

# HYOSUNG GEAR SOLUTION

**K-Series** Helical Bevel Geared Motor



## 선정

### 선정순서

#### 1) 감속비

필요한 출력축 회전수에서 감속비를 선정합니다. 모터 회전수가 60Hz일 때 1,800rpm이므로 감속비는 간단히 구할 수 있습니다.

$$i = \text{모터 회전수} / \text{필요한 출력축 회전수}$$

• 감속비 별 Output RPM

출력축 회전 속도			감속비												
주파수 (Hz)	극수	전동기 rpm <sup>1</sup>	5	10	15	20	30	40	45	50	60	75	90	100	120
60Hz	4P	1,750	350	175	117	87.5	58.3	43.8	38.9	35	29.2	23.3	19.4	17.5	14.6
50Hz	4P	1,450	290	145	96.7	72.5	48.3	36.3	32.2	29	24.2	19.3	16.1	14.5	12.1
60Hz	6P	1,150	230	115	76.7	57.5	38.3	28.8	25.6	23	19.2	15.3	12.8	11.5	9.58
50Hz	6P	950	190	95	63.3	47.5	31.7	23.8	21.1	19	15.8	12.7	10.6	9.5	7.92

1. 전동기 종류와 프레임 사이즈에 따라 모터 RPM 상이될 수 있음.

#### 2) 출력축 토크

부하 토크에서 출력축 토크를 계산합니다. 만약, 부하 토크의 변동이 있을 경우 최대 토크로 계산합니다.

$$T_L = T_E \times S_f$$

$T_L$  : 출력축 토크       $T_E$  : 부하 토크       $S_f$  : Service Factor(표1)

표1. Service Factor

Operating time/day (hours)	Load condition								
	E-motor driver						Engine driver		
	기동 빈도 10회/시간 이하			기동 빈도 10회/시간 초과			Uniform	Moderate Shock	Heavy Shock
	Uniform	Moderate Shock	Heavy Shock	Uniform	Moderate Shock	Heavy Shock			
0.5 이하	0.8	0.8	1.0	0.8	1.0	1.25	-	-	-
0.5 ~ 2	1.0	1.0	1.25	1.0	1.25	1.5	-	-	-
2 ~ 10	1.0	1.25	1.5	1.25	1.5	1.75	1.25	1.5	2.0
10 ~ 24	1.25	1.5	1.75	1.5	1.75	2.0	1.5	1.75	2.0

#### 3) 출력선정

특성표에서 출력축 토크와 감속비를 만족하는 출력을 선정합니다.

#### 4) 부하 관성(GD<sup>2</sup>)

부하관성이 크고 기동빈도가 빈번한 경우에는 기동시 충격 토크가 발생하므로 GD<sup>2</sup>와 시동빈도를 고려하여야 합니다.

① 모터축 환산의 부하관성(GD<sub>L</sub><sup>2</sup>)을 구합니다.

$$GD_L^2 = \frac{GD^2}{i^2} \quad \left( \frac{1}{i} = \text{감속비} \right)$$

② 3항에서 선정된 출력의 모터축 환산 부하관성 제품별 GD<sub>M</sub><sup>2</sup>를 표2에서 구합니다.

표2. 기어드모터의 GD<sub>M</sub><sup>2</sup>(예시)

모터출력	0.4kW	0.75kW	1.5kW	2.2kW	3.7kW
GD <sub>M</sub> <sup>2</sup> (N·m <sup>2</sup> )	0.0774	0.123	0.186	0.372	0.529

③ 부하관성비(Z)를 구합니다.

$$Z = \frac{GD_L^2}{GD_M^2}$$

GD<sub>L</sub><sup>2</sup> : 부하관성(모터축 환산)      GD<sub>M</sub><sup>2</sup> : 기어드모터의 관성(모터축 환산)

④ 부하 관성비와 시동 빈도에 따른 Service Factor(Sf<sub>2</sub>)를 표3에서 구합니다.

표3. 관성비와 시동빈도에 따른 계수

시동빈도 / 시간	연결방법 : 커플링 등 직접 연결				연결방법 : 체인 및 벨트 등 연결			
	Z≤0.5	0.5<Z≤1.0	1.0<Z≤2.0	2.0<Z≤3.0	Z≤0.2	0.2<Z≤0.5	0.5<Z≤0.7	0.7<Z≤1.0
1회	1.00	1.01	1.05	1.10	1.00	1.01	1.03	1.06
5회	1.01	1.04	1.17	1.26	1.01	1.0	1.10	1.19
10회	1.02	1.08	1.24	1.36	1.02	1.09	1.17	1.27
20회	1.04	1.14	1.34	1.47	1.04	1.15	1.24	1.37
50회	1.07	1.25	1.48	1.62	1.07	1.26	1.37	1.51
100회	1.10	1.34	1.61	1.76	1.10	1.35	1.47	1.63
150회	1.14	1.40	1.68	1.85	1.14	1.41	1.53	1.71

#### 5) 필요한 출력축 토크

이상에서 보는 바와 같이 기어드모터의 필요한 출력축 토크(T)를 구합니다.

$$T = T_E \times Sf_1 \times Sf_2$$

T<sub>E</sub> : 부하 토크      Sf<sub>1</sub> : 부하 상태에 따른 계수      Sf<sub>2</sub> : 부하 관성에 따른 계수

## 6) Overhung Load(O.H.L)

상대 기계와 연결은 직접 연결이 최적이지만 체인, 벨트 및 기어로 연결 될 경우, 축에 작용하는 O.H.L가 사용하는 기어드 모터의 허용 O.H.L 이하이어야 합니다.

$$O.H.L(N) = \frac{2000 \times T_E \times S_{f1} \times S_{f2}}{D} \times \frac{C_f}{L_f}$$

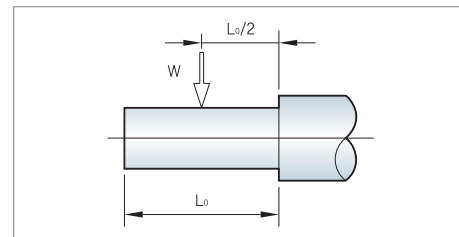
D : 체인, 풀리 등의 피치원 직경(mm)    Cf : 연결방식에 따른 계수(표4 참조)    Lf : 하중작용 위치에 따른 계수(표5 참조)

표4. 연결방식에 따른 계수

Transmission element	Factor	Remarks
Gears	1.1	Z≤17 teeth
Chain sprockets	1.4	Z≤13 teeth
Chain sprockets	1.2	Z≤20 teeth
V-belt pulleys	1.7	Pre-tension
Flat belt pulleys	2.5	Pre-tension

표5. 하중작용 위치에 따른 계수

Load applied point	Factor
0.3 L <sub>0</sub>	1.10
0.5 L <sub>0</sub>	1.00
0.7 L <sub>0</sub>	0.83
0.9 L <sub>0</sub>	0.70



## 선정 예

### ■ 사용조건

#### 구동장치

- 모터 극수 : 4극
- 모터 주파수 : 60Hz
- Load Condition : Uniform

#### 피동장치

- 용도 : 컨베이어
- 회전수 : 29rpm
- 가동시간 : 1시간/일
- 기동빈도 : 5회/시간
- 부하 토크 : 98N·m
- 구동 장치와의 연결방식 : 체인(P.C.D=ø90)

1. 감속비 = 1/60

#### 2. 출력축 토크

$$T_L = T_E \times S_{f1} = 98 \times 1.00 = 98 \text{ N} \cdot \text{m}$$

$$S_{f1} = 1.00 \text{ (표1)}$$

#### 3. 출력 선정

$$\text{출력축 토크} : T_L = 98 \text{ N} \cdot \text{m}$$

$$\text{감속비} : 1/60$$

$$\text{특성표에서 출력} : 0.4 \text{ kW}$$

#### 4. 부하 관성(GD<sup>2</sup>)

$$1) GD^2 = 158.6 \text{ N} \cdot \text{m}^2$$

$$2) GD_L^2 = \frac{GD^2}{i^2} = \frac{158.6}{60^2} = 0.044 \text{ N} \cdot \text{m}^2$$

$$3) \text{기어드 모터 출력 } 0.4 \text{ kW의 } GD_M^2 = 0.0774 \text{ (표2)}$$

$$4) Z = \frac{GD_L^2}{GD_M^2} = \frac{0.0442}{0.0774} = 0.57$$

$$5) S_{f2} = 1.10 \text{ (표3)}$$

#### 5. 필요한 출력축 토크

$$T = T_E \times S_{f1} \times S_{f2} = 98 \times 1.00 \times 1.10$$

$$= 108 \text{ N} \cdot \text{m}$$

$$\text{감속비} : 1/60$$

이상을 만족하는 기어드모터는 특성표에서 0.4kW에 해당됩니다.

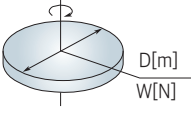
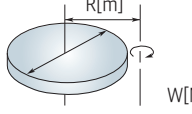
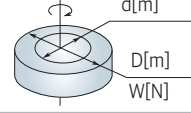
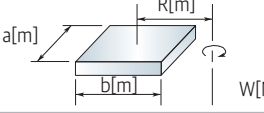
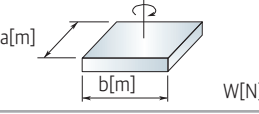
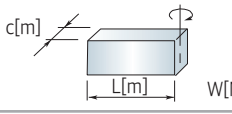
#### 6. O.H.L 확인

$$\begin{aligned} O.H.L &= \frac{2000 \times T_E \times S_{f1} \times S_{f2}}{D} \times \frac{C_f}{L_f} \\ &= \frac{2000 \times 98 \times 1.00 \times 1.10}{90} \times \frac{1.00}{1.00} \\ &= 2395 \text{ N} \end{aligned}$$

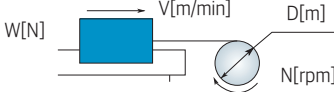

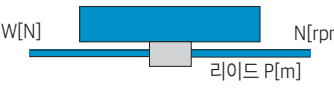
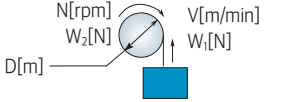
5항에서 선정된 기종의 허용 O.H.L는 2793N이므로 이 기종으로 사용 가능합니다.

## GD<sup>2</sup> 계산법

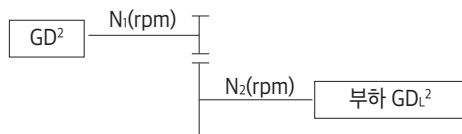
### 회전체

회전축이 중심인 경우		회전축이 중심이 아닌 경우	
	$GD^2 = 1/2WD^2$ [N·m <sup>2</sup> ]		$GD^2 = W(1/2D^2 + 4R^2)$ [N·m <sup>2</sup> ]
	$GD^2 = 1/2W(D^2 + d^2)$ [N·m <sup>2</sup> ]		$GD^2 = W(\frac{a^2 + b^2}{3} + 4R^2)$ [N·m <sup>2</sup> ]
	$GD^2 = 1/3W(a^2 + b^2)$ [N·m <sup>2</sup> ]		$GD^2 = 1/3W(4L^2 + c^2)$ [N·m <sup>2</sup> ]

### 직선운동

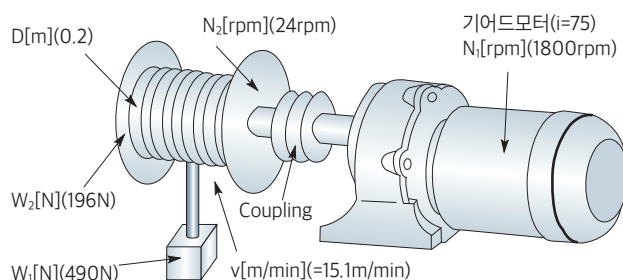
일반운동		$GD^2 = W(\frac{V}{\pi \cdot N})^2$ $= WD^2$ [N·m <sup>2</sup> ]
컨베이어용 수평운동		$GD^2 = (\frac{W_1 + W_2}{2} + W_3 + W_4) \times D^2$ [N·m <sup>2</sup> ]
이송나사에 의한 수평운동		$GD^2 = W(\frac{V}{\pi \cdot N})^2$ $= W(\frac{P}{\pi})^2$ [N·m <sup>2</sup> ]
권상기용 상하운동		$GD^2 = W_1 D^2 + \frac{1}{2} W_2 D^2$ [N·m <sup>2</sup> ]

### 회전수가 서로 다른 축



$$GD^2 = (\frac{N_2}{N_1})^2 GD_L^2$$

### 계산 예



$$\begin{aligned} \text{a) 부하 } GD_L^2 &= W_1 D^2 + \frac{1}{2} W_2 D^2 \\ &= 490 \times 0.2^2 + \frac{1}{2} \times 196 \times 0.2^2 \\ &= 23.5 [\text{N} \cdot \text{m}^2] \end{aligned}$$

b) 모터축 환산

$$\begin{aligned} GD^2 &= (\frac{N_2}{N_1})^2 \times \text{부하 } GD_L^2 \\ &= (\frac{24}{1800})^2 \times 23.5 \\ &= 0.004 [\text{N} \cdot \text{m}^2] \end{aligned}$$

# HYOSUNG GEAR SOLUTION

**K-Series** Helical Bevel Geared Motor



## Helical Bevel Geared Motor

- Bevel Gear : Grinding
- 0.2 ~ 90kW, Ratio 5:1 ~ 200:1
- 4 ~ 6P, 50/60Hz
- IEC Flange Type



## K시리즈 특징

### 1. 고성능 강력한 프레임

기어 치형의 최적 설계 및 구조물의 구조해석과 시험평가로 강력한 프레임에 의해 저소음, 고효율 품질을 실현하였습니다.

### 2. 확실한 Seal 구조

오일의 누유를 최소화하기 위하여 고품질의 Seal 장치를 사용하였습니다.

### 3. 설치 Application의 다양화

중실, 중공, 토크암, 플랜지타입 등 다양한 설치방법을 지원하며, 어떠한 방향으로도 설치가 가능합니다. 또한, 전동기를 자유롭게 장착 및 분해할 수 있는 구조로 설계되었습니다.

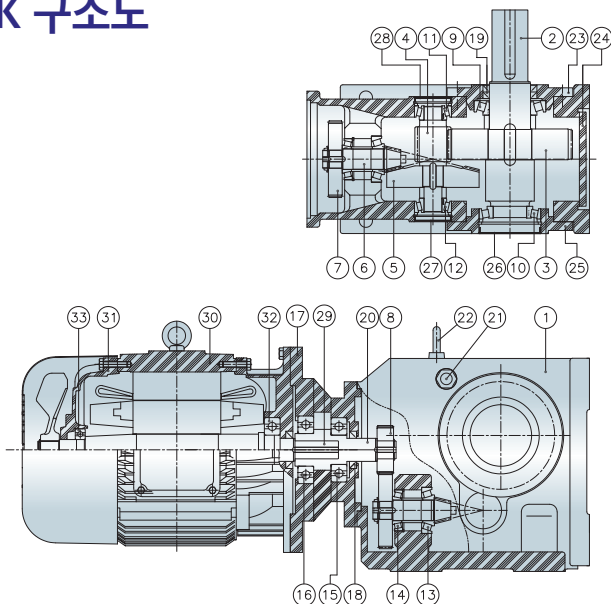
### 4. 부드러운 운전과 낮은 소음 구현

Bevel 기어에 연마를 기본공정으로 적용함으로써, 동급 제품대비 저소음 및 저진동 운전이 가능하도록 구현하였습니다.

### 5. 최적화 설계

다양한 설계 프로그램을 활용한 최적화 설계로 축단하중이 고려된 출력 베어링의 사용과 베어링 자체 수명을 증대하였습니다.

## K 구조도



## 형식표시

K H H M 12

형번

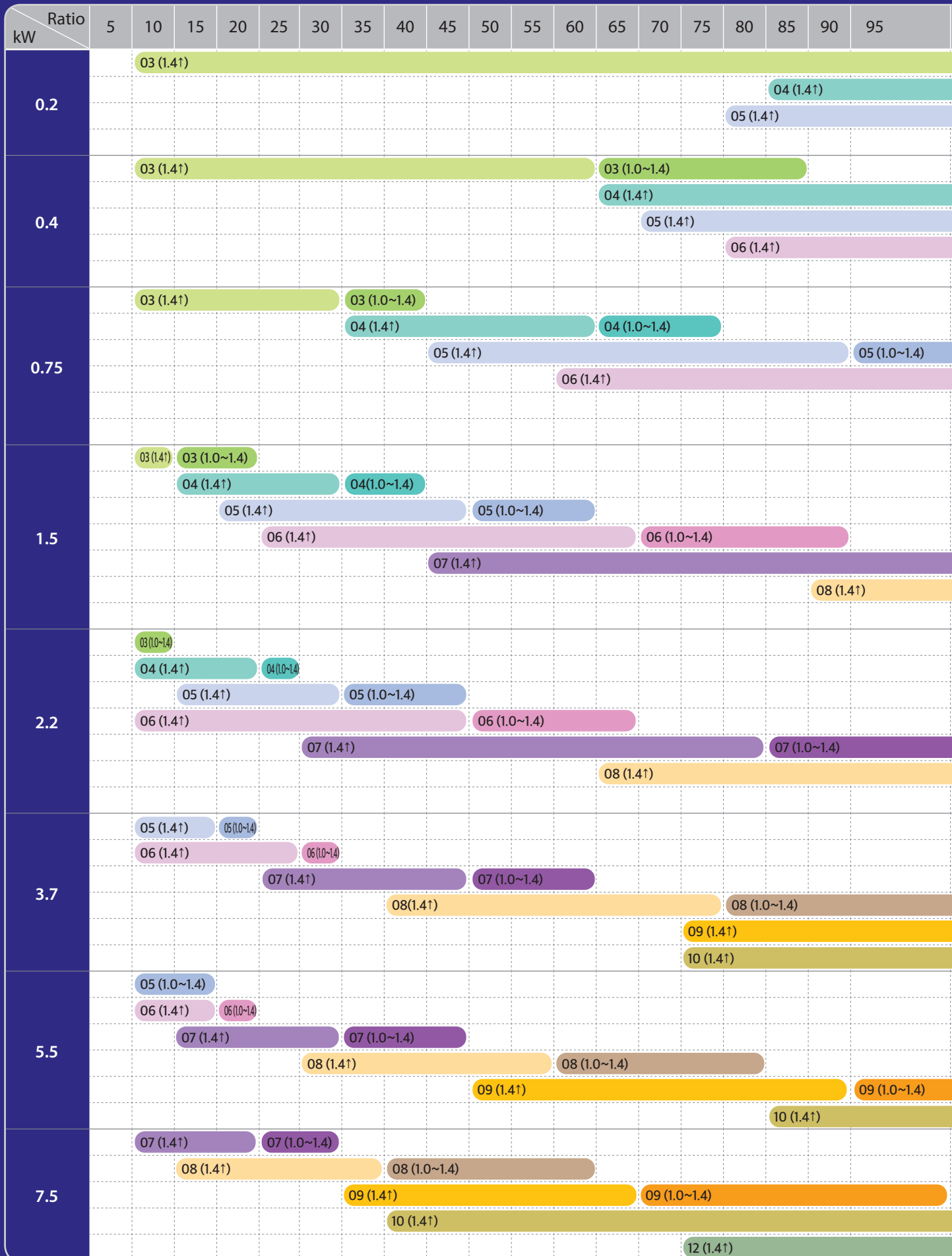
M : 모터 일체형  
공란 : Line Power

H : 중실축형  
F : 중실축 Flange  
HH : 중공축형  
FH : 중공축 Flange

모델명

NO	NAME	NO	NAME	NO	NAME	NO	NAME
1	CASING	10	BEARING	19	OIL SEAL	28	SEALING CAP
2	OUTPUT SHAFT	11	BEARING	20	INPUT SHAFT	29	MOTOR SHAFT
3	3'RD GEAR	12	BEARING	21	AIR VENT	30	FRAME
4	3'RD PINION	13	BEARING	22	EYE BOLT	31	MOTOR BRACKET NDE
5	BEVEL GEAR	14	BEARING	23	COVER	32	BEARING
6	BEVEL PINION	15	BEARING	24	COVER CASING	33	BEARING
7	1'ST GEAR	16	BEARING	25	COVER		
8	1'ST PINION	17	IEC FLANGE	26	SEALING CAP		
9	BEARING	18	OIL SEAL	27	SEALING CAP		

# 형번 선정표 I

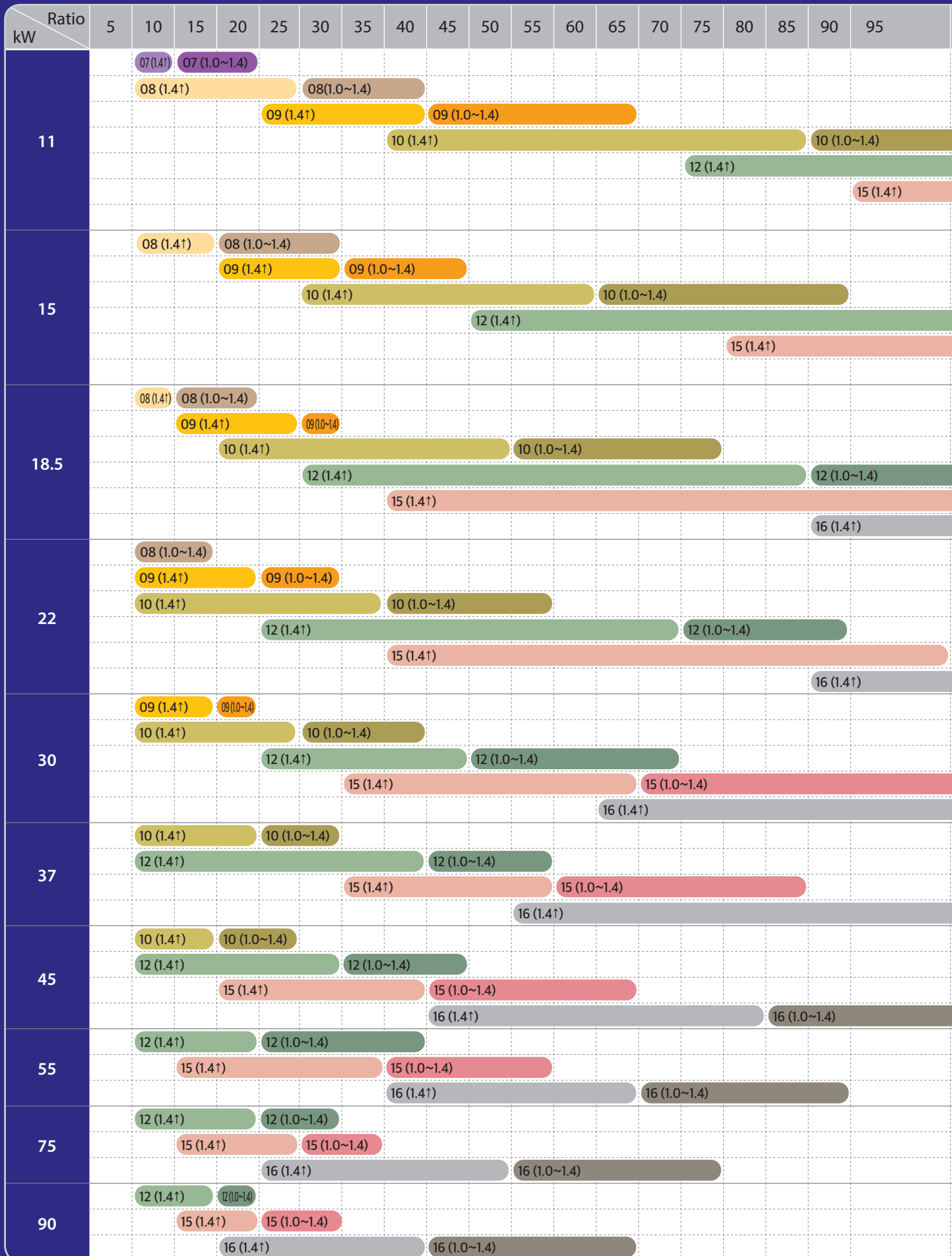


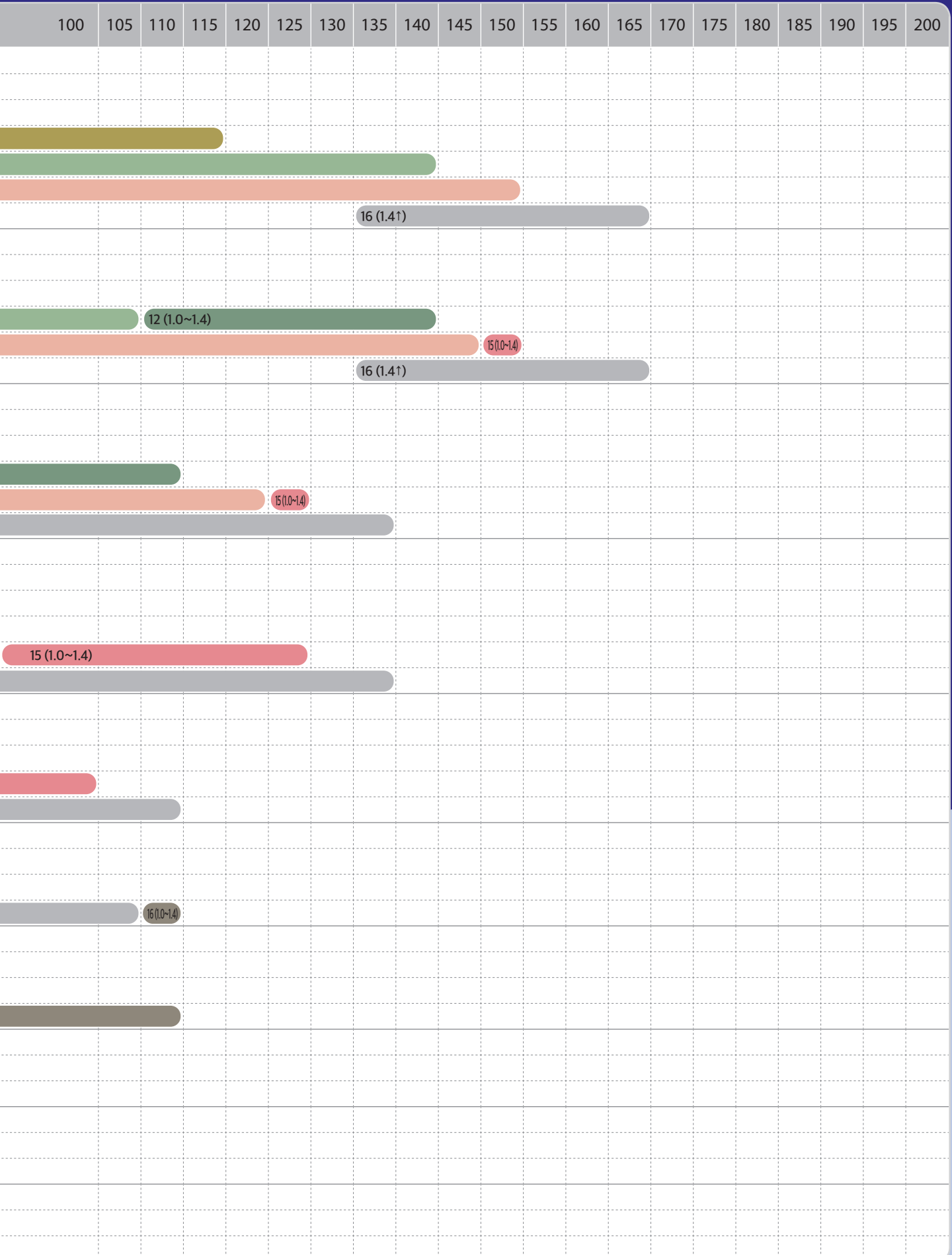




주1. 동력별 전동기 정격 회전수 기준 / 주2. ( )안의 값은 Service Factor값임.

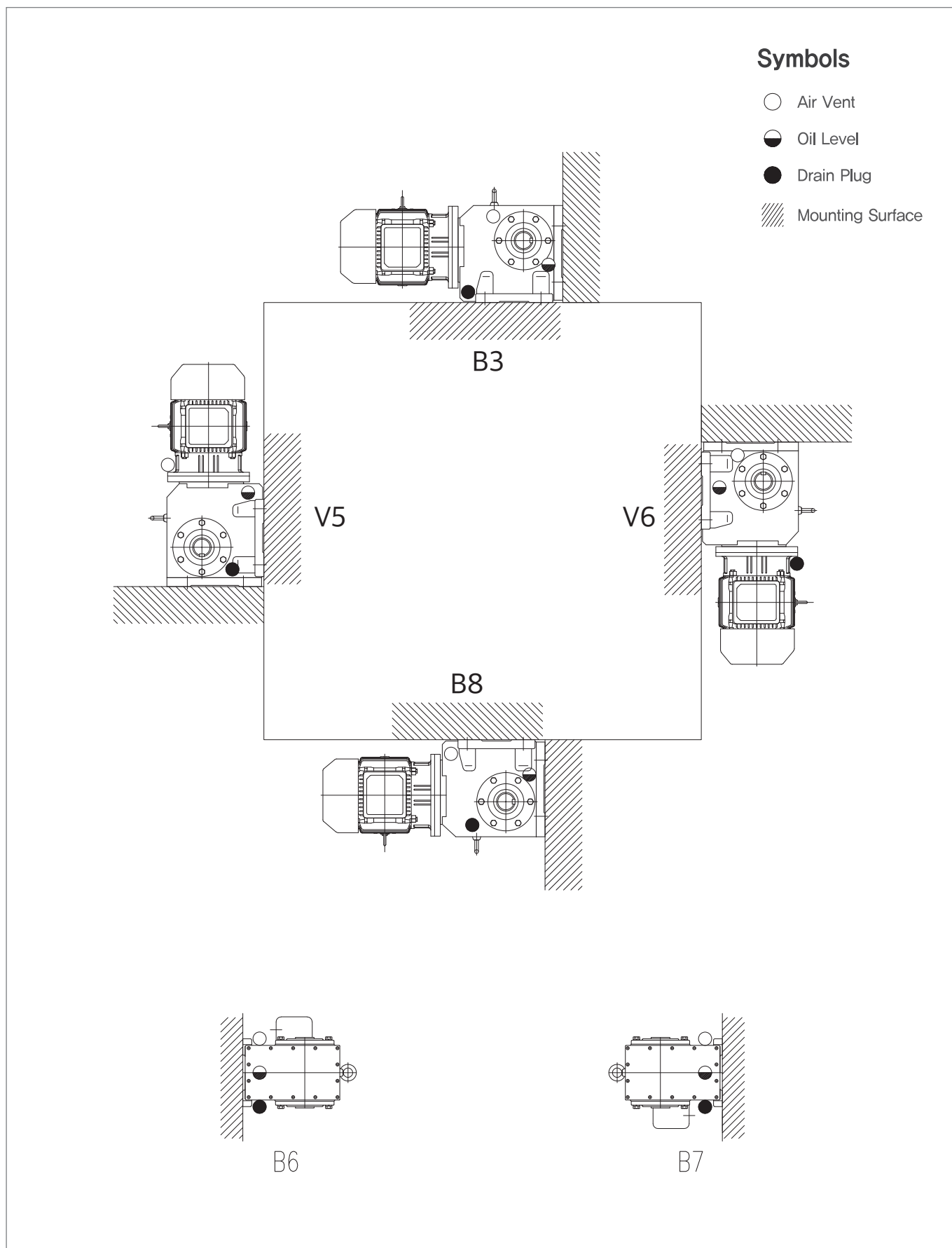
# 형번 선정표 II





주¹. 동력별 전동기 정격 회전수 기준 / 주² ( )안의 값은 Service Factor값임.

## 제품 취부별 마운팅



## 취부 방식별 오일량

Type	Fr.	Oil Quantity ( L )					
		B3	V6	B8	V5	B7	B6
KHHM KHM	03	0.5	1	1	1.3	1	1
	04	0.8	1.3	1.5	2	1.6	1.6
	05	1.2	2.3	2.5	3	2.6	2.4
	06	1.1	2.4	2.6	3.4	2.6	2.6
	07	2.2	4.1	4.4	5.9	4.2	4.4
	08	3.7	8	8.7	10.9	7.8	8
	09	7	14	15.7	20	15.7	15.5
	10	10	21	25.5	33.5	24	24
	12	21	41.5	44	54	40	41
	15	31	62	65	90	58	62
	16	33	95	105	123	85	84
KFHM	03	0.5	1	1	1.4	1	1
	04	0.8	1.3	1.6	2.1	1.6	1.6
	05	1.3	2.3	2.7	3	2.9	2.7
	06	1.1	2.4	2.7	3.6	2.6	2.6
	07	2.1	4.1	4.6	6	4.4	4.4
	08	3.7	8.2	8.8	11.1	8	8
	09	7	14.7	15.7	20	15.7	15.7
	10	10	20.5	24	32	24	24
	12	21	41.5	43	52	40	40
	15	31	66	67	87	62	62
	16	33	95	105	123	85	84
KFM	03	0.5	1.1	1.1	1.5	1	1
	04	0.8	1.3	1.7	2.2	1.6	1.6
	05	1.3	2.3	2.7	3	2.9	2.7
	06	1.1	2.4	2.8	3.6	2.7	2.7
	07	2.1	4.1	4.4	6	4.5	4.5
	08	3.7	8.2	9	11.9	8.4	8.4
	09	7	14.7	17.3	21.5	15.7	16.5
	10	10	22	26	35	25	25
	12	21	41.5	46	55	41	41
	15	31	66	69	92	62	62
	16	33	95	105	123	85	84

# 제품 리스트

Power (kW)	Ratio (i)	Input RPM	Output RPM	Output Torque (Nm)	Output Torque (kgm)	Permissible O.H.L (kN)	Permissible O.H.L (kg)	Service Factor	Fr.	Weight (kg)
0.2	106.38	1,650	15.6	181	18.5	5.4	550.5	1.42	03	30
	97.81	1,650	16.9	167	17.0	5.6	570.8	1.56		
	83.69	1,650	19.8	143	14.6	5.8	591.2	1.85		
	72.54	1,650	22.8	124	12.6	5.9	601.4	2.13		
	67.80	1,650	24.4	116	11.8	5.9	601.4	2.28		
	58.60	1,650	28.2	100	10.2	5.7	581.0	2.63		
	49.79	1,650	33.2	85	8.7	5.5	560.7	3.13		
	44.46	1,650	37.2	76	7.7	5.4	550.5	3.56		
	37.97	1,650	43.5	65	6.6	5.2	530.1	4.13		
	35.57	1,650	46.4	61	6.2	5.1	519.9	4.41		
	29.96	1,650	55.1	51	5.2	4.8	489.3	5.13		
	28.83	1,650	57.3	49	5.0	4.8	489.3	5.41		
	24.99	1,650	66.1	43	4.4	4.6	468.9	6.27		
	23.36	1,650	70.7	40	4.1	4.5	458.7	6.55		
	20.19	1,650	81.8	34	3.5	4.4	448.5	7.12		
	17.15	1,650	96.3	29	3.0	4.2	428.1	8.12		
	15.31	1,650	107.8	26	2.7	4.0	407.7	8.83		
	13.08	1,650	126.2	22	2.2	3.8	387.4	9.83		
	12.14	1,650	136.0	21	2.1	3.7	377.2	10.26		
	10.49	1,650	157.3	18	1.8	3.6	367.0	11.82		
	8.91	1,650	185.2	15	1.5	3.4	346.6	13.96		
	7.96	1,650	207.3	14	1.4	3.3	336.4	15.67		
	6.80	1,650	242.7	12	1.2	3.1	316.0	17.10		
	6.37	1,650	259.1	11	1.1	3.1	316.0	17.10		
0.2	131.87	1,650	12.6	225	22.9	7.1	723.8	2.35	04	38
	121.48	1,650	13.6	207	21.1	7.3	744.1	2.56		
	104.37	1,650	15.9	178	18.1	7.4	754.3	2.99		
	90.86	1,650	18.2	155	15.8	7.5	764.5	3.42		
	85.12	1,650	19.4	145	14.8	7.6	774.7	3.70		
0.2	145.14	1,650	11.4	248	25.3	8.9	907.2	3.13	05	39
	123.85	1,650	13.4	211	21.5	9.1	927.6	3.70		
	108.29	1,650	15.3	185	18.9	9.2	937.8	4.27		
	102.88	1,650	16.1	175	17.8	9.2	937.8	4.56		
	90.26	1,650	18.3	154	15.7	9.3	948.0	5.13		
	76.56	1,650	21.6	131	13.4	9.3	948.0	6.12		
0.2	144.79	1,650	11.4	247	25.2	12.0	1,223.2	4.41	06	45
	123.54	1,650	13.4	211	21.5	12.0	1,223.2	5.13		
	108.03	1,650	15.3	184	18.8	12.0	1,223.2	5.84		
	102.62	1,650	16.1	175	17.8	12.0	1,223.2	6.12		



Power (kW)	Ratio (i)	Input RPM	Output RPM	Output Torque (Nm)	Output Torque (kgm)	Permissible O.H.L (kN)	Permissible O.H.L (kg)	Service Factor	Fr.	Weight (kg)
0.4	97.81	1,680	17.2	247	25.2	2.4	244.6	0.91	03	30
	83.69	1,680	20.1	211	21.5	5.2	530.1	1.08		
	72.54	1,680	23.2	183	18.7	5.4	550.5	1.25		
	67.80	1,680	24.8	171	17.4	5.3	540.3	1.31		
	58.60	1,680	28.7	148	15.1	5.2	530.1	1.53		
	49.79	1,680	33.8	126	12.8	5.1	519.9	1.76		
	44.46	1,680	37.8	112	11.4	5.0	509.7	1.99		
	37.97	1,680	44.3	96	9.8	4.8	489.3	2.39		
	35.57	1,680	47.3	90	9.2	4.7	479.1	2.50		
	29.96	1,680	56.1	76	7.7	4.6	468.9	2.96		
	28.83	1,680	58.3	73	7.4	4.5	458.7	3.07		
	24.99	1,680	67.3	63	6.4	4.4	448.5	3.53		
	23.36	1,680	72.0	59	6.0	4.3	438.3	3.76		
	20.19	1,680	83.3	51	5.2	4.1	417.9	4.10		
	17.15	1,680	98.0	43	4.4	4.0	407.7	4.67		
	15.31	1,680	109.8	39	4.0	3.8	387.4	5.13		
	13.08	1,680	128.5	33	3.4	3.7	377.2	5.58		
	12.14	1,680	138.4	31	3.2	3.6	367.0	5.81		
	10.49	1,680	160.2	26	2.7	3.4	346.6	6.72		
	8.91	1,680	188.6	22	2.2	3.3	336.4	7.98		
	7.96	1,680	211.1	20	2.0	3.2	326.2	8.66		
	6.80	1,680	247.1	17	1.7	3.0	305.8	9.80		
	6.37	1,680	263.8	16	1.6	3.0	305.8	10.14		
	5.36	1,680	313.5	14	1.4	2.8	285.4	11.40		
0.4	131.87	1,680	12.8	333	33.9	6.4	652.4	1.36	04	38
	121.48	1,680	13.9	307	31.3	6.6	672.8	1.48		
	104.37	1,680	16.1	263	26.8	7.0	713.6	1.71		
	90.86	1,680	18.5	229	23.3	7.2	733.9	1.93		
	85.12	1,680	19.8	215	21.9	7.3	744.1	2.10		
	75.20	1,680	22.4	190	19.4	7.4	754.3	2.39		
	69.84	1,680	24.1	176	17.9	7.5	764.5	2.50		
	63.30	1,680	26.6	160	16.3	7.6	774.7	2.85		
0.4	145.14	1,680	11.6	366	37.3	8.6	876.7	1.82	05	39
	123.85	1,680	13.6	313	31.9	8.8	897.0	2.16		
	108.29	1,680	15.6	273	27.8	8.9	907.2	2.50		
	102.88	1,680	16.4	260	26.5	8.9	907.2	2.62		
	90.26	1,680	18.7	228	23.2	9.1	927.6	2.96		
	76.56	1,680	22.0	193	19.7	9.2	937.8	3.53		
	69.12	1,680	24.4	174	17.7	9.2	937.8	3.87		
0.4	144.79	1,680	11.7	365	37.2	12.0	1,223.2	2.50	06	45
	123.54	1,680	13.6	312	31.8	12.0	1,223.2	2.96		
	108.03	1,680	15.6	273	27.8	12.0	1,223.2	3.42		
	90.04	1,680	18.7	227	23.1	12.0	1,223.2	4.10		
	76.37	1,680	22.0	193	19.7	12.0	1,223.2	4.78		
0.4	192.18	1,680	8.8	483	49.2	19.0	1,936.8	3.42	07	71
	179.37	1,680	9.4	451	46.0	19.0	1,936.8	3.64		
	154.02	1,680	11.0	387	39.4	19.0	1,936.8	4.44		

# 제품 리스트

Power (kW)	Ratio (i)	Input RPM	Output RPM	Output Torque (Nm)	Output Torque (kgm)	Permissible O.H.L (kN)	Permissible O.H.L (kg)	Service Factor	Fr.	Weight (kg)
0.75	44.46	1,735	39.1	218	22.2	4.0	407.7	0.96	03	54
	37.97	1,735	45.7	186	19.0	3.9	397.6	1.14		
	35.57	1,735	48.8	174	17.7	3.9	397.6	1.25		
	29.96	1,735	58.0	147	15.0	3.9	397.6	1.48		
	28.83	1,735	60.2	141	14.4	3.9	397.6	1.53		
	24.99	1,735	69.5	122	12.4	3.8	387.4	1.76		
	23.36	1,735	74.3	114	11.6	3.8	387.4	1.82		
	20.19	1,735	86.0	99	10.1	3.7	377.2	1.99		
	17.15	1,735	101.2	84	8.6	3.6	367.0	2.28		
	15.31	1,735	113.4	75	7.6	3.5	356.8	2.50		
	13.08	1,735	132.7	64	6.5	3.4	346.6	2.73		
	12.14	1,735	143.0	59	6.0	3.3	336.4	2.85		
	10.49	1,735	165.4	51	5.2	3.2	326.2	3.30		
	8.91	1,735	194.8	44	4.5	3.1	316.0	3.99		
	7.96	1,735	218.0	39	4.0	3.0	305.8	4.33		
	6.80	1,735	255.2	33	3.4	2.9	295.6	4.78		
	6.37	1,735	272.4	31	3.2	2.8	285.4	5.01		
	5.36	1,735	323.7	26	2.7	2.7	275.2	5.70		
0.75	75.20	1,735	23.1	368	37.5	5.8	591.2	1.14	04	62
	69.84	1,735	24.9	342	34.9	6.1	621.8	1.25		
	63.30	1,735	27.5	310	31.6	6.5	662.6	1.36		
	56.83	1,735	30.6	278	28.3	6.8	693.2	1.53		
	48.95	1,735	35.5	240	24.5	7.1	723.8	1.76		
	46.03	1,735	37.7	225	22.9	7.2	733.9	1.88		
	39.61	1,735	43.9	194	19.8	7.4	754.3	2.22		
	35.39	1,735	49.1	173	17.6	7.4	754.3	2.50		
	31.30	1,735	55.5	153	15.6	7.2	733.9	2.85		
0.75	123.85	1,735	14.1	606	61.8	6.8	693.2	1.08	05	63
	108.29	1,735	16.1	530	54.0	7.5	764.5	1.19		
	102.88	1,735	16.9	504	51.4	7.8	795.1	1.25		
	90.26	1,735	19.3	442	45.1	8.1	825.7	1.48		
	76.56	1,735	22.7	375	38.2	8.4	856.3	1.71		
	69.12	1,735	25.2	338	34.5	8.6	876.7	1.88		
	60.81	1,735	28.6	298	30.4	8.8	897.0	2.16		
	57.42	1,735	30.3	281	28.6	8.8	897.0	2.28		
	48.89	1,735	35.5	239	24.4	9.0	917.4	2.73		
	44.43	1,735	39.1	217	22.1	9.1	927.6	2.96		
0.75	123.54	1,735	14.1	605	61.7	11.0	1,121.3	1.48	06	69
	108.03	1,735	16.1	529	53.9	11.0	1,121.3	1.65		
	90.04	1,735	19.3	441	45.0	12.0	1,223.2	1.99		
	76.37	1,735	22.8	374	38.1	12.0	1,223.2	2.39		
	68.95	1,735	25.2	338	34.5	12.0	1,223.2	2.62		
	60.66	1,735	28.7	297	30.3	12.0	1,223.2	2.96		
	57.28	1,735	30.3	280	28.5	12.0	1,223.2	3.19		
0.75	154.07	1,735	11.3	751	76.6	18.0	1,834.9	2.22	07	95
	135.28	1,735	12.9	660	67.3	18.0	1,834.9	2.50		
	128.52	1,735	13.5	627	63.9	18.0	1,834.9	2.62		
	113.56	1,735	15.3	554	56.5	19.0	1,936.8	2.96		
	97.05	1,735	17.9	473	48.2	19.0	1,936.8	3.53		
0.75	197.37	1,735	8.8	966	98.5	27.0	2,752.3	2.96	08	133
	174.19	1,735	10.0	853	87.0	27.0	2,752.3	3.42		
	164.34	1,735	10.6	804	82.0	27.0	2,752.3	3.64		
	147.33	1,735	11.8	721	73.5	27.0	2,752.3	3.99		

Power (kW)	Ratio (i)	Input RPM	Output RPM	Output Torque (Nm)	Output Torque (kgm)	Permissible O.H.L (kN)	Permissible O.H.L (kg)	Service Factor	Fr.	Weight (kg)
1.5	23.36	1,750	75.0	227	23.1	2.7	275.2	0.91	03	56
	20.19	1,750	86.7	196	20.0	2.8	285.4	1.02		
	17.15	1,750	102.1	167	17.0	2.8	285.4	1.19		
	15.31	1,750	114.4	149	15.2	2.8	285.4	1.25		
	13.08	1,750	133.8	127	12.9	2.8	285.4	1.42		
	12.14	1,750	144.2	118	12.0	2.8	285.4	1.48		
	10.49	1,750	166.9	102	10.4	2.7	275.2	1.71		
	8.91	1,750	196.5	87	8.9	2.7	275.2	1.99		
	7.96	1,750	219.9	77	7.8	2.6	265.0	2.16		
	6.80	1,750	257.4	66	6.7	2.6	265.0	2.50		
	6.37	1,750	274.8	62	6.3	2.5	254.8	2.50		
	5.36	1,750	326.5	52	5.3	2.5	254.8	2.96		
1.5	39.61	1,750	44.2	385	39.2	5.6	570.8	1.14	04	64
	35.39	1,750	49.5	344	35.1	6.0	611.6	1.25		
	31.30	1,750	56.0	304	31.0	6.0	611.6	1.42		
	29.32	1,750	59.7	285	29.1	6.0	611.6	1.53		
	25.91	1,750	67.6	252	25.7	5.9	601.4	1.71		
	21.81	1,750	80.3	212	21.6	5.7	581.0	2.05		
	19.58	1,750	89.4	190	19.4	5.7	581.0	2.28		
	16.86	1,750	103.8	164	16.7	5.5	560.7	2.50		
	15.86	1,750	110.4	154	15.7	5.4	550.5	2.73		
	13.65	1,750	128.3	133	13.6	5.3	540.3	2.96		
	12.19	1,750	143.6	118	12.0	5.2	530.1	3.19		
	11.77	1,750	148.7	114	11.6	5.1	519.9	2.62		
1.5	60.81	1,750	28.8	591	60.2	7.1	723.8	1.08	05	65
	57.42	1,750	30.5	558	56.9	7.4	754.3	1.19		
	48.89	1,750	35.8	475	48.4	8.0	815.5	1.36		
	44.43	1,750	39.4	432	44.0	8.2	835.9	1.53		
	38.49	1,750	45.5	374	38.1	8.5	866.5	1.76		
	35.70	1,750	49.1	347	35.4	8.6	876.7	1.88		
	30.28	1,750	57.8	294	30.0	8.7	886.9	2.22		
	27.34	1,750	64.1	266	27.1	8.6	876.7	2.50		
	24.05	1,750	72.8	234	23.9	8.3	846.1	2.85		
	22.71	1,750	77.1	221	22.5	8.2	835.9	2.96		
	19.34	1,750	90.5	188	19.2	7.9	805.3	3.30		
1.5	90.04	1,750	19.5	875	89.2	8.9	907.2	1.02	06	71
	76.37	1,750	23.0	742	75.6	10.0	1,019.4	1.19		
	68.95	1,750	25.4	670	68.3	11.0	1,121.3	1.31		
	60.66	1,750	28.9	590	60.1	11.0	1,121.3	1.53		
	57.28	1,750	30.6	557	56.8	11.0	1,121.3	1.59		
	48.77	1,750	35.9	474	48.3	12.0	1,223.2	1.88		
	44.32	1,750	39.5	431	43.9	12.0	1,223.2	2.05		
	38.39	1,750	45.6	373	38.0	12.0	1,223.2	2.28		
	35.62	1,750	49.2	346	35.3	12.0	1,223.2	2.62		
	30.22	1,750	58.0	294	30.0	12.0	1,223.2	3.07		
	27.28	1,750	64.2	265	27.0	12.0	1,223.2	3.42		
	24.00	1,750	73.0	233	23.8	12.0	1,223.2	3.76		

# 제품 리스트

Power (kW)	Ratio (i)	Input RPM	Output RPM	Output Torque (Nm)	Output Torque (kgm)	Permissible O.H.L (kN)	Permissible O.H.L (kg)	Service Factor	Fr.	Weight (kg)
1.5	135.28	1,750	13.0	1,310	133.5	16.0	1,631.0	1.31	07	97
	128.57	1,750	13.7	1,244	126.8	16.0	1,631.0	1.36		
	113.56	1,750	15.5	1,099	112.0	17.0	1,732.9	1.53		
	97.05	1,750	18.1	940	95.8	17.0	1,732.9	1.76		
	88.97	1,750	19.7	861	87.8	18.0	1,834.9	1.93		
	78.07	1,750	22.5	756	77.1	18.0	1,834.9	2.22		
	73.99	1,750	23.7	716	73.0	18.0	1,834.9	2.39		
	64.75	1,750	27.1	627	63.9	18.0	1,834.9	2.73		
	58.34	1,750	30.0	565	57.6	19.0	1,936.8	2.96		
	51.18	1,750	34.2	495	50.5	19.0	1,936.8	3.42		
	45.16	1,750	38.8	437	44.5	19.0	1,936.8	3.87		
	40.04	1,750	43.8	388	39.6	19.0	1,936.8	4.33		
1.5	174.19	1,750	10.1	1,693	172.6	27.0	2,752.3	1.76	08	135
	164.34	1,750	10.7	1,597	162.8	27.0	2,752.3	1.82		
	147.32	1,750	11.9	1,432	146.0	27.0	2,752.3	2.05		
	126.91	1,750	13.8	1,234	125.8	27.0	2,752.3	2.39		
	115.82	1,750	15.2	1,126	114.8	27.0	2,752.3	2.62		
	102.71	1,750	17.1	998	101.7	27.0	2,752.3	2.96		
	86.34	1,750	20.3	839	85.5	27.0	2,752.3	3.53		
1.5	176.05	1,750	10.0	1,711	174.4	38.0	3,873.6	2.73	09	202
	153.21	1,750	11.5	1,489	151.8	38.0	3,873.6	3.19		
	140.28	1,750	12.5	1,364	139.0	38.0	3,873.6	3.42		
	123.93	1,750	14.2	1,205	122.8	38.0	3,873.6	3.87		
2.2	13.08	1,765	135.0	183	18.7	2.3	234.5	0.96	03	73
	10.49	1,765	168.3	146	14.9	2.3	234.5	1.14		
	8.91	1,765	198.1	124	12.6	2.3	234.5	1.36		
	7.96	1,765	221.8	111	11.3	2.3	234.5	1.48		
	6.80	1,765	259.6	95	9.7	2.3	234.5	1.71		
	6.37	1,765	277.1	89	9.1	2.3	234.5	1.76		
	5.36	1,765	329.3	75	7.6	2.2	224.3	1.99		
2.2	25.91	1,765	68.2	362	36.9	5.0	509.7	1.19	04	81
	21.81	1,765	81.0	304	31.0	5.0	509.7	1.42		
	19.58	1,765	90.2	273	27.8	5.0	509.7	1.53		
	16.86	1,765	104.7	235	24.0	4.9	499.5	1.71		
	15.86	1,765	111.3	221	22.5	4.9	499.5	1.82		
	13.65	1,765	129.4	191	19.5	4.8	489.3	1.99		
	12.19	1,765	144.8	170	17.3	4.7	479.1	2.22		
	11.77	1,765	150.0	164	16.7	4.6	468.9	1.82		
	10.56	1,765	167.2	147	15.0	4.6	468.9	2.05		
	9.10	1,765	194.0	127	12.9	4.5	458.7	2.39		

Power (kW)	Ratio (i)	Input RPM	Output RPM	Output Torque (Nm)	Output Torque (kgm)	Permissible O.H.L (kN)	Permissible O.H.L (kg)	Service Factor	Fr.	Weight (kg)
2.2	44.43	1,765	39.8	620	63.2	4.8	489.3	1.02	05	82
	38.49	1,765	45.9	537	54.7	7.5	764.5	1.19		
	35.70	1,765	49.5	498	50.8	7.8	795.1	1.31		
	30.28	1,765	58.3	423	43.1	7.8	795.1	1.53		
	27.34	1,765	64.6	382	38.9	7.8	795.1	1.65		
	24.05	1,765	73.4	336	34.3	7.6	774.7	1.88		
	22.71	1,765	77.8	317	32.3	7.6	774.7	1.99		
	19.34	1,765	91.3	270	27.5	7.4	754.3	2.28		
	17.57	1,765	100.5	245	25.0	7.2	733.9	2.39		
	15.22	1,765	116.0	212	21.6	7.1	723.8	2.73		
	13.25	1,765	133.3	185	18.9	6.9	703.4	2.96		
	11.92	1,765	148.1	166	16.9	6.5	662.6	2.62		
	11.26	1,765	156.8	157	16.0	6.5	662.6	2.85		
2.2	60.66	1,765	29.1	847	86.3	9.0	917.4	1.02	06	88
	57.28	1,765	30.9	799	81.4	10.0	1,019.4	1.08		
	48.77	1,765	36.2	681	69.4	11.0	1,121.3	1.31		
	44.32	1,765	39.9	619	63.1	11.0	1,121.3	1.42		
	38.39	1,765	46.0	536	54.6	11.0	1,121.3	1.59		
	35.62	1,765	49.6	497	50.7	12.0	1,223.2	1.76		
	30.22	1,765	58.5	422	43.0	12.0	1,223.2	2.05		
	27.28	1,765	64.7	381	38.8	12.0	1,223.2	2.28		
	24.00	1,765	73.6	335	34.1	12.0	1,223.2	2.50		
	22.66	1,765	77.9	316	32.2	12.0	1,223.2	2.62		
	19.30	1,765	91.5	269	27.4	12.0	1,223.2	2.96		
	17.54	1,765	100.7	245	25.0	12.0	1,223.2	3.19		
	15.19	1,765	116.2	212	21.6	12.0	1,223.2	3.53		
	13.22	1,765	133.6	185	18.9	12.0	1,223.2	3.87		
	12.48	1,765	141.5	174	17.7	12.0	1,223.2	3.19		
	10.63	1,765	166.1	148	15.1	12.0	1,223.2	3.64		
	9.66	1,765	182.8	135	13.8	12.0	1,223.2	3.76		
	8.37	1,765	210.9	117	11.9	12.0	1,223.2	3.99		
	7.28	1,765	242.5	102	10.4	12.0	1,223.2	4.44		
2.2	113.56	1,765	15.6	1,579	161.0	14.0	1,427.1	1.02	07	114
	97.05	1,765	18.2	1,349	137.5	15.0	1,529.1	1.19		
	88.97	1,765	19.9	1,237	126.1	16.0	1,631.0	1.31		
	78.07	1,765	22.7	1,085	110.6	17.0	1,732.9	1.53		
	73.99	1,765	23.9	1,029	104.9	17.0	1,732.9	1.59		
	64.75	1,765	27.3	900	91.7	17.0	1,732.9	1.82		
	58.34	1,765	30.3	811	82.7	18.0	1,834.9	2.05		
	51.18	1,765	34.5	711	72.5	18.0	1,834.9	2.28		
	45.16	1,765	39.1	628	64.0	18.0	1,834.9	2.62		
	40.04	1,765	44.1	557	56.8	19.0	1,936.8	2.96		
	35.26	1,765	50.1	489	49.8	19.0	1,936.8	3.42		
	30.89	1,765	57.2	429	43.7	19.0	1,936.8	3.87		
	29.27	1,765	60.4	407	41.5	19.0	1,936.8	4.10		
	25.62	1,765	68.9	356	36.3	19.0	1,936.8	4.67		

# 제품 리스트

Power (kW)	Ratio (i)	Input RPM	Output RPM	Output Torque (Nm)	Output Torque (kgm)	Permissible O.H.L (kN)	Permissible O.H.L (kg)	Service Factor	Fr.	Weight (kg)
2.2	147.32	1,765	12.0	2,056	209.6	27.0	2,752.3	1.42	08	152
	126.91	1,765	14.0	1,771	180.5	27.0	2,752.3	1.65		
	115.82	1,765	15.3	1,617	164.8	27.0	2,752.3	1.76		
	102.71	1,765	17.2	1,434	146.2	27.0	2,752.3	1.99		
	86.34	1,765	20.5	1,205	122.8	27.0	2,752.3	2.39		
	79.34	1,765	22.3	1,107	112.8	27.0	2,752.3	2.62		
	70.46	1,765	25.1	983	100.2	27.0	2,752.3	2.96		
	63.00	1,765	28.1	879	89.6	27.0	2,752.3	3.30		
2.2	176.05	1,765	10.1	2,457	250.5	38.0	3,873.6	1.88	09	219
	153.21	1,765	11.6	2,138	217.9	38.0	3,873.6	2.16		
	140.28	1,765	12.6	1,958	199.6	38.0	3,873.6	2.39		
	123.93	1,765	14.3	1,730	176.4	38.0	3,873.6	2.62		
	105.13	1,765	16.8	1,467	149.5	38.0	3,873.6	3.19		
	96.80	1,765	18.3	1,351	137.7	38.0	3,873.6	3.42		
3.7	24.05	1,755	73.0	606	61.8	5.8	591.2	1.08	05	86
	22.71	1,755	77.3	572	58.3	5.9	601.4	1.14		
	19.34	1,755	90.8	487	49.6	5.9	601.4	1.25		
	17.57	1,755	99.9	443	45.2	5.9	601.4	1.31		
	15.22	1,755	115.4	384	39.1	5.9	601.4	1.48		
	13.25	1,755	132.5	334	34.0	5.8	591.2	1.65		
	11.92	1,755	147.3	300	30.6	5.5	560.7	1.48		
	11.26	1,755	155.9	284	29.0	5.5	560.7	1.53		
	9.59	1,755	183.1	242	24.7	5.4	550.5	1.76		
	8.71	1,755	201.5	220	22.4	5.4	550.5	1.88		
	7.55	1,755	232.5	190	19.4	5.3	540.3	2.05		
	6.57	1,755	267.2	166	16.9	5.1	519.9	2.22		
3.7	30.22	1,755	58.1	761	77.6	10.0	1,019.4	1.14	06	92
	27.28	1,755	64.4	687	70.0	10.0	1,019.4	1.25		
	24.00	1,755	73.2	605	61.7	11.0	1,121.3	1.42		
	22.66	1,755	77.5	571	58.2	11.0	1,121.3	1.48		
	19.30	1,755	91.0	486	49.5	12.0	1,223.2	1.65		
	17.54	1,755	100.1	442	45.1	12.0	1,223.2	1.76		
	15.19	1,755	115.6	383	39.0	12.0	1,223.2	1.93		
	13.22	1,755	132.8	333	33.9	12.0	1,223.2	2.16		
	12.48	1,755	140.7	315	32.1	12.0	1,223.2	1.82		
	10.63	1,755	165.1	268	27.3	12.0	1,223.2	1.99		
	9.66	1,755	181.7	243	24.8	12.0	1,223.2	2.10		
	8.37	1,755	209.7	211	21.5	12.0	1,223.2	2.22		
	7.28	1,755	241.1	183	18.7	11.0	1,121.3	2.39		
	64.75	1,755	27.2	1,625	165.6	13.0	1,325.2	1.02	07	118
3.7	58.34	1,755	30.1	1,464	149.2	14.0	1,427.1	1.14		
	51.18	1,755	34.3	1,285	131.0	16.0	1,631.0	1.31		
	45.16	1,755	38.9	1,134	115.6	17.0	1,732.9	1.48		
	40.04	1,755	43.9	1,005	102.4	17.0	1,732.9	1.65		
	38.39	1,755	45.8	963	98.2	17.0	1,732.9	1.65		
	35.20	1,755	49.9	883	90.0	18.0	1,834.9	1.88		
	30.89	1,755	56.9	775	79.0	18.0	1,834.9	2.10		
	29.27	1,755	60.0	735	74.9	18.0	1,834.9	2.22		
	25.62	1,755	68.6	643	65.5	18.0	1,834.9	2.50		
	23.08	1,755	76.1	579	59.0	19.0	1,936.8	2.85		
	20.25	1,755	86.7	508	51.8	19.0	1,936.8	3.19		



Power (kW)	Ratio (i)	Input RPM	Output RPM	Output Torque (Nm)	Output Torque (kgm)	Permissible O.H.L (kN)	Permissible O.H.L (kg)	Service Factor	Fr.	Weight (kg)
3.7	115.82	1,755	15.2	2,919	297.6	25.0	2,548.4	0.96	08	156
	102.71	1,755	17.1	2,588	263.8	26.0	2,650.4	1.14		
	86.34	1,755	20.4	2,176	221.8	26.0	2,650.4	1.31		
	79.34	1,755	22.2	1,999	203.8	27.0	2,752.3	1.42		
	70.46	1,755	25.0	1,776	181.0	27.0	2,752.3	1.59		
	63.00	1,755	27.9	1,588	161.9	27.0	2,752.3	1.82		
	56.64	1,755	31.0	1,427	145.5	27.0	2,752.3	1.99		
	49.16	1,755	35.7	1,239	126.3	27.0	2,752.3	2.28		
	44.02	1,755	39.9	1,109	113.0	27.0	2,752.3	2.50		
	36.52	1,755	48.1	920	93.8	26.0	2,650.4	2.85		
3.7	153.21	1,755	11.5	3,861	393.6	38.0	3,873.6	1.19	09	223
	140.28	1,755	12.6	3,535	360.3	38.0	3,873.6	1.31		
	123.93	1,755	14.2	3,123	318.3	38.0	3,873.6	1.48		
	105.13	1,755	16.7	2,649	270.0	38.0	3,873.6	1.71		
	96.80	1,755	18.2	2,439	248.6	38.0	3,873.6	1.88		
	86.52	1,755	20.3	2,180	222.2	38.0	3,873.6	2.10		
	77.89	1,755	22.6	1,963	200.1	38.0	3,873.6	2.28		
	70.54	1,755	24.9	1,778	181.2	38.0	3,873.6	2.62		
3.7	143.47	1,755	12.3	3,616	368.6	62.0	6,320.1	2.39	10	322
	121.46	1,755	14.5	3,061	312.0	62.0	6,320.1	2.85		
	112.41	1,755	15.7	2,833	288.8	62.0	6,320.1	3.07		
	100.75	1,755	17.5	2,539	258.8	62.0	6,320.1	3.42		
	90.96	1,755	19.3	2,292	233.6	62.0	6,320.1	3.76		
	82.61	1,755	21.3	2,082	212.2	62.0	6,320.1	4.10		
	73.30	1,755	24.0	1,847	188.3	62.0	6,320.1	4.67		
5.5	17.57	1,775	101.1	609	62.1	4.8	489.3	0.96	05	117
	15.22	1,775	116.7	527	53.7	4.9	499.5	1.08		
	13.25	1,775	134.0	459	46.8	5.0	509.7	1.19		
	11.92	1,775	149.0	413	42.1	4.7	479.1	1.08		
	11.26	1,775	157.7	390	39.8	4.7	479.1	1.14		
	9.59	1,775	185.1	332	33.8	4.7	479.1	1.31		
	8.71	1,775	203.8	302	30.8	4.7	479.1	1.36		
	7.55	1,775	235.1	262	26.7	4.7	479.1	1.48		
	6.57	1,775	270.2	228	23.2	4.7	479.1	1.65		
5.5	24.00	1,775	74.0	831	84.7	9.2	937.8	1.02	06	123
	22.66	1,775	78.4	785	80.0	10.0	1,019.4	1.08		
	19.30	1,775	92.0	668	68.1	11.0	1,121.3	1.19		
	17.54	1,775	101.2	607	61.9	11.0	1,121.3	1.31		
	15.19	1,775	116.9	526	53.6	11.0	1,121.3	1.42		
	13.22	1,775	134.3	458	46.7	12.0	1,223.2	1.59		
	12.48	1,775	142.3	432	44.0	12.0	1,223.2	1.31		
	10.63	1,775	167.0	368	37.5	12.0	1,223.2	1.48		
	9.66	1,775	183.8	335	34.1	12.0	1,223.2	1.53		
	8.37	1,775	212.1	290	29.6	11.0	1,121.3	1.65		
	7.28	1,775	243.9	252	25.7	11.0	1,121.3	1.76		

# 제품 리스트

Power (kW)	Ratio (i)	Input RPM	Output RPM	Output Torque (Nm)	Output Torque (kgm)	Permissible O.H.L (kN)	Permissible O.H.L (kg)	Service Factor	Fr.	Weight (kg)
5.5	45.16	1,775	39.4	1,559	158.9	14.0	1,427.1	1.08	07	148
	40.04	1,775	44.4	1,382	140.9	15.0	1,529.1	1.19		
	30.89	1,775	57.5	1,066	108.7	17.0	1,732.9	1.53		
	29.27	1,775	60.7	1,010	103.0	17.0	1,732.9	1.65		
	25.62	1,775	69.3	884	90.1	18.0	1,834.9	1.88		
	23.08	1,775	77.0	796	81.1	18.0	1,834.9	2.10		
	20.25	1,775	87.7	699	71.3	18.0	1,834.9	2.28		
	17.87	1,775	99.4	616	62.8	18.0	1,834.9	2.50		
	15.84	1,775	112.1	546	55.7	18.0	1,834.9	2.73		
	13.52	1,775	131.3	467	47.6	18.0	1,834.9	3.07		
	12.36	1,775	143.7	432	44.0	17.0	1,732.9	2.50		
	10.84	1,775	163.8	379	38.6	17.0	1,732.9	2.85		
5.5	86.34	1,775	20.6	2,992	305.0	25.0	2,548.4	0.96	08	186
	79.34	1,775	22.4	2,749	280.2	26.0	2,650.4	1.08		
	70.46	1,775	25.2	2,442	248.9	26.0	2,650.4	1.19		
	63.00	1,775	28.2	2,183	222.5	26.0	2,650.4	1.31		
	56.64	1,775	31.4	1,963	200.1	26.0	2,650.4	1.48		
	49.16	1,775	36.2	1,703	173.6	26.0	2,650.4	1.71		
	44.02	1,775	40.4	1,525	155.5	25.0	2,548.4	1.82		
	36.52	1,775	48.7	1,265	129.0	25.0	2,548.4	2.10		
	31.39	1,775	56.6	1,087	110.8	24.0	2,446.5	2.62		
	27.88	1,775	63.7	966	98.5	23.0	2,344.5	2.85		
5.5	123.93	1,775	14.4	4,294	437.7	38.0	3,873.6	1.08	09	254
	105.13	1,775	16.9	3,643	371.4	38.0	3,873.6	1.25		
	96.80	1,775	18.4	3,354	341.9	38.0	3,873.6	1.36		
	86.52	1,775	20.6	2,998	305.6	38.0	3,873.6	1.53		
	77.89	1,775	22.8	2,699	275.1	38.0	3,873.6	1.71		
	70.54	1,775	25.2	2,444	249.1	38.0	3,873.6	1.88		
	62.55	1,775	28.4	2,167	220.9	38.0	3,873.6	2.10		
	56.55	1,775	31.4	1,960	199.8	38.0	3,873.6	2.39		
	47.93	1,775	37.1	1,661	169.3	37.0	3,771.7	2.73		
5.5	143.47	1,775	12.4	4,972	506.8	62.0	6,320.1	2.05	10	353
	121.46	1,775	14.7	4,209	429.1	62.0	6,320.1	2.05		
	112.41	1,775	15.8	3,895	397.0	62.0	6,320.1	2.22		
	100.75	1,775	17.7	3,491	355.9	62.0	6,320.1	2.50		
	90.96	1,775	19.6	3,152	321.3	62.0	6,320.1	2.73		
	82.61	1,775	21.5	2,863	291.8	62.0	6,320.1	2.96		

Power (kW)	Ratio (i)	Input RPM	Output RPM	Output Torque (Nm)	Output Torque (kgm)	Permissible O.H.L (kN)	Permissible O.H.L (kg)	Service Factor	Fr.	Weight (kg)
7.5	30.89	1,770	57.4	1,453	148.1	15.0	1,529.1	1.14	07	155
	29.27	1,770	60.5	1,377	140.4	15.0	1,529.1	1.19		
	25.62	1,770	69.1	1,205	122.8	16.0	1,631.0	1.36		
	23.08	1,770	76.7	1,086	110.7	17.0	1,732.9	1.53		
	20.25	1,770	87.5	953	97.1	17.0	1,732.9	1.71		
	17.87	1,770	99.1	841	85.7	18.0	1,834.9	1.82		
	15.84	1,770	111.8	745	75.9	17.0	1,732.9	1.99		
	13.52	1,770	131.0	636	64.8	17.0	1,732.9	2.28		
	12.36	1,770	143.3	590	60.1	16.0	1,631.0	1.82		
	10.84	1,770	163.3	517	52.7	16.0	1,631.0	2.05		
	9.56	1,770	185.2	456	46.5	15.0	1,529.1	2.22		
	8.48	1,770	208.8	405	41.3	15.0	1,529.1	2.39		
	7.24	1,770	244.5	345	35.2	15.0	1,529.1	2.62		
7.5	63.00	1,770	28.1	2,977	303.5	23.0	2,344.5	0.96	08	193
	56.64	1,770	31.3	2,676	272.8	23.0	2,344.5	1.08		
	49.16	1,770	36.1	2,323	236.8	23.0	2,344.5	1.25		
	44.02	1,770	40.3	2,080	212.0	23.0	2,344.5	1.36		
	36.52	1,770	48.5	1,726	175.9	23.0	2,344.5	1.53		
	31.39	1,770	56.4	1,483	151.2	22.0	2,242.6	1.93		
	27.87	1,770	63.6	1,317	134.3	22.0	2,242.6	2.10		
	24.92	1,770	71.1	1,178	120.1	22.0	2,242.6	2.28		
	22.41	1,770	79.0	1,058	107.8	21.0	2,140.7	2.28		
	19.45	1,770	91.1	919	93.7	21.0	2,140.7	2.73		
	17.42	1,770	101.7	823	83.9	20.0	2,038.7	2.85		
	16.00	1,770	110.7	756	77.1	20.0	2,038.7	2.50		
	14.45	1,770	122.5	682	69.5	20.0	2,038.7	3.30		
7.5	96.80	1,770	18.3	4,574	466.3	36.0	3,669.7	1.02	09	261
	86.52	1,770	20.5	4,088	416.7	36.0	3,669.7	1.14		
	77.89	1,770	22.8	3,681	375.2	36.0	3,669.7	1.25		
	70.54	1,770	25.1	3,333	339.8	36.0	3,669.7	1.36		
	62.55	1,770	28.3	2,956	301.3	36.0	3,669.7	1.53		
	56.55	1,770	31.3	2,672	272.4	35.0	3,567.8	1.71		
	47.93	1,770	37.0	2,265	230.9	35.0	3,567.8	2.05		
	41.87	1,770	42.3	1,978	201.6	34.0	3,465.9	2.28		
	38.30	1,770	46.3	1,809	184.4	33.0	3,363.9	2.50		
	34.23	1,770	51.8	1,617	164.8	33.0	3,363.9	2.85		
7.5	143.47	1,770	12.4	6,779	691.0	62.0	6,320.1	1.25	10	360
	121.46	1,770	14.6	5,739	585.0	62.0	6,320.1	1.48		
	112.41	1,770	15.8	5,312	541.5	62.0	6,320.1	1.59		
	100.75	1,770	17.6	4,761	485.3	62.0	6,320.1	1.82		
	90.96	1,770	19.5	4,298	438.1	61.0	6,218.1	1.99		
	82.61	1,770	21.5	3,904	398.0	60.0	6,116.2	2.22		
	73.30	1,770	24.2	3,464	353.1	59.0	6,014.3	2.50		
	66.52	1,770	26.7	3,143	320.4	58.0	5,912.3	2.73		
	57.17	1,770	31.0	2,701	275.3	56.0	5,708.5	3.19		
	49.90	1,770	35.5	2,358	240.4	55.0	5,606.5	3.53		
	42.33	1,770	41.9	2,000	203.9	53.0	5,402.7	3.99		
	37.00	1,770	47.9	1,748	178.2	51.0	5,198.8	4.44		

# 제품 리스트

Power (kW)	Ratio (i)	Input RPM	Output RPM	Output Torque (Nm)	Output Torque (kgm)	Permissible O.H.L (kN)	Permissible O.H.L (kg)	Service Factor	Fr.	Weight (kg)
7.5	146.07	1,770	12.2	6,902	703.6	78.0	7,951.1	2.05	12	542
	136.14	1,770	13.1	6,433	655.8	78.0	7,951.1	2.16		
	122.48	1,770	14.5	5,787	589.9	78.0	7,951.1	2.39		
	110.18	1,770	16.1	5,206	530.7	78.0	7,951.1	2.73		
	89.89	1,770	19.7	4,248	433.0	78.0	7,951.1	3.30		
	81.98	1,770	21.6	3,874	394.9	78.0	7,951.1	3.64		
	70.95	1,770	25.0	3,353	341.8	78.0	7,951.1	4.21		
11	23.08	1,780	77.2	1,571	160.1	14.0	1,427.1	1.02	07	214
	20.25	1,780	88.0	1,378	140.5	15.0	1,529.1	1.14		
	17.87	1,780	99.7	1,216	124.0	16.0	1,631.0	1.25		
	15.84	1,780	112.4	1,078	109.9	16.0	1,631.0	1.36		
	13.52	1,780	131.7	921	93.9	15.0	1,529.1	1.53		
	12.36	1,780	144.1	853	87.0	15.0	1,529.1	1.25		
	10.84	1,780	164.3	748	76.2	15.0	1,529.1	1.42		
	9.56	1,780	186.2	660	67.3	14.0	1,427.1	1.53		
	8.48	1,780	210.0	586	59.7	14.0	1,427.1	1.65		
	7.24	1,780	245.9	500	51.0	14.0	1,427.1	1.76		
11	44.02	1,780	40.5	3,009	306.7	19.0	1,936.8	0.91	08	251
	36.52	1,780	48.8	2,496	254.4	19.0	1,936.8	1.08		
	31.39	1,780	56.8	2,145	218.7	20.0	2,038.7	1.36		
	27.88	1,780	63.9	1,905	194.2	20.0	2,038.7	1.48		
	24.92	1,780	71.5	1,703	173.6	19.0	1,936.8	1.59		
	22.41	1,780	79.5	1,531	156.1	19.0	1,936.8	1.59		
	19.45	1,780	91.6	1,329	135.5	19.0	1,936.8	1.82		
	17.42	1,780	102.2	1,190	121.3	19.0	1,936.8	1.99		
	16.00	1,780	111.3	1,094	111.5	18.0	1,834.9	1.76		
	14.45	1,780	123.2	987	100.6	18.0	1,834.9	2.28		
	12.56	1,780	141.8	859	87.6	18.0	1,834.9	2.50		
	11.17	1,780	159.4	763	77.8	17.0	1,732.9	2.10		
	10.00	1,780	178.0	684	69.7	17.0	1,732.9	2.39		
	8.29	1,780	214.8	567	57.8	16.0	1,631.0	2.62		
	7.21	1,780	246.9	493	50.3	16.0	1,631.0	2.85		
11	70.54	1,780	25.3	4,822	491.5	31.0	3,160.0	0.96	09	318
	62.55	1,780	28.5	4,276	435.9	31.0	3,160.0	1.08		
	56.55	1,780	31.5	3,865	394.0	31.0	3,160.0	1.19		
	47.93	1,780	37.2	3,276	333.9	31.0	3,160.0	1.42		
	41.87	1,780	42.6	2,862	291.7	31.0	3,160.0	1.59		
	38.30	1,780	46.5	2,617	266.8	30.0	3,058.1	1.76		
	34.23	1,780	52.1	2,339	238.4	30.0	3,058.1	1.93		
	30.82	1,780	57.8	2,106	214.7	30.0	3,058.1	2.16		
	27.91	1,780	63.8	1,907	194.4	29.0	2,956.2	2.39		
	24.75	1,780	72.0	1,691	172.4	29.0	2,956.2	2.73		
	22.37	1,780	79.6	1,529	155.9	28.0	2,854.2	2.96		

Power (kW)	Ratio (i)	Input RPM	Output RPM	Output Torque (Nm)	Output Torque (kgm)	Permissible O.H.L (kN)	Permissible O.H.L (kg)	Service Factor	Fr.	Weight (kg)
11	112.41	1,780	15.9	7,684	783.3	55.0	5,606.5	1.14	10	417
	100.75	1,780	17.7	6,887	702.0	55.0	5,606.5	1.25		
	90.96	1,780	19.6	6,218	633.8	55.0	5,606.5	1.36		
	82.61	1,780	21.6	5,647	575.6	55.0	5,606.5	1.53		
	73.30	1,780	24.3	5,010	510.7	54.0	5,504.6	1.71		
	66.52	1,780	26.8	4,547	463.5	53.0	5,402.7	1.88		
	57.17	1,780	31.2	3,908	398.4	52.0	5,300.7	2.16		
	49.90	1,780	35.7	3,411	347.7	51.0	5,198.8	2.50		
	42.33	1,780	42.1	2,893	294.9	50.0	5,096.8	2.73		
	37.00	1,780	48.2	2,529	257.8	49.0	4,994.9	3.07		
11	136.14	1,780	13.1	9,306	948.6	77.0	7,849.1	1.48	12	597
	122.48	1,780	14.6	8,372	853.4	77.0	7,849.1	1.65		
	110.18	1,780	16.2	7,531	767.7	77.0	7,849.1	1.82		
	89.89	1,780	19.9	6,144	626.3	78.0	7,951.1	2.28		
	81.98	1,780	21.8	5,604	571.3	78.0	7,951.1	2.50		
	70.95	1,780	25.1	4,850	494.4	78.0	7,951.1	2.85		
11	150.41	1,780	11.9	10,281	1,048.0	109.0	11,111.1	1.88	15	850
	122.39	1,780	14.6	8,366	852.8	110.0	11,213.0	2.28		
	100.22	1,780	17.8	6,850	698.3	110.0	11,213.0	2.85		
	91.65	1,780	19.5	6,265	638.6	110.0	11,213.0	3.07		
11	164.50	1,780	10.9	11,244	1,146.2	135.0	13,761.5	3.07	16	1,274
	134.99	1,780	13.2	9,227	940.6	135.0	13,761.5	3.76		
15	31.39	1,775	56.6	2,925	298.2	16.0	1,631.0	1.02	08	259
	27.88	1,775	63.7	2,598	264.8	17.0	1,732.9	1.08		
	24.92	1,775	71.3	2,323	236.8	17.0	1,732.9	1.14		
	22.41	1,775	79.3	2,088	212.8	17.0	1,732.9	1.19		
	19.45	1,775	91.3	1,813	184.8	17.0	1,732.9	1.36		
	17.42	1,775	101.9	1,623	165.4	17.0	1,732.9	1.48		
	16.00	1,775	111.0	1,491	152.0	16.0	1,631.0	1.31		
	14.45	1,775	122.9	1,346	137.2	17.0	1,732.9	1.71		
	12.56	1,775	141.4	1,171	119.4	17.0	1,732.9	1.82		
	11.17	1,775	159.0	1,040	106.0	16.0	1,631.0	1.53		
	10.00	1,775	177.5	932	95.0	16.0	1,631.0	1.76		
	8.29	1,775	214.2	773	78.8	15.0	1,529.1	1.93		
	7.21	1,775	246.2	672	68.5	15.0	1,529.1	2.10		
15	47.93	1,775	37.1	4,468	455.5	27.0	2,752.3	1.02	09	326
	41.87	1,775	42.4	3,903	397.9	27.0	2,752.3	1.19		
	38.30	1,775	46.4	3,569	363.8	27.0	2,752.3	1.31		
	34.23	1,775	51.9	3,190	325.2	27.0	2,752.3	1.48		
	30.82	1,775	57.6	2,872	292.8	27.0	2,752.3	1.59		
	27.91	1,775	63.6	2,601	265.1	27.0	2,752.3	1.76		
	24.75	1,775	71.8	2,306	235.1	27.0	2,752.3	1.99		
	22.37	1,775	79.4	2,085	212.5	26.0	2,650.4	2.22		
	18.96	1,775	93.7	1,767	180.1	26.0	2,650.4	2.62		
	16.56	1,775	107.2	1,544	157.4	25.0	2,548.4	3.07		

# 제품 리스트

Power (kW)	Ratio (i)	Input RPM	Output RPM	Output Torque (Nm)	Output Torque (kgm)	Permissible O.H.L (kN)	Permissible O.H.L (kg)	Service Factor	Fr.	Weight (kg)
15	90.96	1,775	19.6	8,478	864.2	48.0	4,893.0	1.02	10	425
	82.61	1,775	21.5	7,700	784.9	49.0	4,994.9	1.14		
	73.30	1,775	24.3	6,832	696.4	49.0	4,994.9	1.25		
	66.52	1,775	26.7	6,200	632.0	48.0	4,893.0	1.42		
	57.17	1,775	31.1	5,329	543.2	48.0	4,893.0	1.65		
	49.90	1,775	35.6	4,651	474.1	48.0	4,893.0	1.82		
	42.33	1,775	42.0	3,946	402.2	47.0	4,791.0	1.99		
	37.00	1,775	48.0	3,449	351.6	46.0	4,689.1	2.28		
	32.69	1,775	54.3	3,046	310.5	45.0	4,587.2	2.50		
	31.28	1,775	56.8	2,916	297.2	44.0	4,485.2	2.50		
	29.00	1,775	61.3	2,702	275.4	44.0	4,485.2	2.85		
15	136.14	1,775	13.1	12,690	1,293.6	75.0	7,645.3	1.08	12	605
	122.48	1,775	14.5	11,416	1,163.7	76.0	7,747.2	1.25		
	110.18	1,775	16.2	10,270	1,046.9	76.0	7,747.2	1.36		
	89.89	1,775	19.8	8,379	854.1	77.0	7,849.1	1.65		
	81.98	1,775	21.7	7,641	778.9	77.0	7,849.1	1.82		
	70.95	1,775	25.1	6,613	674.1	78.0	7,951.1	2.10		
	62.60	1,775	28.4	5,835	594.8	76.0	7,747.2	2.39		
	54.07	1,775	32.9	5,040	513.8	74.0	7,543.3	2.85		
15	47.82	1,775	37.2	4,457	454.3	72.0	7,339.4	3.19	15	858
	150.41	1,775	11.9	14,020	1,429.2	108.0	11,009.2	1.36		
	122.39	1,775	14.6	11,408	1,162.9	109.0	11,111.1	1.71		
	100.22	1,775	17.8	9,342	952.3	108.0	11,009.2	2.10		
	91.65	1,775	19.4	8,543	870.8	107.0	10,907.2	2.28		
15	79.75	1,775	22.3	7,434	757.8	104.0	10,601.4	2.62	16	1,282
	164.50	1,775	10.8	15,333	1,563.0	135.0	13,761.5	2.28		
18.5	134.99	1,775	13.2	12,583	1,282.7	135.0	13,761.5	2.73	08	277
	24.92	1,780	71.5	2,845	290.0	15.0	1,529.1	0.96		
	22.41	1,780	79.5	2,558	260.8	15.0	1,529.1	0.96		
	19.45	1,780	91.6	2,221	226.4	15.0	1,529.1	1.14		
	17.42	1,780	102.2	1,988	202.7	16.0	1,631.0	1.19		
	14.45	1,780	123.2	1,649	168.1	16.0	1,631.0	1.36		
	12.56	1,780	141.8	1,434	146.2	16.0	1,631.0	1.48		
	11.17	1,780	159.4	1,274	129.9	15.0	1,529.1	1.25		
	10.00	1,780	178.0	1,142	116.4	15.0	1,529.1	1.42		
	8.29	1,780	214.8	947	96.5	14.0	1,427.1	1.59		
18.5	7.21	1,780	246.9	823	83.9	14.0	1,427.1	1.71	09	344
	41.87	1,780	42.6	4,781	487.4	24.0	2,446.5	0.96		
	30.82	1,780	57.8	3,518	358.6	25.0	2,548.4	1.31		
	27.91	1,780	63.8	3,186	324.8	25.0	2,548.4	1.48		
	24.75	1,780	72.0	2,825	288.0	25.0	2,548.4	1.65		
	22.37	1,780	79.6	2,554	260.3	25.0	2,548.4	1.82		
	18.96	1,780	93.9	2,165	220.7	24.0	2,446.5	2.16		
	16.56	1,780	107.5	1,891	192.8	24.0	2,446.5	2.50		
	13.85	1,780	128.6	1,581	161.2	24.0	2,446.5	2.96		
18.5	11.99	1,780	148.5	1,369	139.6	23.0	2,344.5	3.07		



Power (kW)	Ratio (i)	Input RPM	Output RPM	Output Torque (Nm)	Output Torque (kgm)	Permissible O.H.L (kN)	Permissible O.H.L (kg)	Service Factor	Fr.	Weight (kg)
18.5	73.30	1,780	24.3	8,369	853.1	44.0	4,485.2	1.02	10	443
	66.52	1,780	26.8	7,595	774.2	44.0	4,485.2	1.14		
	57.17	1,780	31.2	6,528	665.4	44.0	4,485.2	1.31		
	49.90	1,780	35.7	5,697	580.7	44.0	4,485.2	1.48		
	42.33	1,780	42.1	4,833	492.7	44.0	4,485.2	1.65		
	37.00	1,780	48.2	4,225	430.7	43.0	4,383.3	1.82		
	32.69	1,780	54.5	3,731	380.3	43.0	4,383.3	2.10		
	31.28	1,780	57.0	3,571	364.0	43.0	4,383.3	2.05		
	29.00	1,780	61.4	3,310	337.4	42.0	4,281.3	2.39		
	26.32	1,780	67.7	3,004	306.2	42.0	4,281.3	2.62		
	22.62	1,780	78.7	2,582	263.2	41.0	4,179.4	2.96		
	19.74	1,780	90.2	2,254	229.8	40.0	4,077.5	3.42		
	16.75	1,780	106.3	1,911	194.8	38.0	3,873.6	3.99		
18.5	110.18	1,780	16.2	12,580	1,282.4	75.0	7,645.3	1.14	12	623
	89.89	1,780	19.9	10,263	1,046.2	75.0	7,645.3	1.36		
	81.98	1,780	21.8	9,360	954.1	75.0	7,645.3	1.48		
	70.95	1,780	25.1	8,101	825.8	74.0	7,543.3	1.71		
	62.60	1,780	28.5	7,148	728.6	73.0	7,441.4	1.93		
	54.07	1,780	33.0	6,174	629.4	71.0	7,237.5	2.28		
	47.82	1,780	37.3	5,460	556.6	70.0	7,135.6	2.50		
	40.19	1,780	44.3	4,589	467.8	68.0	6,931.7	3.07		
	36.25	1,780	49.2	4,146	422.6	66.0	6,727.8	3.42		
	31.37	1,780	56.8	3,587	365.6	65.0	6,625.9	3.87		
	27.68	1,780	64.4	3,166	322.7	63.0	6,422.0	4.44		
18.5	122.39	1,780	14.6	13,974	1,424.5	106.0	10,805.3	1.36	15	876
	100.22	1,780	17.8	11,443	1,166.5	104.0	10,601.4	1.71		
	91.65	1,780	19.5	10,464	1,066.7	102.0	10,397.6	1.88		
	79.75	1,780	22.4	9,106	928.2	100.0	10,193.7	2.10		
	70.38	1,780	25.3	8,036	819.2	98.0	9,989.8	2.39		
	61.02	1,780	29.2	6,967	710.2	96.0	9,785.9	2.85		
	54.29	1,780	32.8	6,199	631.9	94.0	9,582.1	3.19		
	46.79	1,780	38.1	5,342	544.5	91.0	9,276.2	3.64		
	38.02	1,780	46.9	4,341	442.5	87.0	8,868.5	4.44		
18.5	134.99	1,780	13.2	15,413	1,571.2	135.0	13,761.5	2.22	16	1,300
	109.83	1,780	16.3	12,540	1,278.3	135.0	13,761.5	2.73		
	87.86	1,780	20.3	10,032	1,022.6	135.0	13,761.5	3.42		
22	19.45	1,780	91.6	2,641	269.2	14.0	1,427.1	0.91	08	277
	17.42	1,780	102.2	2,364	241.0	14.0	1,427.1	1.02		
	14.45	1,780	123.2	1,961	199.9	14.0	1,427.1	1.14		
	12.56	1,780	141.8	1,705	173.8	15.0	1,529.1	1.25		
	11.17	1,780	159.4	1,515	154.4	13.0	1,325.2	1.08		
	10.00	1,780	178.0	1,358	138.4	13.0	1,325.2	1.19		
	8.29	1,780	214.8	1,126	114.8	14.0	1,427.1	1.36		
	7.21	1,780	246.9	979	99.8	13.0	1,325.2	1.42		

# 제품 리스트

Power (kW)	Ratio (i)	Input RPM	Output RPM	Output Torque (Nm)	Output Torque (kgm)	Permissible O.H.L (kN)	Permissible O.H.L (kg)	Service Factor	Fr.	Weight (kg)
22	30.82	1,780	57.8	4,183	426.4	23.0	2,344.5	1.08	09	344
	27.91	1,780	63.8	3,788	386.1	23.0	2,344.5	1.19		
	24.75	1,780	72.0	3,359	342.4	23.0	2,344.5	1.36		
	22.37	1,780	79.6	3,037	309.6	23.0	2,344.5	1.53		
	18.96	1,780	93.9	2,574	262.4	23.0	2,344.5	1.82		
	16.56	1,780	107.5	2,248	229.2	23.0	2,344.5	2.05		
	13.85	1,780	128.6	1,881	191.7	23.0	2,344.5	2.50		
	11.99	1,780	148.5	1,628	166.0	22.0	2,242.6	2.62		
	10.41	1,780	171.0	1,413	144.0	21.0	2,140.7	2.16		
22	8.71	1,780	204.4	1,183	120.6	20.0	2,038.7	2.39	10	443
	57.17	1,780	31.2	7,762	791.2	41.0	4,179.4	1.14		
	49.90	1,780	35.7	6,775	690.6	41.0	4,179.4	1.25		
	42.33	1,780	42.1	5,748	585.9	41.0	4,179.4	1.36		
	37.00	1,780	48.2	5,024	512.1	41.0	4,179.4	1.53		
	32.69	1,780	54.5	4,437	452.3	41.0	4,179.4	1.76		
	31.28	1,780	57.0	4,247	432.9	41.0	4,179.4	1.71		
	29.00	1,780	61.4	3,936	401.2	40.0	4,077.5	1.99		
	26.32	1,780	67.7	3,572	364.1	40.0	4,077.5	2.16		
	22.62	1,780	78.7	3,070	312.9	39.0	3,975.5	2.50		
	19.74	1,780	90.2	2,680	273.2	38.0	3,873.6	2.85		
	16.75	1,780	106.3	2,273	231.7	37.0	3,771.7	3.30		
	14.64	1,780	121.6	1,986	202.4	36.0	3,669.7	3.76		
	13.43	1,780	132.6	1,824	185.9	35.0	3,567.8	2.50		
	11.73	1,780	151.8	1,591	162.2	34.0	3,465.9	2.96		
22	9.94	1,780	179.1	1,350	137.6	33.0	3,363.9	3.30	12	623
	89.89	1,780	19.9	12,205	1,244.1	70.0	7,135.6	1.14		
	81.98	1,780	21.8	11,131	1,134.7	70.0	7,135.6	1.25		
	70.95	1,780	25.1	9,634	982.1	70.0	7,135.6	1.48		
	62.60	1,780	28.5	8,500	866.5	69.0	7,033.6	1.65		
	54.07	1,780	33.0	7,342	748.4	67.0	6,829.8	1.93		
	47.82	1,780	37.3	6,493	661.9	67.0	6,829.8	2.16		
	40.19	1,780	44.3	5,457	556.3	66.0	6,727.8	2.62		
	36.25	1,780	49.2	4,930	502.5	64.0	6,524.0	2.85		
	31.37	1,780	56.8	4,266	434.9	63.0	6,422.0	3.30		
	27.68	1,780	64.4	3,765	383.8	61.0	6,218.1	3.76		
	23.91	1,780	74.5	3,252	331.5	60.0	6,116.2	4.33		
22	21.15	1,780	84.2	2,876	293.2	58.0	5,912.3	4.90	15	876
	122.39	1,780	14.6	16,618	1,694.0	100.0	10,193.7	1.19		
	100.22	1,780	17.8	13,608	1,387.2	99.0	10,091.7	1.42		
	91.65	1,780	19.5	12,444	1,268.5	98.0	9,989.8	1.53		
	79.75	1,780	22.4	10,828	1,103.8	97.0	9,887.9	1.76		
	70.38	1,780	25.3	9,556	974.1	95.0	9,684.0	2.05		
	61.02	1,780	29.2	8,285	844.5	93.0	9,480.1	2.39		
	54.29	1,780	32.8	7,371	751.4	91.0	9,276.2	2.62		
	46.79	1,780	38.1	6,353	647.6	89.0	9,072.4	3.07		
22	38.02	1,780	46.9	5,162	526.2	85.0	8,664.6	3.76	16	1,300
	134.99	1,780	13.2	18,329	1,868.4	135.0	13,761.5	1.88		
	109.83	1,780	16.3	14,913	1,520.2	135.0	13,761.5	2.28		
	87.86	1,780	20.3	11,930	1,216.1	135.0	13,761.5	2.85		
22	78.14	1,780	22.8	10,610	1,081.5	135.0	13,761.5	3.30		

Power (kW)	Ratio (i)	Input RPM	Output RPM	Output Torque (Nm)	Output Torque (kgm)	Permissible O.H.L (kN)	Permissible O.H.L (kg)	Service Factor	Fr.	Weight (kg)
30	24.75	1,780	72.0	4,581	467.0	19.0	1,936.8	1.02	09	376
	22.37	1,780	79.6	4,142	422.2	19.0	1,936.8	1.14		
	18.96	1,780	93.9	3,511	357.9	20.0	2,038.7	1.31		
	16.56	1,780	107.5	3,066	312.5	20.0	2,038.7	1.53		
	13.85	1,780	128.6	2,564	261.4	20.0	2,038.7	1.82		
	11.99	1,780	148.5	2,220	226.3	20.0	2,038.7	1.88		
	10.41	1,780	171.0	1,927	196.4	19.0	1,936.8	1.59		
	8.71	1,780	204.4	1,613	164.4	18.0	1,834.9	1.76		
30	42.33	1,780	42.1	7,838	799.0	34.0	3,465.9	1.02	10	475
	37.00	1,780	48.2	6,851	698.4	36.0	3,669.7	1.14		
	31.28	1,780	57.0	5,792	590.4	34.0	3,465.9	1.25		
	29.00	1,780	61.4	5,368	547.2	36.0	3,669.7	1.42		
	26.32	1,780	67.7	4,871	496.5	36.0	3,669.7	1.59		
	22.62	1,780	78.7	4,186	426.7	36.0	3,669.7	1.88		
	19.74	1,780	90.2	3,655	372.6	36.0	3,669.7	2.10		
	16.75	1,780	106.3	3,099	315.9	35.0	3,567.8	2.50		
	14.64	1,780	121.6	2,709	276.1	34.0	3,465.9	2.73		
	13.43	1,780	132.6	2,487	253.5	33.0	3,363.9	1.88		
	11.73	1,780	151.8	2,170	221.2	32.0	3,262.0	2.16		
	9.94	1,780	179.1	1,840	187.6	31.0	3,160.0	2.50		
30	8.69	1,780	204.9	1,609	164.0	31.0	3,160.0	2.73	12	656
	70.95	1,780	25.1	13,137	1,339.1	61.0	6,218.1	1.08		
	62.60	1,780	28.5	11,591	1,181.5	61.0	6,218.1	1.19		
	54.07	1,780	33.0	10,011	1,020.5	61.0	6,218.1	1.42		
	47.82	1,780	37.3	8,854	902.5	61.0	6,218.1	1.59		
	40.19	1,780	44.3	7,441	758.5	61.0	6,218.1	1.88		
	36.25	1,780	49.2	6,723	685.3	60.0	6,116.2	2.10		
	31.37	1,780	56.8	5,818	593.1	59.0	6,014.3	2.39		
	27.68	1,780	64.4	5,134	523.3	58.0	5,912.3	2.73		
	23.91	1,780	74.5	4,434	452.0	57.0	5,810.4	3.19		
30	21.15	1,780	84.2	3,922	399.8	56.0	5,708.5	3.42	15	909
	100.22	1,780	17.8	18,556	1,891.5	88.0	8,970.4	1.02		
	91.65	1,780	19.5	16,969	1,729.8	88.0	8,970.4	1.14		
	79.75	1,780	22.4	14,766	1,505.2	88.0	8,970.4	1.31		
	70.38	1,780	25.3	13,031	1,328.3	87.0	8,868.5	1.48		
	61.02	1,780	29.2	11,298	1,151.7	86.0	8,766.6	1.71		
	54.29	1,780	32.8	10,052	1,024.7	85.0	8,664.6	1.93		
	46.79	1,780	38.1	8,663	883.1	83.0	8,460.8	2.22		
	38.02	1,780	46.9	7,040	717.6	81.0	8,256.9	2.73		
30	31.30	1,780	56.9	5,795	590.7	78.0	7,951.1	3.42	16	1,333
	109.83	1,780	16.3	20,335	2,072.9	135.0	13,761.5	1.71		
	87.86	1,780	20.3	16,268	1,658.3	135.0	13,761.5	2.10		
	78.14	1,780	22.8	14,468	1,474.8	135.0	13,761.5	2.39		
	68.07	1,780	26.2	12,605	1,284.9	135.0	13,761.5	2.73		
	60.74	1,780	29.4	11,246	1,146.4	135.0	13,761.5	3.07		

# 제품 리스트

Power (kW)	Ratio (i)	Input RPM	Output RPM	Output Torque (Nm)	Output Torque (kgm)	Permissible O.H.L (kN)	Permissible O.H.L (kg)	Service Factor	Fr.	Weight (kg)
37	37.00	1,775	48.0	8,392	855.5	28.0	2,854.2	0.91	10	606
	31.28	1,775	56.8	7,095	723.2	30.0	3,058.1	1.02		
	29.00	1,775	61.3	6,575	670.2	32.0	3,262.0	1.19		
	26.32	1,775	67.5	5,967	608.3	33.0	3,363.9	1.31		
	22.62	1,775	78.5	5,128	522.7	33.0	3,363.9	1.48		
	19.74	1,775	90.0	4,477	456.4	33.0	3,363.9	1.71		
	16.75	1,775	106.0	3,797	387.1	33.0	3,363.9	1.99		
	14.64	1,775	121.3	3,318	338.2	32.0	3,262.0	2.22		
	13.43	1,775	132.2	3,046	310.5	31.0	3,160.0	1.53		
	11.73	1,775	151.4	2,658	270.9	30.0	3,058.1	1.76		
	9.94	1,775	178.6	2,255	229.9	30.0	3,058.1	1.99		
	8.69	1,775	204.3	1,971	200.9	29.0	2,956.2	2.22		
37	62.60	1,775	28.4	14,198	1,447.3	55.0	5,606.5	0.96	12	787
	54.07	1,775	32.9	12,264	1,250.2	56.0	5,708.5	1.14		
	47.82	1,775	37.2	10,846	1,105.6	56.0	5,708.5	1.31		
	40.19	1,775	44.2	9,116	929.3	56.0	5,708.5	1.53		
	36.25	1,775	49.0	8,236	839.6	56.0	5,708.5	1.71		
	31.37	1,775	56.6	7,126	726.4	56.0	5,708.5	1.93		
	27.68	1,775	64.2	6,290	641.2	55.0	5,606.5	2.22		
	23.91	1,775	74.3	5,432	553.7	54.0	5,504.6	2.62		
	21.15	1,775	84.0	4,804	489.7	53.0	5,402.7	2.96		
	17.77	1,775	99.9	4,037	411.5	52.0	5,300.7	3.42		
	14.35	1,775	123.7	3,262	332.5	50.0	5,096.8	3.99		
	12.79	1,775	138.8	2,905	296.1	48.0	4,893.0	3.19		
	10.74	1,775	165.3	2,441	248.8	46.0	4,689.1	3.53		
	8.68	1,775	204.5	1,971	200.9	44.0	4,485.2	3.99		
37	91.65	1,775	19.4	20,787	2,119.0	79.0	8,053.0	0.91	15	1,039
	79.75	1,775	22.3	18,088	1,843.8	80.0	8,154.9	1.08		
	70.38	1,775	25.3	15,963	1,627.2	81.0	8,256.9	1.19		
	61.02	1,775	29.1	13,840	1,410.8	80.0	8,154.9	1.42		
	54.29	1,775	32.7	12,314	1,255.2	80.0	8,154.9	1.59		
	46.79	1,775	38.0	10,613	1,081.9	79.0	8,053.0	1.82		
	38.02	1,775	46.7	8,623	879.0	77.0	7,849.1	2.22		
	31.30	1,775	56.8	7,099	723.6	75.0	7,645.3	2.73		
37	109.83	1,775	16.2	24,911	2,539.3	135.0	13,761.5	1.36	16	1,463
	87.86	1,775	20.3	19,928	2,031.4	135.0	13,761.5	1.71		
	78.14	1,775	22.8	17,723	1,806.6	135.0	13,761.5	1.93		
	68.07	1,775	26.1	15,441	1,574.0	135.0	13,761.5	2.22		
	60.74	1,775	29.3	13,777	1,404.4	135.0	13,761.5	2.50		
	51.77	1,775	34.3	11,742	1,196.9	135.0	13,761.5	2.96		

Power (kW)	Ratio (i)	Input RPM	Output RPM	Output Torque (Nm)	Output Torque (kgm)	Permissible O.H.L (kN)	Permissible O.H.L (kg)	Service Factor	Fr.	Weight (kg)
45	29.00	1,780	61.4	7,997	815.2	24.0	2,446.5	0.96	10	606
	26.32	1,780	67.7	7,258	739.9	27.0	2,752.3	1.08		
	22.62	1,780	78.7	6,237	635.8	29.0	2,956.2	1.25		
	19.74	1,780	90.2	5,445	555.0	30.0	3,058.1	1.42		
	16.75	1,780	106.3	4,618	470.7	30.0	3,058.1	1.65		
	14.64	1,780	121.6	4,036	411.4	30.0	3,058.1	1.82		
	13.43	1,780	132.6	3,705	377.7	28.0	2,854.2	1.25		
	11.73	1,780	151.8	3,233	329.6	28.0	2,854.2	1.42		
	9.94	1,780	179.1	2,742	279.5	28.0	2,854.2	1.65		
	8.69	1,780	204.9	2,397	244.3	28.0	2,854.2	1.82		
45	47.82	1,780	37.3	13,191	1,344.6	50.0	5,096.8	1.08	12	787
	40.19	1,780	44.3	11,087	1,130.2	51.0	5,198.8	1.25		
	36.25	1,780	49.2	10,016	1,021.0	51.0	5,198.8	1.42		
	31.37	1,780	56.8	8,667	883.5	52.0	5,300.7	1.59		
	27.68	1,780	64.4	7,649	779.7	51.0	5,198.8	1.82		
	23.91	1,780	74.5	6,607	673.5	51.0	5,198.8	2.10		
	21.15	1,780	84.2	5,843	595.6	51.0	5,198.8	2.39		
	17.77	1,780	100.2	4,910	500.5	50.0	5,096.8	2.85		
	14.35	1,780	124.1	3,967	404.4	48.0	4,893.0	3.30		
	12.79	1,780	139.2	3,534	360.2	46.0	4,689.1	2.62		
	10.74	1,780	165.8	2,968	302.5	45.0	4,587.2	2.85		
	8.68	1,780	205.1	2,397	244.3	43.0	4,383.3	3.19		
45	70.38	1,780	25.3	19,415	1,979.1	73.0	7,441.4	0.96	15	1,039
	61.02	1,780	29.2	16,833	1,715.9	74.0	7,543.3	1.14		
	54.29	1,780	32.8	14,976	1,526.6	74.0	7,543.3	1.31		
	46.79	1,780	38.1	12,907	1,315.7	74.0	7,543.3	1.48		
	38.02	1,780	46.9	10,488	1,069.1	73.0	7,441.4	1.82		
	31.30	1,780	56.9	8,634	880.1	72.0	7,339.4	2.22		
	27.62	1,780	64.5	7,619	776.7	71.0	7,237.5	2.50		
	23.95	1,780	74.4	6,607	673.5	69.0	7,033.6	2.96		
	21.31	1,780	83.6	5,878	599.2	68.0	6,931.7	3.30		
	18.37	1,780	96.9	5,067	516.5	66.0	6,727.8	3.76		
45	109.83	1,780	16.3	28,782	2,933.9	135.0	13,761.5	1.14	16	1,463
	87.86	1,780	20.3	23,025	2,347.1	135.0	13,761.5	1.42		
	78.14	1,780	22.8	20,477	2,087.4	135.0	13,761.5	1.59		
	68.07	1,780	26.2	17,841	1,818.7	135.0	13,761.5	1.82		
	60.74	1,780	29.4	15,918	1,622.6	134.0	13,659.5	2.05		
	51.77	1,780	34.4	13,567	1,383.0	130.0	13,251.8	2.39		
	42.89	1,780	41.6	11,242	1,146.0	127.0	12,946.0	2.96		

# 제품 리스트

Power (kW)	Ratio (i)	Input RPM	Output RPM	Output Torque (Nm)	Output Torque (kgm)	Permissible O.H.L (kN)	Permissible O.H.L (kg)	Service Factor	Fr.	Weight (kg)
55	40.19	1,785	44.5	13,550	1,381.2	45.0	4,587.2	1.02	12	856
	31.37	1,785	57.0	10,593	1,079.8	47.0	4,791.0	1.31		
	27.68	1,785	64.5	9,349	953.0	47.0	4,791.0	1.48		
	23.91	1,785	74.7	8,075	823.1	47.0	4,791.0	1.76		
	21.15	1,785	84.4	7,141	727.9	47.0	4,791.0	1.99		
	17.77	1,785	100.5	6,001	611.7	47.0	4,791.0	2.28		
	14.35	1,785	124.4	4,848	494.2	46.0	4,689.1	2.73		
	12.79	1,785	139.6	4,319	440.3	44.0	4,485.2	2.10		
	12.74	1,785	140.2	3,628	369.8	43.0	4,383.3	2.39		
	8.68	1,785	205.7	2,930	298.7	41.0	4,179.4	2.62		
55	61.02	1,785	29.3	20,573	2,097.1	66.0	6,727.8	0.96	15	1,109
	54.29	1,785	32.9	18,304	1,865.9	67.0	6,829.8	1.08		
	46.79	1,785	38.2	15,775	1,608.1	68.0	6,931.7	1.25		
	38.02	1,785	47.0	12,819	1,306.7	68.0	6,931.7	1.53		
	31.30	1,785	57.1	10,553	1,075.7	67.0	6,829.8	1.82		
	27.62	1,785	64.7	9,312	949.2	67.0	6,829.8	2.10		
	23.95	1,785	74.6	8,075	823.1	66.0	6,727.8	2.39		
	21.31	1,785	83.8	7,185	732.4	65.0	6,625.9	2.73		
	18.37	1,785	97.2	6,194	631.4	64.0	6,524.0	3.19		
	14.92	1,785	119.7	5,030	512.7	62.0	6,320.1	3.87		
	12.65	1,785	141.2	4,268	435.1	60.0	6,116.2	4.33		
55	87.86	1,785	20.4	29,622	3,019.6	131.0	13,353.7	1.14	16	1,533
	78.14	1,785	22.9	26,345	2,685.5	130.0	13,251.8	1.31		
	68.07	1,785	26.3	22,953	2,339.8	129.0	13,149.8	1.48		
	60.74	1,785	29.4	20,479	2,087.6	128.0	13,047.9	1.71		
	51.77	1,785	34.5	17,454	1,779.2	125.0	12,742.1	1.99		
	42.89	1,785	41.7	14,464	1,474.4	121.0	12,334.4	2.39		
	36.61	1,785	48.8	12,343	1,258.2	119.0	12,130.5	2.85		
75	31.37	1,785	57.0	14,446	1,472.6	37.0	3,771.7	0.96	12	1,029
	27.68	1,785	64.5	12,749	1,299.6	39.0	3,975.5	1.08		
	23.91	1,785	74.7	11,011	1,122.4	40.0	4,077.5	1.25		
	21.15	1,785	84.4	9,738	992.7	41.0	4,179.4	1.42		
	17.77	1,785	100.5	8,184	834.3	41.0	4,179.4	1.71		
	14.35	1,785	124.4	6,611	673.9	42.0	4,281.3	1.99		
	12.79	1,785	139.6	5,889	600.3	39.0	3,975.5	1.59		
	10.74	1,785	166.3	4,947	504.3	39.0	3,975.5	1.76		
	8.68	1,785	205.7	3,995	407.2	38.0	3,873.6	1.93		
75	38.02	1,785	47.0	17,480	1,781.9	58.0	5,912.3	1.14	15	1,282
	31.30	1,785	57.1	14,390	1,466.9	59.0	6,014.3	1.36		
	27.62	1,785	64.7	12,698	1,294.4	59.0	6,014.3	1.53		
	23.95	1,785	74.6	11,011	1,122.4	59.0	6,014.3	1.76		
	21.31	1,785	83.8	9,797	998.7	59.0	6,014.3	1.99		
	18.37	1,785	97.2	8,446	861.0	59.0	6,014.3	2.28		
	14.92	1,785	119.7	6,860	699.3	57.0	5,810.4	2.85		
	12.65	1,785	141.2	5,820	593.3	56.0	5,708.5	3.19		

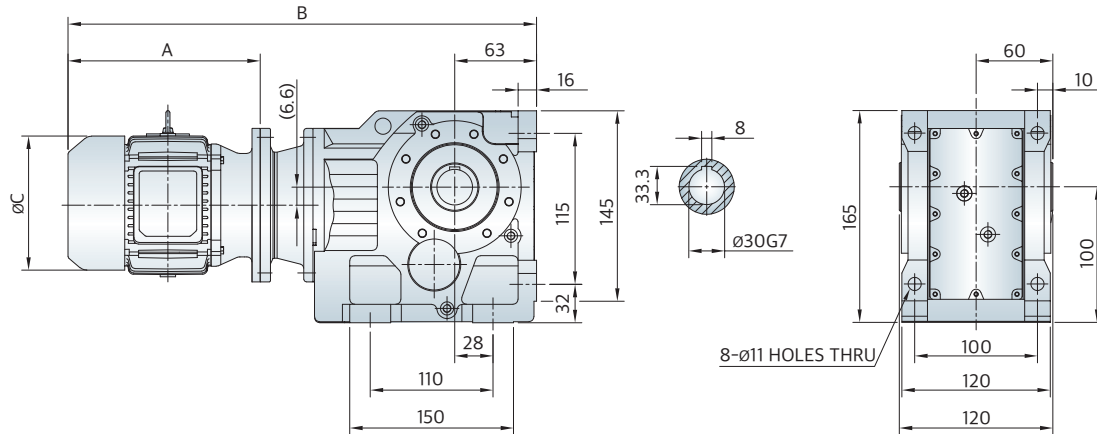


Power (kW)	Ratio (i)	Input RPM	Output RPM	Output Torque (Nm)	Output Torque (kgm)	Permissible O.H.L (kN)	Permissible O.H.L (kg)	Service Factor	Fr.	Weight (kg)
75	78.14	1,785	22.9	35,925	3,662.1	113.0	11,518.9	0.96	16	1,706
	68.07	1,785	26.3	31,300	3,190.6	114.0	11,620.8	1.08		
	60.74	1,785	29.4	27,926	2,846.7	115.0	11,722.7	1.25		
	51.77	1,785	34.5	23,802	2,426.3	114.0	11,620.8	1.48		
	42.89	1,785	41.7	19,723	2,010.5	113.0	11,518.9	1.76		
	36.61	1,785	48.8	16,832	1,715.8	111.0	11,315.0	2.05		
	32.25	1,785	55.4	14,781	1,506.7	109.0	11,111.1	2.39		
	28.77	1,785	62.1	13,186	1,344.1	107.0	10,907.2	2.62		
	24.52	1,785	72.8	11,241	1,145.9	105.0	10,703.4	3.07		
90	23.91	1,785	74.7	13,125	1,337.9	35.0	3,567.8	1.08	12	1,069
	21.15	1,785	84.4	11,607	1,183.2	36.0	3,669.7	1.19		
	17.77	1,785	100.5	9,754	994.3	37.0	3,771.7	1.42		
	14.35	1,785	124.4	7,880	803.3	38.0	3,873.6	1.65		
	12.79	1,785	139.6	7,020	715.6	36.0	3,669.7	1.31		
	10.74	1,785	166.3	5,897	601.1	36.0	3,669.7	1.48		
	8.68	1,785	205.7	4,762	485.4	36.0	3,669.7	1.65		
90	38.02	1,785	47.0	20,835	2,123.9	50.0	5,096.8	0.91	15	1,322
	31.30	1,785	57.1	17,153	1,748.5	53.0	5,402.7	1.14		
	27.62	1,785	64.7	15,136	1,542.9	54.0	5,504.6	1.25		
	23.95	1,785	74.6	13,125	1,337.9	55.0	5,606.5	1.48		
	21.31	1,785	83.8	11,678	1,190.4	55.0	5,606.5	1.65		
	18.37	1,785	97.2	10,067	1,026.2	55.0	5,606.5	1.93		
	14.92	1,785	119.7	8,176	833.4	55.0	5,606.5	2.39		
	12.65	1,785	141.2	6,938	707.2	54.0	5,504.6	2.62		
90	68.07	1,785	26.3	37,308	3,803.1	104.0	10,601.4	0.91	16	1,746
	60.74	1,785	29.4	33,286	3,393.1	105.0	10,703.4	1.02		
	51.77	1,785	34.5	28,370	2,891.9	106.0	10,805.3	1.19		
	42.89	1,785	41.7	23,509	2,396.4	106.0	10,805.3	1.48		
	36.61	1,785	48.8	20,062	2,045.1	105.0	10,703.4	1.71		
	32.25	1,785	55.4	17,618	1,795.9	104.0	10,601.4	1.93		
	28.77	1,785	62.1	15,717	1,602.1	103.0	10,499.5	2.16		
	24.52	1,785	72.8	13,399	1,365.9	101.0	10,295.6	2.62		
	20.32	1,785	87.9	11,103	1,131.8	98.0	9,989.8	3.07		
	17.34	1,785	103.0	9,475	965.9	95.0	9,684.0	3.64		

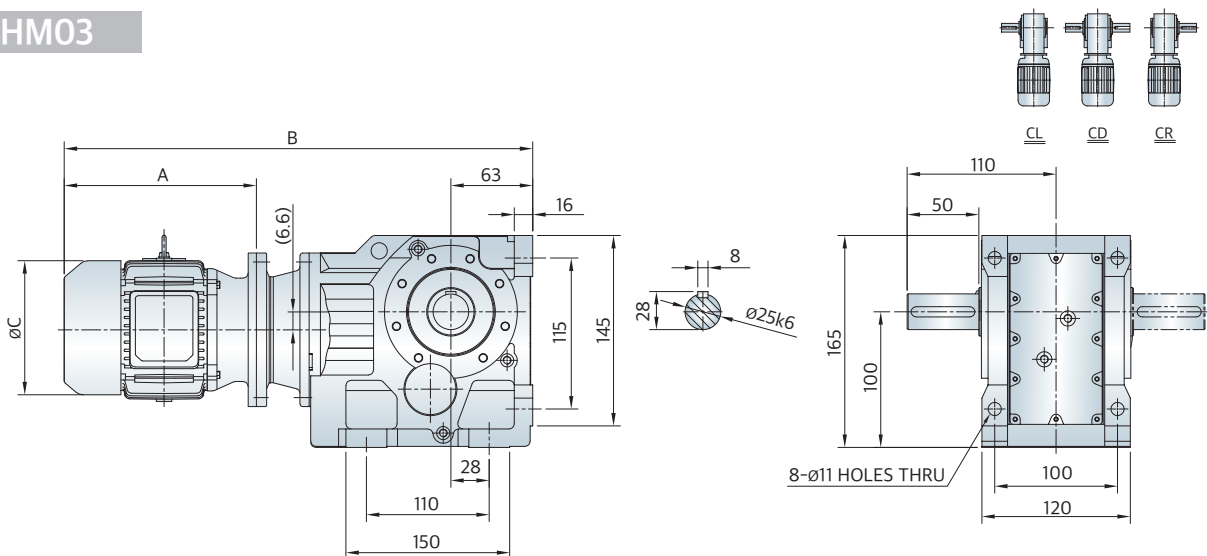
# 외형도 및 외형치수

## KHHM03 & KHM03

### KHHM03



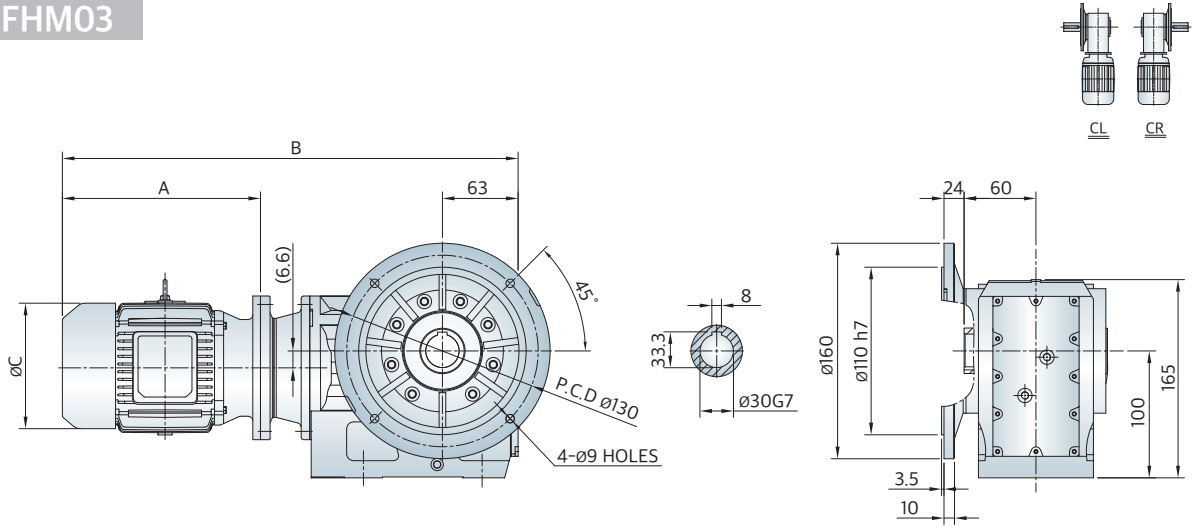
### KHM03



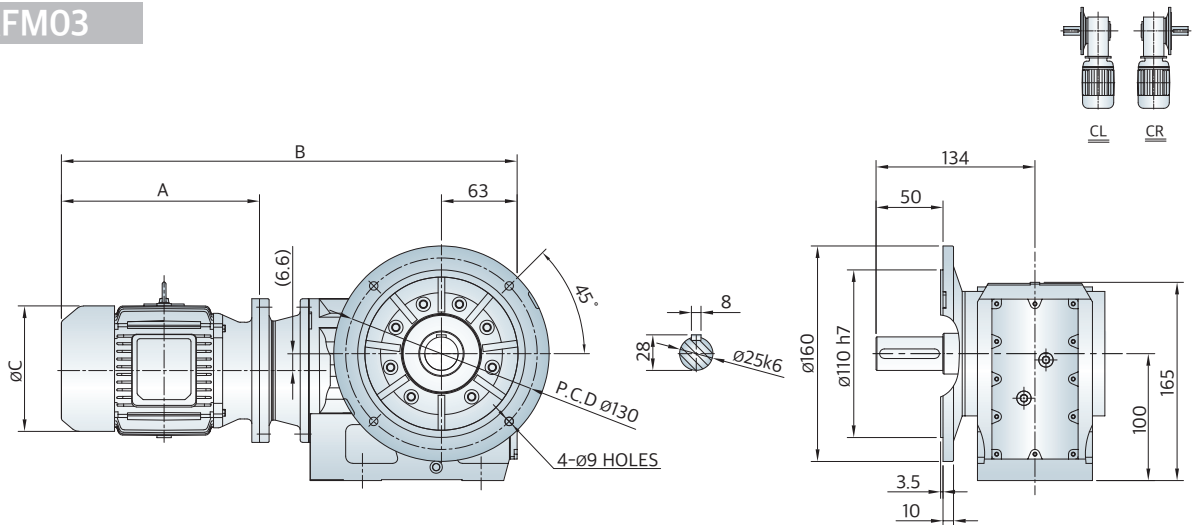
Fr.	Power (kW)	Ratio (i)	Service Factor	A	B	C	Weight (kg)	
							KHHM	KHM
03	0.2	6.37 ~ 106.38	17.10 ~ 1.42	232	505	160	30	30
	0.4	5.36 ~ 97.81	11.10 ~ 0.91	232	505	160	30	30
	0.75	5.36 ~ 44.46	5.70 ~ 0.96	259	532	200	54	54
	1.5	5.36 ~ 23.36	2.96 ~ 0.91	315	588	200	56	56
	2.2	5.36 ~ 13.08	1.99 ~ 0.96	346	625	250	73	73

## KFHM03 &amp; KFM03

## KFHM03



## KFM03

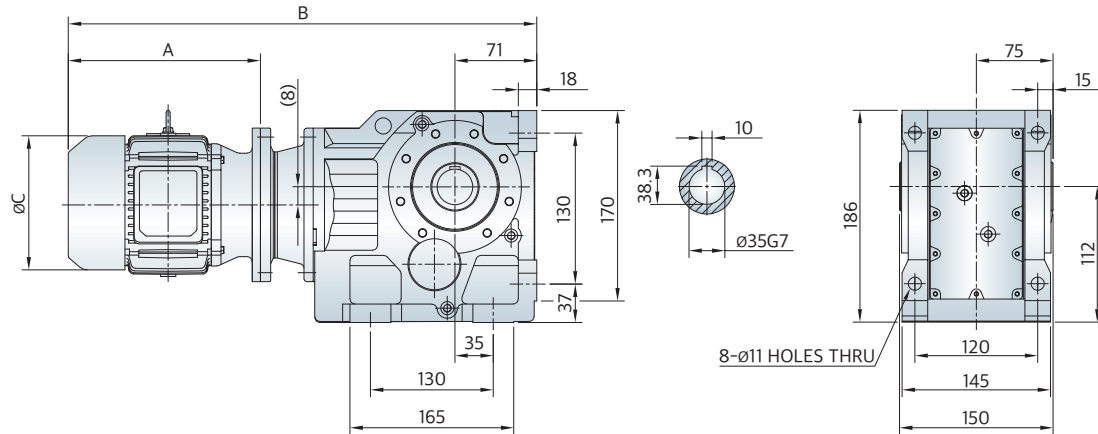


Fr.	Power (kW)	Ratio (i)	Service Factor	A	B	C	Weight (kg)	
							KFHM	KFM
03	0.2	6.37 ~ 106.38	17.10 ~ 1.42	232	505	160	31	32
	0.4	5.36 ~ 97.81	11.10 ~ 0.91	232	505	160	31	32
	0.75	5.36 ~ 44.46	5.70 ~ 0.96	259	532	200	55	56
	1.5	5.36 ~ 23.36	2.96 ~ 0.91	315	588	200	57	58
	2.2	5.36 ~ 13.08	1.99 ~ 0.96	346	625	250	74	75

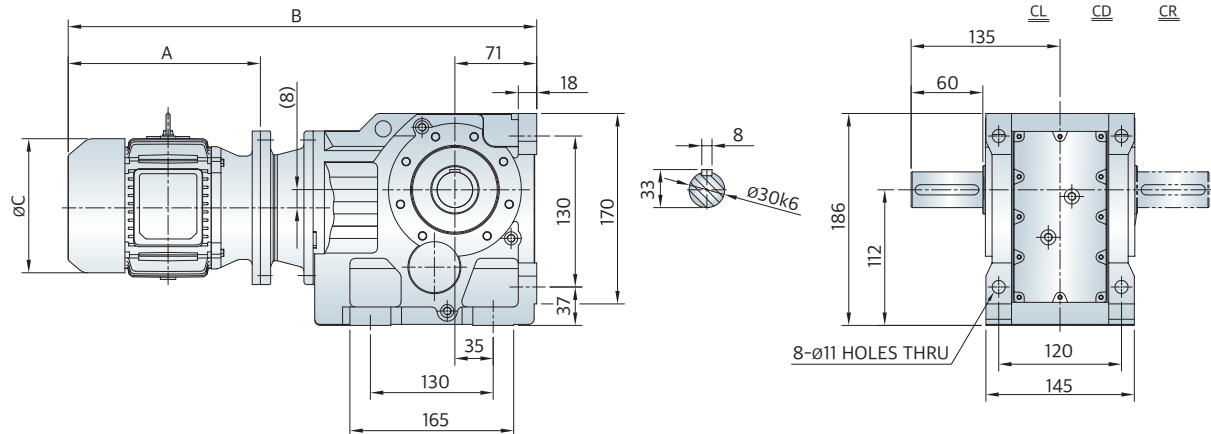
# 외형도 및 외형치수

## KHHM04 & KHM04

### KHHM04



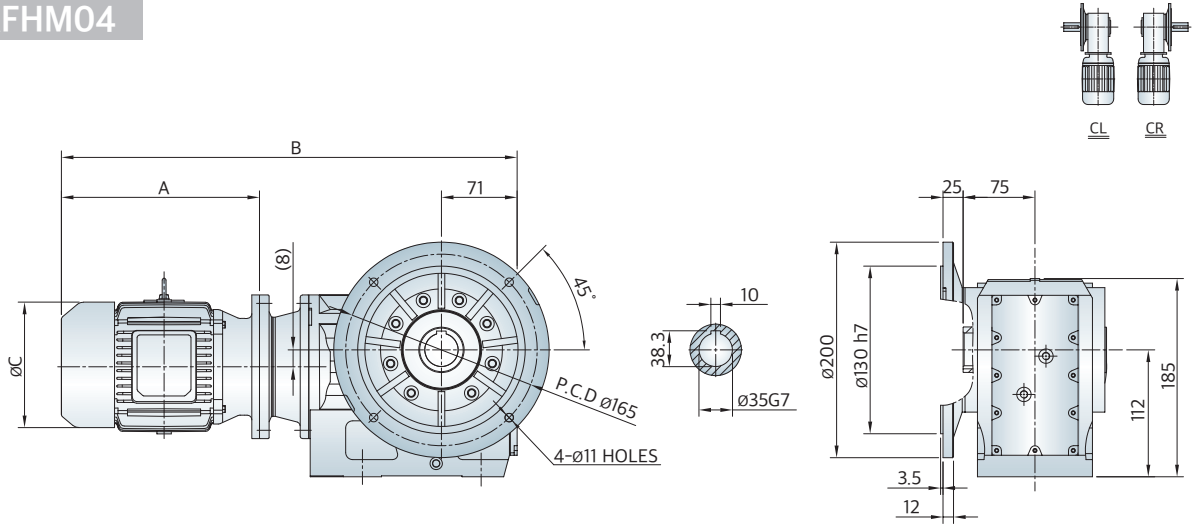
### KHM04



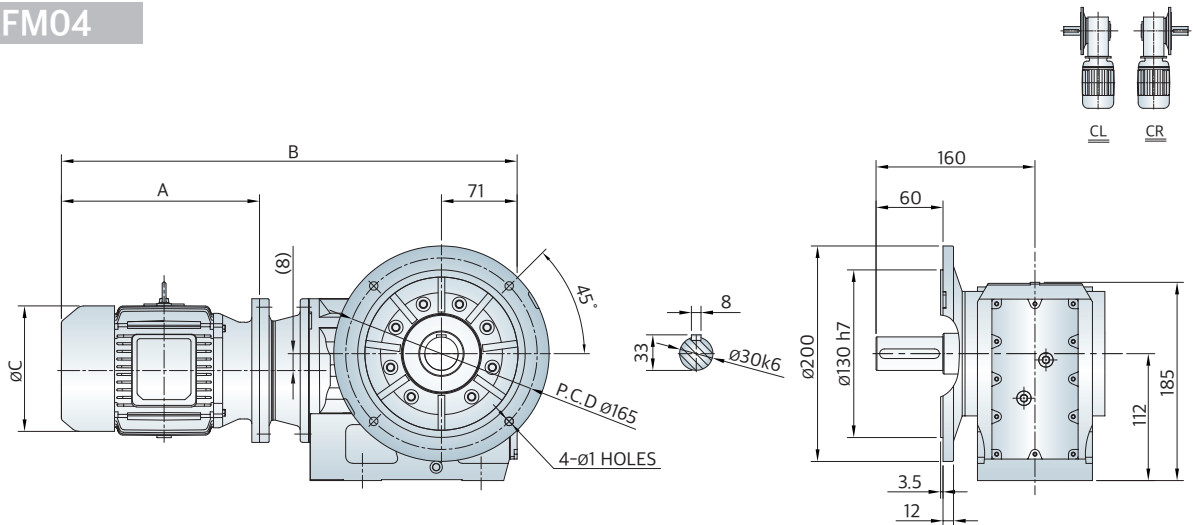
Fr.	Power (kW)	Ratio (i)	Service Factor	A	B	C	Weight (kg)	
							KHHM	KHM
04	0.2	85.12 ~ 131.87	3.70 ~ 2.35	232	546	160	38	39
	0.4	63.3 ~ 131.87	2.85 ~ 1.36	232	546	160	38	39
	0.75	31.3 ~ 75.2	2.85 ~ 1.14	259	573	200	62	63
	1.5	11.77 ~ 39.61	2.62 ~ 1.14	315	629	200	64	65
	2.2	9.1 ~ 25.91	2.39 ~ 1.19	346	663	250	81	82

## KFHM04 &amp; KFM04

KFHM04



KFM04

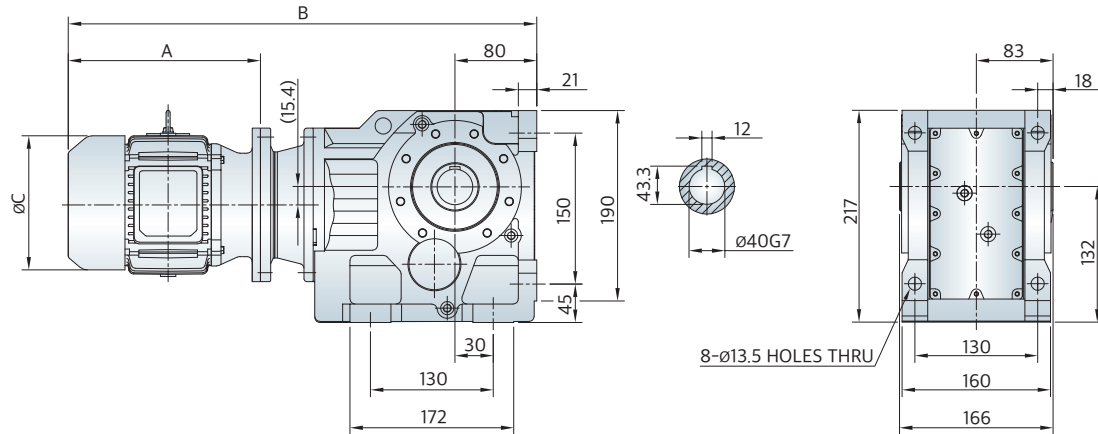


Fr.	Power (kW)	Ratio (i)	Service Factor	A	B	C	Weight (kg)	
							KFHM	KFM
04	0.2	85.12 ~ 131.87	3.70 ~ 2.35	232	546	160	41	42
	0.4	63.3 ~ 131.87	2.85 ~ 1.36	232	546	160	41	42
	0.75	31.3 ~ 75.2	2.85 ~ 1.14	259	573	200	65	66
	1.5	11.77 ~ 39.61	2.62 ~ 1.14	315	629	200	67	68
	2.2	9.1 ~ 25.91	2.39 ~ 1.19	346	663	250	84	85

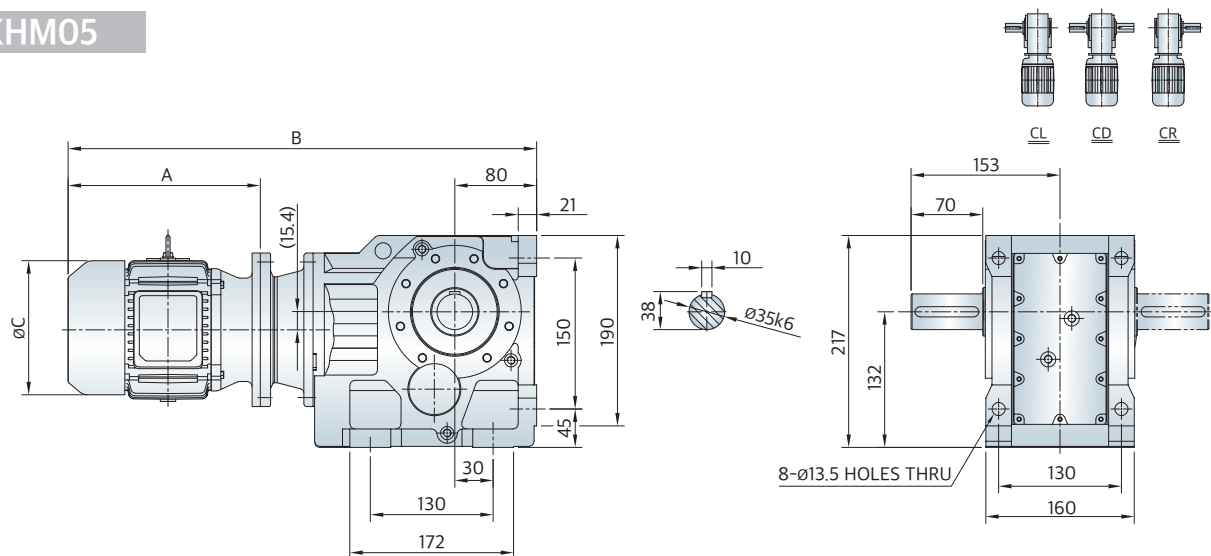
# 외형도 및 외형치수

## KHHM05 & KHM05

### KHHM05



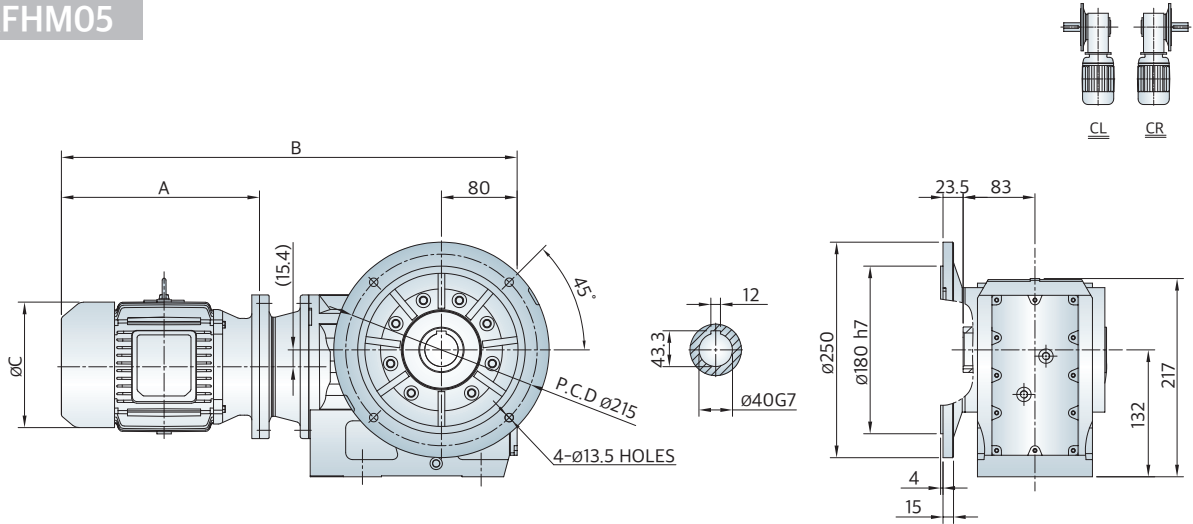
### KHM05



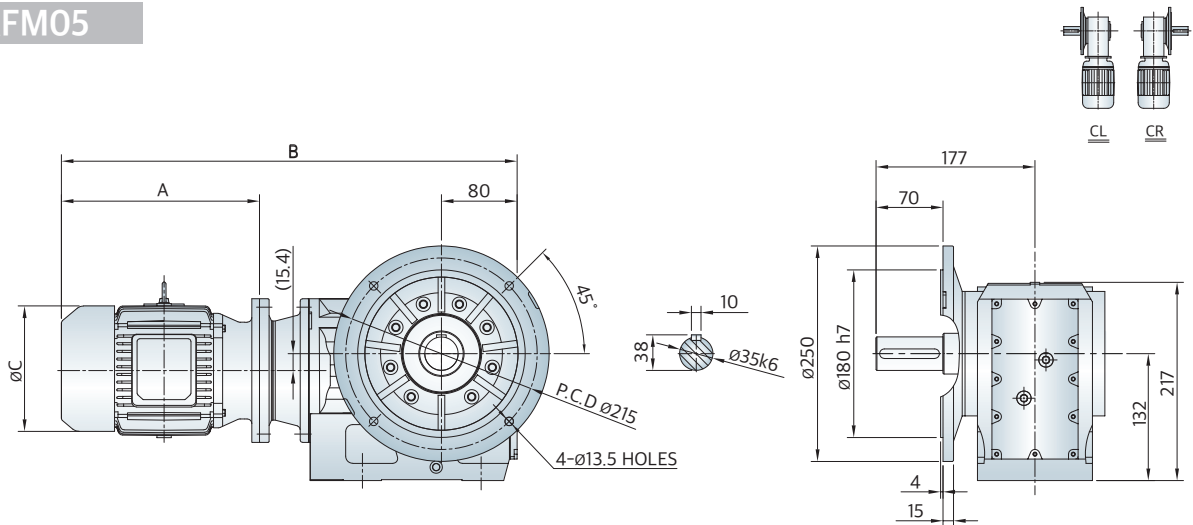
Fr.	Power (kW)	Ratio (i)	Service Factor	A	B	C	Weight (kg)	
							KHHM	KHM
05	0.2	76.56 ~ 145.14	6.12 ~ 3.13	232	564	160	39	42
	0.4	69.12 ~ 145.14	3.87 ~ 1.87	232	564	160	39	42
	0.75	44.43 ~ 123.85	2.96 ~ 1.08	259	591	200	63	66
	1.5	19.34 ~ 60.81	3.30 ~ 1.08	315	647	200	65	68
	2.2	11.26 ~ 44.43	2.85 ~ 1.02	346	681	250	82	85
	3.7	6.57 ~ 24.05	2.22 ~ 1.08	330	665	250	86	89
	5.5	6.57 ~ 17.57	1.65 ~ 0.96	379	729	300	117	120

## KFHM05 &amp; KFM05

## KFHM05



## KFM05

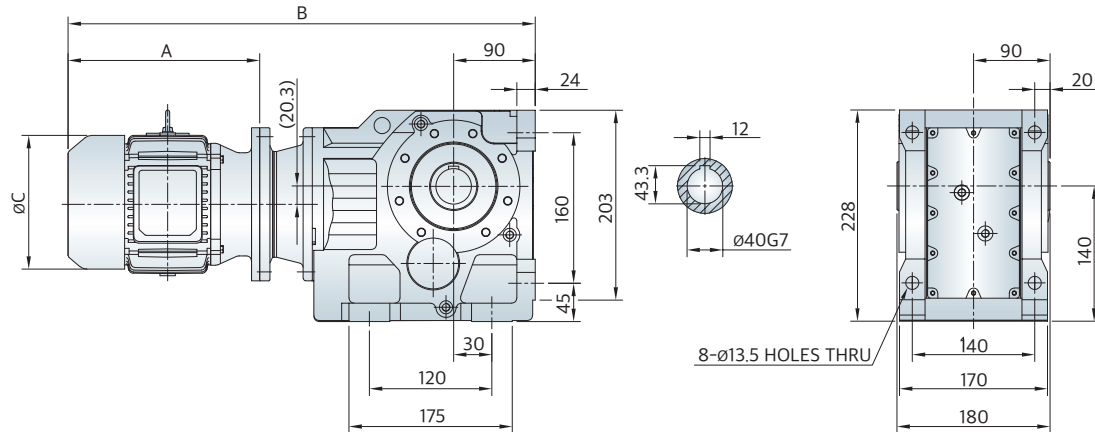


Fr.	Power (kW)	Ratio (i)	Service Factor	A	B	C	Weight (kg)	
							KFHM	KFM
05	0.2	76.56 ~ 145.14	6.12 ~ 3.13	232	564	160	46	46
	0.4	69.12 ~ 145.14	3.87 ~ 1.87	232	564	160	46	46
	0.75	44.43 ~ 123.85	2.96 ~ 1.08	259	591	200	70	70
	1.5	19.34 ~ 60.81	3.30 ~ 1.08	315	647	200	72	72
	2.2	11.26 ~ 44.43	2.85 ~ 1.02	346	681	250	89	89
	3.7	6.57 ~ 24.05	2.22 ~ 1.08	330	665	250	93	93
	5.5	6.57 ~ 17.57	1.65 ~ 0.96	379	729	300	124	124

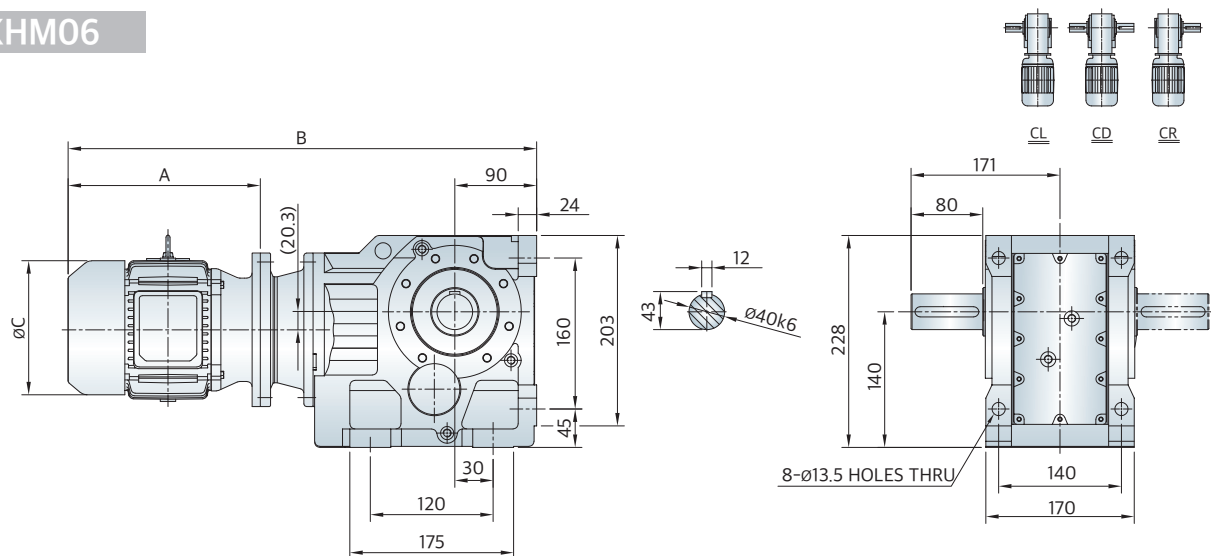
# 외형도 및 외형치수

## KHHM06 & KHM06

### KHHM06



### KHM06

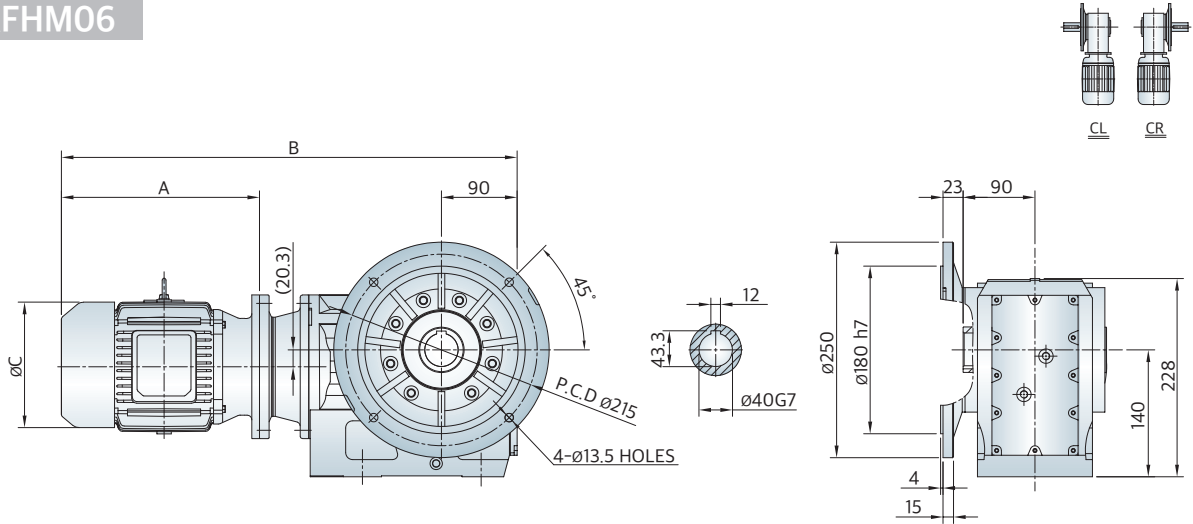


Fr.	Power (kW)	Ratio (i)	Service Factor	A	B	C	Weight (kg)	
							KHHM	KHM
06	0.2	102.62 ~ 144.79	6.12 ~ 4.41	232	578	160	45	47
	0.4	76.37 ~ 144.79	4.78 ~ 2.50	232	578	160	45	47
	0.75	57.28 ~ 123.54	3.19 ~ 1.48	259	605	200	69	71
	1.5	24 ~ 90.04	3.76 ~ 1.02	315	661	200	71	73
	2.2	7.28 ~ 60.66	4.44 ~ 1.02	346	695	250	88	90
	3.7	7.28 ~ 30.22	2.39 ~ 1.14	330	679	250	92	94
	5.5	7.28 ~ 24	1.76 ~ 1.02	379	743	300	123	125

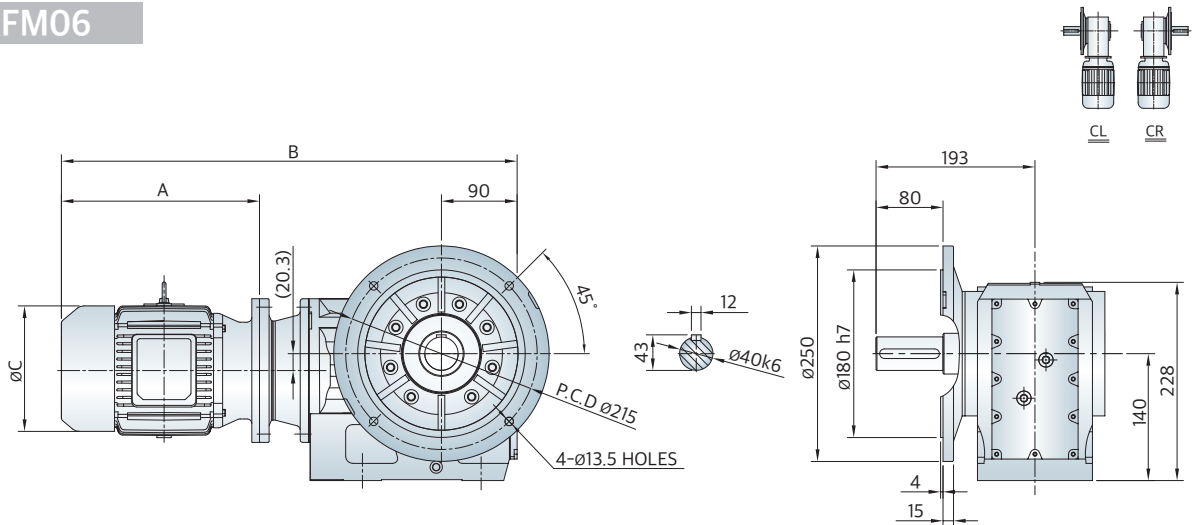


## KFHM06 &amp; KFM06

## KFHM06



## KFM06

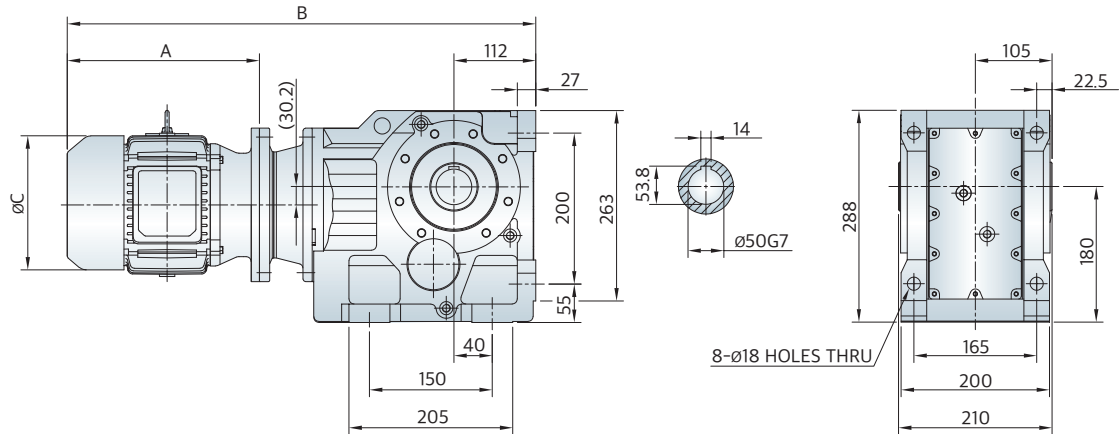


Fr.	Power (kW)	Ratio (i)	Service Factor	A	B	C	Weight (kg)	
							KFHM	KFM
06	0.2	102.62 ~ 144.79	6.12 ~ 4.41	232	578	160	50	53
	0.4	76.37 ~ 144.79	4.78 ~ 2.50	232	578	160	50	53
	0.75	57.28 ~ 123.54	3.19 ~ 1.48	259	605	200	74	77
	1.5	24 ~ 90.04	3.76 ~ 1.02	315	661	200	76	79
	2.2	7.28 ~ 60.66	4.44 ~ 1.02	346	695	250	93	96
	3.7	7.28 ~ 30.22	2.39 ~ 1.14	330	679	250	97	100
	5.5	7.28 ~ 24	1.76 ~ 1.02	379	743	300	128	131

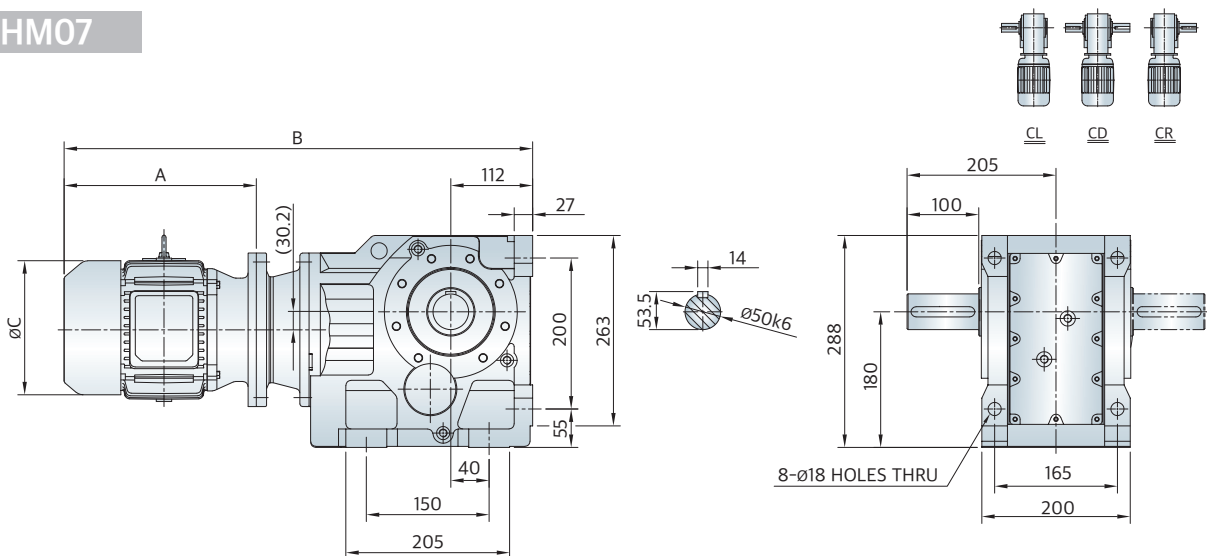
# 외형도 및 외형치수

## KHHM07 & KHM07

### KHHM07



### KHM07



Fr.	Power (kW)	Ratio (i)	Service Factor	A	B	C	Weight (kg)	
							KHHM	KHM
07	0.4	154.02 ~ 192.18	4.44 ~ 3.42	232	632	160	71	78
	0.75	97.05 ~ 154.07	3.53 ~ 2.22	259	659	200	95	102
	1.5	40.04 ~ 135.28	4.33 ~ 1.31	315	715	200	97	104
	2.2	25.62 ~ 113.56	4.67 ~ 1.02	346	746	250	114	121
	3.7	20.25 ~ 64.75	3.19 ~ 1.02	330	730	250	118	125
	5.5	10.84 ~ 45.16	2.85 ~ 1.08	379	783	300	148	155
	7.5	7.24 ~ 30.89	2.62 ~ 1.14	417	821	300	155	162
	11	7.24 ~ 23.08	1.76 ~ 1.02	474	910	350	214	221

Technical drawing of the KFM07 motor showing front, side, and detail views with dimensions.

**Front View Dimensions:**

- Overall width:  $B$
- Motor body width:  $A$
- Flange thickness:  $112$
- Flange outer diameter:  $\varnothing 265$  (P.C.D)
- Flange hole pattern:  $4-\varnothing 13.5$  HOLES
- Flange hole diameter:  $\varnothing 50k6$
- Flange hole depth:  $53.5$
- Flange hole diameter:  $\varnothing 50k6$
- Flange hole depth:  $14$
- Flange hole diameter:  $\varnothing 50k6$
- Flange hole depth:  $14$

**Side View Dimensions:**

- Overall height:  $242$
- Motor body height:  $100$
- Flange thickness:  $180$
- Flange outer diameter:  $\varnothing 300$
- Flange inner diameter:  $\varnothing 230$
- Flange hole pattern:  $4-\varnothing 13.5$  HOLES
- Flange hole diameter:  $\varnothing 50k6$
- Flange hole depth:  $53.5$
- Flange hole diameter:  $\varnothing 50k6$
- Flange hole depth:  $14$
- Flange hole diameter:  $\varnothing 50k6$
- Flange hole depth:  $14$

**Detail View Dimensions:**

- Flange hole diameter:  $\varnothing 50k6$
- Flange hole depth:  $53.5$
- Flange hole diameter:  $\varnothing 50k6$
- Flange hole depth:  $14$
- Flange hole diameter:  $\varnothing 50k6$
- Flange hole depth:  $14$

**Other Dimensions:**

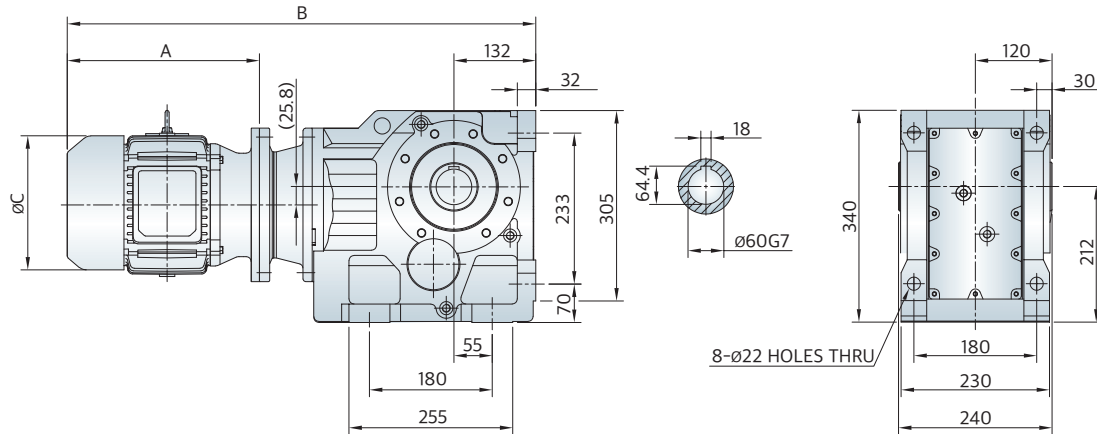
- Motor body height:  $180$
- Flange thickness:  $16$
- Flange outer diameter:  $\varnothing 300$
- Flange inner diameter:  $\varnothing 230$
- Flange hole pattern:  $4-\varnothing 13.5$  HOLES
- Flange hole diameter:  $\varnothing 50k6$
- Flange hole depth:  $53.5$
- Flange hole diameter:  $\varnothing 50k6$
- Flange hole depth:  $14$
- Flange hole diameter:  $\varnothing 50k6$
- Flange hole depth:  $14$

Fr.	Power (kW)	Ratio (i)	Service Factor	A	B	C	Weight (kg)	
							KFHM	KFM
07	0.4	154.02 ~ 192.18	4.44 ~ 3.42	232	632	160	78	86
	0.75	97.05 ~ 154.07	3.53 ~ 2.22	259	659	200	102	110
	1.5	40.04 ~ 135.28	4.33 ~ 1.31	315	715	200	104	112
	2.2	25.62 ~ 113.56	4.67 ~ 1.02	346	746	250	121	129
	3.7	20.25 ~ 64.75	3.19 ~ 1.02	330	730	250	125	133
	5.5	10.84 ~ 45.16	2.85 ~ 1.08	379	783	300	155	163
	7.5	7.24 ~ 30.89	2.62 ~ 1.14	417	821	300	162	170
	11	7.24 ~ 23.08	1.76 ~ 1.02	474	910	350	221	229

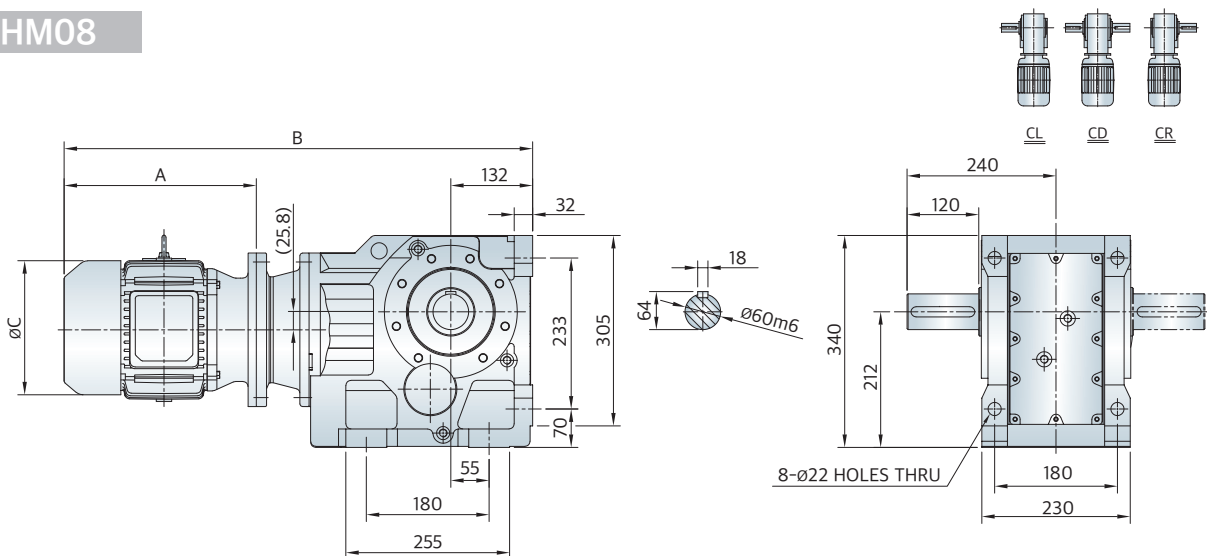
# 외형도 및 외형치수

## KHHM08 & KHM08

### KHHM08



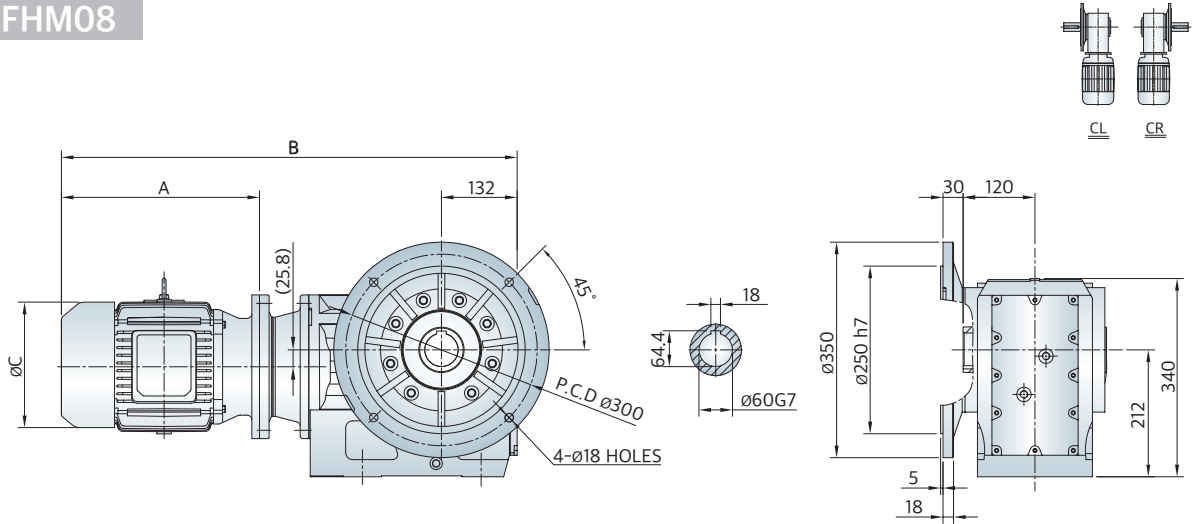
### KHM08



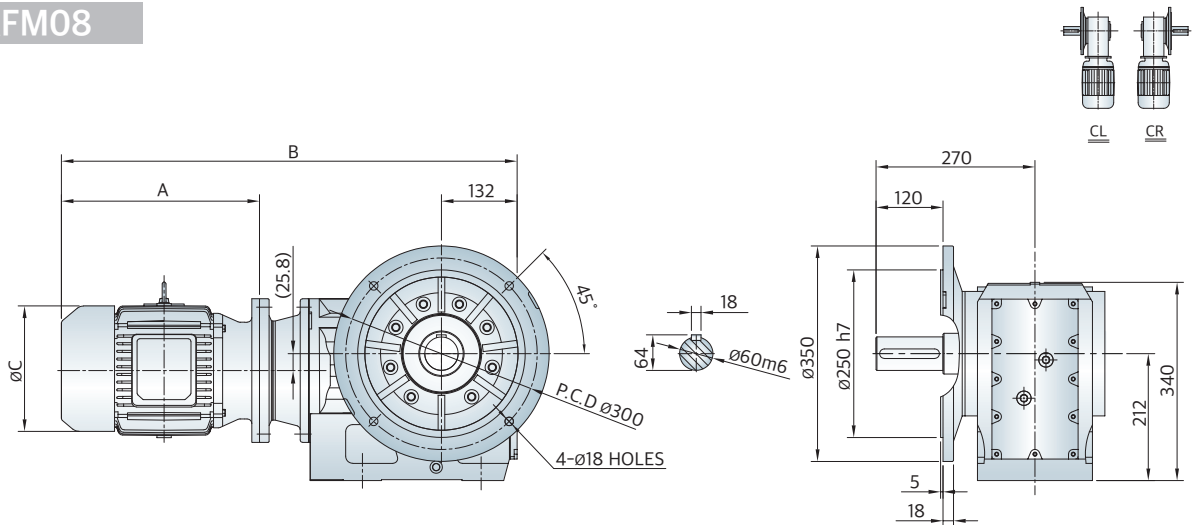
Fr.	Power (kW)	Ratio (i)	Service Factor	A	B	C	Weight (kg)	
							KHHM	KHM
08	0.75	147.33 ~ 197.37	3.99 ~ 2.96	259	734	200	133	145
	1.5	86.34 ~ 174.19	3.53 ~ 1.76	315	790	200	135	147
	2.2	63 ~ 147.32	3.30 ~ 1.42	346	821	250	152	164
	3.7	36.52 ~ 115.82	2.85 ~ 0.96	330	805	250	156	168
	5.5	27.88 ~ 86.34	2.85 ~ 0.96	379	858	300	186	198
	7.5	14.45 ~ 63	3.30 ~ 0.96	417	896	300	193	205
	11	7.21 ~ 44.02	2.85 ~ 0.91	474	985	350	251	263
	15	7.21 ~ 31.39	2.10 ~ 1.02	518	1,029	350	259	271
	18.5	7.21 ~ 24.92	1.71 ~ 0.96	537	1,051	400	277	289
	22	7.21 ~ 19.45	1.71 ~ 0.96	537	1,051	400	277	289

## KFHM08 &amp; KFM08

## KFHM08



## KFM08

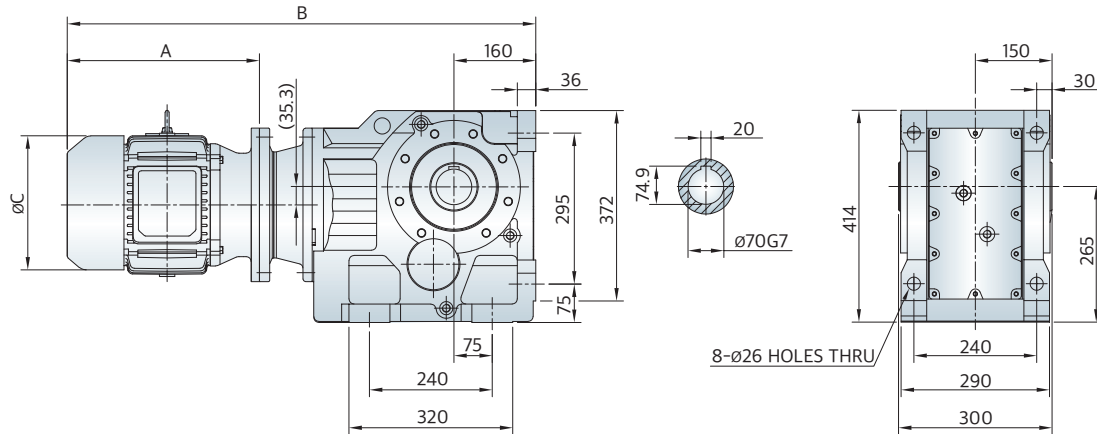


Fr.	Power (kW)	Ratio (i)	Service Factor	A	B	C	Weight (kg)	
							KFHM	KFM
08	0.75	147.33 ~ 197.37	3.99 ~ 2.96	259	734	200	146	155
	1.5	86.34 ~ 174.19	3.53 ~ 1.76	315	790	200	148	157
	2.2	63 ~ 147.32	3.30 ~ 1.42	346	821	250	165	174
	3.7	36.52 ~ 115.82	2.85 ~ 0.96	330	805	250	169	178
	5.5	27.88 ~ 86.34	2.85 ~ 0.96	379	858	300	199	208
	7.5	14.45 ~ 63	3.30 ~ 0.96	417	896	300	206	215
	11	7.21 ~ 44.02	2.85 ~ 0.91	474	985	350	264	273
	15	7.21 ~ 31.39	2.10 ~ 1.02	518	1,029	350	272	281
	18.5	7.21 ~ 24.92	1.71 ~ 0.96	537	1,051	400	290	299
	22	7.21 ~ 19.45	1.71 ~ 0.96	537	1,051	400	290	299

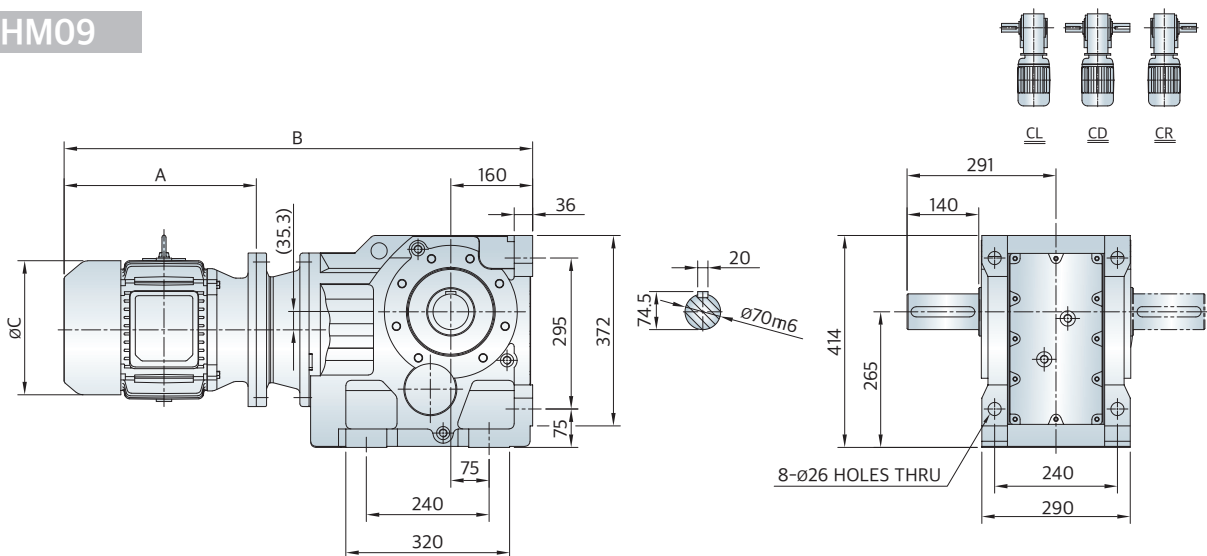
# 외형도 및 외형치수

## KHHM09 & KHM09

### KHHM09



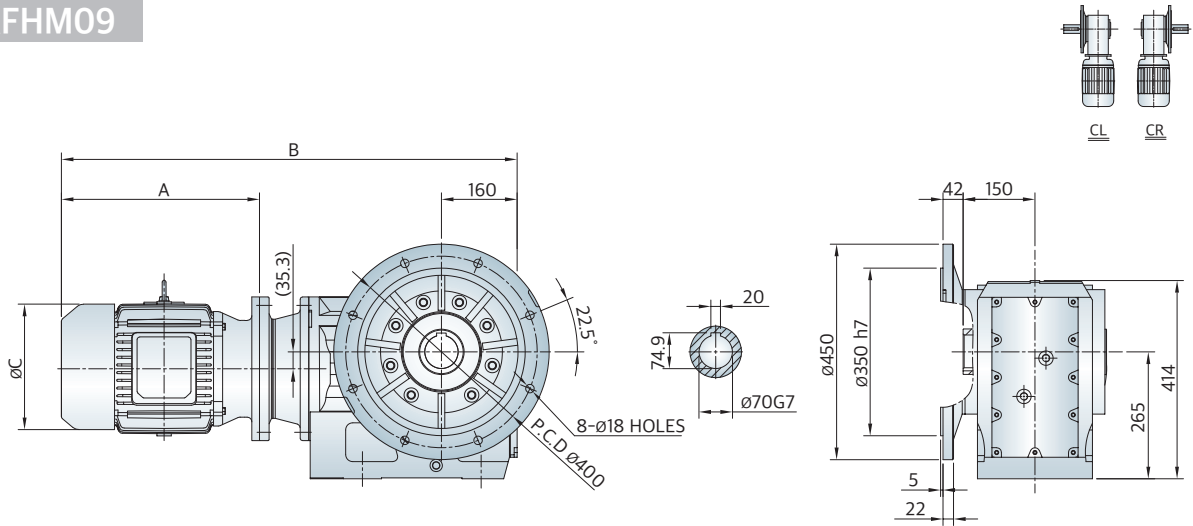
### KHM09



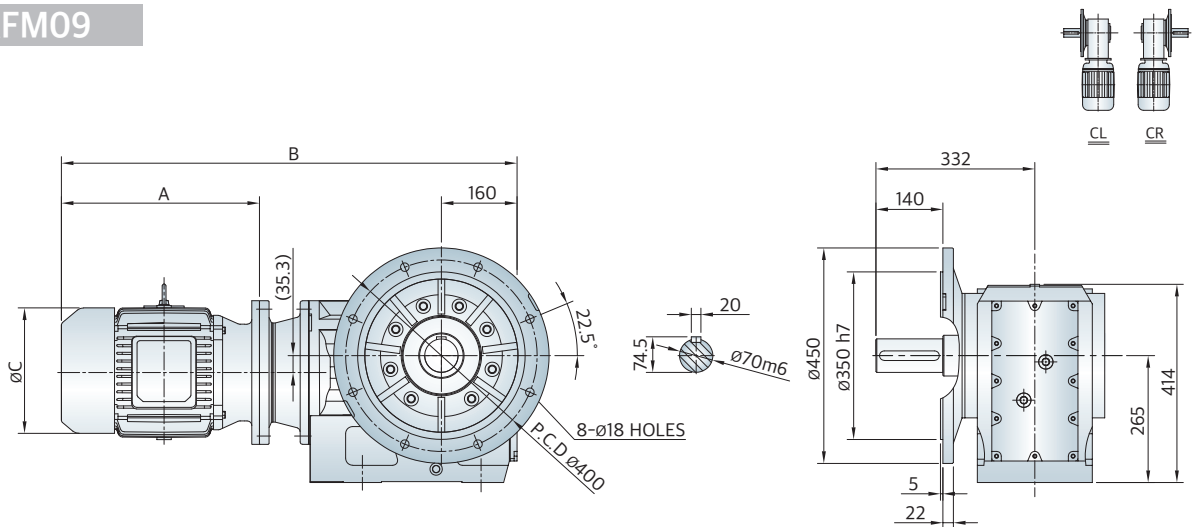
Fr.	Power (kW)	Ratio (i)	Service Factor	A	B	C	Weight (kg)	
							KHHM	KHM
09	1.5	123.93 ~ 176.05	3.87 ~ 2.73	315	855	200	202	221
	2.2	96.8 ~ 176.05	3.42 ~ 1.88	346	886	250	219	238
	3.7	70.54 ~ 153.21	2.62 ~ 1.19	330	870	250	223	242
	5.5	47.93 ~ 123.93	2.73 ~ 1.08	379	919	300	254	273
	7.5	34.23 ~ 96.8	2.85 ~ 1.02	417	957	300	261	280
	11	22.37 ~ 70.54	2.96 ~ 0.96	474	1,036	350	318	337
	15	16.56 ~ 47.93	3.07 ~ 1.02	518	1,080	350	326	345
	18.5	11.99 ~ 41.87	3.07 ~ 0.96	537	1,099	400	344	363
	22	8.71 ~ 30.82	2.39 ~ 1.08	537	1,099	400	344	363
	30	8.71 ~ 24.75	1.76 ~ 1.02	596	1,158	400	376	395

## KFHM09 &amp; KFM09

## KFHM09



## KFM09

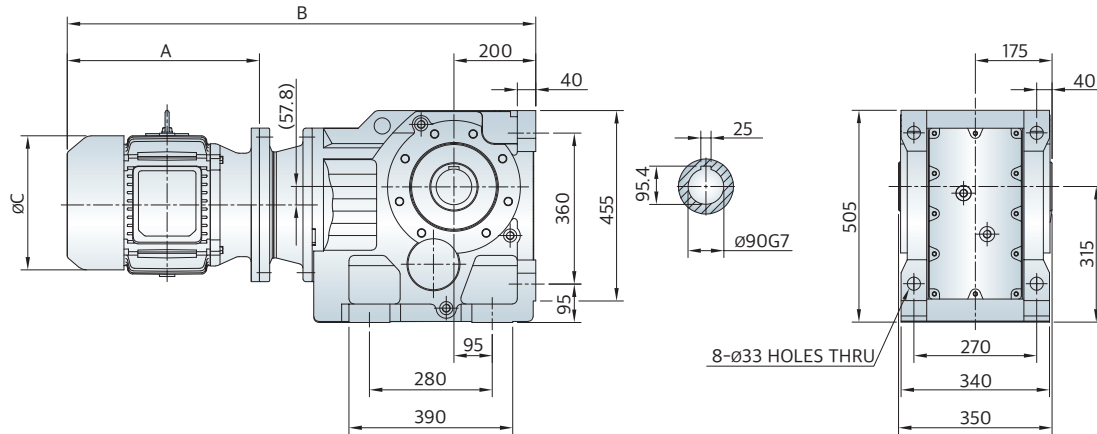


Fr.	Power (kW)	Ratio (i)	Service Factor	A	B	C	Weight (kg)	
							KFHM	KFM
09	1.5	123.93 ~ 176.05	3.87 ~ 2.73	315	855	200	226	241
	2.2	96.8 ~ 176.05	3.42 ~ 1.88	346	886	250	243	258
	3.7	70.54 ~ 153.21	2.62 ~ 1.19	330	870	250	247	262
	5.5	47.93 ~ 123.93	2.73 ~ 1.08	379	919	300	278	293
	7.5	34.23 ~ 96.8	2.85 ~ 1.02	417	957	300	285	300
	11	22.37 ~ 70.54	2.96 ~ 0.96	474	1,036	350	342	357
	15	16.56 ~ 47.93	3.07 ~ 1.02	518	1,080	350	350	365
	18.5	11.99 ~ 41.87	3.07 ~ 0.96	537	1,099	400	368	383
	22	8.71 ~ 30.82	2.39 ~ 1.08	537	1,099	400	368	383
	30	8.71 ~ 24.75	1.76 ~ 1.02	596	1,158	400	400	415

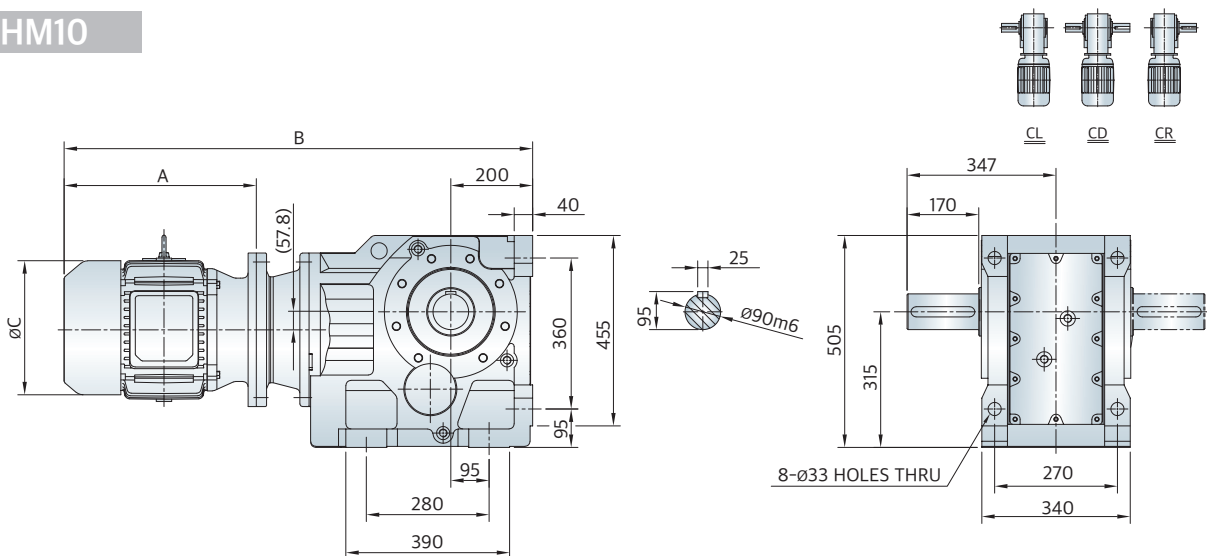
# 외형도 및 외형치수

## KHHM10 & KHM10

### KHHM10



### KHM10

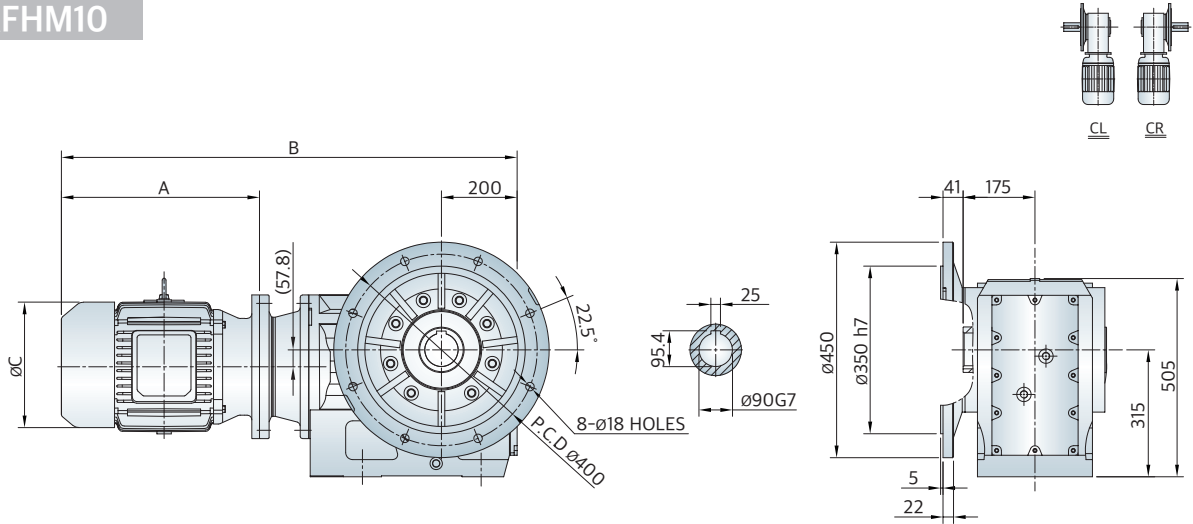


Fr.	Power (kW)	Ratio (i)	Service Factor	A	B	C	Weight (kg)	
							KHHM	KHM
10	3.7	73.3 ~ 143.47	4.67 ~ 2.39	330	987	250	322	350
	5.5	82.61 ~ 143.47	2.96 ~ 2.05	379	1,036	300	353	381
	7.5	37 ~ 143.47	4.44 ~ 1.25	417	1,074	300	360	388
	11	37 ~ 112.41	3.07 ~ 1.14	474	1,153	350	417	445
	15	29 ~ 90.96	2.85 ~ 1.02	518	1,197	350	425	453
	18.5	16.75 ~ 73.3	3.99 ~ 1.02	537	1,216	400	443	471
	22	9.94 ~ 57.17	3.30 ~ 1.14	537	1,216	400	443	471
	30	8.69 ~ 42.33	2.73 ~ 1.02	596	1,275	400	475	503
	37	8.69 ~ 37	2.22 ~ 0.91	670	1,374	450	606	634
	45	8.69 ~ 29	1.82 ~ 0.96	670	1,374	450	606	634

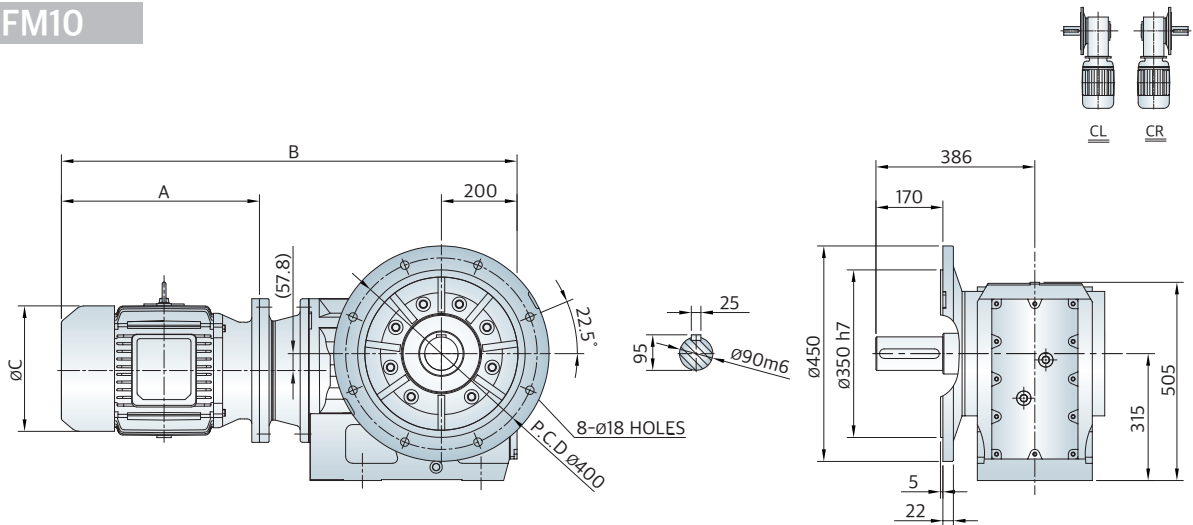


## KFHM10 &amp; KFM10

## KFHM10



## KFM10

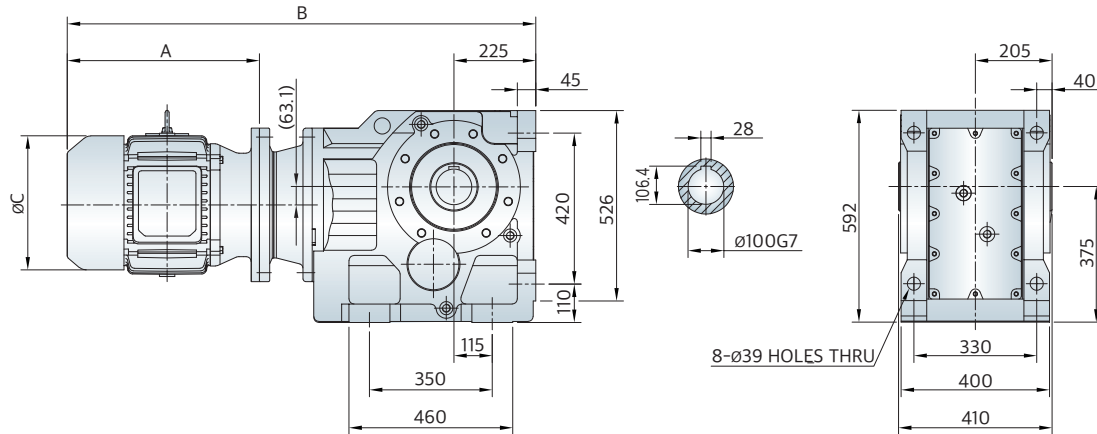


Fr.	Power (kW)	Ratio (i)	Service Factor	A	B	C	Weight (kg)	
							KFHM	KFM
10	3.7	73.3 ~ 143.47	4.67 ~ 2.39	330	987	250	345	361
	5.5	82.61 ~ 143.47	2.96 ~ 2.05	379	1,036	300	376	392
	7.5	37 ~ 143.47	4.44 ~ 1.25	417	1,074	300	383	399
	11	37 ~ 112.41	3.07 ~ 1.14	474	1,153	350	440	456
	15	29 ~ 90.96	2.85 ~ 1.02	518	1,197	350	448	464
	18.5	16.75 ~ 73.3	3.99 ~ 1.02	537	1,216	400	466	482
	22	9.94 ~ 57.17	3.30 ~ 1.14	537	1,216	400	466	482
	30	8.69 ~ 42.33	2.73 ~ 1.02	596	1,275	400	498	514
	37	8.69 ~ 37	2.22 ~ 0.91	670	1,374	450	629	645
	45	8.69 ~ 29	1.82 ~ 0.96	670	1,374	450	629	645

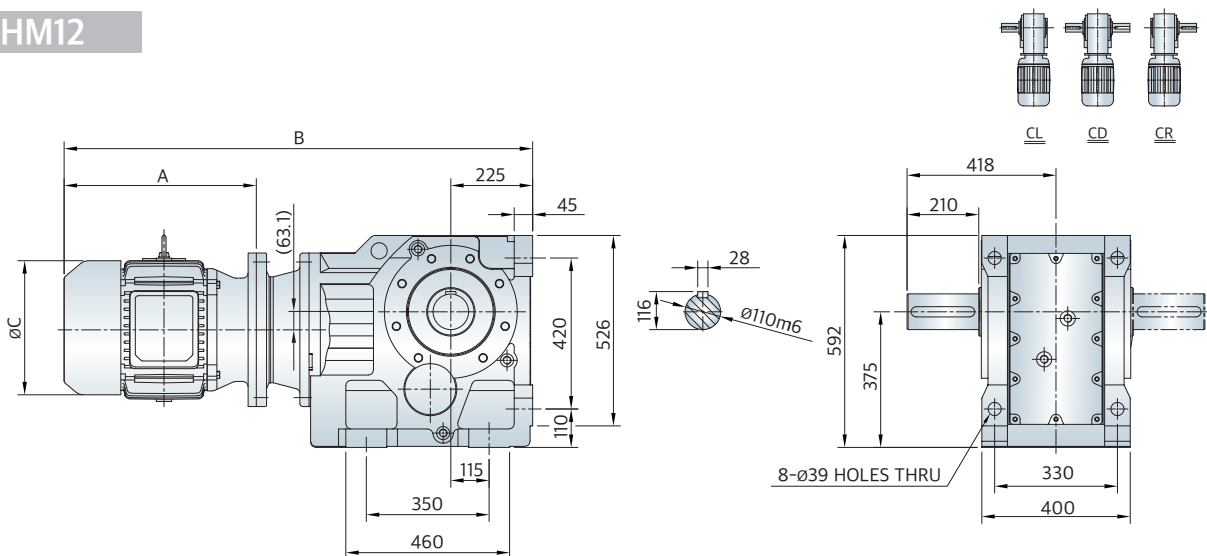
# 외형도 및 외형치수

## KHHM12 & KHM12

### KHHM12



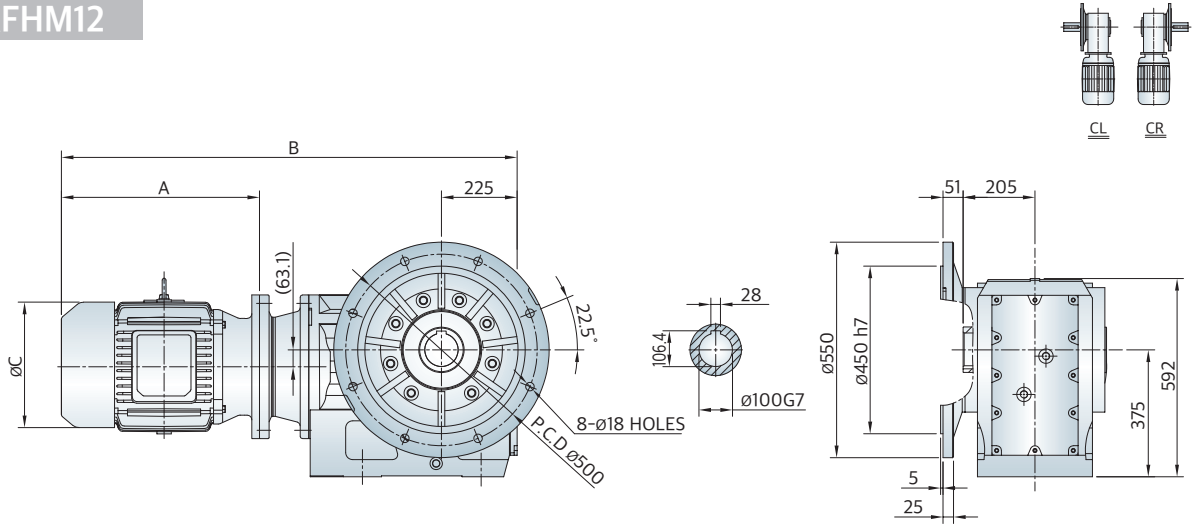
### KHM12



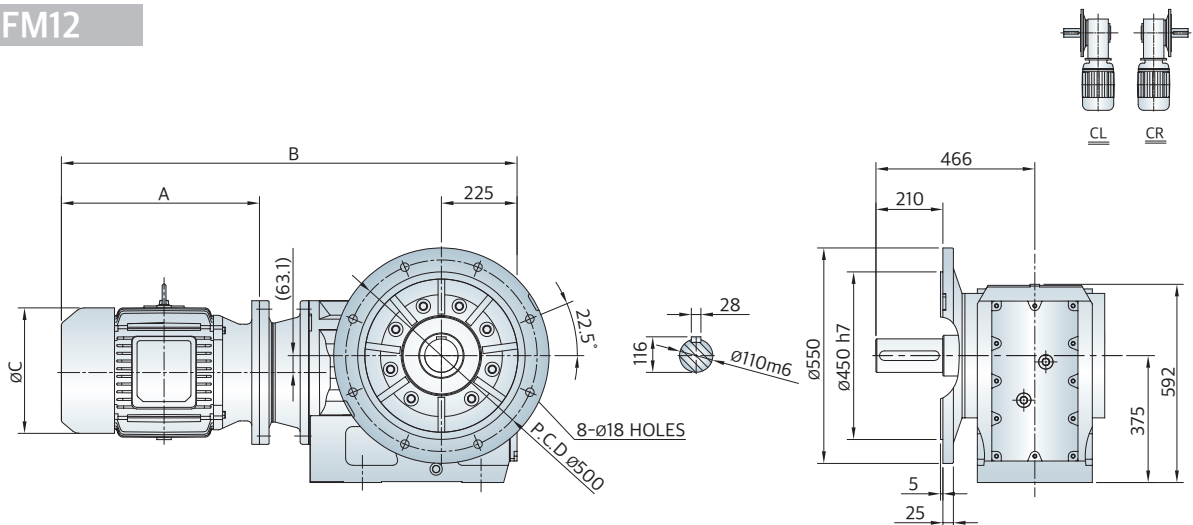
Fr.	Power (kW)	Ratio (i)	Service Factor	A	B	C	Weight (kg)	
							KHHM	KHM
12	7.5	70.95 ~ 146.07	4.21 ~ 2.05	417	1,152	300	542	570
	11	70.95 ~ 136.14	2.85 ~ 1.48	474	1,214	350	597	625
	15	47.82 ~ 136.14	3.19 ~ 1.08	518	1,258	350	605	633
	18.5	27.68 ~ 110.18	4.44 ~ 1.14	537	1,277	400	623	651
	22	21.15 ~ 89.89	4.90 ~ 1.14	537	1,277	400	623	651
	30	21.15 ~ 70.95	3.42 ~ 1.08	596	1,336	400	656	684
	37	8.68 ~ 62.6	3.99 ~ 0.96	670	1,435	450	787	815
	45	8.68 ~ 47.82	3.19 ~ 1.08	670	1,435	450	787	815
	55	8.68 ~ 40.19	2.62 ~ 1.02	685	1,452	550	856	884
	75	8.68 ~ 31.37	1.93 ~ 0.96	760	1,527	550	1,029	1,057
	90	8.68 ~ 23.91	1.65 ~ 1.08	800	1,567	550	1,069	1,097

## KFHM12 &amp; KFM12

## KFHM12



## KFM12

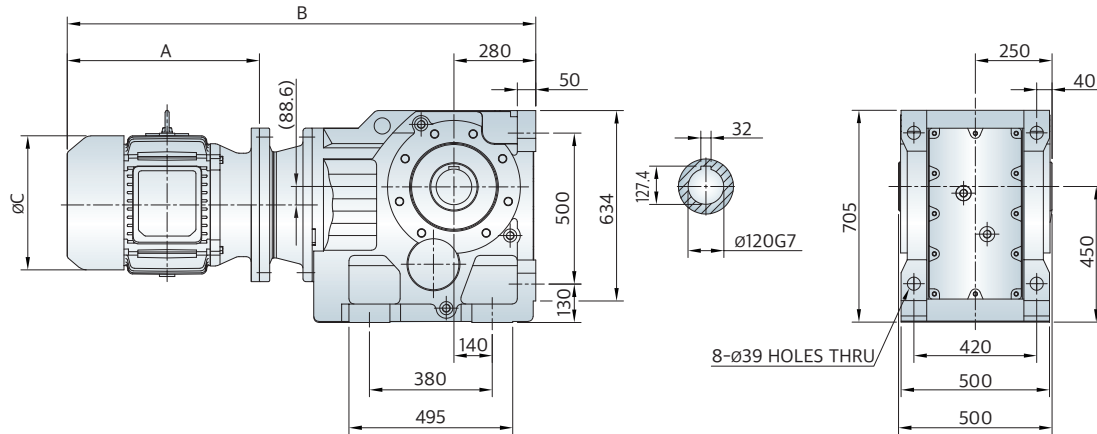


Fr.	Power (kW)	Ratio (i)	Service Factor	A	B	C	Weight (kg)	
							KFHM	KFM
12	7.5	70.95 ~ 146.07	4.21 ~ 2.05	417	1,152	300	578	611
	11	70.95 ~ 136.14	2.85 ~ 1.48	474	1,214	350	633	666
	15	47.82 ~ 136.14	3.19 ~ 1.08	518	1,258	350	641	674
	18.5	27.68 ~ 110.18	4.44 ~ 1.14	537	1,277	400	659	692
	22	21.15 ~ 89.89	4.90 ~ 1.14	537	1,277	400	659	692
	30	21.15 ~ 70.95	3.42 ~ 1.08	596	1,336	400	692	725
	37	8.68 ~ 62.6	3.99 ~ 0.96	670	1,435	450	823	856
	45	8.68 ~ 47.82	3.19 ~ 1.08	670	1,435	450	823	856
	55	8.68 ~ 40.19	2.62 ~ 1.02	685	1,452	550	892	925
	75	8.68 ~ 31.37	1.93 ~ 0.96	760	1,527	550	1,065	1,098
	90	8.68 ~ 23.91	1.65 ~ 1.08	800	1,567	550	1,105	1,138

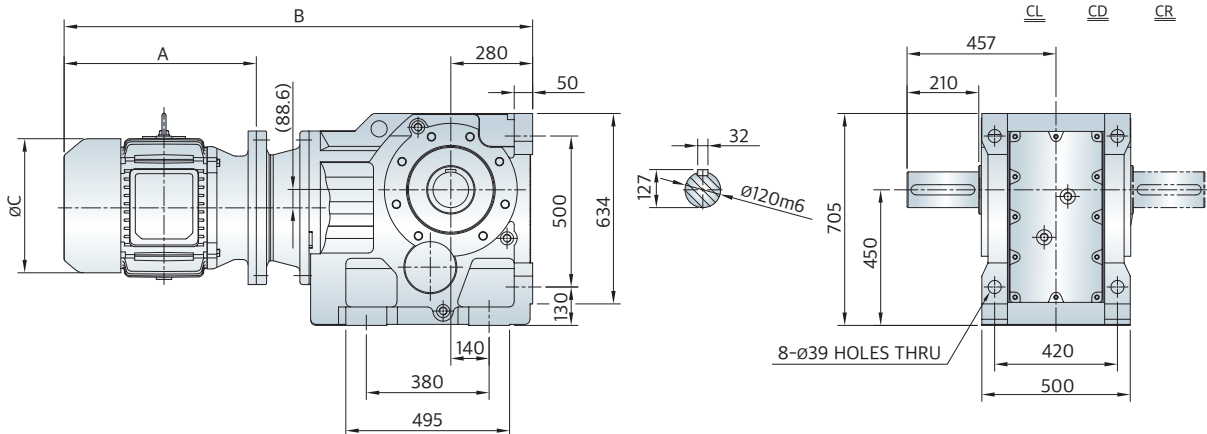
# 외형도 및 외형치수

## KHHM15 & KHM15

### KHHM15



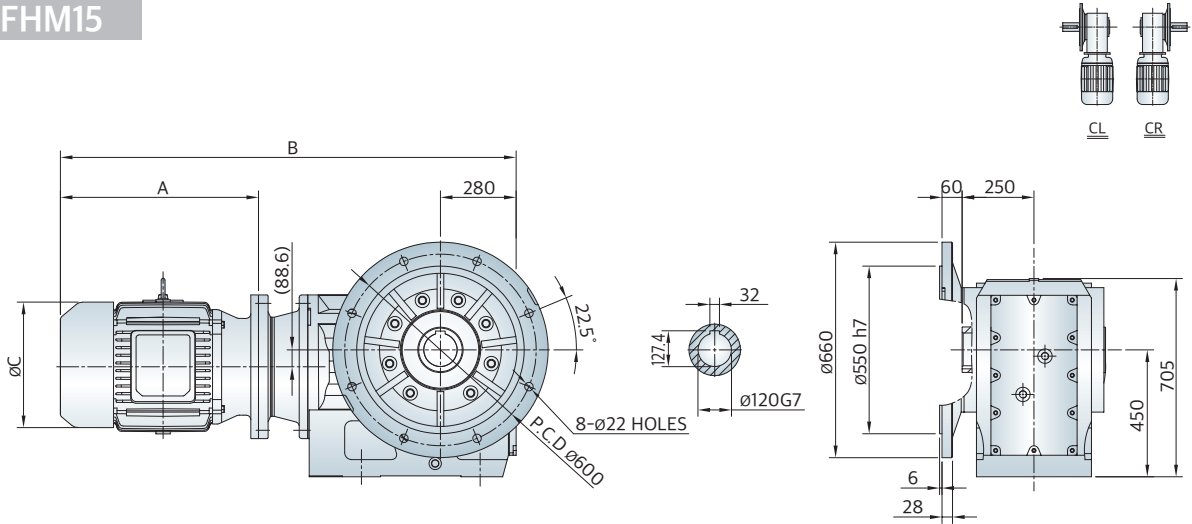
### KHM15



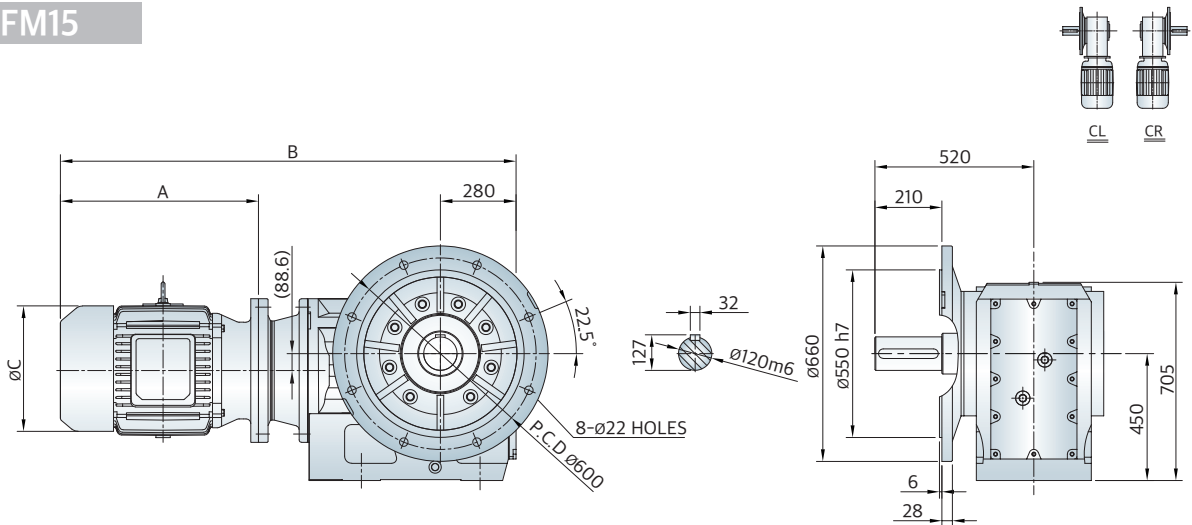
Fr.	Power (kW)	Ratio (i)	Service Factor	A	B	C	Weight (kg)	
							KHHM	KHM
15	11	91.65 ~ 150.41	3.07 ~ 1.88	474	1,305	350	850	882
	15	79.75 ~ 150.41	2.62 ~ 1.36	518	1,349	350	858	890
	18.5	38.02 ~ 122.39	4.44 ~ 1.36	537	1,368	400	876	908
	22	38.02 ~ 122.39	3.76 ~ 1.19	537	1,368	400	876	908
	30	31.3 ~ 100.22	3.42 ~ 1.02	596	1,427	400	909	941
	37	31.3 ~ 91.65	2.73 ~ 0.91	670	1,526	450	1,039	1,071
	45	18.37 ~ 70.38	3.76 ~ 0.96	670	1,526	450	1,039	1,071
	55	12.65 ~ 61.02	4.33 ~ 0.96	685	1,543	550	1,109	1,141
	75	12.65 ~ 38.02	3.19 ~ 1.14	760	1,618	550	1,282	1,314
	90	12.65 ~ 38.02	2.62 ~ 0.91	800	1,658	550	1,322	1,354

# KFHM15 & KFM15

## KFHM15



## KFM15

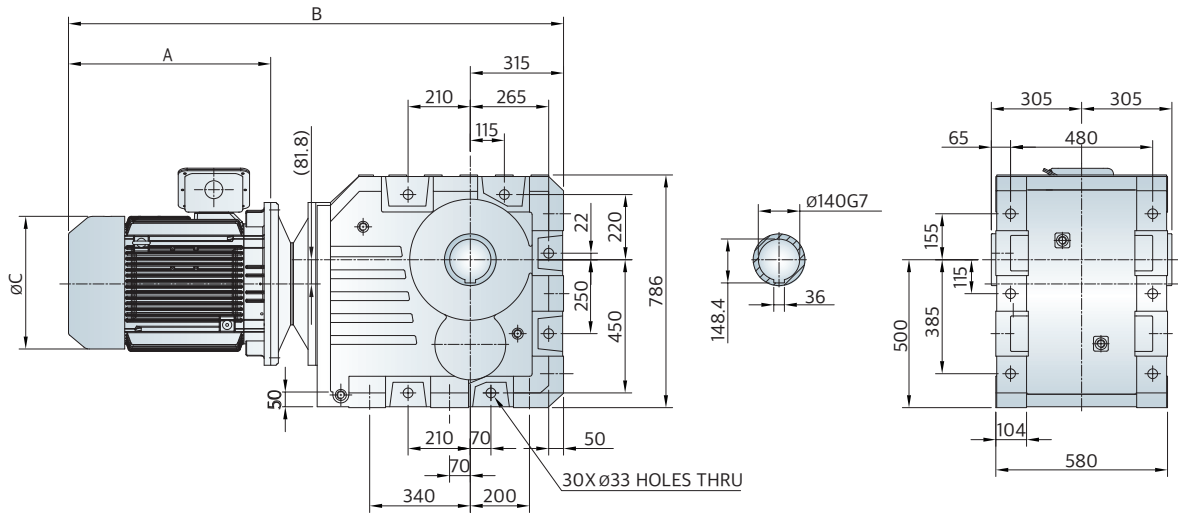


Fr.	Power (kW)	Ratio (i)	Service Factor	A	B	C	Weight (kg)	
							KFHM	KFM
15	11	91.65 ~ 150.41	3.07 ~ 1.88	474	1,305	350	906	960
	15	79.75 ~ 150.41	2.62 ~ 1.36	518	1,349	350	914	968
	18.5	38.02 ~ 122.39	4.44 ~ 1.36	537	1,368	400	932	986
	22	38.02 ~ 122.39	3.76 ~ 1.19	537	1,368	400	932	986
	30	31.3 ~ 100.22	3.42 ~ 1.02	596	1,427	400	965	1,019
	37	31.3 ~ 91.65	2.73 ~ 0.91	670	1,526	450	1,095	1,149
	45	18.37 ~ 70.38	3.76 ~ 0.96	670	1,526	450	1,095	1,149
	55	12.65 ~ 61.02	4.33 ~ 0.96	685	1,543	550	1,165	1,219
	75	12.65 ~ 38.02	3.19 ~ 1.14	760	1,618	550	1,338	1,392
	90	12.65 ~ 38.02	2.62 ~ 0.91	800	1,658	550	1,378	1,432

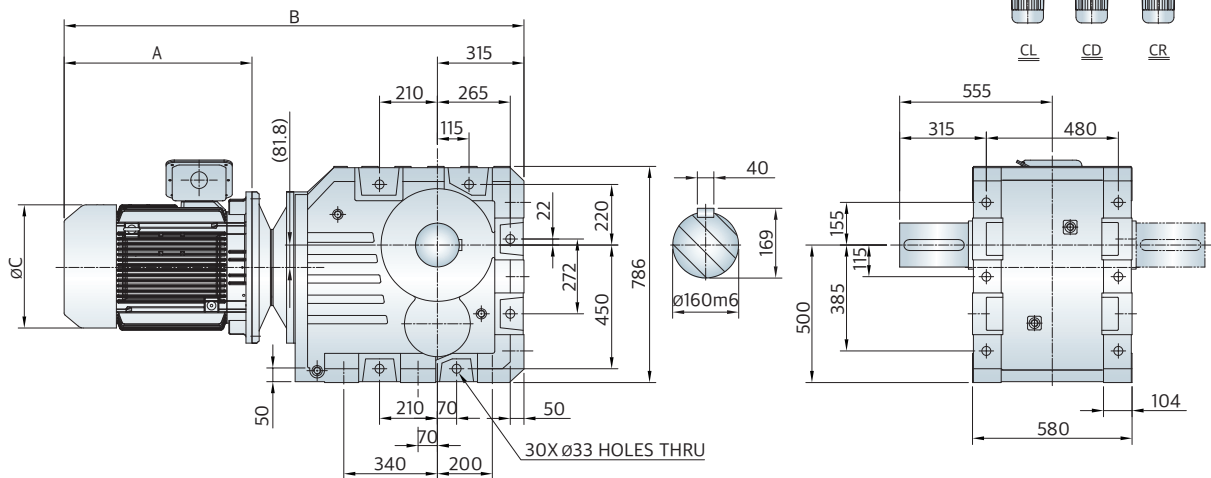
# 외형도 및 외형치수

## KHHM16 & KHM16

### KHHM16



### KHM16

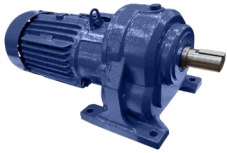


Fr.	Power (kW)	Ratio (i)	Service Factor	A	B	C	Weight (kg)	
							KHHM	KHM
16	11	134.99 ~ 164.5	3.76 ~ 3.07	474	1,436	350	1,274	1,313
	15	134.99 ~ 164.5	2.73 ~ 2.28	518	1,480	350	1,282	1,321
	18.5	87.86 ~ 134.99	3.42 ~ 2.22	537	1,499	400	1,300	1,339
	22	78.14 ~ 134.99	3.30 ~ 1.88	537	1,499	400	1,300	1,339
	30	60.74 ~ 109.83	3.07 ~ 1.71	596	1,558	400	1,333	1,372
	37	51.77 ~ 109.83	2.96 ~ 1.36	670	1,657	450	1,463	1,502
	45	42.89 ~ 109.83	2.96 ~ 1.14	670	1,657	450	1,463	1,502
	55	36.61 ~ 87.86	2.85 ~ 1.14	685	1,674	550	1,533	1,572
	75	24.52 ~ 78.14	3.07 ~ 0.96	760	1,749	550	1,706	1,745
	90	17.34 ~ 68.07	3.64 ~ 0.91	800	1,789	550	1,746	1,785

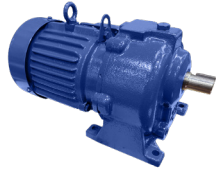
# Product Line-up

## Geared Motors

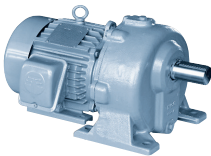
### Helical Geared Motor



F1 Series



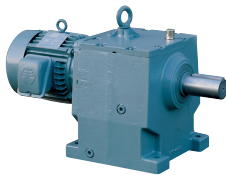
RP Series



FN Series

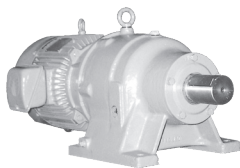


F Series



H Series

### Planetary Geared Motor



P Series

### Right Angle Geared Motor



K Series

### Gear Box



Parallel Shaft



Right Angle

## Motors



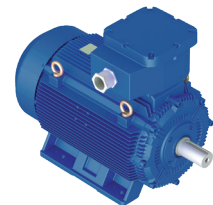
전폐형 전동기



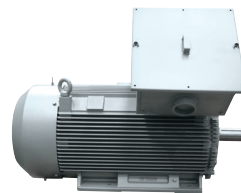
전폐플랜지형 전동기



안전증 방폭형 전동기



내압 방폭형 전동기



저압 고출력 전동기



인버터 전동기



극수 변환 전동기



권선전폐형 전동기



보호형 전동기



쿨링타워 전동기



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