900	1.05	45700
	DK157	21.31	84	12500	1.40	47500	70	15000	1.20	46700
		18.37	97.2	10750	1.65	47800	81	12900	1.40	47400
		14.92	120	8750	2.00	47600	100	10500	1.70	47800
		12.65	140	7440	2.25	47100	117	8930	1.90	47700

132kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
132kw	DK187	73.96	24	52165	0.95	107600	20	62600	0.80	103200
		64.04	27.6	45165	1.05	109700	23	54200	0.90	106800
		53.36	33.6	37665	1.30	111000	28	45200	1.10	109700
		45.5	39.6	32085	1.55	111100	33	38500	1.30	111000
		42.51	42	30000	1.65	111200	35	36000	1.40	111200
		38.57	46.8	27165	1.85	110800	39	32600	1.55	111200

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
132kw	DK187	33.23	54	23415	2.10	109100	45	28100	1.75	110600
		27.92	63.6	19665	2.50	107100	53	23600	2.10	109300
		24.18	73.2	17000	2.75	105000	61	20400	2.30	107600
		20.15	88.8	14165	3.10	102100	74	17000	2.60	105100
		17.18	103	12085	3.35	99300	86	14500	2.80	102600
	DK167	42.89	42	30250	1.05	89600	35	36300	0.90	86800
		36.61	49.2	25835	1.25	90000	41	31000	1.05	88700
		32.25	55.2	22750	1.35	90400	46	27300	1.15	89600
		28.77	62.4	20250	1.55	90000	52	24300	1.30	89900
		24.52	73.2	17250	1.85	88800	61	20700	1.55	89800
		20.32	87.6	14335	2.20	87300	73	17200	1.85	88800
	DK157	17.34	103	12165	2.60	85500	86	14600	2.20	87600
		23.95	74.4	16835	1.05	42000	62	20200	0.90	39100
		21.31	84	15000	1.20	42800	70	18000	1.00	40800
		18.37	97.2	12915	1.35	44000	81	15500	1.15	42300
		14.92	120	10500	1.65	44400	100	12600	1.40	43700
		12.65	140	8915	1.90	44400	117	10700	1.60	44200

160kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
160kw	DK187	53.36	33.6	45665	1.05	99900	28	54800	0.90	96400
		45.5	39.6	38915	1.25	101600	33	46700	1.05	99500
		33.23	54	28415	1.70	102200	45	34100	1.45	102300
		27.92	63.6	23915	2.10	101300	53	28700	1.75	102200
		24.18	73.2	20665	2.25	100000	61	24800	1.90	101600
		20.15	88.8	17250	2.50	98000	74	20700	2.10	100100
		17.18	103	14665	2.75	95800	86	17600	2.30	98400
	DK167	36.61	49.2	31335	1.00	80700	41	37600	0.85	77900
		24.52	73.2	21000	1.50	82800	61	25200	1.25	82500
		20.32	87.6	17335	1.85	82300	73	20800	1.55	82800
		17.34	103	14835	2.15	81300	86	17800	1.80	82400

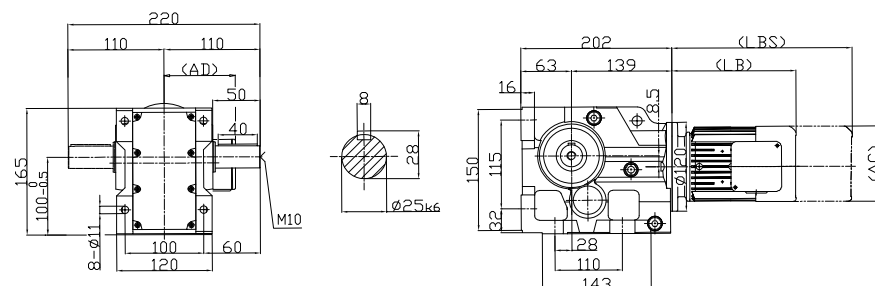
Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
160kw	DK157	18.37	97.2	15665	1.10	38100	81	18800	0.95	35800
		14.92	120	12750	1.35	39800	100	15300	1.15	38300
		12.65	140	10835	1.55	40400	117	13000	1.30	39700

200kw

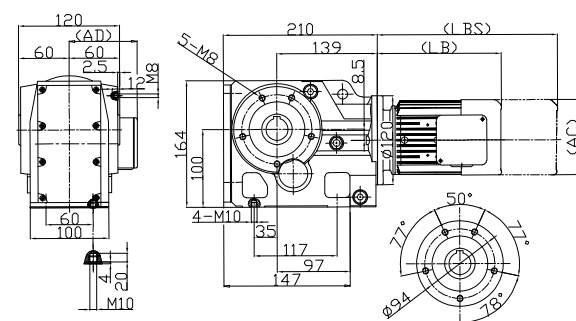
Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
200kw	DK187	45.5	39.6	48585	1.00	86400	33	58300	0.85	83300
		33.23	54	35500	1.35	90800	45	42600	1.15	90500
		27.92	63.6	29835	1.65	92000	53	35800	1.40	92300
		24.18	73.2	25835	1.85	92000	61	31000	1.55	93000
		20.15	88.8	21500	2.00	91200	74	25800	1.70	92900
		17.18	103	18335	2.20	90000	86	22000	1.85	92200
	DK167	24.52	73.2	26165	1.20	73200	61	31400	1.00	72200
		20.32	87.6	21665	1.40	74000	73	26000	1.20	74300
		17.34	103	18500	1.70	74400	86	22200	1.45	75100
	DK157	14.92	120	15915	1.10	32700	100	19100	0.95	30800
		12.65	140	13500	1.25	34400	117	16200	1.05	33200

DK-Series 도면

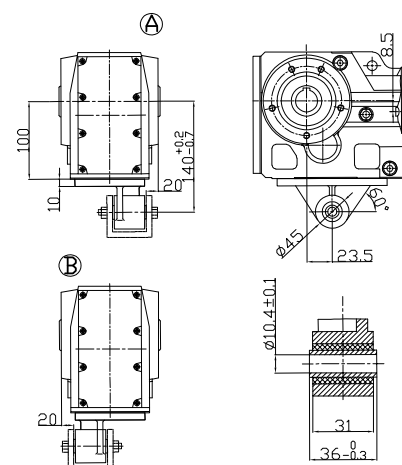
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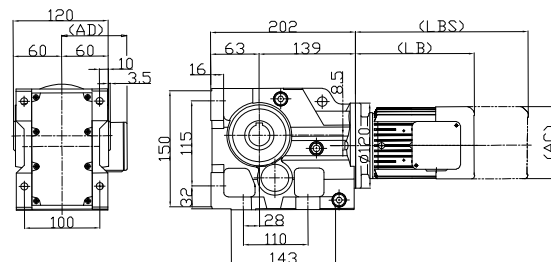
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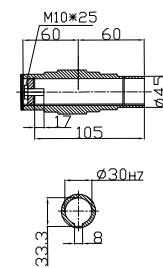
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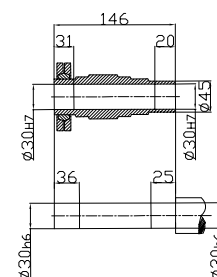
DKAB37



Hollow shaft



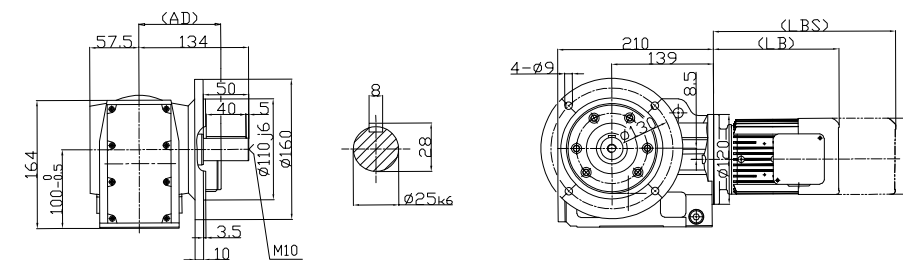
Shrink disk



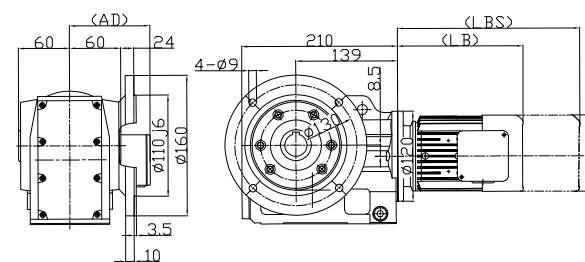
DK37

	0.4kW	0.75kW	1.5kW	2.2kW
LB	240	254	328	377
LBS	330	344	428	477
AC	145	175	193	236
AD	126	135	147	202

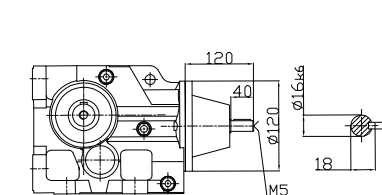
DKF37



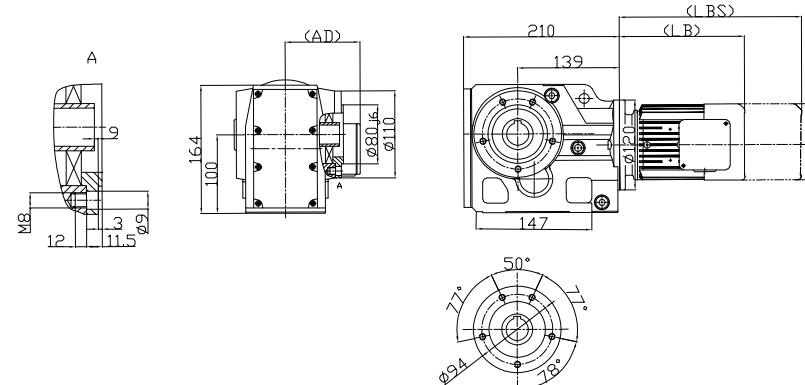
DKAF37



DK..S37



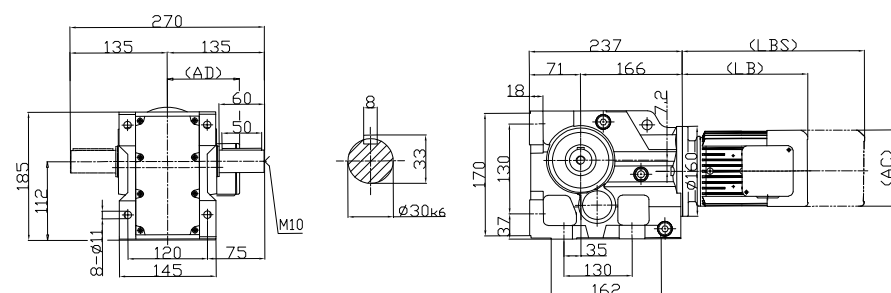
DKAZ37



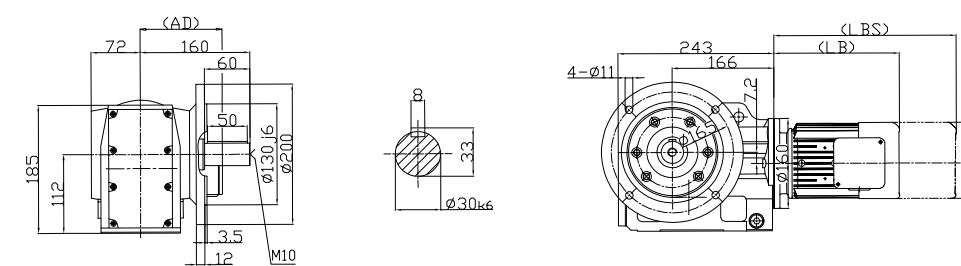
DK37

	0.4kW	0.75kW	1.5kW	2.2kW
LB	240	254	328	377
LBS	330	344	428	477
AC	145	175	193	236
AD	126	135	147	202

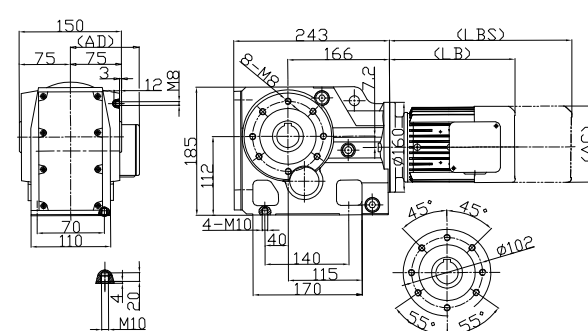
DK47



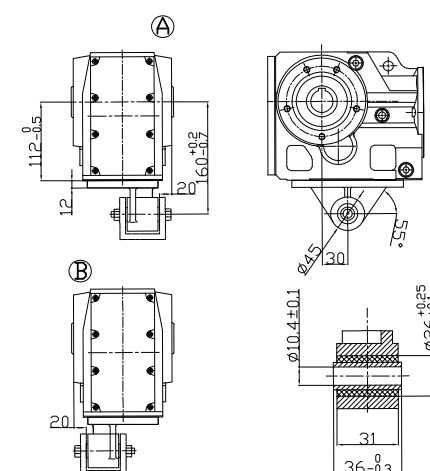
DKF47



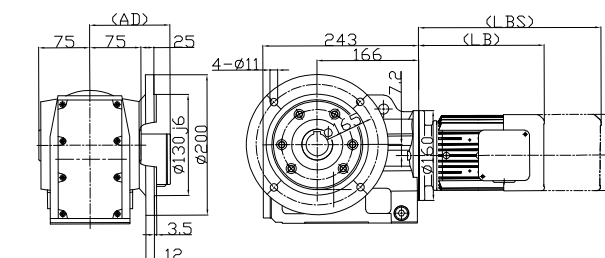
DKA47



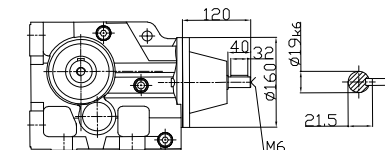
DKAT47



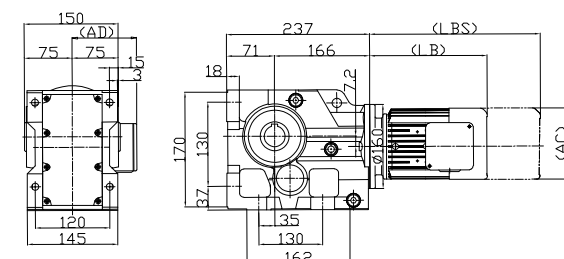
DKAF47



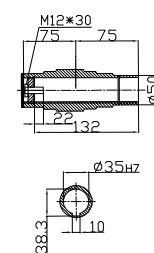
DK..S47



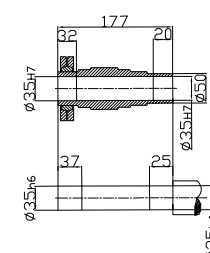
DKAB47



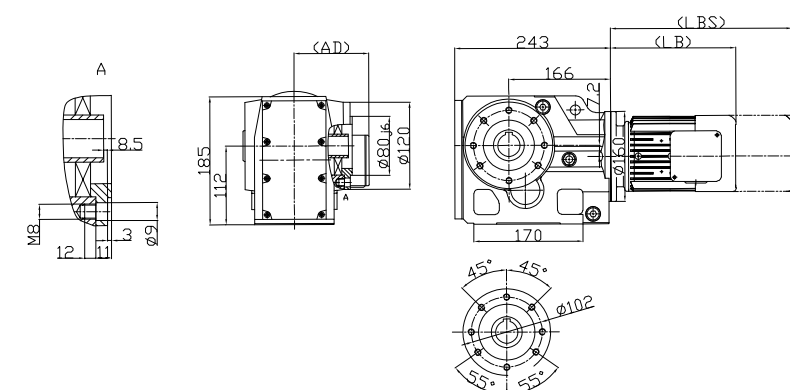
Hollow shaft



Shrink disk



DKAZ47



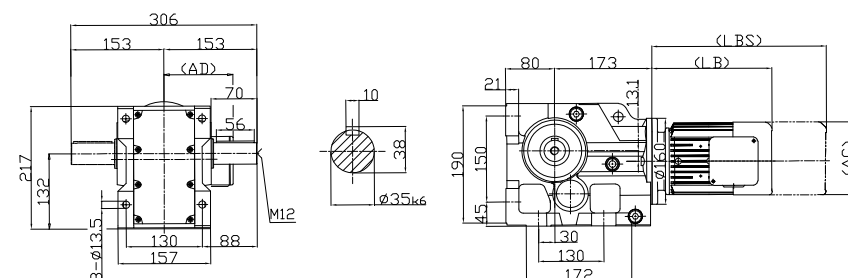
DK47

	0.4kW	0.75kW	1.5kW	2.2kW
LB	229	248	321	368
LBS	319	338	421	468
AC	145	175	193	236
AD	126	135	147	202

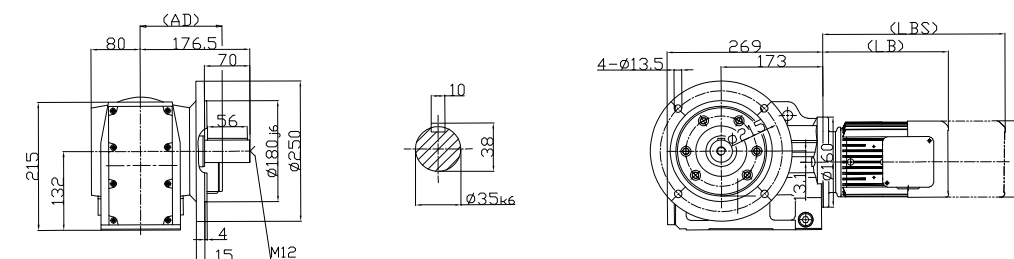
DK47

	0.4kW	0.75kW	1.5kW	2.2kW
LB	229	248	321	368
LBS	319	338	421	468
AC	145	175	193	236
AD	126	135	147	202

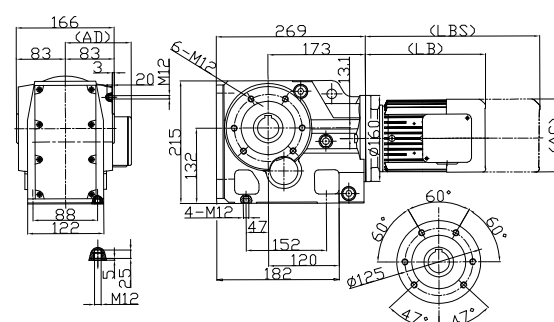
DK57



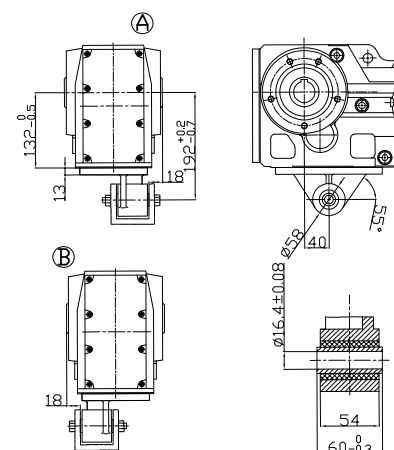
DKF57



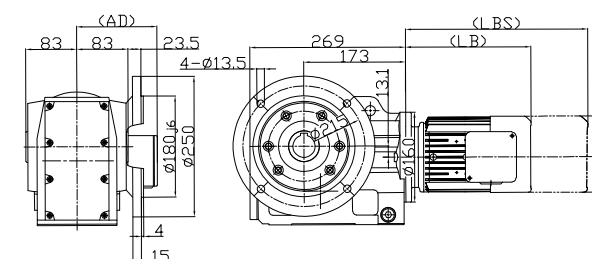
DKA57



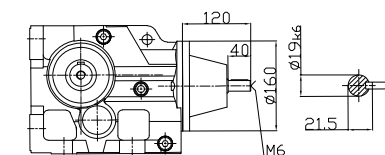
DKAT57



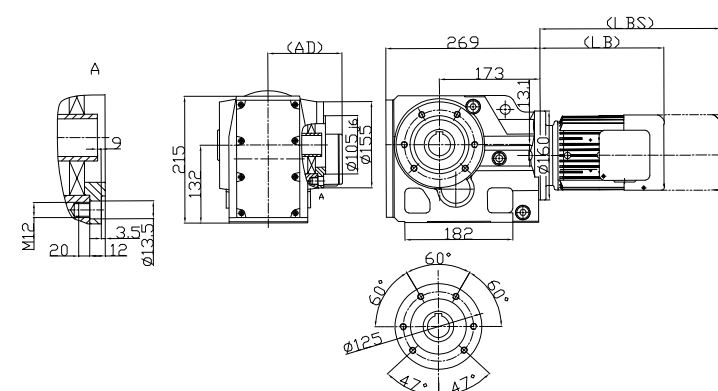
DKAF57



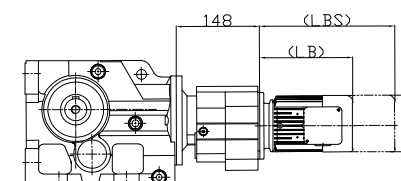
DK..S57



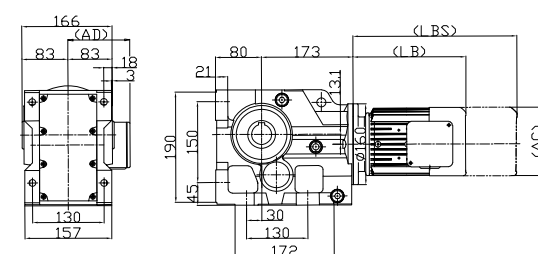
DKAZ57



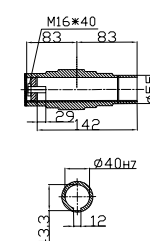
DK..57DR37



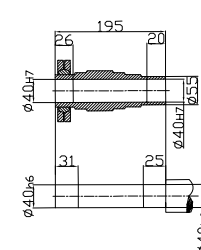
DKAB57



Hollow shaft



Shrink disk



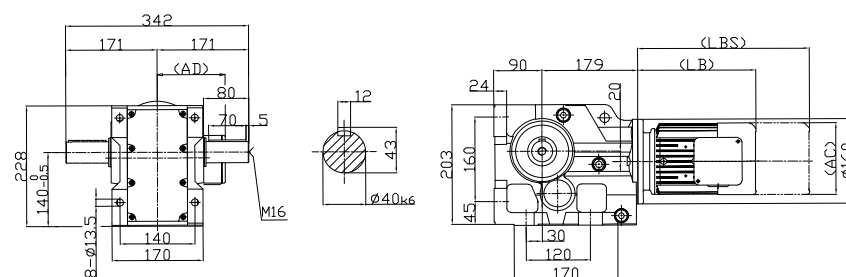
DK57

	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW
LB	229	248	321	368	372	427
LBS	319	338	421	468	497	557
AC	145	175	193	236	236	274
AD	126	135	147	202	202	222

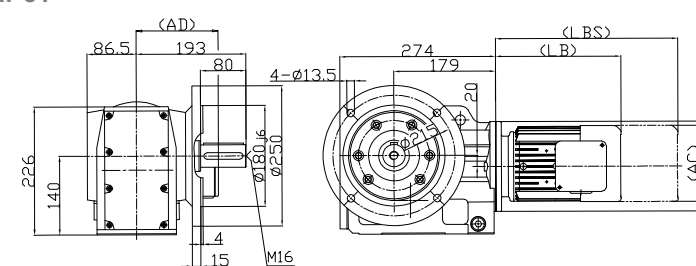
DK57

	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW
LB	229	248	321	368	372	427
LBS	319	338	421	468	497	557
AC	145	175	193	236	236	274
AD	126	135	147	202	202	222

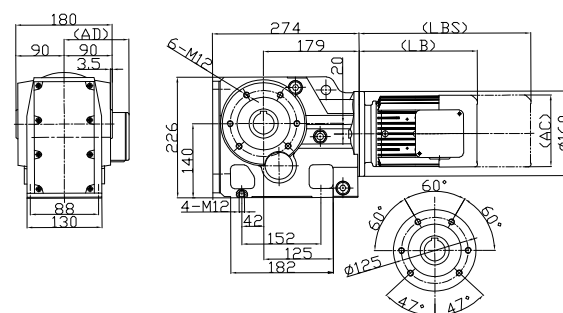
DK67



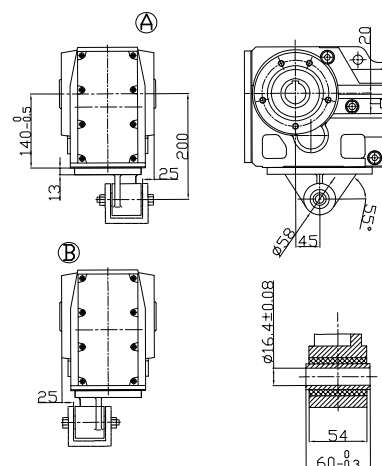
DKF67



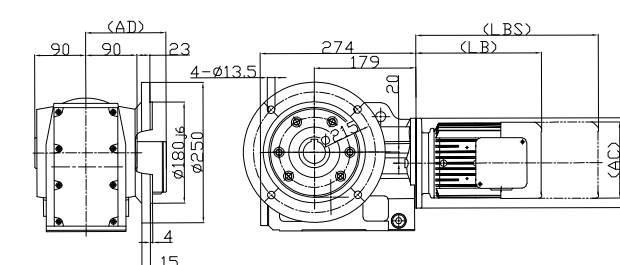
DKA67



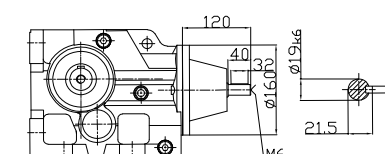
DKAT67



DKAF67

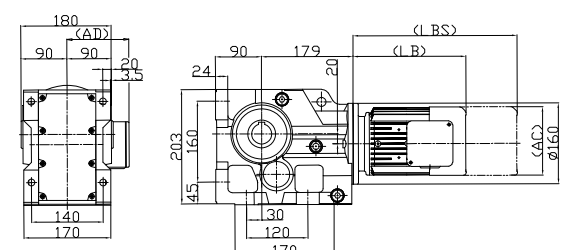


DK..S67

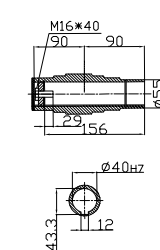


DKΔR67

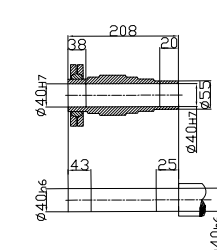
DKAB67



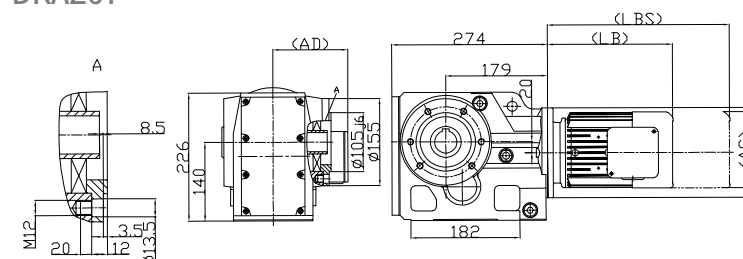
Hollow shaft



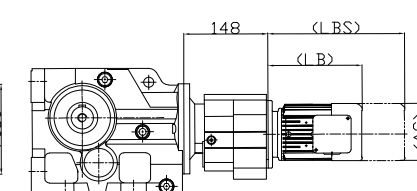
Shrink disk



DKAZ67



DK..67DR37



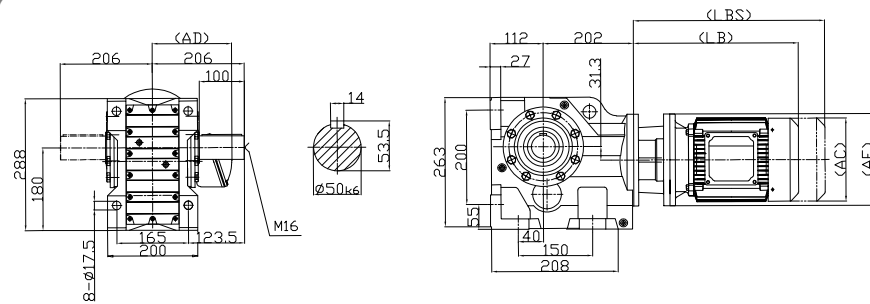
DK67

	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW
LB	229	248	321	368	372	427
LBS	319	338	421	468	497	557
AC	145	175	193	236	236	274
AD	126	135	147	202	202	222

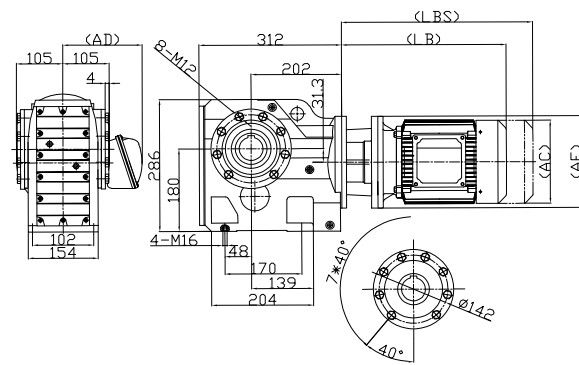
DK67

	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW
LB	229	248	321	368	372	427
LBS	319	338	421	468	497	557
AC	145	175	193	236	236	274
AD	126	135	147	202	202	222

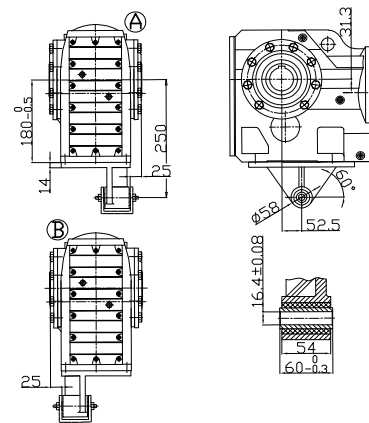
DK77



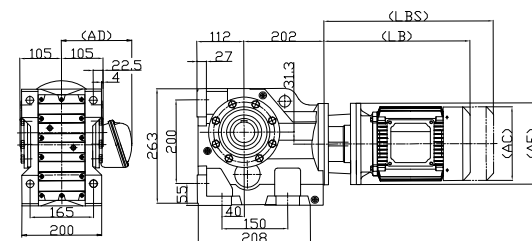
DKA77



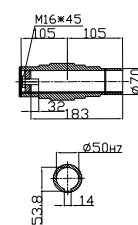
DKAT77



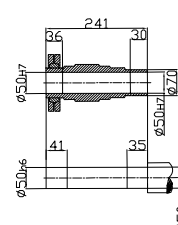
DKAB77



Hollow shaft



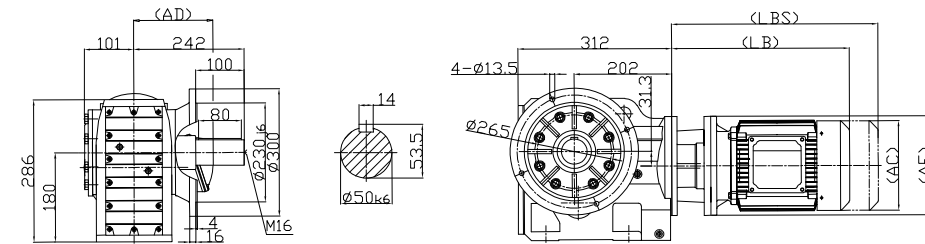
Shrink disk



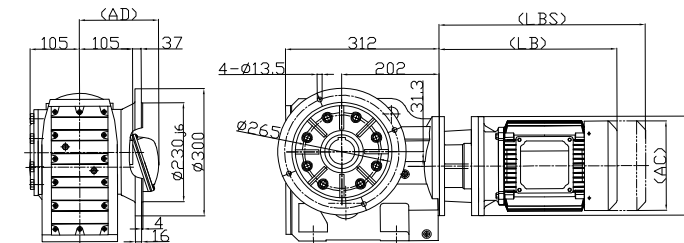
DK77

	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW	11kW
LB	277	322	380	437	462	529	529	638
LBS	367	412	480	537	587	659	659	793
AC	158	175	193	236	236	274	274	317
AD	130	148	158	180	180	220	220	265
AE	160	200	200	250	250	300	300	350

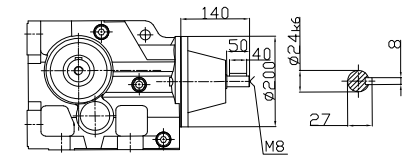
DKF77



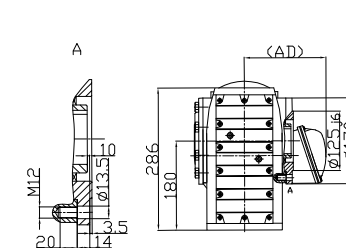
DKAF77



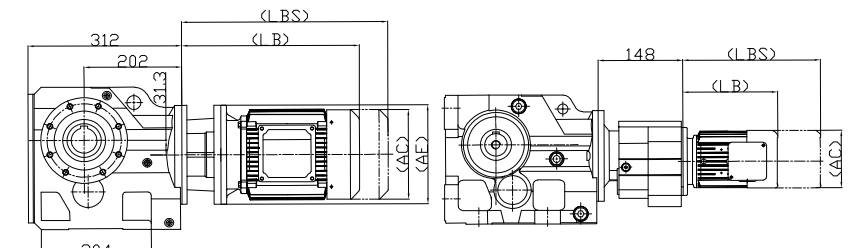
DK..S77



DKAZ77



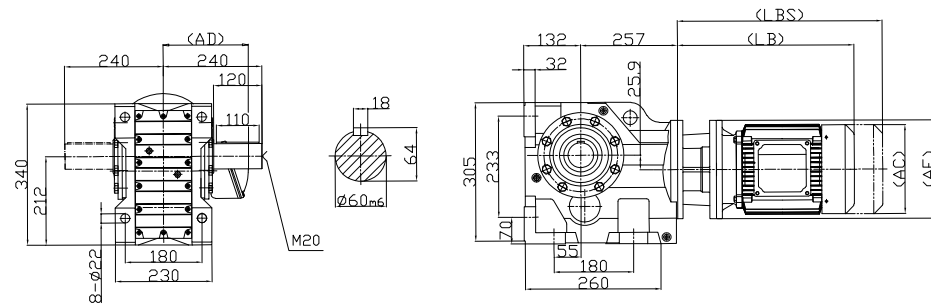
DK..77DR37



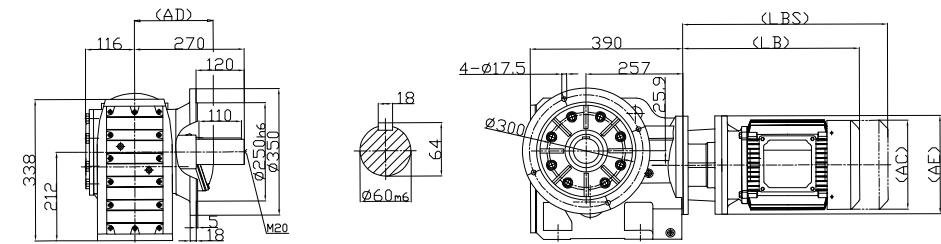
DK77

	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW	11kW
LB	277	322	380	437	462	529	529	638
LBS	367	412	480	537	587	659	659	793
AC	158	175	193	236	236	274	274	317
AD	130	148	158	180	180	220	220	265
AE	160	200	200	250	250	300	300	350

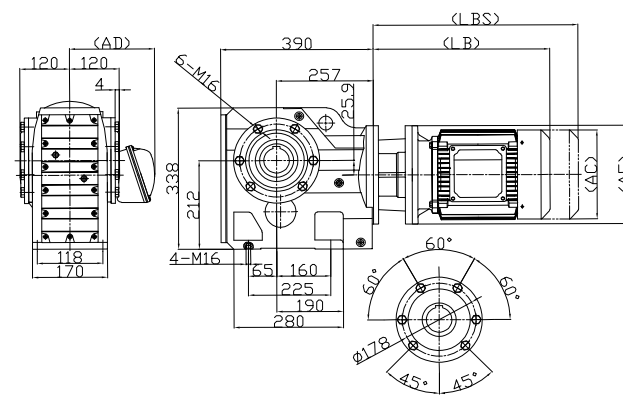
DK87



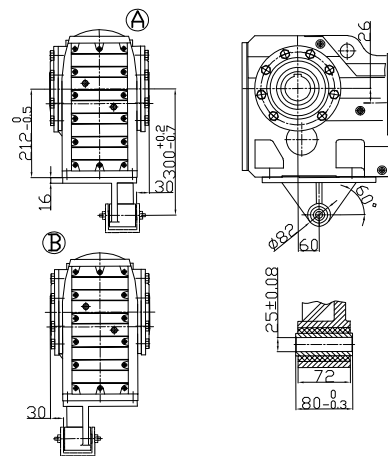
DKF87



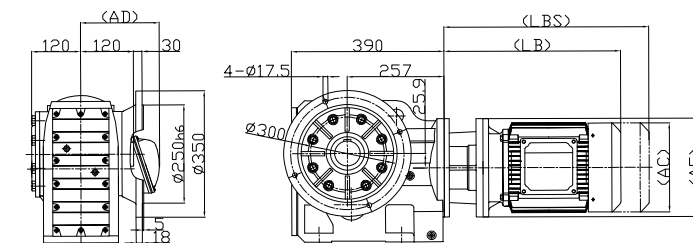
DKA87



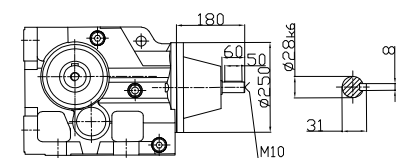
DKAT87



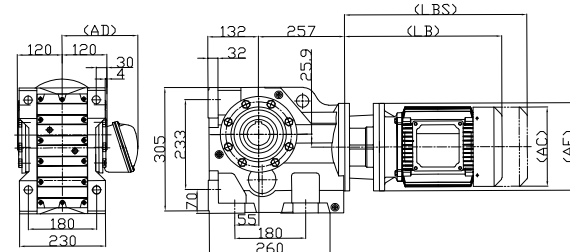
DKAF87



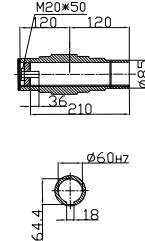
DK..S87



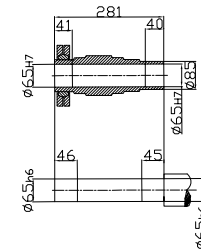
DKAB87



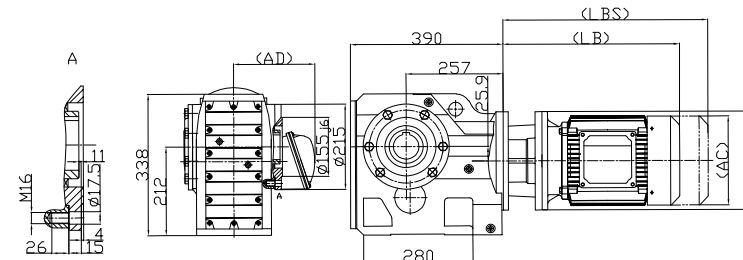
Hollow shaft



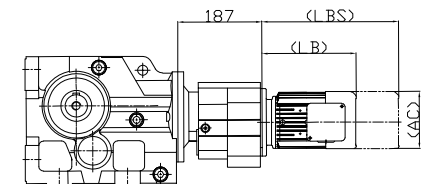
Shrink disk



DKAZ87



DK..87DR57



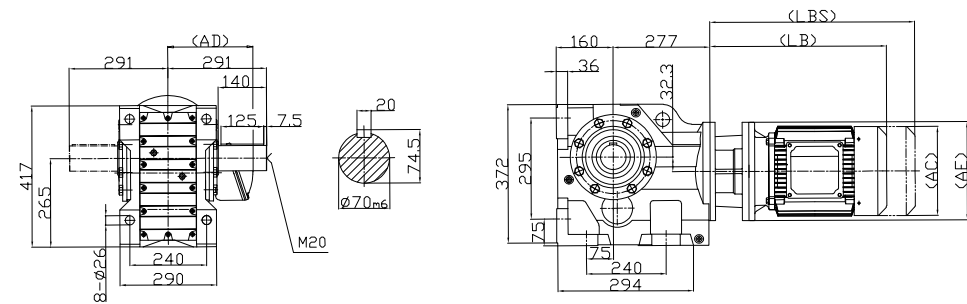
DK87

	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
LB	317	375	433	458	524	524	633	677	696	696
LBS	407	475	533	583	654	654	788	832	851	851
AC	175	193	236	236	274	274	317	317	365	365
AD	148	158	180	180	220	220	265	265	300	300
AE	200	200	250	250	300	300	350	350	350	350

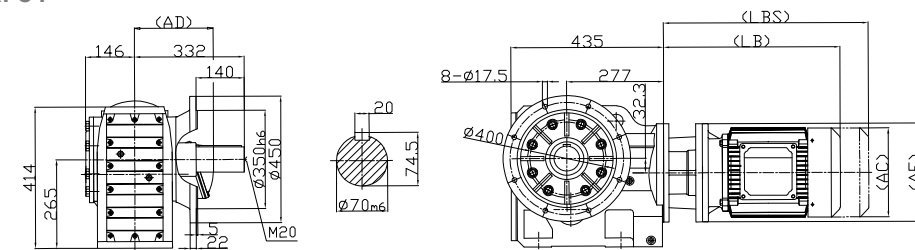
DK87

	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW
LB	317	375	433	458	524	524	633	677	696	696
LBS	407	475	533	583	654	654	788	832	851	851
AC	175	193	236	236	274	274	317	317	365	365
AD	148	158	180	180	220	220	265	265	300	300
AE	200	200	250	250	300	300	350	350	350	350

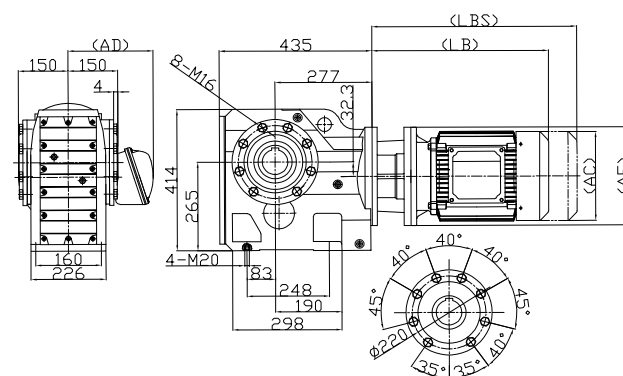
DK97



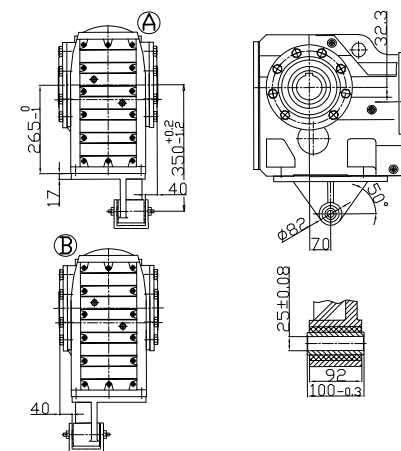
DKF97



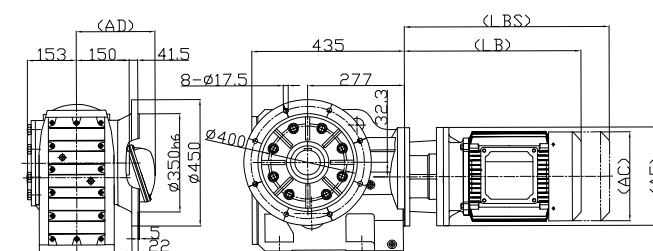
DKA97



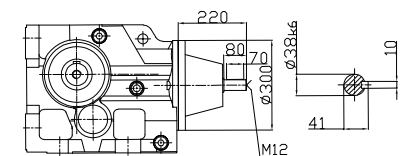
DKAT97



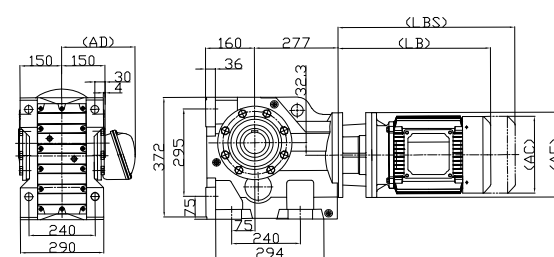
DKAF97



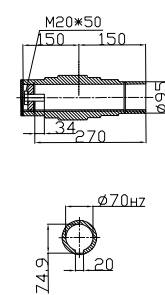
DK..S97



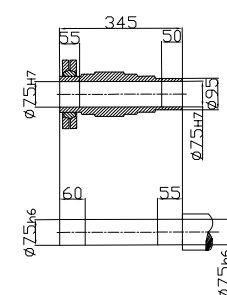
DKAB97



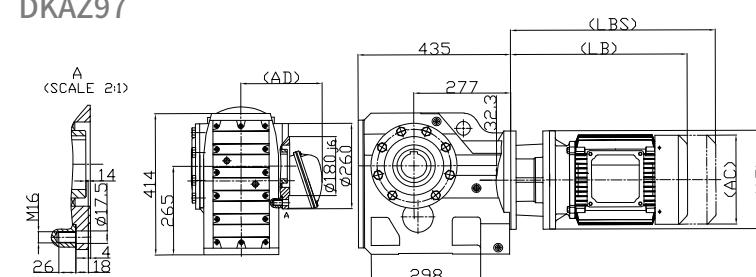
Hollow shaft



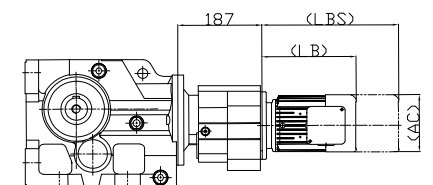
Shrink disk



DKAZ97



DK..97DR57



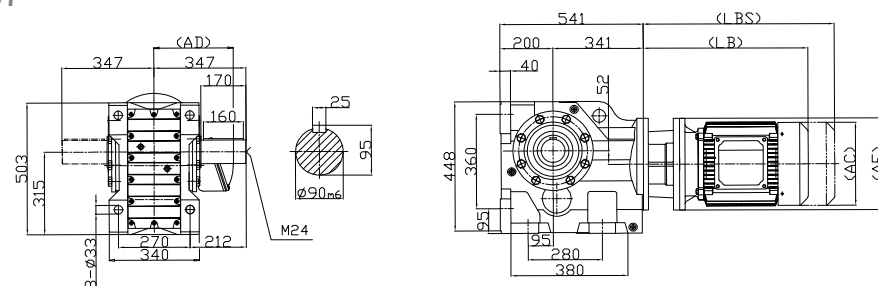
DK97

	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW
LB	369	427	452	519	519	628	672	691	691	736
LBS	469	527	577	649	649	783	827	846	846	891
AC	193	236	236	274	274	317	317	365	365	365
AD	158	180	180	220	220	265	265	300	300	300
AE	200	250	250	300	300	350	350	350	350	400

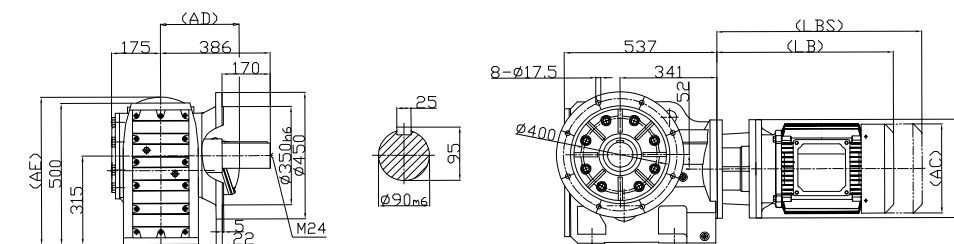
DK97

	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW
LB	369	427	452	519	519	628	672	691	691	736
LBS	469	527	577	649	649	783	827	846	846	891
AC	193	236	236	274	274	317	317	365	365	365
AD	158	180	180	220	220	265	265	300	300	300
AE	200	250	250	300	300	350	350	350	350	400

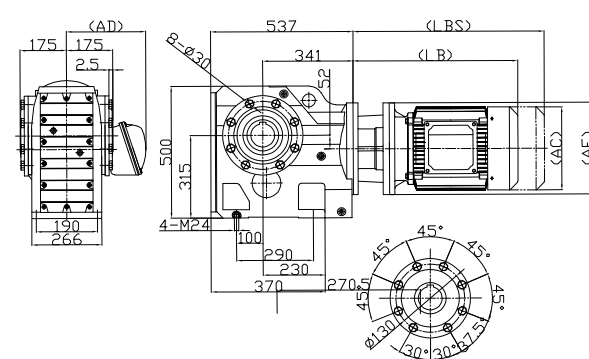
DK107



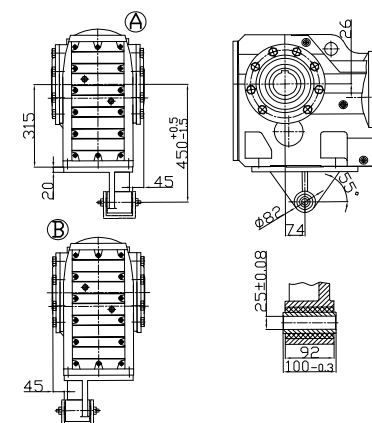
DKF107



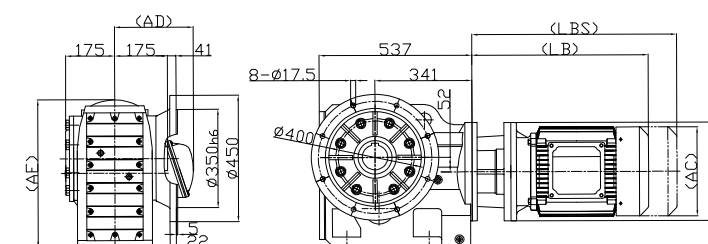
DKA107



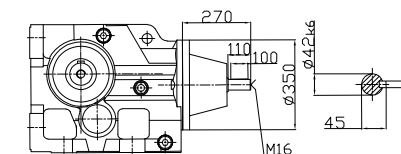
DKAT107



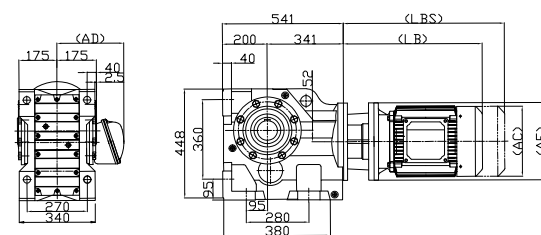
DKAF107



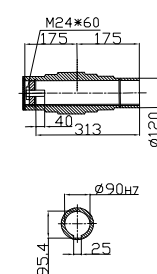
DK..S107



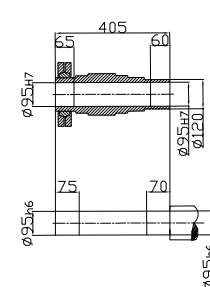
DKAB107



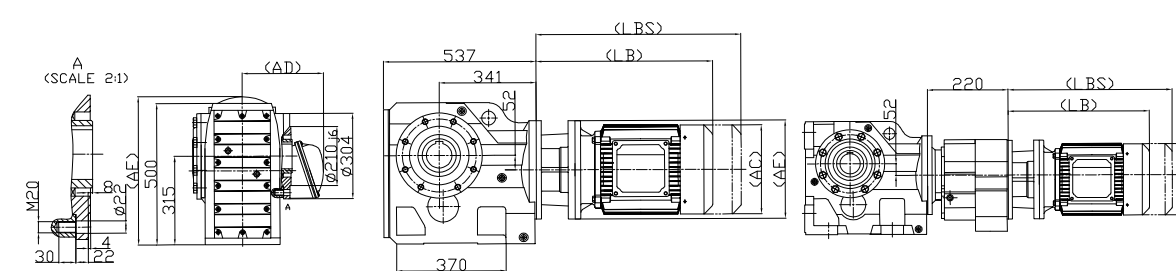
Hollow shaft



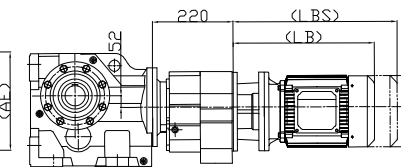
Shrink disk



DKAZ107



DK..107DR77



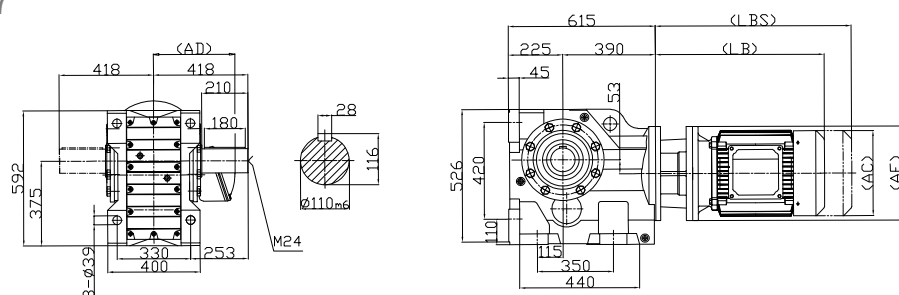
DK107

	2.2kW	3.7kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW
LB	421	446	513	513	622	666	685	685	730	849	849
LBS	521	571	643	643	777	821	840	840	885	1,004	1,004
AC	236	236	274	274	317	317	365	365	365	418	418
AD	180	180	220	220	265	265	300	300	300	370	370
AE	250	250	300	300	350	350	350	350	400	450	450

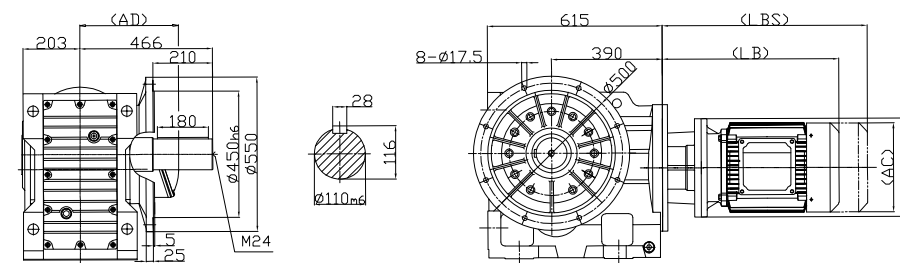
DK107

	2.2kW	3.7kW	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW
LB	421	446	513	513	622	666	685	685	730	849	849
LBS	521	571	643	643	777	821	840	840	885	1,004	1,004
AC	236	236	274	274	317	317	365	365	365	418	418
AD	180	180	220	220	265	265	300	300	300	370	370
AE	250	250	300	300	350	350	350	350	400	450	450

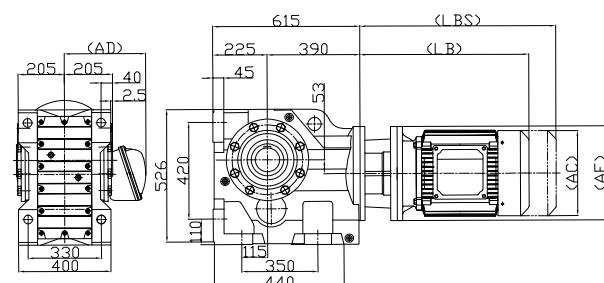
DK127



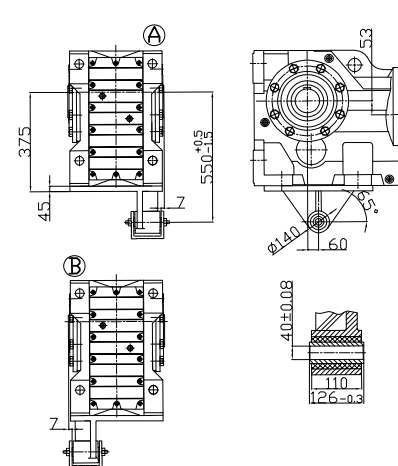
DKF127



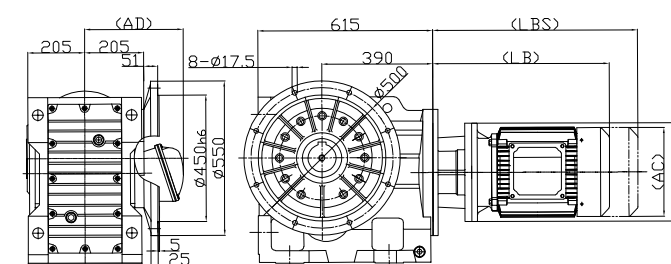
DKAB127



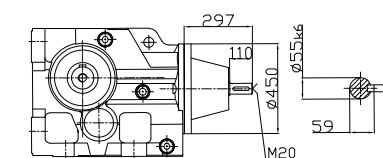
DKAT127



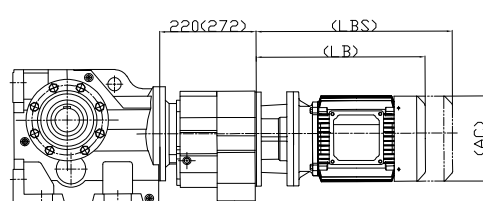
DKAF127



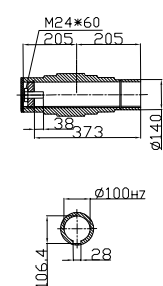
DK..S127



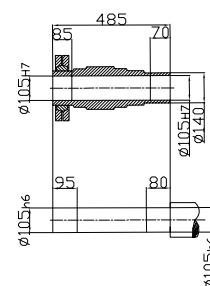
DK..127DR77(87)



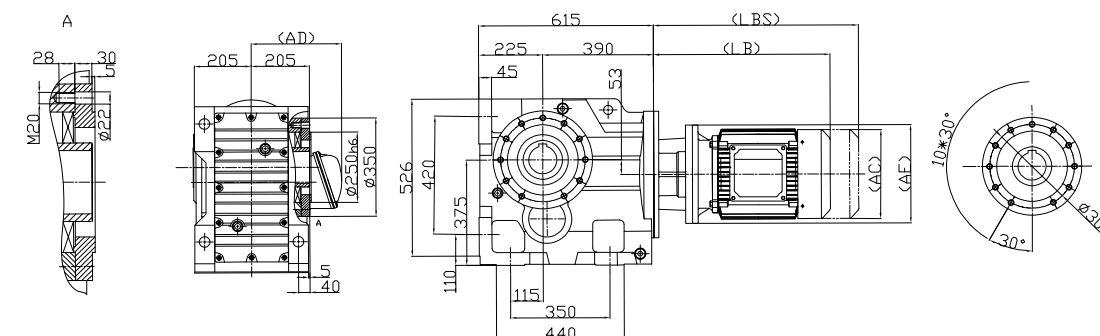
Hollow shaft



Shrink disk



DKAZ127



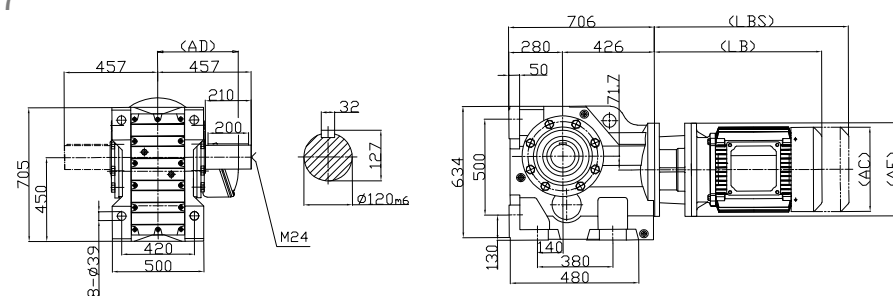
DK127

	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW
LB	498	498	607	651	670	670	715	834	834	839	924	924
LBS	628	628	762	806	825	825	870	989	989	999	1,084	1,084
AC	274	274	317	317	365	365	365	418	418	453	510	510
AD	220	220	265	265	300	300	300	370	370	400	435	435
AE	300	300	350	350	350	350	400	450	450	450	550	550

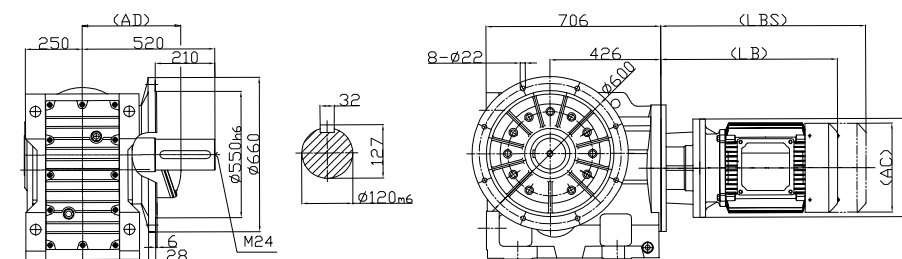
DK127

	5.5kW	7.5kW	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW
LB	498	498	607	651	670	670	715	834	834	839	924	924
LBS	628	628	762	806	825	825	870	989	989	999	1,084	1,084
AC	274	274	317	317	365	365	365	418	418	453	510	510
AD	220	220	265	265	300	300	300	370	370	400	435	435
AE	300	300	350	350	350	350	400	450	450	450	550	550

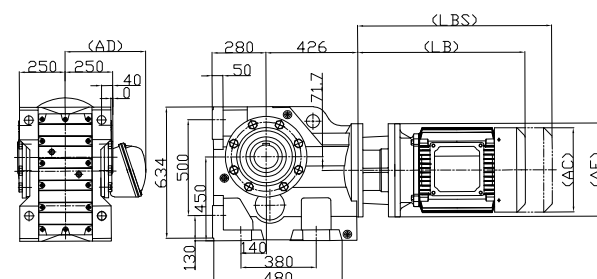
DK157



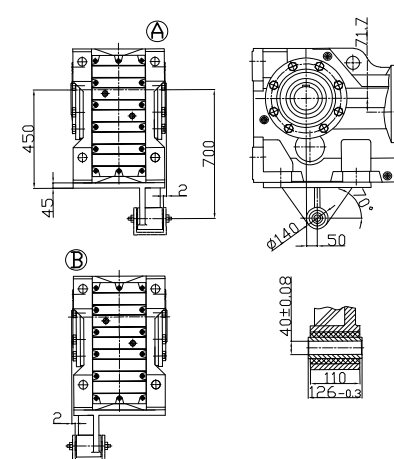
DKF157



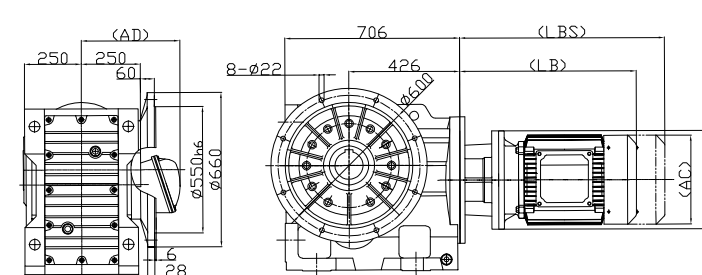
DKAB157



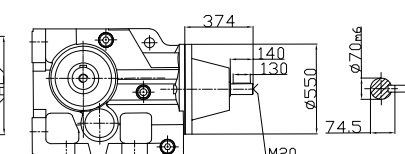
DKAT157



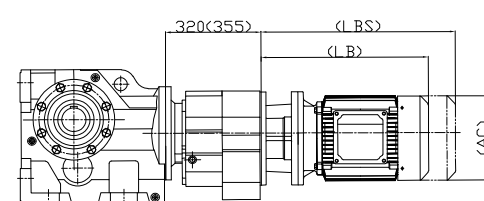
DKAF157



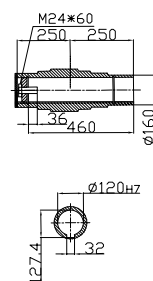
DK..S157



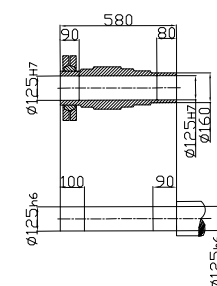
DK..157DR97(107)



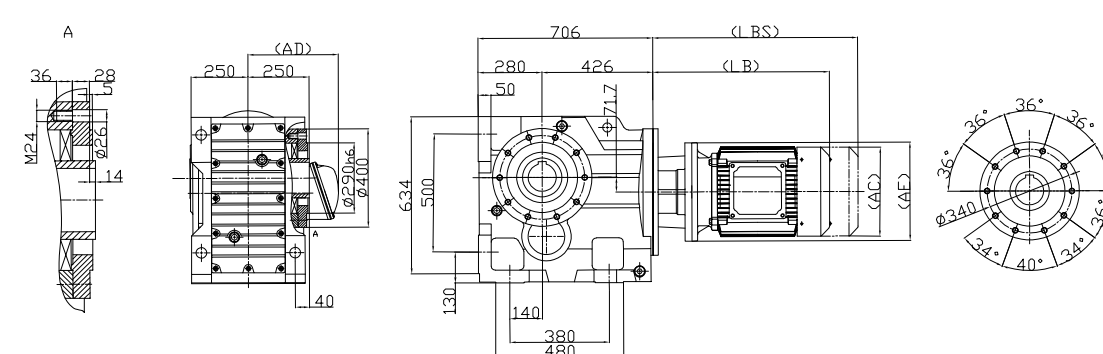
Hollow shaft



Shrink disk



DKAZ157



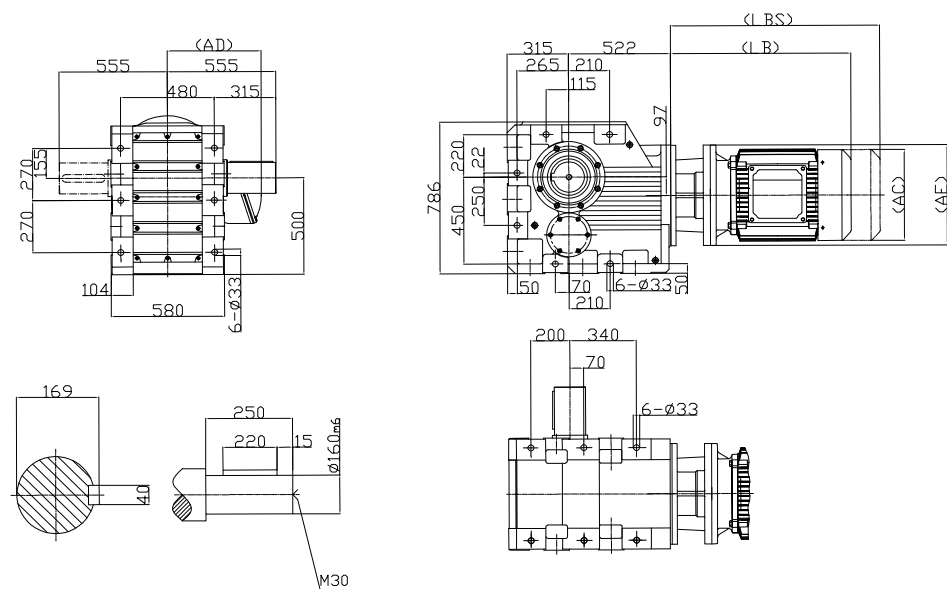
DK157

	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW	110kW	132kW	160kW	200kW
LB	599	643	662	662	707	826	826	831	916	916	1,133	1,133	1,529	1,529
LBS	754	798	817	817	862	981	981	991	1,076	1,076	1,293	1,293	1,689	1,689
AC	317	317	365	365	365	418	418	453	510	510	617	617	650	650
AD	265	265	300	300	300	370	370	400	435	435	550	550	587	587
AE	350	350	350	350	400	450	450	450	550	550	550	550	660	660

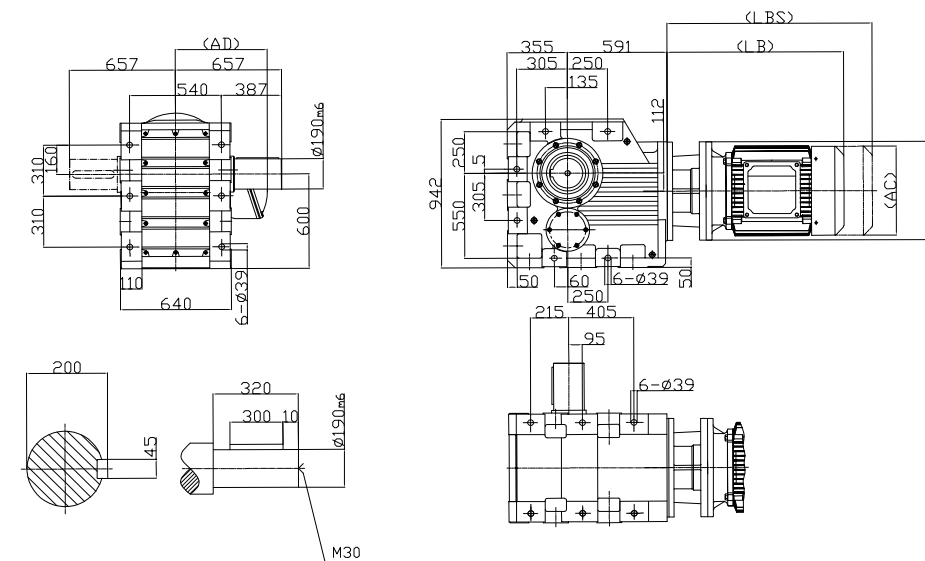
DK157

	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW	110kW	132kW	160kW	200kW
LB	599	643	662	662	707	826	826	831	916	916	1,133	1,133	1,529	1,529
LBS	754	798	817	817	862	981	981	991	1,076	1,076	1,293	1,293	1,689	1,689
AC	317	317	365	365	365	418	418	453	510	510	617	617	650	650
AD	265	265	300	300	300	370	370	400	435	435	550	550	587	587
AE	350	350	350	350	400	450	450	450	550	550	550	550	660	660

DK167

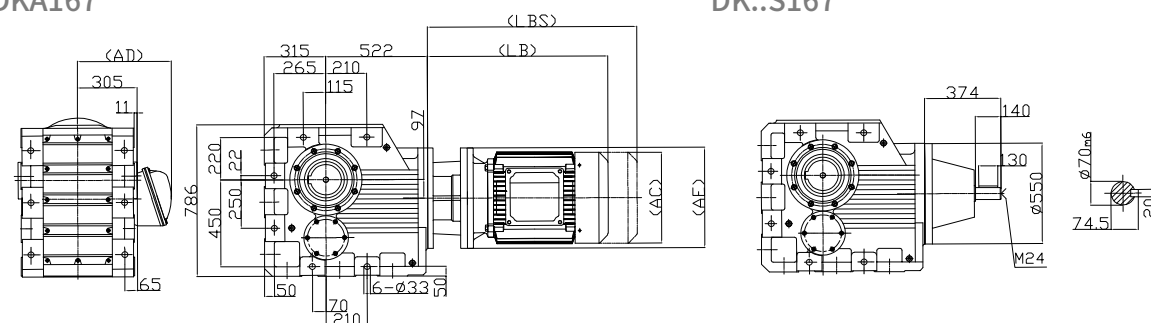


DK187



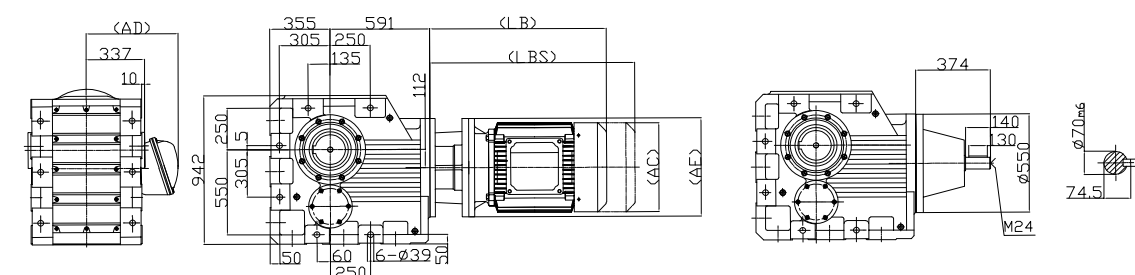
DKA167

DK..S167



DKA187

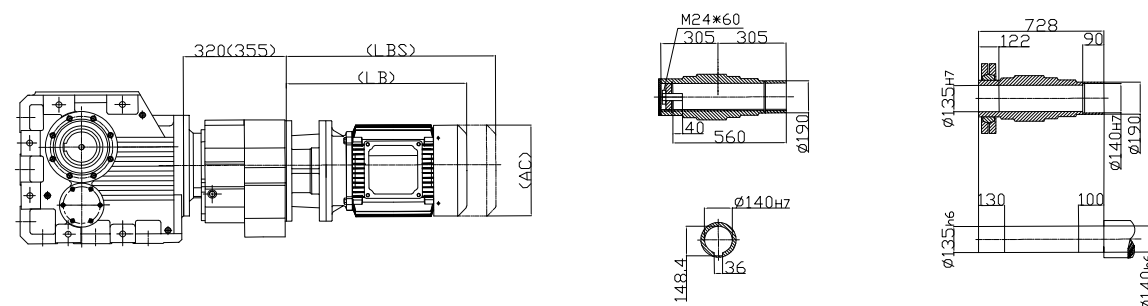
DK..S187



DK..167DR97(107)

Hollow shaft

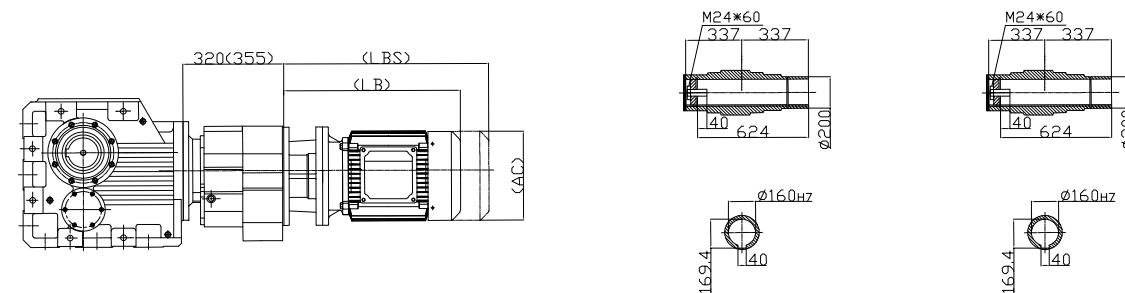
Shrink disk



DK..187DR97(107)

Hollow shaft

Shrink disk



DK187

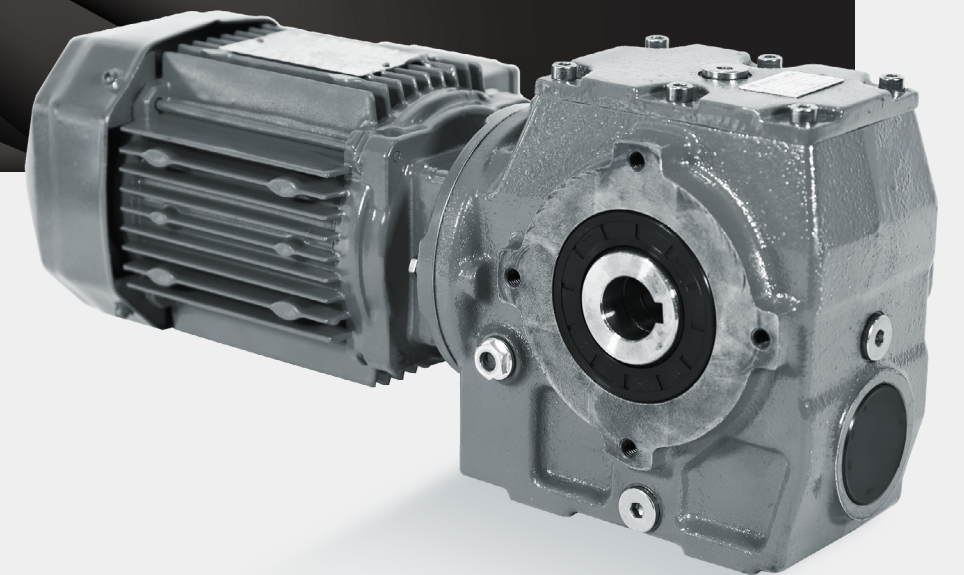
	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW	110kW	132kW	160kW	200kW
LB	599	643	662	662	707	826	826	831	916	916	1,133	1,133	1,529	1,529
LBS	754	798	817	817	862	981	981	991	1,076	1,076	1,293	1,293	1,689	1,689
AC	317	317	365	365	365	418	418	453	510	510	617	617	650	650
AD	265	265	300	300	300	370	370	400	435	435	550	550	587	587
AE	350	350	350	350	400	450	450	450	550	550	550	550	660	660

DK187

	11kW	15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW	110kW	132kW	160kW	200kW
LB	599	643	662	662	707	826	826	831	916	916	1,133	1,133	1,529	1,529
LBS	754	798	817	817	862	981	981	991	1,076	1,076	1,293	1,293	1,689	1,689
AC	317	317	365	365	365	418	418	453	510	510	617	617	650	650
AD	265	265	300	300	300	370	370	400	435	435	550	550	587	587
AE	350	350	350	350	400	450	450	450	550	550	550	550	660	660

DS 시리즈 | DS-Series

헬리컬 웜 감속기 HELICAL WORM GEARED MOTORS



모터 용량 Power	0.4 ~ 22kw
감속기 최대 토크 Gearbox Max Torque	4,000Nm
감속비 Ratio	6.8 ~ 11,267

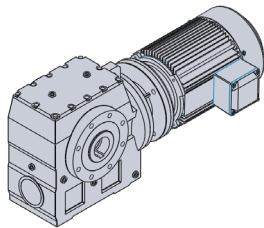
DS 시리즈 | DS-Series

헬리컬 웜 감속기

HELICAL WORM GEARED MOTORS

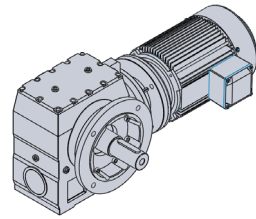
DSA Type

중공축 부착 타입
Helical-worm gear reducer
with hollow shaft



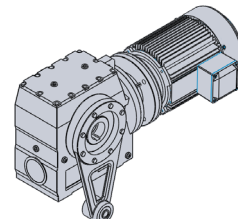
DS Type

바닥 장착형 중실축 타입
Foot-mounted helical-
bevel gear reducer with solid
shaft



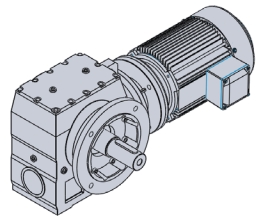
DSAT Type

토크암 부착형 중공축 타입
Helical-worm gear reducer in
torque arm with hollow shaft



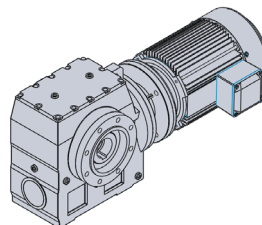
DSF Type

B5플렌지 부착형 중실축 타입
Helical-worm gear reducer in
B5 flange-mounted with solid
shaft



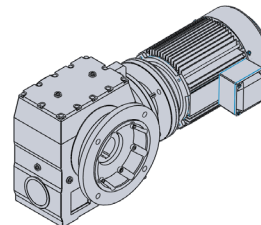
DSAZ Type

B14플렌지 부착형 중공축 타입
Helical-worm gear reducer in
B14 flange with hollow shaft



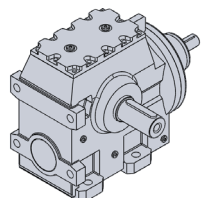
DSAF Type

B5플렌지 부착형 중공축 타입
Helical-worm gear reducer
in B5 flange-mounted with
hollow shaft

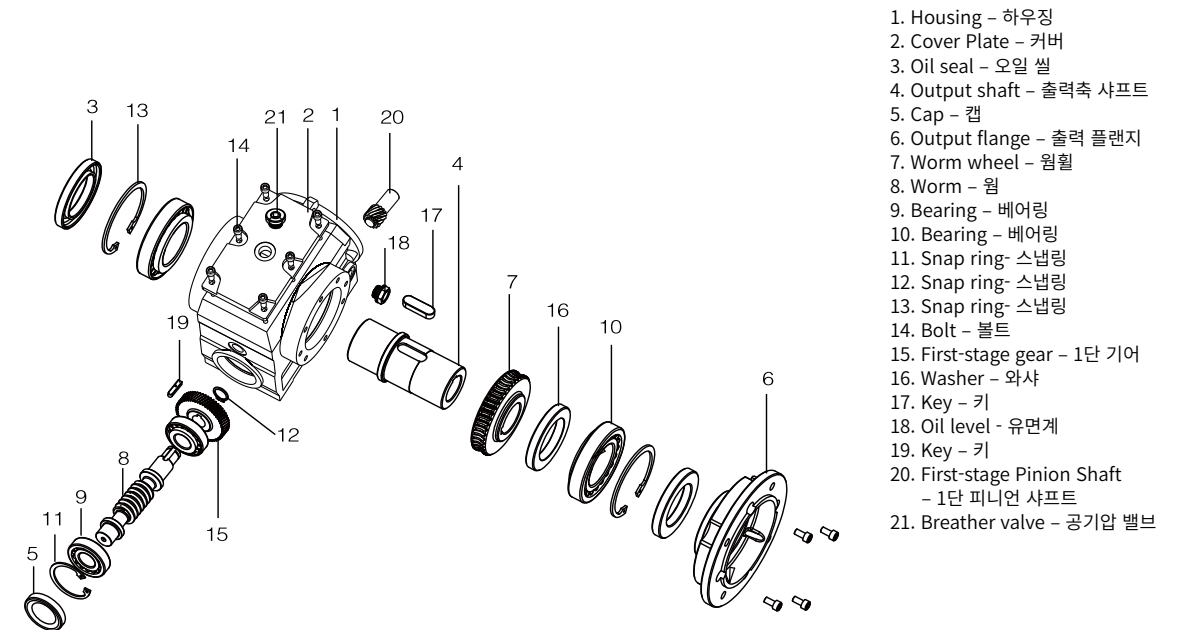


DSS Type

입력 중실축 타입(라인 파워 타입)
Input-shaft style(Line Power
Type)



DS 시리즈 구조 Internal Structure of DS-Series



형식 표시 Instructions for models

형식 표시 (Type) **DSA** - 형번 표시 (Frame No) **67** - 감속비 표시 (Ratio) **29.63** / 모터 용량 (Motor Capacity) **2.2kw** - 모터 전압 (Voltage) **2/3V** - 모터 주파수 (Frequency) **60Hz** (*-*) / 브레이크 표시 (Brake Option) **AC-B**
 모터 옵션 표시 (Motor Option)

예시 Example

DSAF-57-24.77/1.5kw-2/3V-60Hz(INV)/AC-B		DS-87-180/2.2kw-2/3V-50Hz/DC-B(HL)	
감속부	① B5플렌지 장착형 중공축 타입 감속기 ② Gear Box는 57형번이며 감속비는 24.77	감속부	① 본체 장착형 중실축 타입 감속기 ② Gear Box는 87형번이며 감속비는 180
모터	① 1.5kw 용량의 모터 ② 전압: 220/380V, 주파수: 60Hz ③ INVERTER전용 모터	모터	① 2.2kw 용량의 모터 ② 전압: 220/380V, 주파수: 50Hz
기타	① AC-B 브레이크 부착형	기타	① DC-B부착형(수동 해방)
Gear box	① Helical-worm gear reducer in B5 flange-mounted with hollow shaft ② Size: 57, Ratio: 24.77	Gear box	① Foot-mounted helical-worm gear reducer with solid shaft ② Size: 87, Ratio: 180
Motor	① 1.5kw motor ② Voltage: 220/380V, Frequency: 60Hz ③ Use for inverter motor	Motor	① 2.2kw motor ② Voltage: 220/380V, Frequency: 50Hz
Etc	① AC-B Brake	Etc	① DC-B Brake(Hand lever brake)

사이즈/모터 프레임별 IEC플랜지 길이 Length of IEC flange

Reducer Type	Motor Frame	71	80	90	100	112	132	160	180
DS..37		61.5	80	80					
DS..47		61.5	80	80	98				
DS..57		61.5	80	80	98				
DS..67		56	74.5	74.5	90.5	90.5	123		
DS..77		50	68.5	68.5	82.5	82.5	111	152.5	
DS..87			63.5	63.5	78.5	78.5	106	147.5	147.5
DS..97			57.5	57.5	72.5	72.5	101	142.5	142.5

사이즈별 허용토크/모터 용량/감속비 The list for each size of allowable torque, motor and ratio.

사양 Specification	사이즈 Size	37	47	57	67	77	87	97
Allowable Maximum Torque		90	160	290	500	1200	2500	4000
Motor		0.4 ~ 1.5	0.4 ~ 1.5	0.4 ~ 3	0.4 ~ 5.5	0.4 ~ 7.5	0.4 ~ 15	0.4 ~ 22
Ratio		6.8 ~ 202	7.28 ~ 438	7.28 ~ 655	7.56 ~ 1363	8.06 ~ 3540	7.88 ~ 7643	8.26 ~ 11267

형번 별 중량 Gearbox Weight

사이즈 Size	37	47	57	67	77	87	97
중량 Weight	8	11	15	30	50	95	165

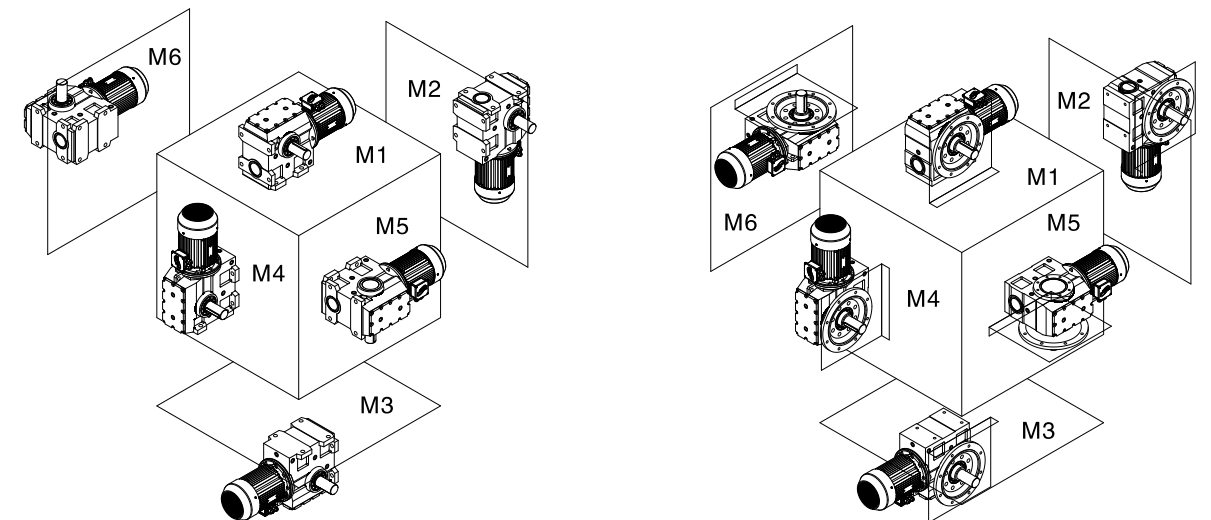
1) 표기 중량은 오일이 포함되어 있지 않으며 기어 비, 기어 단수에 따라 편차가 있을 수 있습니다.

Weight in the table does not include oil, and there would be little gap in terms of gear composition.

2) 표기 중량에 모터 중량은 포함되어 있지 않습니다.

Weight in the table does not include motor.

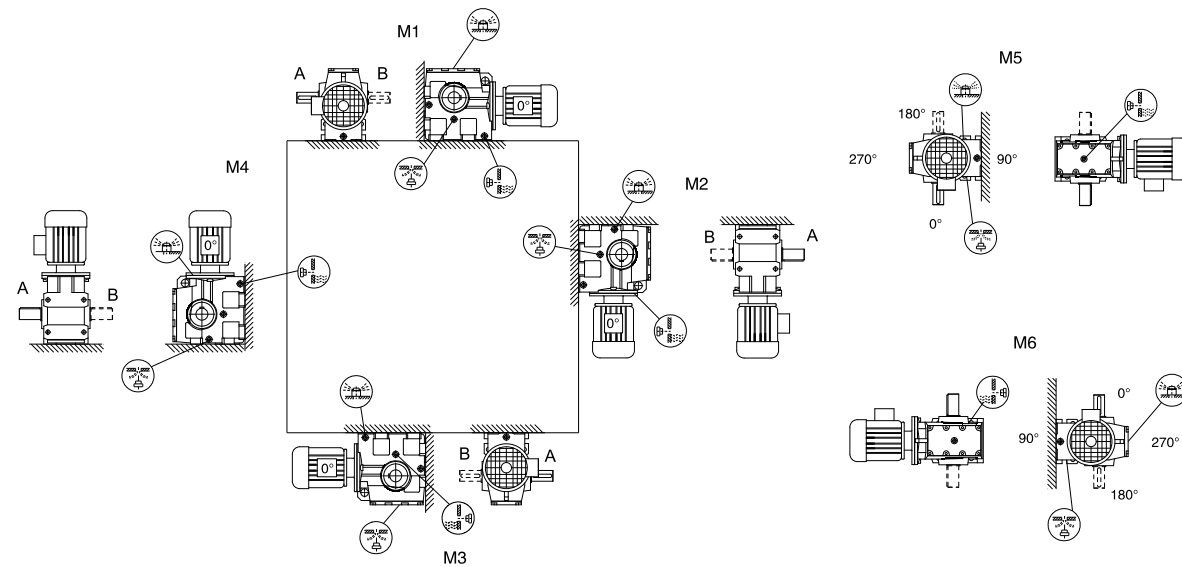
설치 형태 Mounting Position



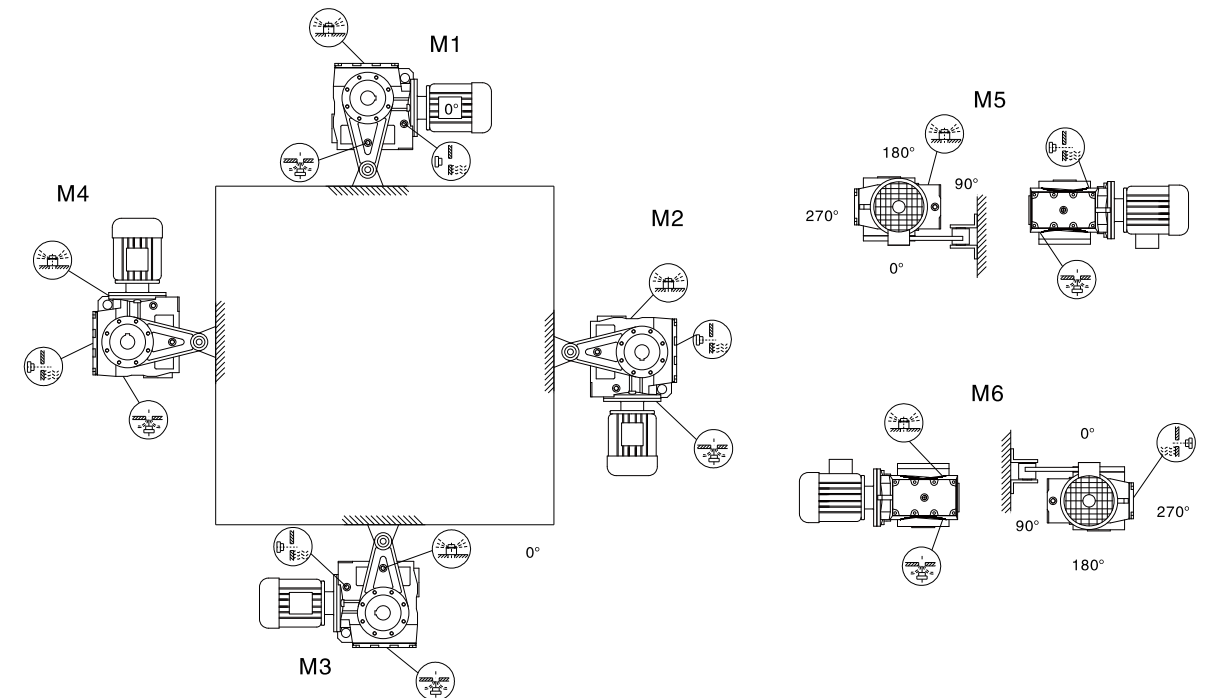
설치 형태에 따른 오일 충전량 Oil capacity table

		단위: Kg					
사이즈 Size	설치형태 position	M1	M2	M3	M4	M5	M6
DS..37		0.2	0.3	0.4	0.5	0.3	0.3
DS..47		0.3	0.6	0.5	0.8	0.6	0.6
DS..57		0.5	1	0.9	1.3	1.1	1.1
DS..67		0.8	1.9	2	2.7	2.2	2.2
DS..77		1.6	3.5	3.1	5	3.7	3.7
DS..87		2.6	6.5	5.5	9.6	6.7	6.7
DS..97		5.3	11.7	10.5	17.6	13.3	13.3

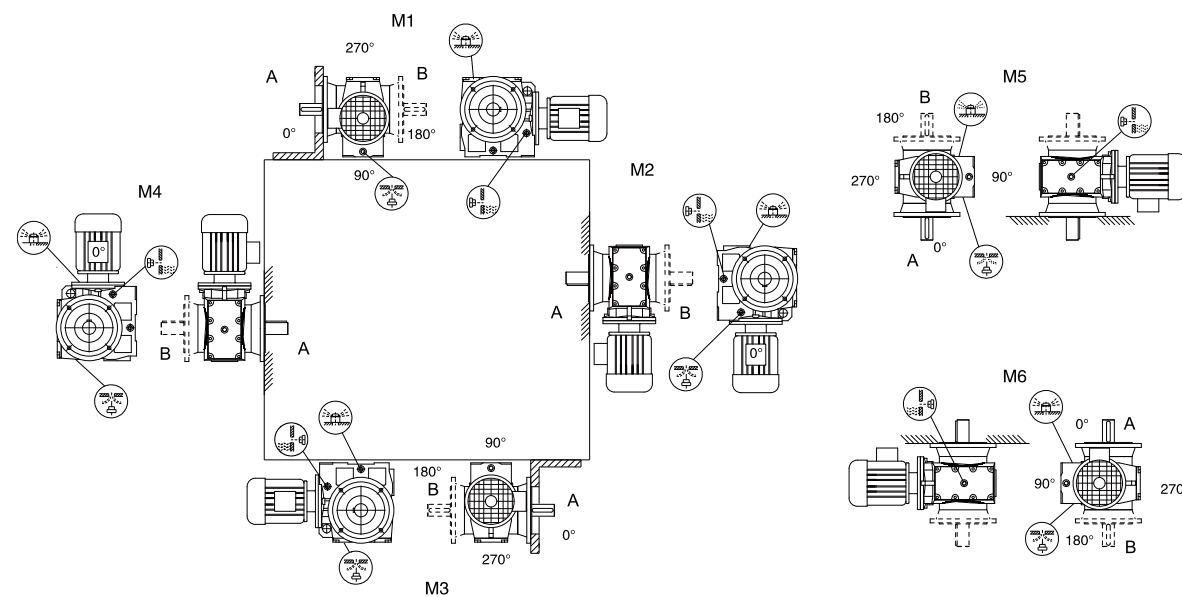
DS37 - 97 설치 예시 DS37-97 Mounting position example



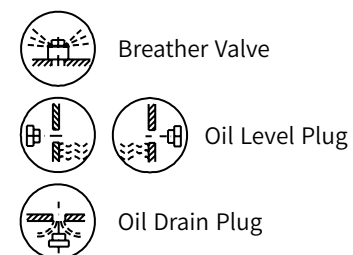
DSAT37 - 97 설치 예시 DS37-97 Mounting position example



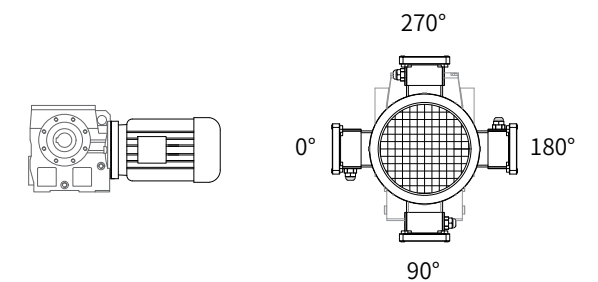
DSA/DSAF37-97 설치 예시 DSA/DSAF37-97 Mounting position example



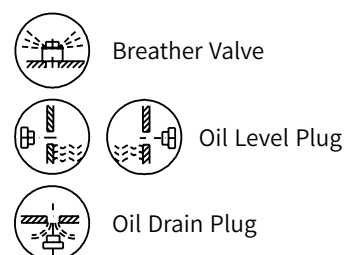
기호 표기 Symbol Mark



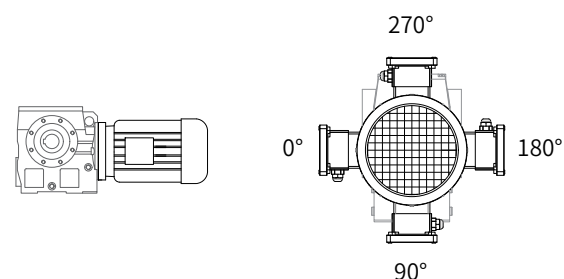
단자박스 표기 Terminal box



기호 표기 Symbol Mark



단자박스 표기 Terminal box



DS-Series 특성표

0.4kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
0.4kw	DS87 DR57	2054	0.8	2535	0.95	25100	0.67	3040	0.80	22100
		1824	0.91	2240	1.05	25500	0.76	2690	0.90	24700
		1631	1.02	2010	1.20	25800	0.85	2410	1.00	25200
		930	1.8	1190	2.10	26600	1.5	1425	1.75	26500
		831	2.04	1070	2.25	26700	1.7	1285	1.90	26600
	DS77 DR37	714	2.28	1165	1.00	12000	1.9	1395	0.85	10200
		637	2.64	1040	1.20	12700	2.2	1245	1.00	11300
		574	2.88	940	1.30	13200	2.4	1125	1.10	12100
		499	3.36	815	1.50	13700	2.8	975	1.25	12900
		438	3.84	710	1.70	14000	3.2	850	1.45	13400
		389	4.2	630	1.95	14200	3.5	755	1.65	13800
	DS67 DR37	365	4.56	555	1.00	7800	3.8	665	0.85	6800
		319	5.16	485	1.10	8300	4.3	580	0.95	7600
		281	5.88	425	1.30	8700	4.9	510	1.10	8100
		246	6.72	385	1.40	8800	5.6	460	1.20	8400
	DS67	217.41	7.56	315	1.60	9100	6.3	375	1.35	8900
		190.11	8.76	280	1.85	9200	7.3	335	1.55	9100
		180.6	9.12	265	1.90	9300	7.6	320	1.60	9200
		158.45	10.4	235	2.20	9400	8.7	280	1.85	9300
		134.4	12	205	2.50	9400	10	245	2.10	9400
	DS57	121.33	13.2	185	2.75	9500	11	220	2.30	9500
		201	8.28	275	1.00	6700	6.9	330	0.85	6300
		184.8	9	260	1.10	6800	7.5	310	0.95	6500
		158.12	10.4	220	1.30	7000	8.7	265	1.10	6800
		137.05	12	200	1.40	7100	10	240	1.20	6900
		128.1	13.2	185	1.55	7100	11	220	1.30	7000
		110.73	14.4	165	1.80	7200	12	195	1.50	7100
		94.08	18	140	2.10	7300	15	170	1.75	7200
		84	19.2	125	2.25	7300	16	150	1.90	7300
		71.75	22.8	110	2.60	7400	19	130	2.20	7300

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
0.4kw	DS57	69.39	24	125	1.90	7300	20	150	1.60	7300
		63.8	26.4	115	2.10	7400	22	140	1.75	7300
		67.2	25.2	105	2.75	7400	21	125	2.30	7300
	DS47	128.1	13.2	180	0.90	4800	11	215	0.75	4700
		110.73	14.4	160	1.00	4900	12	189	0.85	4800
		94.08	18	135	1.20	5000	15	163	1.00	4900
		84	19.2	125	1.30	5000	16	148	1.10	5000
		71.75	22.8	110	1.50	5100	19	129	1.25	5000
		69.39	24	125	1.25	5000	20	147	1.05	4900
		67.2	25.2	100	1.60	5100	21	121	1.35	5000
		63.8	26.4	115	1.35	5000	22	136	1.15	5000
		54.59	30	98	1.50	4800	25	118	1.25	5000
		47.32	34.8	87	1.70	4600	29	104	1.45	4900
		44.22	37.2	81	1.90	4600	31	97	1.60	4800
		38.23	43.2	70	2.20	4400	36	84	1.85	4600
		32.48	50.4	60	2.50	4200	42	72	2.10	4600
		29	57.6	54	2.85	4100	48	65	2.40	4400
		24.77	67.2	47	3.30	3900	56	56	2.75	4100
		23.2	70.8	44	3.40	3800	59	53	2.85	4100
		20.33	81.6	42	2.60	3600	68	50	2.20	3800
		17.62	93.6	36	3.05	3400	78	43	2.55	3600
		16.47	101	33	3.30	3400	84	40	2.75	3600
	DS37	43.68	38.4	78	1.00	2700	32	94	0.85	2700
		37.66	44.4	66	1.10	2700	37	79	0.95	2700
		35.1	46.8	64	1.20	2700	39	77	1.00	2700
		30.68	54	57	1.30	2600	45	68	1.10	2700
		28.76	57.6	53	1.40	2600	48	64	1.20	2700
		25.38	64.8	47	1.50	2500	54	56	1.25	2600
		22.5	73.2	43	1.65	2500	61	51	1.40	2600
		19.89	82.8	40	1.30	2300	69	48	1.10	2300
		18.24	91.2	37	1.40	2200	76	44	1.20	2300
		15.53	107	32	1.55	2200	89	38	1.30	2300
		13.39	124	27	1.70	2100	103	32	1.45	2200
		12.48	133	25	1.85	2100	111	30	1.55	2200

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
0.4kw	DS37	10.91	152	23	2.15	2000	127	27	1.80	2100
		10.23	162	21	2.20	2000	135	25	1.85	2100
		9.02	184	19	2.40	1900	153	23	2.00	2000
		8	208	16	2.75	3000	173	19	2.30	1900
		6.8	244	14	2.90	1800	203	17	2.45	1900

0.75kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
0.75kw	DS97 DR57	1223	1.32	4035	1.00	30200	1.1	4840	0.85	21600
		1070	1.56	3535	1.20	30900	1.3	4240	1.00	29400
		928	1.8	3040	1.35	31600	1.5	3650	1.15	30700
		824	2.04	2690	1.55	32000	1.7	3230	1.30	31300
		714	2.28	1915	2.20	32600	1.9	2300	1.85	32300
		626	2.64	2040	2.00	32600	2.2	2450	1.70	32200
		538	3.12	1760	2.40	32800	2.6	2110	2.00	32500
		484	3.36	1585	2.60	32900	2.8	1900	2.20	32700
	DS87 DR57	1032	1.56	2525	1.00	24900	1.3	3030	0.85	19800
		930	1.8	2315	1.05	25200	1.5	2780	0.90	24300
		831	2.04	2090	1.20	25500	1.7	2510	1.00	24800
		719	2.28	1825	1.35	25900	1.9	2190	1.15	25400
		624	2.64	1600	1.55	26200	2.2	1920	1.30	25800
		558	3	1440	1.70	26400	2.5	1730	1.45	26000
		435	3.84	1160	2.10	26600	3.2	1390	1.75	26500
		323	5.16	885	2.75	26800	4.3	1060	2.30	26700
	DS77 DR37	327	5.04	1035	1.20	12500	4.2	1240	1.00	11100
		289	5.76	925	1.30	13000	4.8	1110	1.10	12000
		250	6.6	800	1.55	13500	5.5	960	1.30	12800
		219	7.56	710	1.70	13900	6.3	850	1.45	13300
	DS87	288	5.76	875	2.60	26800	4.8	1050	2.20	26700
		258.18	6.36	790	2.85	26800	5.3	950	2.40	26800
		222.4	7.44	690	3.35	26900	6.2	830	2.80	26800
		202.96	8.16	640	3.60	26900	6.8	765	3.00	26900

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
0.75kw	DS77	225.26	7.32	660	1.90	12900	6.1	790	1.60	13600
		214	7.68	630	2.00	13100	6.4	755	1.70	13700
		189.09	8.76	565	2.25	13500	7.3	675	1.90	14000
		161.6	10.2	490	2.60	13900	8.5	585	2.20	14200
		148.15	11.2	455	2.75	14000	9.3	545	2.30	14300
		130	13.2	400	3.00	14200	11	480	2.50	14400
		123.2	13.2	385	3.10	14300	11	460	2.60	14400
		107.83	15.6	340	3.45	14400	13	405	2.90	14400
	DS67	190.11	8.76	520	1.00	7900	7.3	625	0.85	7100
		180.6	9.12	495	1.00	8100	7.6	595	0.85	7300
		158.45	10.4	440	1.20	8400	8.7	530	1.00	7900
		134.4	12	385	1.35	8800	10	460	1.15	8400
		121.33	13.2	350	1.50	9000	11	420	1.25	8600
		106.75	15.6	315	1.65	9100	13	375	1.40	8800
		100.8	16.8	295	1.65	9200	14	355	1.40	8900
		85.83	19.2	255	2.00	9300	16	305	1.70	9100
		75.06	21.6	260	1.85	9300	18	310	1.55	9100
		65.63	25.2	230	2.10	9100	21	275	1.75	10200
		62.35	26.4	215	2.20	9000	22	260	1.85	9300
		54.7	30	190	2.50	8700	25	230	2.10	9200
		46.4	36	165	2.85	8300	30	198	2.40	8900
	DS57	110.73	14.4	305	0.95	6400	12	365	0.80	5900
		94.08	18	265	1.10	6700	15	315	0.95	6300
		84	19.2	240	1.25	6800	16	285	1.05	6600
		71.75	22.8	210	1.35	7000	19	250	1.15	6800
		67.2	25.2	195	1.40	7100	21	235	1.20	6900
		54.59	30	190	1.30	7100	25	225	1.10	6900
		47.32	34.8	165	1.40	7200	29	197	1.20	7100
		44.22	37.2	155	1.60	7000	31	185	1.35	7100
		38.23	43.2	140	1.80	6800	36	167	1.50	7100
		32.48	50.4	115	2.15	6500	42	138	1.80	6800
		29	57.6	105	2.40	6300	48	124	2.00	6600
		24.77	67.2	89	2.75	6000	56	107	2.30	6400
		23.2	70.8	83	3.00	5900	59	100	2.50	6300

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
0.75kw	DS57	20.33	81.6	78	2.15	5500	68	93	1.80	5800
		17.62	93.6	68	2.50	5600	78	81	2.10	5600
		16.47	101	63	2.60	5300	84	76	2.20	5500
		14.24	116	55	3.10	5000	97	66	2.60	5300
	DS47	47.32	34.8	160	0.95	4000	29	194	0.80	4100
		44.22	37.2	150	1.00	3900	31	182	0.85	4000
		38.23	43.2	135	1.20	3800	36	159	1.00	4000
		32.48	50.4	115	1.35	3700	42	136	1.15	3900
		29	57.6	100	1.50	3600	48	122	1.25	3800
		24.77	67.2	88	1.70	3500	56	106	1.45	3700

1.5kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
1.5kw	DS97 DR57	714	2.4	3825	1.05	30300	2	4590	0.90	27500
		626	2.64	4075	1.00	30000	2.2	4890	0.85	20300
		538	3.12	3515	1.20	30900	2.6	4220	1.00	29500
		484	3.48	3175	1.30	31300	2.9	3810	1.10	30300
		420	4.08	2760	1.50	31800	3.4	3310	1.25	31100
		376	4.56	2490	1.65	32100	3.8	2990	1.40	31600
		327	5.16	2190	1.90	32400	4.3	2630	1.60	32000
	DS87 DR57	485	3.48	2550	0.95	24700	2.9	3060	0.80	18100
		435	3.84	2315	1.05	25200	3.2	2780	0.90	24300
		378	4.44	2040	1.20	25600	3.7	2450	1.00	24900
		323	5.28	1775	1.35	26000	4.4	2130	1.15	25500
		281	6	1560	1.55	26200	5	1870	1.30	25800
		255	6.6	1665	1.20	26100	5.5	2000	1.00	25700
		222	7.56	1460	1.35	26300	6.3	1750	1.15	26000
		205	8.28	1360	1.40	26400	6.9	1630	1.20	26100
	DS97	286.4	5.88	1775	2.25	32700	4.9	2130	1.90	32500
		262.22	6.48	1640	2.40	32800	5.4	1970	2.00	32700
		231.67	7.32	1465	2.75	32900	6.1	1760	2.30	32800
		196.52	8.64	1260	3.20	21000	7.2	1510	2.70	32900

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
1.5kw	DS87	288	6.12	1715	1.30	26000	5.1	2060	1.10	25700
		258.18	6.6	1550	1.40	26200	5.5	1860	1.20	25800
		222.4	7.56	1360	1.65	26400	6.3	1630	1.40	26100
		202.96	8.28	1250	1.80	26500	6.9	1500	1.50	26300
		180	9.36	1115	1.95	26600	7.8	1340	1.65	26500
		151.3	11.2	950	2.25	26800	9.3	1140	1.90	26600
		139.05	12	885	2.40	26800	10	1060	2.00	26600
		123.48	13.2	790	2.60	26800	11	950	2.20	26700
		110.4	15.6	710	2.75	26900	13	850	2.30	26800
		99.26	16.8	640	3.00	26900	14	770	2.50	26900
	DS77	189.09	9	1110	1.10	12000	7.5	1330	0.95	10400
		161.6	10.4	960	1.30	12800	8.7	1150	1.10	11700
		148.15	11.4	885	1.35	13100	9.5	1060	1.15	12100
		130	13.2	785	1.55	13600	11	940	1.30	12700
		123.2	13.2	750	1.60	13700	11	900	1.35	13000
		107.83	15.6	665	1.70	13900	13	795	1.45	13400
		97.14	18	605	1.90	13600	15	725	1.60	13800
		85.22	20.4	535	2.00	13200	17	640	1.70	13900
		75.09	22.8	540	2.00	12200	19	650	1.70	12700
		71.33	24	515	2.15	12100	20	620	1.80	12500
		66.67	25.2	425	2.40	12400	21	510	2.00	13000
		63.03	26.4	460	2.40	11700	22	550	2.00	12200
		56.92	30	365	2.75	11900	25	440	2.30	12600
		53.87	31.2	390	2.75	11300	26	470	2.30	11900
		49.38	34.8	365	3.00	11100	29	435	2.50	11700
		43.33	39.6	320	3.45	10700	33	385	2.90	11300
	DS67	85.83	19.2	500	1.00	8100	16	600	0.85	7300
		78	21.6	460	1.10	8400	18	550	0.95	7700
		65.63	25.2	450	1.05	7900	21	540	0.90	7800
		62.35	27.6	430	1.10	7800	23	515	0.95	8000
		54.7	31.2	380	1.25	7700	26	455	1.05	7900
		46.4	36	325	1.50	7400	30	390	1.25	7700
		41.89	40.8	295	1.60	7300	34	355	1.36	7600
		36.85	45.6	260	1.85	7100	38	310	1.55	7400

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
1.5kw	DS67	34.8	49.2	245	1.90	7000	41	295	1.60	7300
		29.63	57.6	215	2.25	6800	48	255	1.90	7100
		26.93	62.4	190	2.50	6600	52	230	2.10	6900
		24.44	69.6	185	1.85	6100	58	220	1.55	6300
		23.22	73.2	175	1.90	6000	61	210	1.60	6300
		20.37	82.8	155	2.20	5900	69	186	1.85	6100
		17.28	98.4	135	2.50	5700	82	159	2.10	5900
		15.6	108	120	2.85	5600	90	144	2.40	5800
		13.73	124	105	3.20	5400	103	127	2.70	5600
	DS57	32.48	51.6	225	1.05	5800	43	270	0.90	5900
		29	58.8	205	1.20	5600	49	245	1.00	5800
		24.77	68.4	175	1.35	5500	57	210	1.15	5700
		23.2	73.2	165	1.50	5400	61	196	1.25	5600
		19.54	86.4	140	1.55	5200	72	167	1.30	5400
		17.62	96	135	1.25	4800	80	159	1.05	4900
		16.47	103	125	1.35	4700	86	149	1.15	4900

2.2kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
2.2kw	DS97 DR57	420	4.08	4085	1.00	29800	3.4	4900	0.85	20000
		376	4.56	3675	1.10	30400	3.8	4410	0.95	26600
		327	5.16	3225	1.30	31100	4.3	3870	1.10	30200
		287	5.88	2850	1.50	31600	4.9	3420	1.25	31000
		252	6.72	2500	1.65	32000	5.6	3000	1.40	31500
		231.67	7.32	2140	1.85	31300	6.1	2570	1.55	32000
	DS97	196.52	8.64	1840	2.15	31800	7.2	2210	1.80	32400
		180.95	9.36	1710	2.25	32800	7.8	2050	1.90	32500
		161.74	10.4	1535	2.50	32900	8.7	1840	2.10	32700
		145.6	11.6	1390	2.60	33000	9.7	1670	2.20	32900
		131.85	13.2	1265	2.85	33000	11	1520	2.40	32900
		116.92	14.4	1135	3.10	33100	12	1360	2.60	33000
		105.71	15.6	1035	3.35	33100	13	1240	2.80	33100
		89.6	19.2	885	3.70	33200	16	1060	3.10	33200

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
2.2kw	DS87	258.18	6.6	2275	1.00	25100	5.5	2730	0.85	24400
		222.4	7.56	1985	1.10	25600	6.3	2380	0.95	24900
		202.96	8.28	1825	1.25	25800	6.9	2190	1.05	25300
		180	9.36	1640	1.30	24900	7.8	1970	1.10	25700
		151.3	11.2	1400	1.55	26400	9.3	1680	1.30	26000
		139.05	12	1290	1.60	26400	10	1550	1.35	26200
		123.48	13.2	1160	1.80	26600	11	1390	1.50	26400
		110.4	15.6	1040	1.90	26700	13	1250	1.60	26600
		99.26	16.8	940	2.10	26700	14	1130	1.75	26600
		86.15	19.2	825	2.25	26800	16	990	1.90	26700
		81.76	20.4	860	1.80	26800	17	1030	1.50	26600
		77.14	21.6	740	2.40	26900	18	890	2.00	26800
		70.43	24	765	2.10	26800	20	920	1.75	26700
		64.27	26.4	700	2.25	26900	22	840	1.90	26800
		57	30	625	2.50	26900	25	750	2.10	26900
	DS77	130	13.2	1160	1.00	11500	11	1390	0.85	8200
		123.2	13.2	1100	1.05	11800	11	1320	0.90	10000
		107.83	15.6	975	1.20	12600	13	1170	1.00	11300
		97.14	18	885	1.30	12400	15	1060	1.10	12100
		85.22	20.4	785	1.35	12200	17	940	1.15	12700
		75.2	22.8	700	1.55	11900	19	840	1.30	12400
		66.67	25.2	620	1.65	11600	21	745	1.40	12200
		63.03	26.4	675	1.60	10800	22	810	1.35	11200
		56.92	30	540	1.85	11200	25	645	1.55	11800
		53.87	31.2	580	1.90	10500	26	695	1.60	10900
		49.38	34.8	530	2.10	10300	29	635	1.75	10700
		43.33	39.6	465	2.30	10000	33	560	1.95	10500
		41.07	40.8	445	2.50	10000	34	535	2.10	10400
		35.94	46.8	390	2.75	9700	39	470	2.30	10200
		32.38	52.8	355	3.10	9400	44	425	2.60	9900
		28.41	60	315	3.35	9200	50	375	2.80	9600
		25.07	67.2	275	3.70	8900	56	330	3.10	9400
		22.89	74.4	260	2.75	8200	62	310	2.30	8500
		20.99	80.4	240	3.00	8100	67	285	2.50	8400

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
2.2kw	DS67	46.4	36	475	1.00	6600	30	570	0.85	6700
		41.89	40.8	430	1.10	6500	34	515	0.95	6700
		36.85	45.6	385	1.25	6400	38	460	1.05	6600
		34.8	49.2	365	1.30	6400	41	435	1.10	6600
		29.63	57.6	310	1.55	6200	48	370	1.30	6500
		26.93	62.4	285	1.65	6100	52	340	1.40	6400
		23.33	72	245	1.90	6000	60	295	1.60	6200
		20.37	82.8	230	1.50	5400	69	275	1.25	5500
		17.28	98.4	195	1.70	5200	82	235	1.45	5400
		15.6	108	175	1.90	5100	90	210	1.60	5300
		13.73	124	155	2.20	5000	103	186	1.85	5200
		12.96	131	145	2.30	5000	109	176	1.95	5100
		11.03	154	125	2.75	4800	128	151	2.30	5000
		10.03	169	115	3.00	4700	141	137	2.50	4900
		8.69	194	99	3.35	4600	162	119	2.80	4800
	DS57	14.24	119	160	1.05	4100	99	190	0.90	4200
		12.1	140	135	1.25	4000	117	162	1.05	4100
		10.8	157	120	1.35	4000	131	145	1.15	4100
		9.23	184	105	1.60	3800	153	124	1.35	4000
		8.64	196	98	1.65	2600	163	117	1.40	4000
		7.28	233	83	1.80	3700	194	99	1.50	3800

3.7kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
3.7kw	DS97 DR57	219	7.8	3685	1.10	30400	6.5	4422	0.95	22100
		205	8.28	3460	1.20	30800	6.9	4153	1.00	26000
	DS97	231.67	7.32	3585	1.05	30600	6.1	4301	0.90	27300
		196.52	8.64	3075	1.25	31400	7.2	3691	1.05	30100
		180.95	9.36	2855	1.30	31600	7.8	3423	1.10	30600
		161.74	10.56	2565	1.40	32000	8.8	3080	1.20	31100
		145.6	11.76	2330	1.60	32200	9.8	2794	1.35	31600
		131.85	13.2	2120	1.70	32400	11	2544	1.45	31900

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
3.7kw	DS97	116.92	14.4	1895	1.85	32600	12	2276	1.55	32100
		105.71	15.6	1720	1.95	32800	13	2063	1.65	32300
		89.6	19.2	1475	2.15	32900	16	1767	1.80	32700
		80.85	21.6	1495	2.10	32900	18	1795	1.75	32600
		71.43	24	1325	2.45	33000	20	1591	2.05	32800
		60.59	27.6	1135	2.80	33100	23	1360	2.35	32900
	DS87	123.48	14.4	1935	1.00	25700	12	2322	0.85	24800
		110.4	15.6	1745	1.10	26000	13	2091	0.95	25200
		99.26	16.8	1575	1.20	26200	14	1887	1.00	25600
		86.15	19.2	1380	1.30	26400	16	1656	1.10	25900
		77.14	21.6	1240	1.40	26500	18	1489	1.20	26100
		70.43	24	1280	1.20	26400	20	1536	1.00	26000
		64.27	26.4	1170	1.30	26600	22	1406	1.10	26200
		57	30	1040	1.50	26600	25	1249	1.25	26400
		47.91	36	885	1.80	26800	30	1064	1.50	26600
		44.03	38.4	820	1.90	26800	32	981	1.60	26600
		39.1	43.2	725	2.15	26400	36	870	1.80	26700
		34.96	49.2	650	2.45	25700	41	777	2.05	26800
		31.43	54	585	2.70	25000	45	703	2.25	26200
		25.5	67.2	490	2.50	23100	56	587	2.10	23900
	DS77	56.92	30	895	1.05	9800	25	1073	0.90	9700
		53.87	31.2	965	1.10	8800	26	1156	0.95	8300
		49.38	34.8	885	1.20	8800	29	1064	1.00	8400
		43.33	39.6	785	1.35	8700	33	944	1.15	8400
		41.07	42	740	1.40	8600	35	888	1.20	8400
		35.94	48	655	1.65	8500	40	786	1.40	8400
		32.38	52.8	590	1.80	8400	44	708	1.50	8400
		28.41	60	520	1.95	8200	50	624	1.65	8300
		25.07	68.4	465	2.15	8100	57	555	1.80	8200
		22.89	74.4	435	1.60	7200	62	523	1.35	6900
		20.99	81.6	400	1.70	7100	68	481	1.45	6900
		18.42	92.4	350	1.95	7000	77	421	1.65	6900
		17.45	97.2	335	2.10	7000	81	402	1.75	6800
		15.28	112	295	2.40	6800	93	352	2.00	6800

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
3.7kw	DS77	13.76	124	265	2.70	6700	103	319	2.25	6700
		12.07	142	230	3.05	6500	118	278	2.55	6600
		10.65	160	205	3.45	6400	133	245	2.90	6500
		9.44	180	180	4.00	5200	150	217	3.35	6400
		8.06	211	160	4.25	5000	176	190	3.55	6200
	DS67	17.28	98.4	325	1.00	4300	82	389	0.85	3400
		15.6	109	295	1.10	4300	91	352	0.95	3800
		13.73	124	260	1.25	4300	103	310	1.05	4100
		12.96	132	245	1.30	4300	110	296	1.10	4100
		11.03	155	210	1.60	4200	129	250	1.35	4100
		10.03	170	190	1.70	4200	142	227	1.45	4100
		8.69	196	165	1.95	4100	163	199	1.65	4000
		7.56	226	145	1.95	4000	188	174	1.65	4000

5.5kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
5.5kw	DS97	145.6	11.76	3440	1.05	30800	9.8	4130	0.90	29800
		131.85	13.2	3135	1.10	31200	11	3760	0.95	30400
		116.92	14.4	2800	1.25	31700	12	3360	1.05	31000
		105.71	16.8	2540	1.35	32000	14	3050	1.15	31400
		89.6	19.2	2175	1.50	32400	16	2610	1.25	32000
		78.26	21.6	1910	1.60	32600	18	2290	1.35	32300
		71.43	24	1960	1.65	32600	20	2350	1.40	32200
		65.45	26.4	1610	1.80	32800	22	1930	1.50	32600
		60.59	28.8	1665	1.95	32800	24	2000	1.65	32600
		55.79	31.2	1540	2.15	32900	26	1850	1.80	32700
		49.87	34.8	1385	2.40	33000	29	1660	2.00	32900
		44.89	38.4	1250	2.60	33000	32	1500	2.20	32900
		40.65	42	1135	2.85	33000	35	1360	2.40	33000
	DS87	64	26.4	1540	1.05	26200	22	1850	0.90	25800
		57	30	1540	1.00	26200	25	1850	0.85	25800

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
5.5kw	DS87	47.91	36	1300	1.20	26200	30	1560	1.00	26200
		44.03	38.4	1200	1.30	25800	32	1440	1.10	26400
		39.1	44.4	1065	1.50	25200	37	1280	1.25	26200
		34.96	49.2	960	1.65	24600	41	1150	1.40	25700
		31.43	54	865	1.85	24000	45	1040	1.55	25200
		27.28	62.4	760	2.10	23300	52	910	1.75	24500
		25.5	67.2	725	1.70	22000	56	870	1.45	22700
		21.43	80.4	610	2.00	21200	67	730	1.70	22100
		19.7	87.6	565	2.20	20800	73	675	1.85	21700
		17.49	98.4	500	2.50	20300	82	600	2.10	21200
		15.64	109	445	2.75	19800	91	535	2.30	20700
		14.06	122	405	3.10	19300	102	485	2.60	20300
		12.21	140	350	3.60	18700	117	420	3.00	19600
		10.93	157	315	3.95	18200	131	375	3.30	19100
	DS77	41.07	42	1100	1.00	7000	35	1320	0.85	6900
		35.94	48	965	1.10	7100	40	1160	0.95	7000
		32.38	52.8	875	1.25	7100	44	1050	1.05	7100
		28.41	60	765	1.35	7100	50	920	1.15	7200
		25.07	68.4	685	1.50	7100	57	820	1.25	7100
		22.22	76.8	605	1.60	7000	64	725	1.35	7200
		18.41	93.6	520	1.35	6000	78	625	1.15	5600
		17.45	98.4	490	1.40	6000	82	590	1.20	5800
		15.28	113	435	1.60	5900	94	520	1.35	6000
		13.76	125	390	1.80	5900	104	470	1.50	6000
		12.07	142	340	2.10	5800	118	410	1.75	6000
		10.65	161	305	2.40	5800	134	365	2.00	5900
		9.44	181	270	2.60	5600	151	325	2.20	5800
		8.06	212	230	3.00	5500	177	275	2.50	5700
	DS67	11.03	156	310	1.05	3200	130	370	0.90	2800
		10.03	172	285	1.20	3400	143	340	1.00	3100
		8.69	198	245	1.35	3500	165	295	1.15	3300
		7.56	227	215	1.35	3500	189	255	1.15	3500

7.5kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
7.5kw	DS97	105.71	16.8	3375	0.95	30900	14	4050	0.80	29800
		89.6	19.2	2885	1.00	31600	16	3460	0.85	30800
		78.26	21.6	2535	1.10	32000	18	3040	0.95	31400
		71.43	24	2600	1.25	31900	20	3120	1.05	31100
		65.45	26.4	2135	1.25	32400	22	2560	1.05	32000
		60.59	28.8	2215	1.50	32300	24	2660	1.25	31800
		55.79	31.2	2040	1.60	32500	26	2450	1.35	32000
		49.87	34.8	1835	1.80	32600	29	2200	1.50	32300
		44.89	38.4	1650	1.95	32600	32	1980	1.65	32500
		40.65	42	1500	2.15	32000	35	1800	1.80	32700
		36.05	48	1335	2.30	31200	40	1600	1.95	32600
		32.6	54	1210	2.40	30500	45	1450	2.00	32000
		26.39	64.8	1010	2.60	27800	54	1210	2.20	28800
		23.59	73.2	900	2.85	27200	61	1080	2.40	28300
		21.23	80.4	810	3.10	26600	67	970	2.60	27600
		19.23	88.8	735	3.35	26000	74	880	2.80	27100
	DS87	44.03	38.4	1590	0.95	24400	32	1910	0.80	25000
		39.1	44.4	1415	1.05	23900	37	1700	0.90	24700
		34.96	49.2	1275	1.20	23500	41	1530	1.00	24300
		31.43	54	1150	1.35	23000	45	1380	1.15	23900
		27.28	62.4	1000	1.55	22400	52	1200	1.30	23300
		25.5	67.2	960	1.25	20800	56	1150	1.05	21300
		21.43	80.4	810	1.50	20200	67	970	1.25	20900
		19.7	87.6	740	1.60	20000	73	890	1.35	20600
		17.49	98.4	665	1.80	19500	82	795	1.50	20200
		15.64	109	590	2.00	19100	91	710	1.70	19800
		14.06	122	535	2.25	18700	102	640	1.90	19400
		12.21	140	465	2.60	18100	117	555	2.20	18900
		10.93	157	415	2.85	17700	131	500	2.40	18500
		9.07	190	345	3.20	17000	158	415	2.70	17700
		7.88	217	300	3.20	16400	181	360	2.70	17200

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
7.5kw	DS77	28.41	60	1015	1.00	6000	50	1220	0.85	5700
		25.07	68.4	900	1.05	6100	57	1080	0.90	5900
		22.22	76.8	800	1.20	6100	64	960	1.00	5900
		18.42	93.6	685	1.00	3400	78	820	0.85	2100
		17.45	98.4	655	1.05	3600	82	785	0.90	2500
		15.28	113	570	1.20	4200	94	685	1.00	3300
		13.76	125	515	1.30	4600	104	620	1.10	3800
		12.07	142	455	1.55	5100	118	545	1.30	4400
		10.65	161	400	1.70	5100	134	480	1.45	4800
		9.44	181	355	1.95	5100	151	425	1.65	5100
		8.06	212	305	2.15	5000	177	365	1.80	5100

11kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
11kw	DS97	55.79	31.2	3060	1.05	31200	26	3670	0.90	30600
		49.87	34.8	2740	1.20	30800	29	3290	1.00	31100
		44.89	38.4	2475	1.30	30400	32	2970	1.10	31300
		40.65	42	2250	1.40	29900	35	2700	1.20	30900
		36.05	48	2000	1.65	29300	40	2400	1.40	30300
		32.6	52.8	1810	1.70	28800	44	2170	1.45	29900
		26.39	66	1510	1.70	25900	55	1810	1.45	26700
		23.59	73.2	1350	1.90	25500	61	1620	1.60	26300
		21.23	81.6	1215	2.15	25000	68	1460	1.80	25900
		19.23	90	1100	2.30	24600	75	1320	1.95	25500
		17.05	100	985	2.60	24000	84	1180	2.20	25000
		15.42	110	890	2.75	23600	93	1070	2.30	24500
		13.07	130	750	3.10	22800	110	900	2.60	23800
		11.41	151	660	3.35	22100	126	790	2.80	23100
	DS87	27.28	63.6	1500	1.05	20700	53	1800	0.90	21300
		24.43	70.8	1340	1.20	20400	59	1610	1.00	21100
		20.27	85.2	1115	1.40	19800	71	1340	1.20	20500
		19.7	87.6	1115	1.10	18200	73	1340	0.95	18600

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
11kw	DS87	17.49	98.4	990	1.25	18000	82	1190	1.05	18200
		15.64	110	890	1.35	17700	92	1070	1.15	18200
		14.06	120	800	1.55	17400	102	960	1.30	18000
		12.21	140	700	1.80	17000	118	840	1.50	17600
		10.93	160	625	1.95	16700	132	750	1.65	17400
		9.07	190	520	2.20	16200	159	625	1.85	16800
		7.88	220	455	2.20	15700	183	545	1.85	16400

15kw

Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
15kw	DS97	44.89	39.6	3335	1.00	28100	33	4000	0.85	28400
		40.65	43.2	3025	1.05	27800	36	3630	0.90	28300
		36.05	49.2	2690	1.20	27500	41	3230	1.00	28000
		32.6	54	2435	1.30	27200	45	2920	1.10	27700
		26.39	66	2025	1.25	24000	55	2430	1.05	23800
		23.59	74.4	1815	1.40	23700	62	2180	1.20	23700
		21.23	70.8	1640	1.55	23500	59	1970	1.30	23600
		19.23	91.2	1485	1.70	23200	76	1780	1.45	23400
		17.05	103	1315	1.90	22800	86	1580	1.60	23100
		15.42	114	1190	2.00	22400	95	1430	1.70	22900
		13.07	134	1015	2.25	21800	112	1220	1.90	22300
		11.41	154	885	2.50	21300	128	1060	2.10	21900
		9.55	184	740	2.75	20600	153	890	2.30	21200
		8.26	212	645	2.75	20000	177	775	2.30	20600
	DS87	15.64	112	1190	1.00	16300	93	1430	0.85	15100
		14.06	125	1075	1.10	16200	104	1290	0.95	16100
		12.21	144	935	1.30	16000	120	1120	1.10	16000
		10.93	161	840	1.50	15800	134	1010	1.25	15800
		9.07	193	700	1.60	15300	161	840	1.35	15600
		7.88	222	610	1.65	15000	185	730	1.40	15300

18.5kw

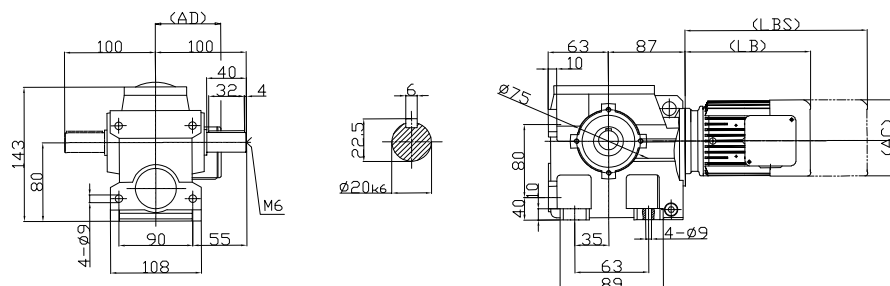
Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
18.5kw	DS97	32.6	54	2990	1.00	25500	45	3590	0.85	25800
		27.63	63.6	2550	1.10	25100	53	3060	0.95	25700
		24.13	73.2	2235	1.25	24700	61	2680	1.05	25300
		21.23	82.8	2015	1.30	21900	69	2420	1.1	22100
		19.23	91.2	1825	1.40	21800	76	2190	1.2	22100
		17.05	103	1625	1.55	21600	86	1950	1.3	22000
		15.42	114	1465	1.65	21300	95	1760	1.4	21800
		13.07	134	1250	1.70	20900	112	1500	1.45	21400
		11.41	154	1090	1.85	20400	128	1310	1.55	21100
		9.55	184	915	1.85	19800	153	1100	1.55	20500
		8.26	212	790	1.85	19300	177	950	1.55	20100

22kw

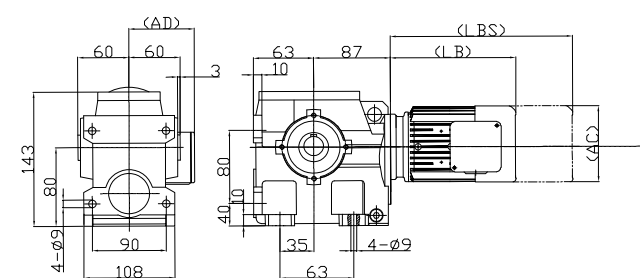
Motor	Type	i	60Hz				50Hz			
			n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]	n _a [1/MIN]	M _a [Nm]	F _b	OHL[N]
22kw	DS97	24.13	73.2	2650	1.05	23500	61	3180	0.90	23900
		21.23	82.8	2390	1.05	19200	69	2870	0.90	16700
		19.23	91.2	2165	1.20	20400	76	2600	1.00	19600
		17.05	103	1925	1.30	20300	86	2310	1.10	20100
		15.42	114	1740	1.40	20200	95	2090	1.20	20200
		13.07	134	1485	1.55	19900	112	1780	1.30	20100
		11.41	154	1300	1.65	19600	128	1560	1.40	19900
		9.55	184	1085	1.85	19200	153	1300	1.55	19500
		8.26	212	940	1.85	18700	177	1130	1.55	19200

DS-Series 도면

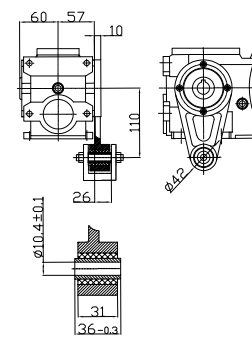
DS37



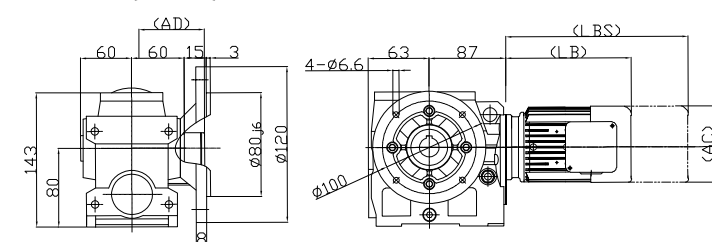
DSA37



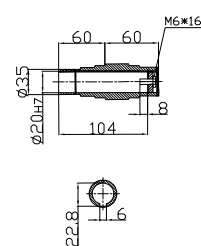
DSAT37



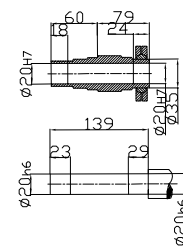
DSAF37(ø120)



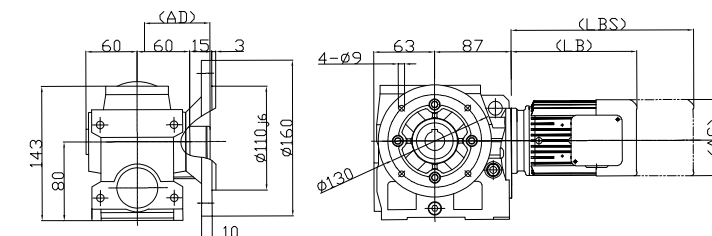
Hollow shaft



Shrink disk



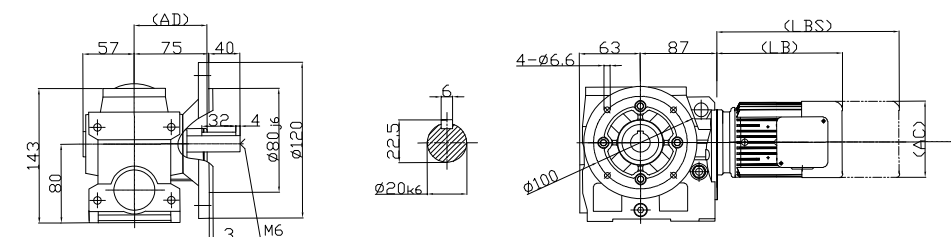
DSAF37(ø160)



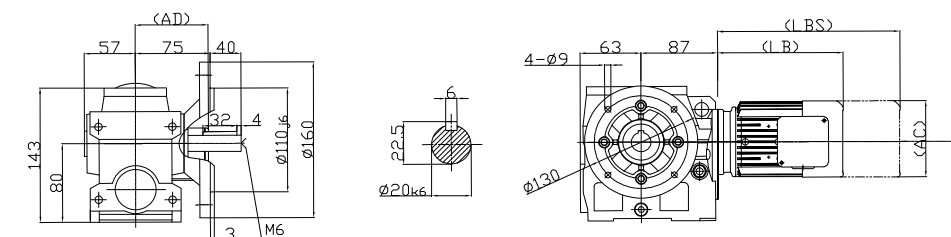
DS37

Motor	0.4kW	0.75kW	1.5kW
LB	240	254	328
LBS	330	344	428
AC	145	175	193
AD	126	135	147

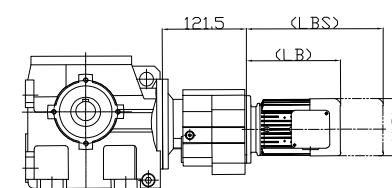
DSF37(ø120)



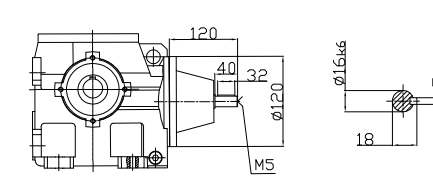
DSF37(ø160)



DS..37DR17



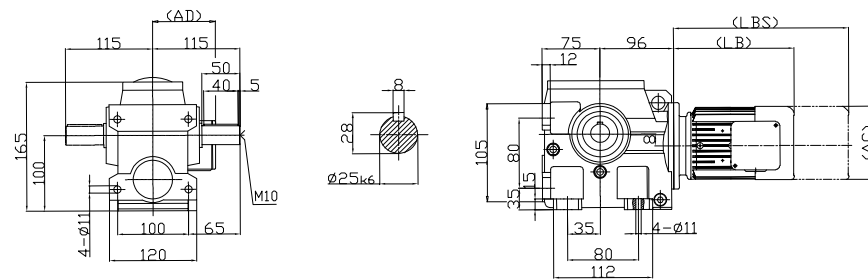
DS..S37



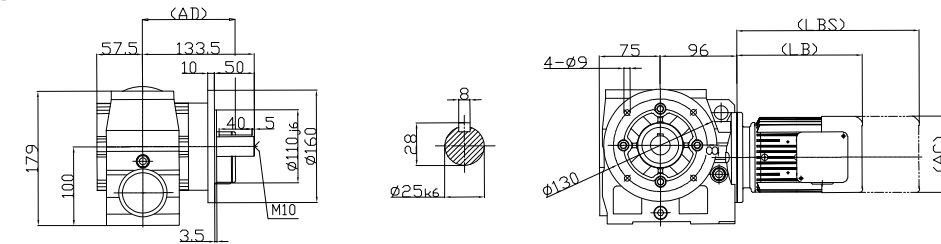
DS37

Motor	0.4kW	0.75kW	1.5kW
LB	240	254	328
LBS	330	344	428
AC	145	175	193
AD	126	135	147

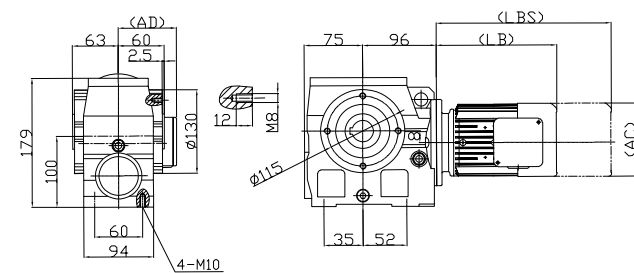
DS47



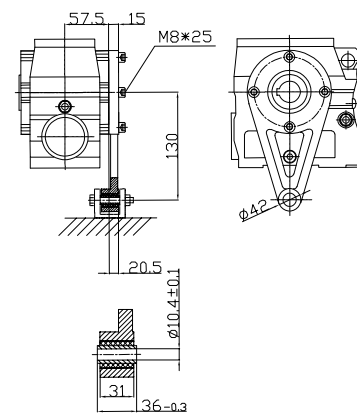
DSF47



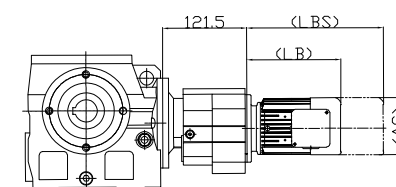
DSA47



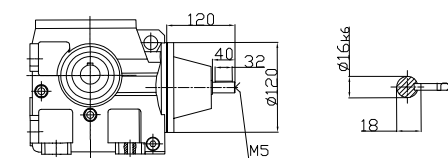
DSAT47



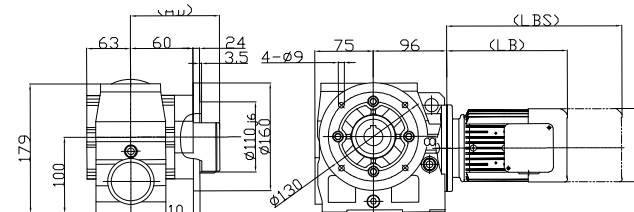
DS..47DR17



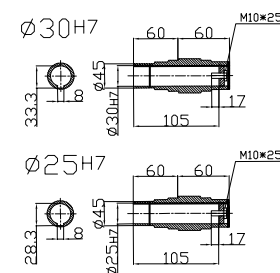
DS..S47



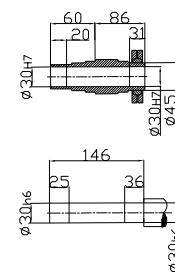
DSAF47



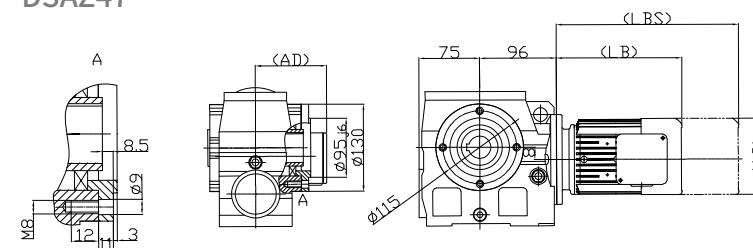
Hollow shaft



Shrink disk



DSAZ47



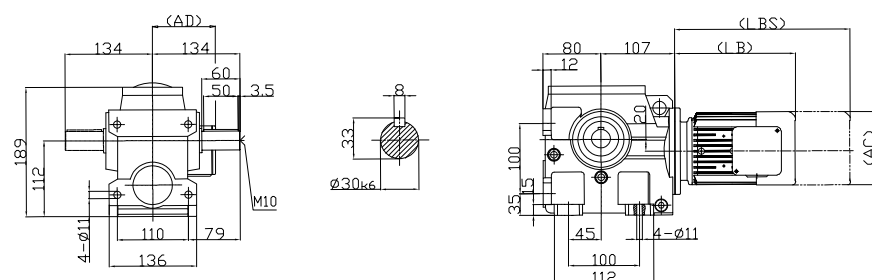
DS47

Motor	0.4kW	0.75kW	1.5kW
LB	229	248	321
LBS	319	338	421
AC	145	175	193
AD	126	135	147

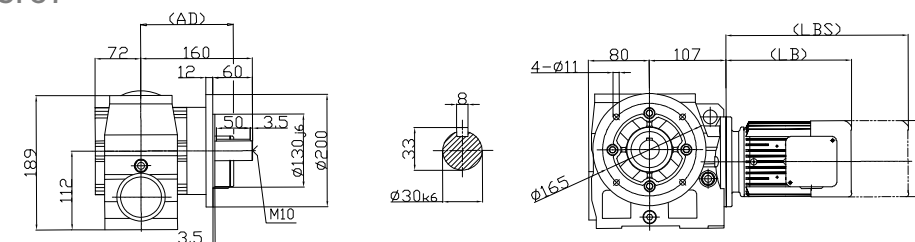
DS47

Motor	0.4kW	0.75kW	1.5kW
LB	229	248	321
LBS	319	338	421
AC	145	175	193
AD	126	135	147

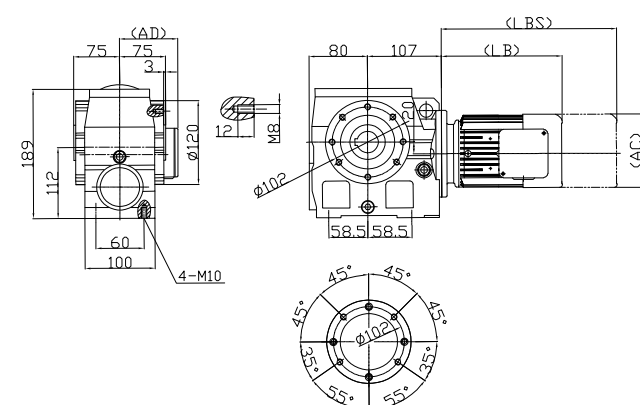
DS57



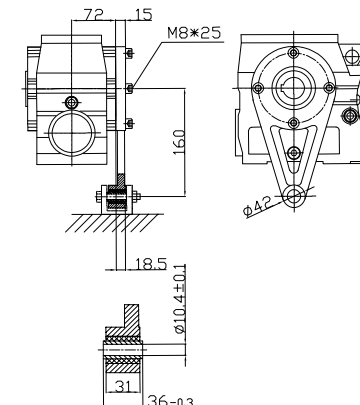
DSF57



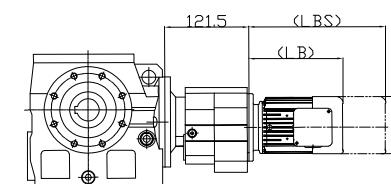
DSA57



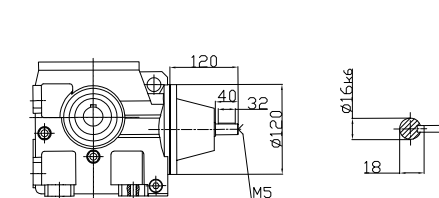
DSAT57



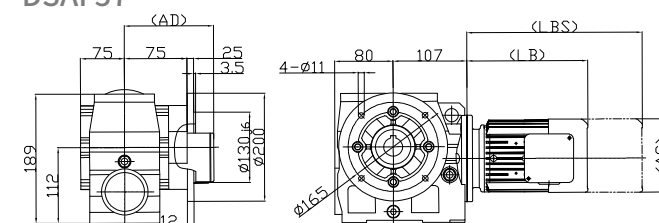
DS..57DR17



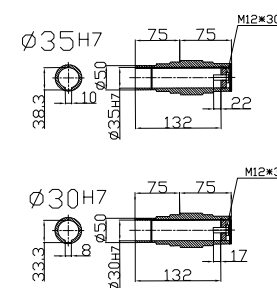
DS..S57



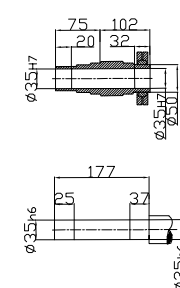
DSAF57



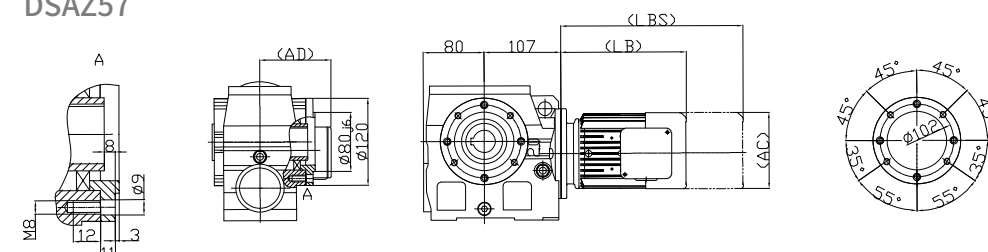
Hollow shaft



Shrink disk



DSAZ57



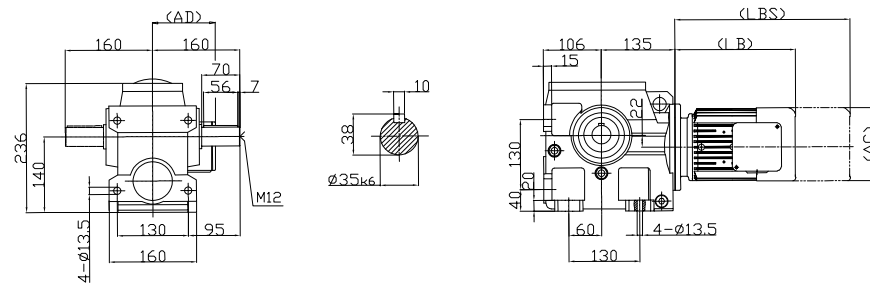
DS57

Motor	0.4kW	0.75kW	1.5kW	2.2kW
LB	229	248	321	368
LBS	319	338	421	468
AC	145	175	193	236
AD	126	135	147	202

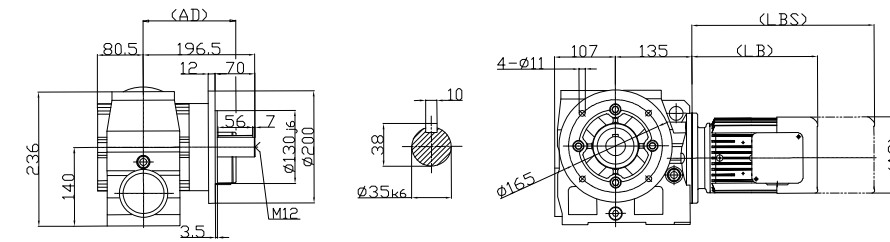
DS57

Motor	0.4kW	0.75kW	1.5kW	2.2kW
LB	229	248	321	368
LBS	319	338	421	468
AC	145	175	193	236
AD	126	135	147	202

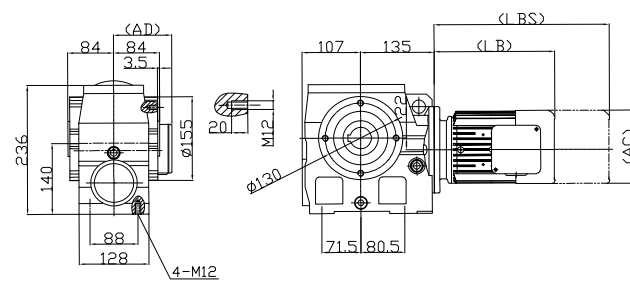
DS67



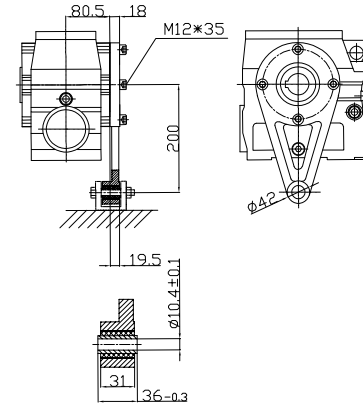
DSF67



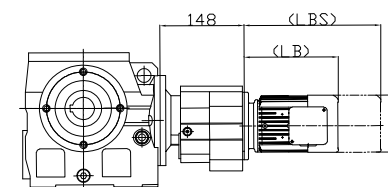
DSA67



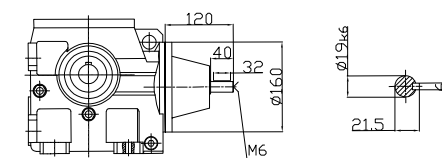
DSAT67



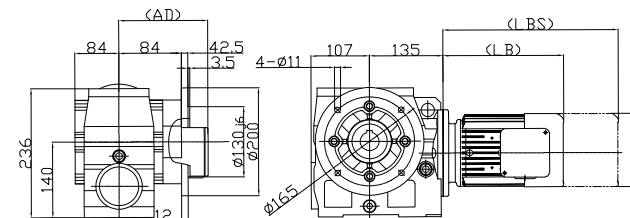
DS..67DR37



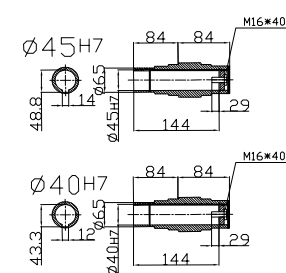
DS..S67



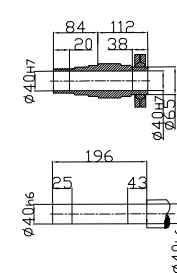
DSAF67



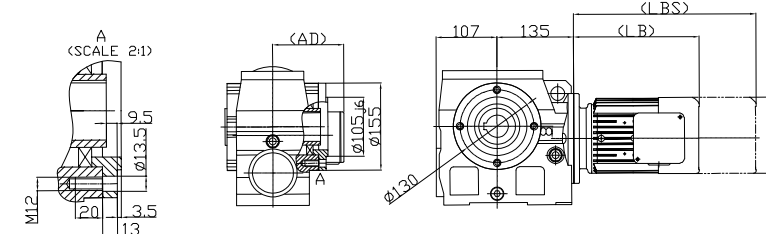
Hollow shaft



Shrink disk



DSAZ67



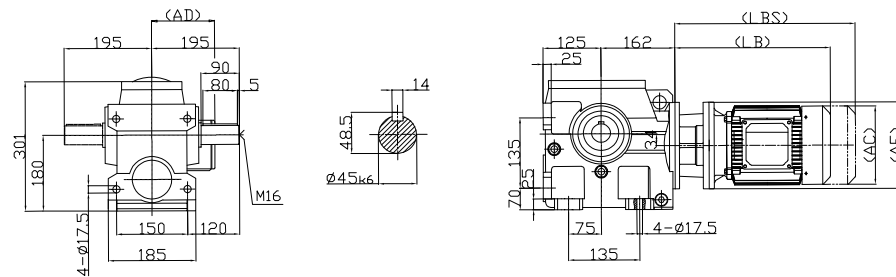
DS67

Motor	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW
LB	229	248	321	368	372	427
LBS	319	338	421	468	497	557
AC	145	175	193	236	236	274
AD	126	135	147	202	202	222

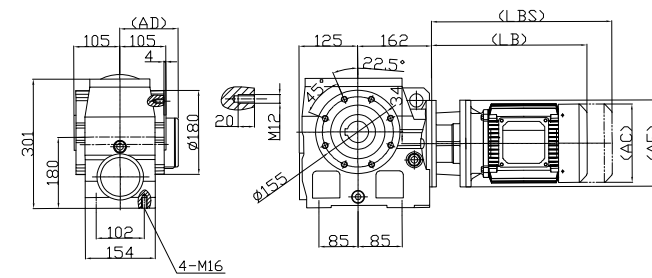
DS67

Motor	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW
LB	229	248	321	368	372	427
LBS	319	338	421	468	497	557
AC	145	175	193	236	236	274
AD	126	135	147	202	202	222

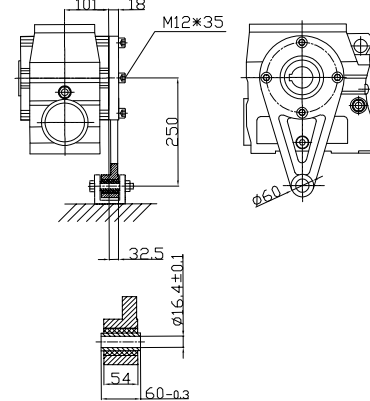
DS77



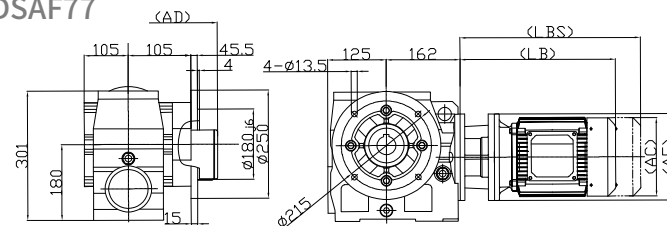
DSA77



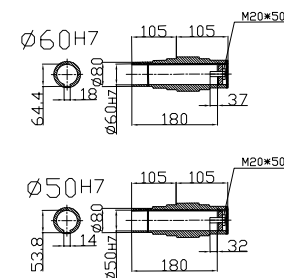
DSAT77



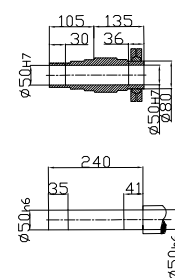
DSAF77



Hollow shaft

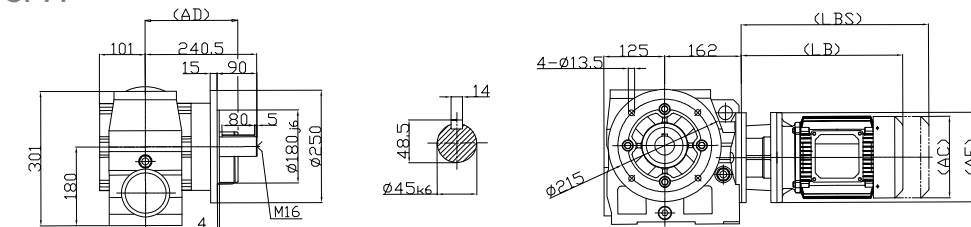


Shrink disk

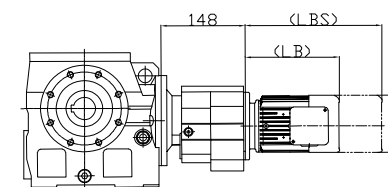
**DS77**

Motor	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW
LB	277	322	380	437	462	529	529
LBS	367	412	480	537	587	659	659
AC	158	175	193	236	236	274	274
AD	130	148	158	180	180	220	220
AE	160	200	200	250	250	300	300

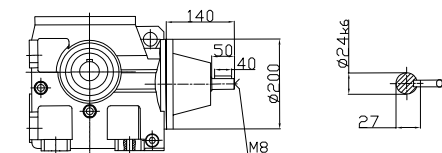
DSF77



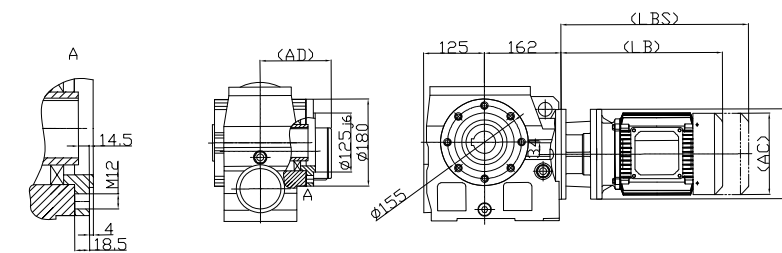
DS..77DR37



DS..S77



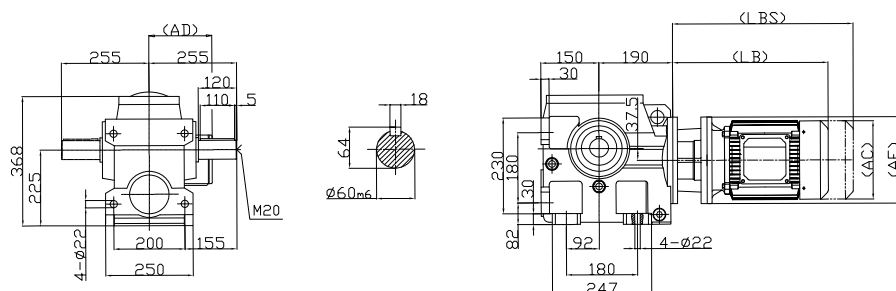
DSAZ77



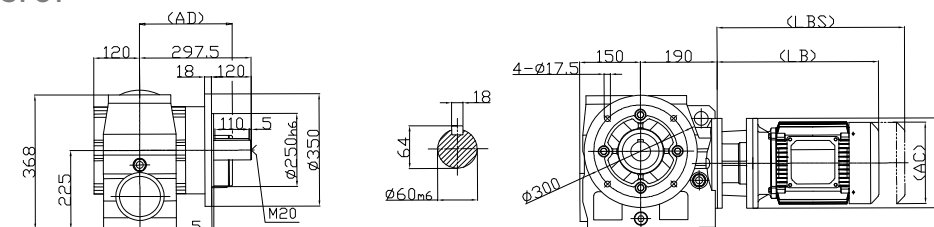
DS77

Motor	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW
LB	277	322	380	437	462	529	529
LBS	367	412	480	537	587	659	659
AC	158	175	193	236	236	274	274
AD	130	148	158	180	180	220	220
AE	160	200	200	250	250	300	300

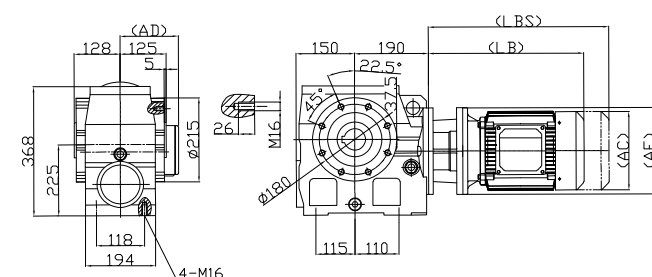
DS87



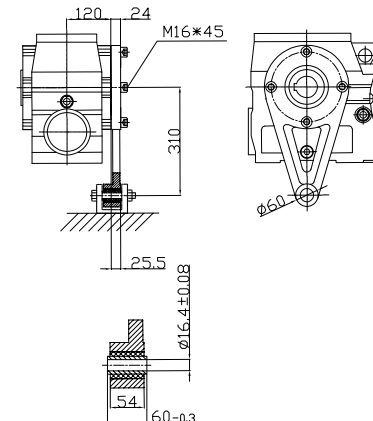
DSF87



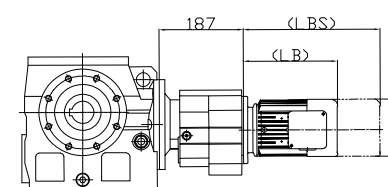
DSA87



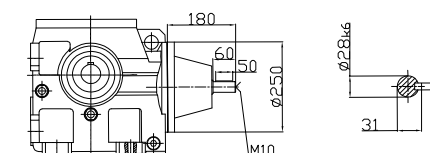
DSAT87



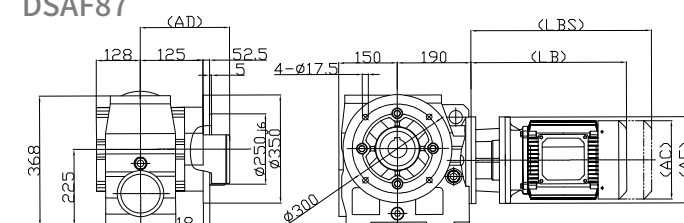
DS..87DR57



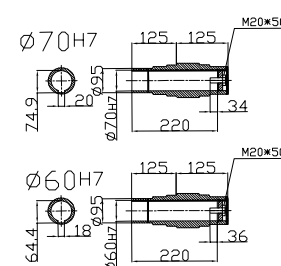
DS..S87



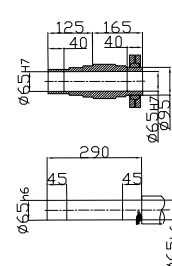
DSAF87



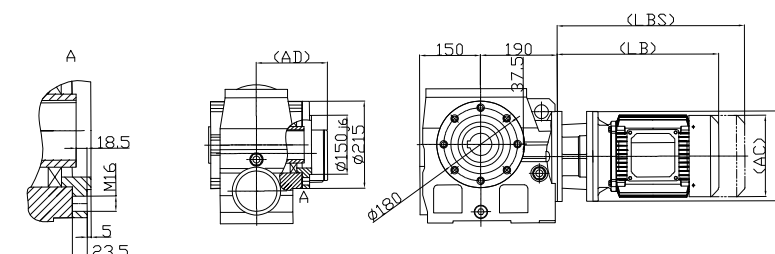
Hollow shaft



Shrink disk



DSAZ87



DS87

Motor	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW	11kW	15kW
LB	317	375	433	458	524	524	633	677
LBS	407	475	533	583	654	654	788	832
AC	175	193	236	236	274	274	317	317
AD	148	158	180	180	220	220	265	265
AE	200	200	250	250	300	300	350	350

DS87

Motor	0.75kW	1.5kW	2.2kW	3.7kW	5.5kW	7.5kW	11kW	15kW
LB	317	375	433	458	524	524	633	677
LBS	407	475	533	583	654	654	788	832
AC	175	193	236	236	274	274	317	317
AD	148	158	180	180	220	220	265	265
AE	200	200	250	250	300	300	350	350

7 보증 및 일반 계약사항

Warranty and general Terms and Conditions

1 보증 기간 Warranty Period

본 제품의 무상보증기간은 판매일로부터 1년 또는 운전 누적시간 2,000시간중 선도래 시점입니다.

The warranty period for product is one year from the date of sale or 2,000 hours of accumulated operation time, whichever comes first.

2 보증 범위 Scope of Warranty

① 보증 범위는 당사 제품에 한합니다.

The warranty applies only to our products.

② 정상적인 사용상태에서 제품의 기능이 발휘되지 않았을 경우 무상수리 서비스를 제공합니다.

We provide free repair services if the product does not function properly under normal use.

③ 무상수리는 수리를 원칙으로 하되 수리가 불가능 할 경우 신품으로 교환하여 드립니다.

Free repairs are provided as a general rule, but if repairs are not possible, we will replace the product with a new one.

3 보증의 면책 Immunity of Warranty

다음과 같은 경우는 보증기간이라도 유상서비스로 처리됩니다.

① 당사 카다로그 기재의 정격데이터 또는 선정기준을 벗어나는 조건에서 운전되었을 경우

Operating under conditions that deviate from the rated data or selection criteria listed in our catalog.

② 사용자의 과실로 인한 문제 발생 및 운송부주의로 인한 경우

Issues caused by user error and transportation precautions

③ 공급자 외에 개조 또는 수리를 한 경우

Modification or repair by someone other than the supplier

④ 정품이 아닌 부품의 사용으로 인한 경우

Use of non-genuine parts.

⑤ 천재지변(홍수, 지진, 화재등)에 의하여 발생한 경우

Caused by natural disasters (floods, earthquakes, fires, etc.)

⑥ 외부 장애에 의해 이차적으로 고장이 발생했을 경우

Secondary failure caused by external damage.

⑦ 고객으로부터 지급된 또는 지정된 부품, 구동UNIT(예 : 전동기, 서보모터 등)의 원인으로 장애가 발생했을 경우

Damage caused by the parts or drive unit (e.g. electric motor, servo motor, etc.) specified or provided by the customer

⑧ 제품의 보관, 보수, 보전 관리가 적절히 행해지지 않고 취급이 올바르게 실시 되지 않은 경우

When the product is not stored, maintained, or preserved properly and is not handled correctly

⑨ 당사의 물품의 고장이나 하자로 인해 파생된 손상의 보상은 당사의 판매조건에는 포함되어있지 않기 때문에 당사로의 보상 전가는 되지 않습니다.

Compensation for damages resulting from defects or malfunctions of our products is not included in our sales conditions, and therefore, cannot be transferred to us.

⑩ 이상 내용은 국내의 거래 및 사용을 전제로 한정합니다. 다만, 해외에서의 사용에 관해서는 별도 당사와의 사전 협의에 의하는 것으로 합니다.

In this terms and conditions are limited to transactions and use within Korea. However, for use other country, it shall be subject to separate prior agreement with our company.

4 예비품 운용 Spare parts

예고 없는 고장을 대비하여 여유분의 감속기를 예비품으로 운영하십시오.

To prepare for unexpected malfunctions, please operate spare gear reducers as backup.

① 예비품은 기본적으로 10%수준으로 운용하고 5개 미만의 경우 최소 한 개, 그 이상은 최소 2개 이상의 예비품을 운용하시기 바랍니다.

As a normally, prepare spare parts at a level of 10%, and in case of less than five, at least one Spare part should be prepared. For more than five, please prepare at least two spare parts.

5 기타사항 Etc

보증기간 후의 고장원인 조사 및 수리는 유상입니다. 또한 보증 기간중에 있어서도 상기 보증 범위의 이유에 의한 수리 및 조사는 유상으로 처리 되므로 본사 및 구입처에 문의해 주십시오.

Investigation and repair of malfunctions out of warranty will be charged. In addition, even if it is in warranty period, repairs and investigations due to causes outside of the warranty range will be charged.

DSK GEARED MOTOR



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※ 본 카탈로그에 기재된 사항은 제품의 개선을 위하여 예고없이 변경될 수 있습니다.