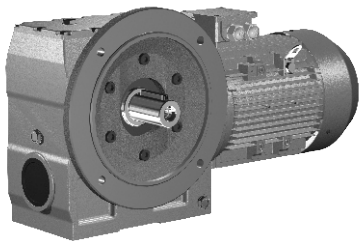
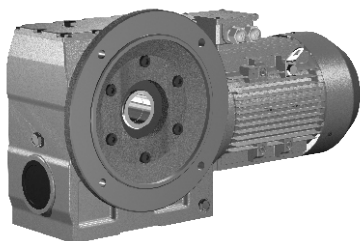


WS系列斜齿-蜗轮减速器

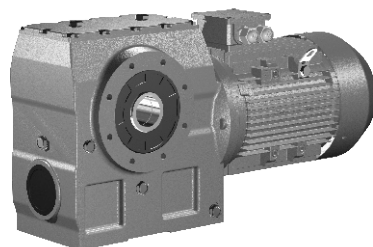
WS SERIES HELICAL -WORMGEARMOTOR



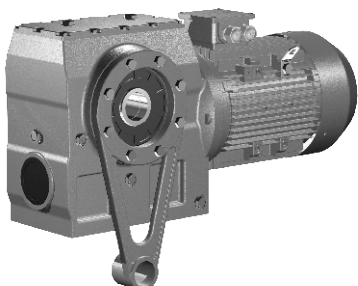
WSF 型 Model WSF
B5法兰安装圆柱蜗杆减速机
B5 flange-mounted helical-worm gear reductor



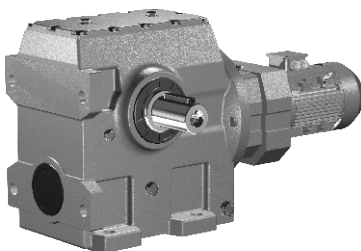
WSAF 型 Model WSAF
B5法兰空心轴安装圆柱蜗杆减速机
B5 flange-mounted helical-worm gear reductor with hollow shaft



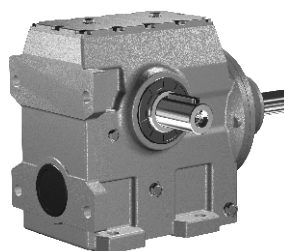
WSA 型 Model WSA
空心轴安装圆柱蜗杆减速机
Helical-worm gear reductor with hollow shaft



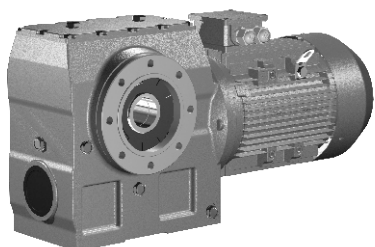
WSAT 型 Model WSAT
空心轴安装防转臂固定圆柱蜗杆减速机
Helical-worm gear reductor in torque-arm version with hollow shaft



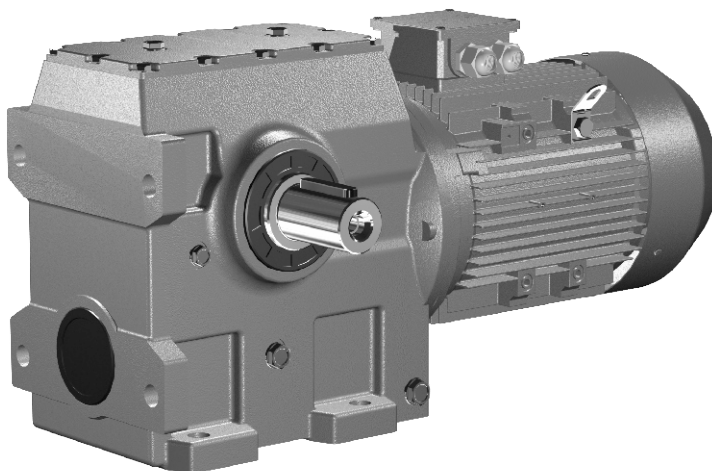
WS..WR 型 Model WS..WR
WS系列与WR.7系列组合减速机
Combination of WS model and WR..7 model



WS..S 型 Model WS..S
输入轴型，即配输入轴不配电动机的圆柱蜗杆减速机
Input-shaft style in another word helical-worm gear reductor equipped with input shaft but without the motor



WSAZ 型 Model WSAZ
小法兰空心轴安装圆柱蜗杆减速机
Short-flange mounted helical-worm gear units with hollow shaft



WS 型 Model WS
底脚安装圆柱蜗杆减速机
Foot-mounted helical-worm gear reductor

一、性能特点 Characteristics:

1. 午马 减速机是在模块组合体系的基础上设计的，可以方便地配用各种型式的电动机或采用其它动力输入。同种机型可配用多种功率的电动机。容易实现各种机型之间的组合联接。
2. 传动效率高，单机型减速机效率高达96%。
3. 传动比划分细，范围广。组合机型可以形成较大的传动比，输出转速低。
4. 安装形式多样：可任意底脚、B5法兰或B14 法兰安装，底脚安装减速机有两个机加工的底脚安装平面。
1. WUMA reducers are based on the building block design, so it's convenient for them to fit all types of motors or to connect with other power input. The same type of reducers can fit motors with different power, so that it's possible for different types of machines to combine or connect.
2. High transmission efficiency. A single machine can reach a transmission efficiency as much as 96%.
3. Precise division of transmission ratio with a wide range. The combination of machines can produce a larger transmission ratio at a low output rotational speed.
4. Various ways of installation. Horizontal installation at any position or flanged installation, The bottom feet installs the machine that deceleration machine have two bottom feet processes to install the flat surface.

二、场所条件 Working Environment:

1. 环境温度-40℃~50℃。(0℃以下启动时润滑油要加热到0℃以上。)
2. 海拔不超过1000米。
3. 输入转速不大于1800rpm，齿轮最高圆周速度不超过22m/s。
4. 可用于正反运转。
5. 无行业限制。
6. 其他条件下使用请与我公司技术部联系。
1. Working temperature: -40℃~50℃ (The lubrication should be heated until above 0℃ if the machine works Below 0℃.)
2. The working place should be lower than 1,000 meters above sea level.
3. The input rotational speed should not exceed 1,800r/m. The circumferential speed of the gear should not exceed 20m/s.
4. Suitable for normal-reverse rotation.
5. Without industry limitation.
6. Please consult our technical supporting department for other circumstances.

三、选型指南 Instructions for Selection:

在确定使用系数之前必须先确定一天的运行小时数，每小时的起停次数和负载类型。其中负载类型按下列公式计算：

The daily operating time, the starting frequency and the load classifications be determined before deciding the service factor. The load classifications is calculated with the following formula:

负载类型 Load classification

- I 均匀负载，惯性加速系数 ≤ 0.2
- II 中等冲击负载，惯性加速系数 ≤ 3
- III 强烈冲击负载，惯性加速系数 ≤ 10
- Uniform load, mass acceleration factor ≤ 0.2
- Medium Impact Load, mass acceleration factor ≤ 3
- Heavy shock Load, mass acceleration factor ≤ 10

如果惯性加速系数 > 10 ，请与我公司技术部联系。

$$\text{惯性加速系数} = \frac{\text{所有外部转动惯量}}{\text{驱动电机的转动惯量}}$$

实际的工况系数 f_A 必须满足下式：使用系数 $f_B \geq$ 工况系数 f_A

使用系数 f_B 已在后面的选型参数表中列出。

允许的轴伸径向载荷及轴向载荷

输出轴端允许的径向载荷及轴向载荷资料，请与我公司技术部联系。

减速机的使用与维护请参阅随机附带的《减·变速机使用说明书》。

Please contact our technical supporting department in case the mass acceleration factor > 10 .

$$\text{Mass acceleration factor} = \frac{\text{All external mass moments of Inertia}}{\text{Mass moment of inertia on the motor end}}$$

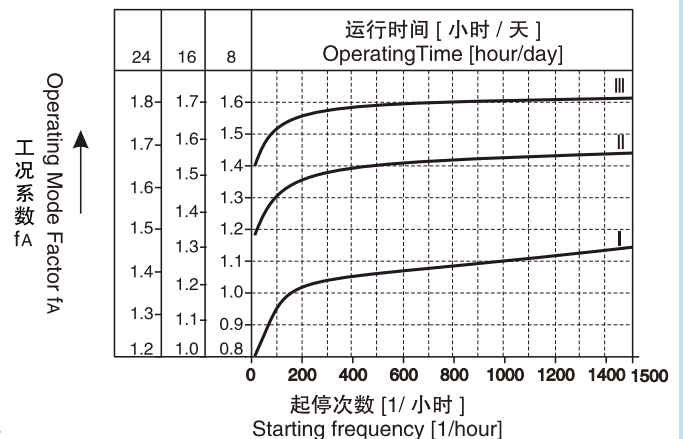
The actual operating mode factor (f_A) should meet the following formula: Service factor $f_B \geq$ operating mode factor f_A

The service factor f_B is listed in the parameter selection list.

The permitted overhung loads and the axial forces.

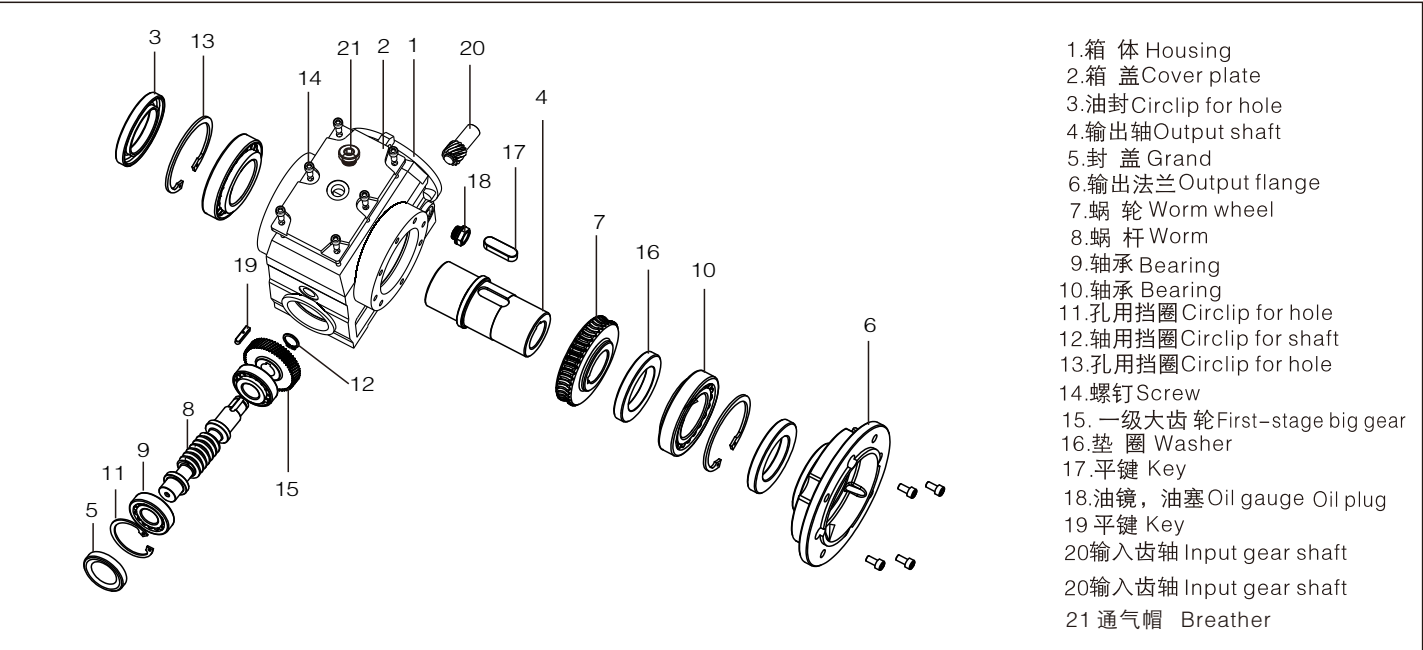
Please contact our technical supporting department for the information on the permitted overhung loads and the axial forces at the output end of the shaft.

Regarding the use and maintenance of the reducer, please refer to the attached Instruction Manual of the Reductor and the Variable Speed Motor.



四、结构形式 Mounting type:

WS系列结构图:/WS series structrue drawing:

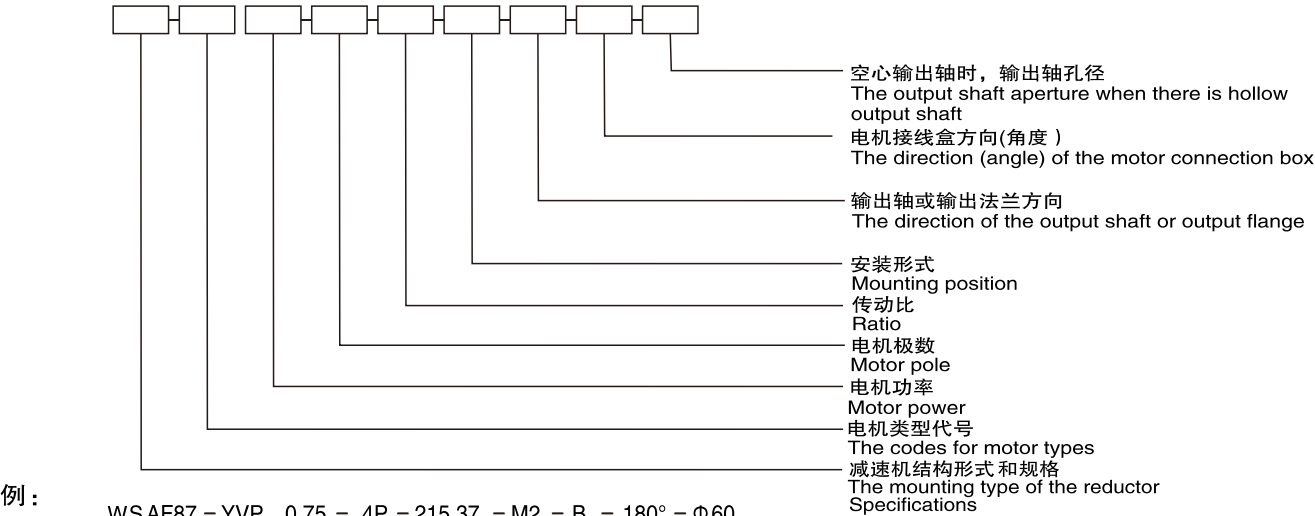


WS系列斜齿轮蜗轮减速机型号规格及机型表示方法:
本系列减速器的型号规格有:WS(37、47、57、67、77、87、97)
等7种, 减速比有 6.8~288 等多种速比, 可分别配
置0.18~37kW。

Type,specification and model notation for ws series helical
gear peed reducers.:

Types,specifications of this series speed reducer have 7 kinds including
WS37、47、57、67、77、87、97 etc, speed reducing ratio:6.8~288,
which can be allocated to 0.18~37kW.

五、型号说明 Instructions for Models:



例:

WSAF87 - YVP 0.75 - 4P - 215.37 - M2 - B - 180° - Φ60

输出轴孔直径为 Φ60
The aperture of output shaft Φ60
电机接线盒在图示180° 处
The motor connecting box is at the position
of 180° in the mounting position example.
输出法兰在图示B 向
In the example the output flange is in the
direction of B
安装形式: M2
Mounting position: M2
传动比: 215.37
Ratio:215.37
4极
Poles 4
0.75kW
变频电机
Variable Frequency Motor
WSAF型87规格
Specifications 87 for modelWSAF

- 注：1.输入轴型没有电动机的各项内容。
 2.无特别说明时Y系列电动机供货按IP54防护等级。
 3.不注明安装形式时，按安装形式图中M1安装形式供货。
 4.不注明接线盒角度时，按安装形式图中0度位置供货。
 5.WS、WSF、WSAF、WSAZ型减速机不注明输出轴或输出法兰方向时，按安装形式图中A向供货。
 6.对输出旋转方向与输入旋转方向有特殊要求的用户，请与我公司技术部联系。
 7.电机尺寸请查看电机外型尺寸表。

- Note:1. The input-shaft style is not equipped with any motor
 2. Motors of Y series are supplied with protection grade of IP54 unless otherwise specified.
 3. The mounting position of M1 as shown in the mounting position example is the default way when supplying unless otherwise specified.
 4. 0° as shown in the mounting position example is the default connection box angle when supplying unless otherwise specified.
 5. The mounting position of A as shown in the mounting position example is the default way when supplying reducers such as WS、WSF、WSAF、WSAZ model unless otherwise specified.
 6. Please contact our technical supporting department in case there's any special requirements on the output and input rotatory directions.
 7. About Motor size, please check table of motor's dimensions.

六、电机类型代号 Codes for Motor Types:

Y系列 Y series	Y	防爆电机 Flame-proof Motor	YB	直流电机 Direct Current Motor	Z
制动电机 Brake Motor	YEJ	辊道电机 Roll Motor	YG	变频电机 Variable Frequency Motor	YVP

七、联接法兰L2长度 Length of Connect Flange L2

WS..系列圆柱蜗杆减速机联接法兰L2长度表

The form on length of the connect flange L2 of the helical-worm gear reductor of WS.. Series

减速机型号 Reductor type	电机机座号 Motor frame size	63	71	80	90	100	112	132	160	180
WS..37		61.5	61.5	80	80	—	—	—	—	—
WS..47		61.5	61.5	80	80	98	—	—	—	—
WS..57		61.5	61.5	80	80	98	—	—	—	—
WS..67		56	56	74.5	74.5	90.5	90.5	123	—	—
WS..77		50	50	68.5	68.5	82.5	82.5	111	152.5	—
WS..87		—	—	63.5	63.5	78.5	78.5	106	147.5	147.5
WS..97		—	—	57.5	57.5	72.5	72.5	101	142.5	142.5

八、安装形式图释义 Explanation of mounting position example

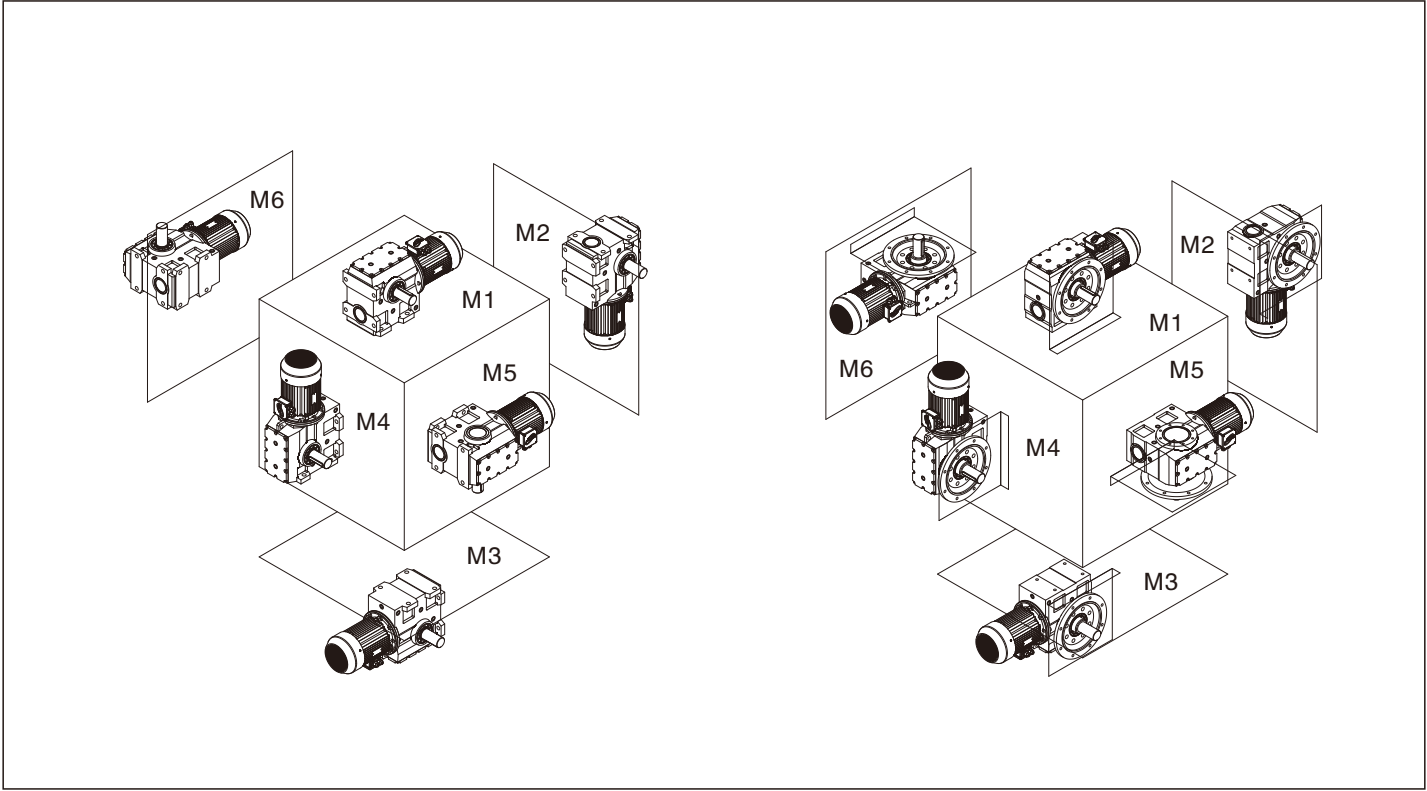
	通气孔 Breather valve		油位孔 Oil level plug		放油孔 Oil drain plug
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九、选型参数表释义 Explanation of Parameter Selection List

电机功率 Power (kW)	输出转速 Output speed (r/min)	输出转矩 Output torque (N · m)	传动比 Ratio (i)	使用系数 Service factor (fB)	机型号 Type	电机极数 Motor pole	重量 Weight (kg)
0.75	4.8	972	292.00	2.2	WS 87	4P	121
	5.3	886	264.00	2.4	WSA 87	4P	119
	5.7	830	245.88	2.6	WSF 87	4P	141
	6.0	780	229.78	2.8	WSAF87	4P	136
	6.5	736	215.37	2.9			
	6.9	696	202.40	3.1			

- 1.选型参数表中的机型可与该栏中的任一传动比搭配。
 2.选型参数表中的参数也适用于WSAZ、WSAT机型。
 1.The machine types in the parameter selection list can match any transmission ratio in the column.
 2.The parameters in this list also fits model WSAZ、WSAT.

WS系列安装方位图/ WS series installation direction diagram



WS系列油量表(单位kg) / WS series oil capacity table (Unit:kg)

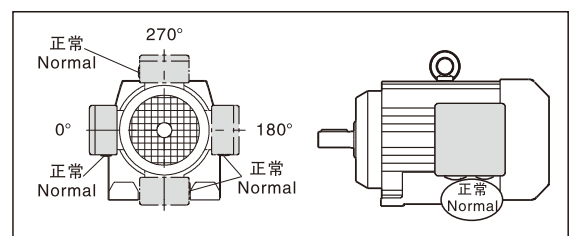
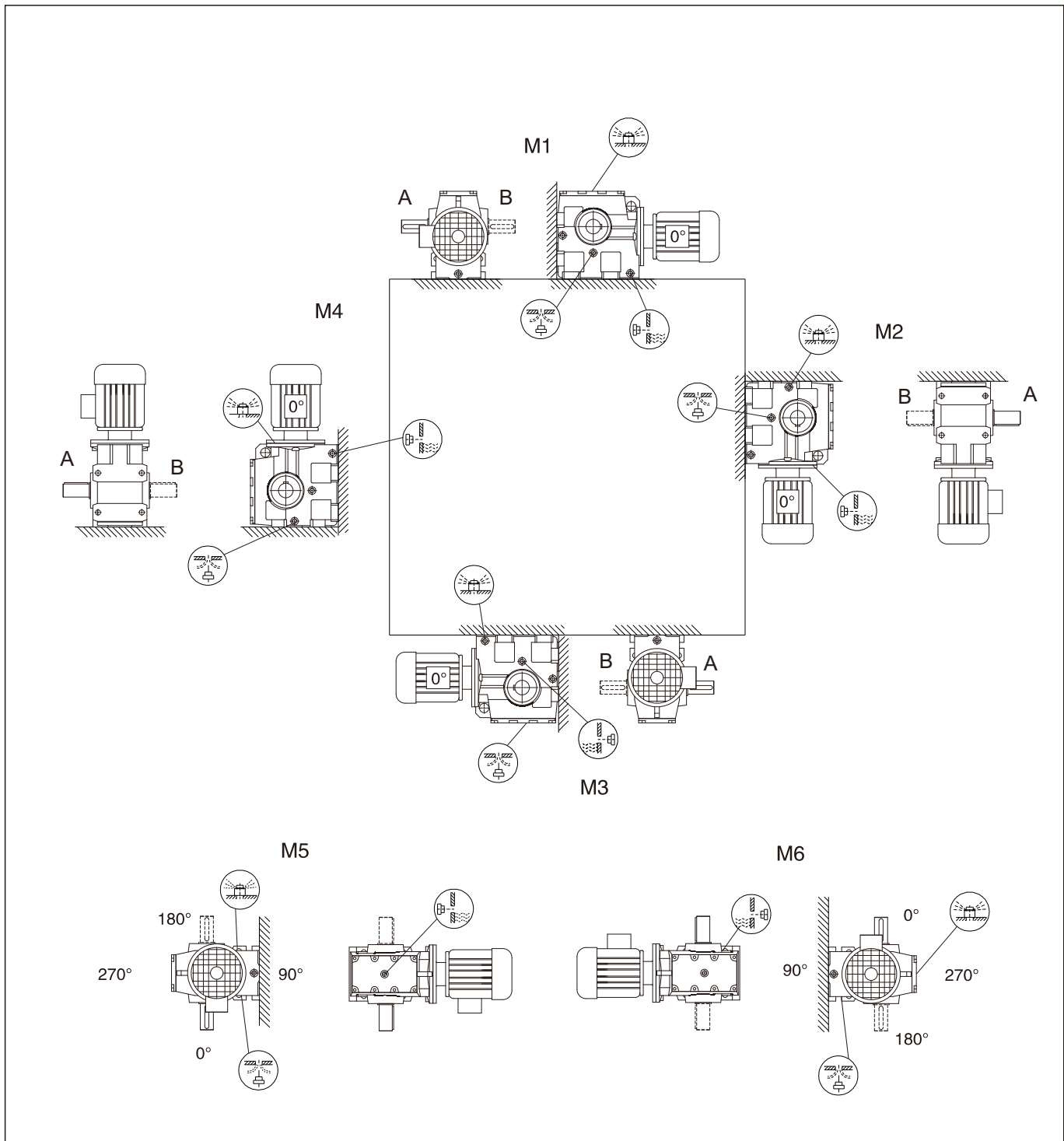
安装方位 机型号	M1	M2	M3	M4	M5	M6
WS37	0.2	0.3	0.4	0.5	0.3	0.3
WS47	0.3	0.6	0.5	0.8	0.6	0.6
WS57	0.5	1	0.9	1.3	1.1	1.1
WS67	0.8	1.9	2	2.7	2.2	2.2
WS77	1.6	3.5	3.1	5	3.7	3.7
WS87	2.6	6.5	5.5	9.6	6.7	6.7
WS97	5.3	11.7	10.5	17.6	13.3	13.3

WS系列重量表 / WS series weight table

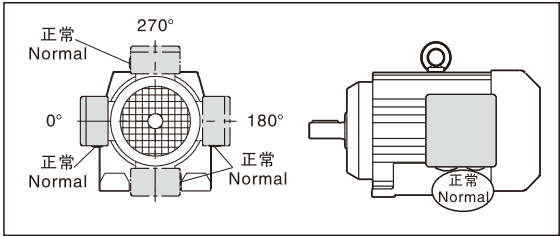
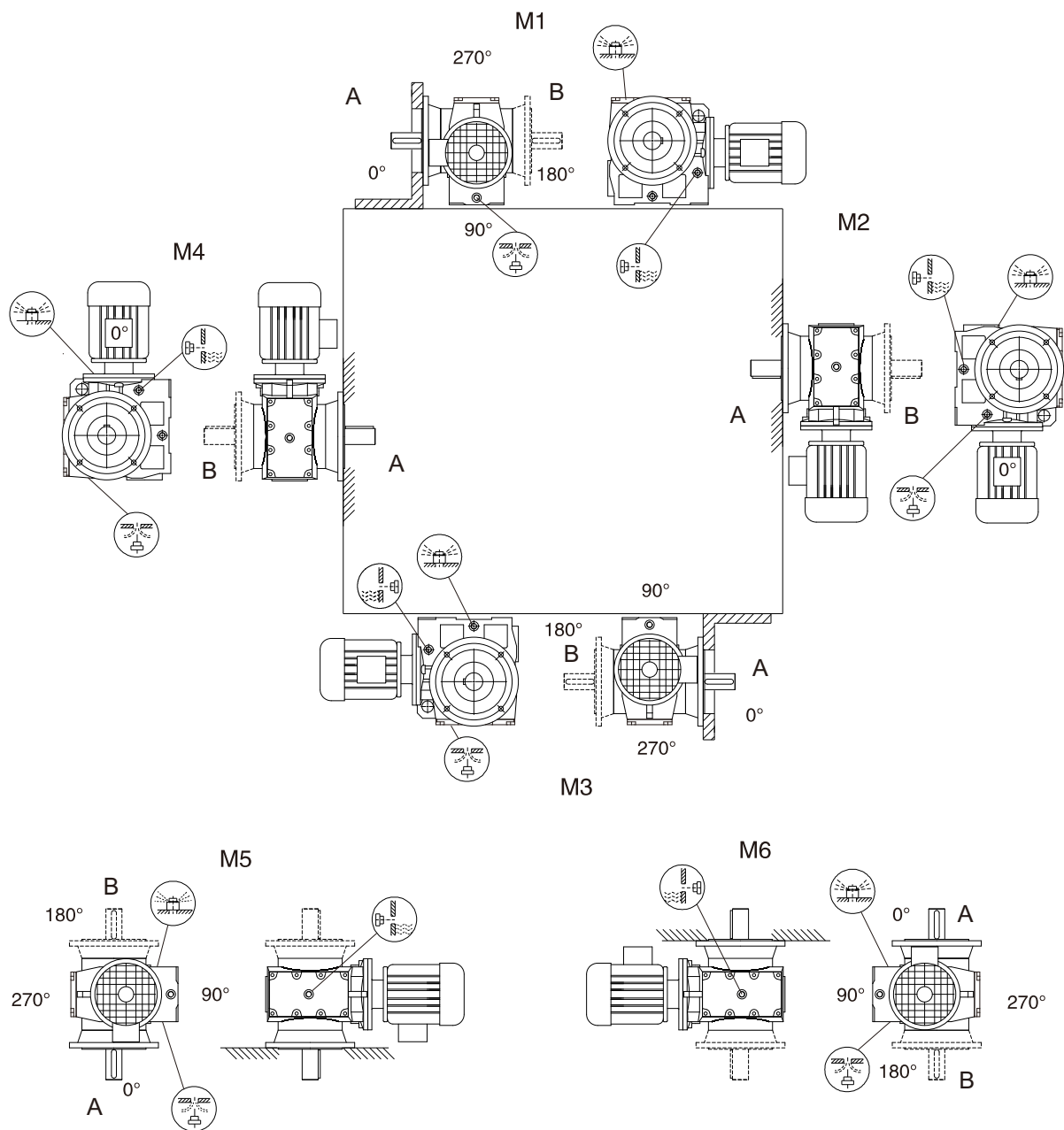
机型号/Type	WS37	WS47	WS57	WS67	WS77	WS87	WS97
重量kg/Weight kg	7.5	10	13.5	27	45	86	150

注：表中重量为不加油时重量，带输入轴、输入法兰另加10%；带电机根据所配规格另加。
Note: Weight in the table means the weight when oil is not added. When input shaft is furnished, 10% weight should be added; If there is a motor, please add weight according to motor type.

WS37-97 安装形式图 WS37-97 Mounting position example

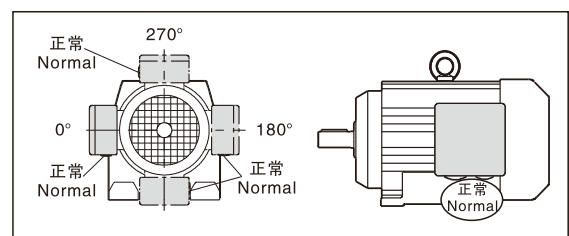
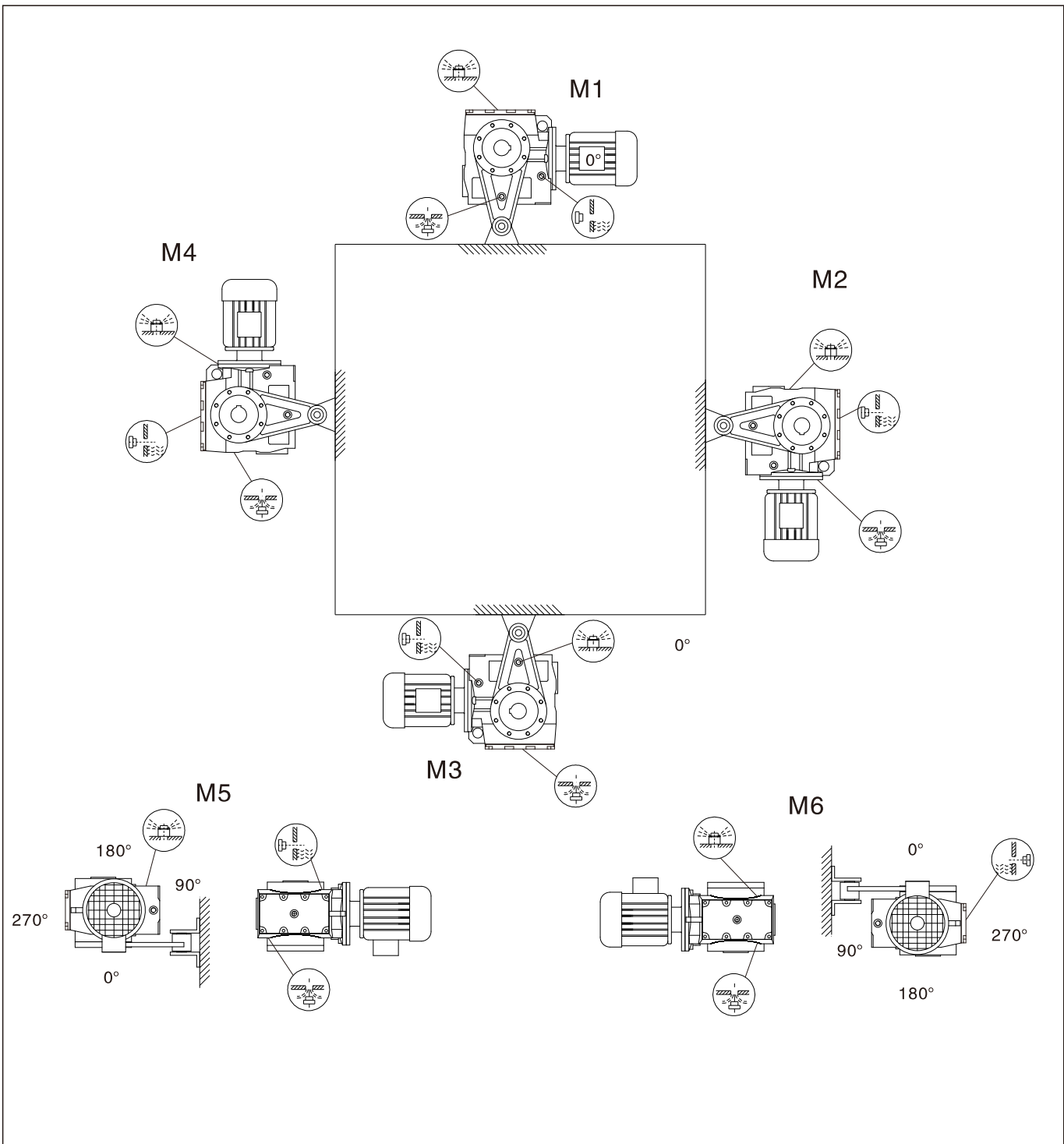


WSF/WSAF/WSAZ37-97 安装形式图 WSF/WSAF/WSAZ37-97 Mounting position example



WSAT37-97 安装形式图

WSAT37-97 Mounting position example



WUMA REDUCER /

午马减速机

WS

输出转速 Output speed (r/min)	输出转矩 Output torque (N.M)	传动比 Ratio (i)	使用系数 Service factor (f _B)	机型号 Type	电机级数 Motor pole	输出转速 Output speed (r/min)	输出转矩 Output torque (N.M)	传动比 Ratio (i)	使用系数 Service factor (f _B)	机型号 Type	电机级数 Motor pole
0.12KW						0.12KW					
0.12	4610	11267	0.90	WS97	WR57	6.9	95	201.00	1.80		
0.14	4210	10078	1.00	WSF97	WR57	7.5	89	184.80	1.90	WS47	
0.16	3500	8608	1.20	WSA97	WR57	8.7	77	158.12	2.2	WSF47	
0.18	3090	7554	1.35	WSAF97	WR57	10	68	137.05	2.5	WSA47	4P
						11	64	128.10	2.6	WSAF47	
						12	57	110.73	3.0		
0.18	3120	7643	0.80			5.7	107	157.43	0.85		
0.21	2630	6706	0.95	WS87	WR57	6.2	99	144.40	0.95	WS37	
0.23	2330	5875	1.05	WSF87	WR57	7.3	86	122.94	1.05	WSF37	6P
0.27	1960	5187	1.25	WSA87	WR57	8.5	76	106.00	1.20	WSA37	
0.30	1740	4606	1.45	WSAF87	WR57	9.1	71	98.80	1.30	WSAF37	
0.36	1450	3872	1.70			10	64	86.36	1.45		
0.39	1340	3540	0.95			8.8	74	157.43	1.25		
0.45	1170	3098	1.10			9.6	68	144.40	1.35		
0.58	1280	2374	0.95	WS77	WR37	11	60	122.94	1.55		
0.66	1130	2083	1.10	WSF77	WR37	13	52	106.00	1.70		
0.76	960	1813	1.30	WSA77	WR37	14	49	98.80	1.75		
0.79	910	1745	1.35	WSAF77	WR37	16	44	86.36	1.95		
0.86	840	1600	1.50			17	41	80.96	2.1		
0.98	735	1404	1.70			19	37	71.44	2.3		
1.1	645	1245	1.90			22	33	63.33	2.5		
1.0	665	1363	0.85			25	35	55.93	2.3	WS37	
1.2	575	1194	1.00			27	33	51.30	2.5	WSF37	4P
1.3	515	1045	1.10			32	28	43.68	2.9	WSA37	
1.5	445	914	1.30	WS67	WR37	37	25	37.66	3.2	WSAF37	
1.7	400	809	1.40	WSF67	WR37	39	23	35.10	3.4		
1.9	355	712	1.60	WSA67	WR37	45	20	30.68	3.7		
2.2	295	615	1.95	WSAF67	WR37	48	19	28.76	3.9		
2.5	265	543	2.2			54	17	25.38	4.3		
2.9	220	469	2.6			61	15	22.50	4.8		
3.3	197	424	2.9			69	14	19.89	3.6		
3.8	180	365	3.2			76	13	18.24	3.9		
						89	11	15.53	4.4		
2.1	315	655	0.95			0.18KW					
2.4	275	574	1.10			0.29	2970	4606	0.85		
2.7	240	506	1.25	WS57	WR17	0.34	2480	3872	1.00		
3.2	210	438	1.45	WSF57	WR17	0.38	2350	3475	1.05		
3.6	183	388	1.65	WSA57	WR17	0.45	1970	2905	1.10	WS87	WR57
4.1	163	336	1.85	WSAF57	WR17	0.51	1710	2586	1.25	WSF87	WR57
4.7	140	294	2.1			0.57	1520	2335	1.45	WSA87	WR57
5.1	134	269	2.2			0.64	1320	2054	1.90	WSAF87	WR57
						0.72	1170	1824	2.1		
						0.81	1050	1631	2.4		
3.2	210	438	0.90			0.94	1220	1404	1.00		
3.6	183	388	1.00			1.1	1070	1245	1.15		
4.1	162	336	1.15	WS47	WR17	1.2	990	1100	1.25	WS77	WR37
4.7	139	294	1.35	WSF47	WR17	1.4	850	954	1.45	WSF77	WR37
5.4	95	257	1.95	WSA47	WR17	1.6	745	837	1.65	WSA77	WR37
6.0	113	229	1.65	WSAF47	WR17	1.9	625	714	2.0	WSAF77	WR37
6.9	99	200	1.90			2.1	555	637	2.2		
7.4	92	187	2.0			2.3	500	574	2.5		
6.8	99	202	0.95			1.6	660	809	0.85		
7.7	88	179	1.05	WS37	WR17	1.9	580	712	1.00	WS67	WR37
8.7	78	158	1.15	WSF37	WR17	2.2	490	615	1.15	WSF67	WR37
9.6	72	144	1.25	WSA37	WR17	2.4	440	543	1.30	WSA67	WR37
12	59	118	1.55	WSAF37	WR17	2.8	370	469	1.55	WSAF67	WR37
13	55	110	1.65			3.1	335	424	1.70		
						3.6	295	365	1.90		
4.5	143	201.00	2.1	WS57		3.0	345	438	0.85	WS57	WR17
4.9	133	184.80	2.2	WSF57		3.4	305	388	1.00	WSF57	WR17
5.7	116	158.12	2.5	WSA57		3.9	270	336	1.10	WSA57	WR17
6.6	103	137.05	2.9	WSAF57		4.5	235	264	1.30	WSAF57	WR17
						4.9	220	269	1.35		

输出转速 Output speed (r/min)	输出转矩 Output torque (N.M)	传动比 Ratio (i)	使用系数 Service factor (f _B)	机型号 Type	电机级数 Motor pole	输出转速 Output speed (r/min)	输出转矩 Output torque (N.M)	传动比 Ratio (i)	使用系数 Service factor (f _B)	机型号 Type	电机级数 Motor pole
0.18KW						0.25KW					
5.8	188	229	1.60	WS57	WR17	0.45	2860	2905	0.85		
6.5	169	204	1.80	WSF57	WR17	0.50	2500	2586	1.00	WS87	WR57
7.1	154	187	1.95	WSA57	WR17	0.63	2240	2335	1.10	WSF87	WR57
				WSAF57	WR17	0.71	1950	2054	1.30	WSA87	WR57
						0.80	1550	1631	1.60	WSAF87	WR57
4.5	230	294	0.80			1.4	910	930	2.8		
5.1	158	257	1.15	WS47	WR17	1.4	1230	954	1.00	WS77	WR37
5.8	185	229	1.00	WSF47	WR17	1.5	1080	837	1.15	WSF77	WR37
6.6	162	200	1.15	WSA47	WR17	1.8	910	714	1.35	WSA77	WR37
7.1	152	187	1.20	WSAF47	WR17	2.0	810	637	1.55	WSAF77	WR37
8.0	134	165	1.40			2.3	730	574	1.70		
8.9	121	148	1.55			2.6	625	499	2.0		
10	108	131	1.70								
4.0	255	217.41	2.2	WS67		2.4	635	543	0.90		
4.6	225	190.11	2.5	WSF67	6P	2.8	540	469	1.05	WS67	WR37
4.8	215	180.60	2.6	WSA67		3.1	485	424	1.15	WSF67	WR37
				WSAF67		3.6	430	365	1.30	WSA67	WR37
4.3	220	201.00	1.35	WS57		4.1	375	319	1.50	WSAF67	WR37
4.7	205	184.80	1.45	WSF57	6P	4.6	330	281	1.75		
5.5	180	158.12	1.65	WSA57							
6.3	159	137.05	1.85	WSAF57		4.4	340	294	0.90		
6.6	154	201.00	1.90	WS57		4.8	315	269	0.95	WS57	WR17
7.1	143	184.80	2.1	WSF57	4P	5.7	270	229	1.10	WSF57	WR17
8.4	125	158.12	2.4	WSA57		6.4	245	204	1.25	WSA57	WR17
9.6	110	137.05	2.7	WSAF57		6.9	225	187	1.35	WSAF57	WR17
						7.9	198	165	1.50		
4.3	215	201.00	0.85	WS47		9.9	159	131	1.90		
4.7	199	184.80	0.90	WSF47	6P						
5.5	173	158.12	1.00	WSA47		3.1	435	217.41	1.30	WS67	
6.3	153	137.05	1.10	WSAF47		3.6	390	190.11	1.45	WSF67	
6.8	144	128.10	1.20			3.8	370	180.60	1.50	WSA67	8P
						4.3	330	158.45	1.70	WSAF67	
6.6	149	201.00	1.15			4.1	350	217.41	1.60	WS67	
7.1	138	184.80	1.25			4.6	310	190.11	1.80	WSF67	6P
8.4	121	158.12	1.40			4.9	295	180.60	1.90	WSA67	
9.6	107	137.05	1.60	WS47		5.6	265	158.45	2.1	WSAF67	
10	100	128.10	1.65	WSF47	4P						
12	88	110.73	1.90	WSA47		6.0	245	217.41	2.1		
14	77	94.08	2.2	WSAF47		6.8	220	190.11	2.4	WS67	
16	69	84.00	2.4			7.2	210	180.60	2.5	WSF67	4P
18	60	71.75	2.8			8.2	187	158.45	2.8	WSA67	
19	69	69.36	2.2			9.7	161	134.40	3.2	WSAF67	
						11	147	121.33	3.5		
						12	131	106.75	4.0		
8.4	115	157.43	0.80								
9.1	107	144.40	0.85			4.4	305	201.00	1.00	WS57	
11	93	122.94	1.00			4.8	285	184.80	1.05	WSF57	6P
12	82	106.00	1.10			5.6	245	158.12	1.20	WSA57	
13	77	98.8	1.15			6.4	220	137.05	1.35	WSAF57	
15	68	86.36	1.25			6.9	205	128.10	1.45		
16	64	80.96	1.30								
18	58	71.44	1.45			6.5	215	201.00	1.35		
21	52	63.66	1.60			7.0	200	184.80	1.45		
24	55	55.93	1.45			8.2	176	158.12	1.70	WS57	
26	51	51.30	1.60			9.5	155	137.05	1.90	WSF57	4P
30	44	43.46	1.85	WS37		10	146	128.10	2.0	WSA57	
35	38	37.66	2.1	WSF37	4P	12	129	110.73	2.3	WSAF57	
38	36	35.10	2.2	WSA37		14	111	94.08	2.7		
43	32	30.68	2.4	WSAF37		15	101	84.00	2.9		
46	30	28.76	2.5								
52	27	25.38	2.8			6.5	210	201.00	0.80		
59	24	22.50	3.1			7.0	195	184.80	0.85		
66	22	19.89	2.3			8.2	170	158.12	1.00		
72	21	18.24	2.5			9.5	150	137.05	1.10		
85	18	15.53	2.8			10	141	128.10	1.20		
99	15	13.39	3.2			12	124	110.73	1.35	WS47	4P
106	14	12.48	3.4			14	108	94.08	1.55	WSF47	
121	13	10.91	3.8			15	98	84.00	1.70	WSA47	
129	12	10.23	4.0			18	85	71.75	1.95	WSAF47	
						19	97	69.39	1.60		

WS

输出转速 Output speed (r/min)	输出转矩 Output torque (N.M)	传动比 Ratio (i)	使用系数 Service factor (f _B)	机型号 Type	电机级数 Motor pole	输出转速 Output speed (r/min)	输出转矩 Output torque (N.M)	传动比 Ratio (i)	使用系数 Service factor (f _B)	机型号 Type	电机级数 Motor pole
0.25KW						0.37KW					
19	80	67.20	2.1	WS47	4P	6.3	345	217.41	1.50	WS67 WSF67 WSA67 WSAF67	4P
20	90	63.80	1.70	WSF47		7.3	310	190.11	1.70		
24	78	54.59	2.0	WSA47		7.6	295	180.60	1.75		
27	68	47.32	2.3	WSAF47		8.7	260	158.45	2.0		
						10	225	134.40	2.3		
13	108	98.80	0.80	WS37 WSF37 WSA37 WSAF37	4P	11	205	121.33	2.5	WS57 WSF57 WSA57 WSAF57	6P
15	96	86.36	0.90			5.7	360	158.12	0.80		
16	91	80.96	0.95			6.6	315	137.05	0.95		
18	81	71.44	1.05			7.0	300	128.10	1.00		
21	73	63.33	1.10			8.1	265	110.73	1.10		
23	78	55.93	1.05			9.6	230	94.08	1.30		
25	72	51.30	1.15			11	205	84.00	1.45	WS57 WSF57 WSA57 WSAF57	4P
30	62	43.68	1.30			6.9	305	201.00	0.95		
35	54	37.66	1.45			7.5	285	184.80	1.05		
37	51	35.10	1.55			8.7	245	158.12	1.20		
42	45	30.68	1.70			10	220	137.05	1.35		
45	42	28.76	1.80			11	205	128.10	1.45		
21	37	25.38	2.0			12	180	110.73	1.65		
58	33	22.50	2.2			15	156	94.08	1.90		
65	32	19.89	1.65			16	141	84.00	2.1		
71	29	18.24	1.80			19	122	71.75	2.4		
84	25	15.53	2.0			20	139	69.39	1.75		
97	22	13.39	2.3			21	115	67.20	2.5		
104	20	12.48	2.4			22	128	63.80	1.90		
119	18	10.91	2.7			WS37 WSF37 WSA37 WSAF37	2P	10	210		
127	19	10.23	2.8	11	199			128.10	0.85		
144	15	9.02	3.1	12	175			110.73	0.95		
163	13	8.00	3.4	15	151			94.08	1.10		
191	11	6.80	3.8	16	137			84.00	1.20		
92	21	28.76	3.0	19	119			71.75	1.40		
105	19	25.38	3.3	20	136			69.39	1.15		
118	17	22.50	3.4	21	112			67.20	1.50		
134	16	19.89	2.8	22	126			63.80	1.25		
146	15	18.24	3.0	25	109			54.59	1.40		
171	13	15.53	3.4	29	96	47.32	1.60				
199	11	13.39	3.8	WS47 WSF47 WSA47 WSAF47	4P	31	90	44.22	1.75		
213	10	12.48	4.0			36	78	38.23	2.0		
0.37KW						42	67	32.48	2.3		
0.67	2810	2054	0.90			WS87	WR57	48	60	29.00	2.6
0.76	2490	1824	1.00			WSF87	WR57	56	52	24.77	3.0
0.85	2230	1631	1.10			WSA87	WR57	59	49	23.20	3.1
1.5	1320	930	1.90			WSAF87	WR57	68	46	20.33	2.4
1.7	1190	831	2.1					78	40	17.62	2.8
1.9	1290	714	0.95			WS77 WSF77 WSA77 WSAF77	4P	84	37	16.47	3.0
2.2	1150	637	1.10					22	103	63.33	0.80
2.4	1040	574	1.20	27	101			51.30	0.80		
2.8	900	499	1.40	32	87			43.68	0.95		
3.2	785	438	1.60	37	73			37.66	1.05		
3.5	700	389	1.80	WS67 WSF67 WSA67 WSAF67	4P	39	71	35.10	1.10		
3.8	615	365	0.95			45	63	30.68	1.20		
4.3	535	319	1.05			48	59	28.76	1.30		
4.9	470	281	1.20			54	52	25.38	1.40		
5.6	425	246	1.35			61	47	22.50	1.55		
2.4 2.6 3.1	980 890 775	288.00 258.18 222.40	2.5 2.8 3.2	WS87 WSF87 WSA87 WSAF87	8P	WS37 WSF37 WSA37 WSAF37	4P	69	44	19.89	1.20
								76	41	18.24	1.30
								89	35	15.53	1.45
								103	30	13.39	1.60
3.0 3.2 3.6 4.2	735 700 630 545	225.26 214.00 189.09 161.60	1.75 1.80 2.0 2.3	WS77 WSF77 WSA77 WSAF77	6P			111	28	12.48	1.70
								127	25	10.91	1.95
								135	23	10.23	2.0
								153	21	9.02	2.2
4.1 4.7 5.0 5.7	505 450 430 380	217.41 190.11 180.60 158.45	1.10 1.25 1.30 1.45	WS67 WSF67 WSA67 WSAF67	6P			173	18	8.00	2.5
								203	16	6.80	2.7

输出转速 Output speed (r/min)	输出转矩 Output torque (N.M)	传动比 Ratio (i)	使用系数 Service factor (f _B)	机型号 Type	电机级数 Motor pole	输出转速 Output speed (r/min)	输出转矩 Output torque (N.M)	传动比 Ratio (i)	使用系数 Service factor (f _B)	机型号 Type	电机级数 Motor pole
0.37KW						0.55KW					
104	28	25.38	2.2			9.6	340	94.08	0.85		
118	25	22.50	2.3			11	305	84.00	0.95		
133	24	19.89	1.85			13	265	71.75	1.10	WS57	6P
145	22	18.24	2.0	WS37		13	250	67.20	1.15	WSF57	
171	19	15.53	2.3	WSF37		16	245	54.59	1.10	WSA57	
198	16	13.39	2.5	WSA37	2P	19	215	47.32	1.25	WSAF57	
212	15	12.48	2.7	WSAF37		20	200	44.22	1.35		
243	13	10.91	3.0			24	176	38.23	1.55		
259	12	10.23	3.1								
294	11	9.02	3.3								
0.55KW						8.6	370	158.12	0.80		4P
1.0	2810	1332	0.90			9.9	330	137.05	0.90		
1.1	2540	1191	1.00			11	310	128.10	0.95		
1.3	2210	1032	1.15	WS87	WR57	12	270	110.73	1.10		
1.5	2040	930	1.25	WSF87	WR57	14	235	94.08	1.25		
1.6	1840	831	1.35	WSA87	WR57	16	210	84.00	1.40		
1.9	1600	719	1.55	WSAF87	WR57	19	184	71.75	1.55	WS57	
2.2	1400	624	1.80			20	174	67.20	1.65	WSF57	
2.4	1270	558	1.95			25	167	54.59	1.45	WSA57	
3.1	1010	435	2.4			29	146	47.32	1.70	WSAF57	
						31	137	44.22	1.80		
						36	120	38.23	2.0		
						42	103	32.48	2.4		
						47	92	29.00	2.7		
						55	79	24.77	3.1		
						59	75	23.20	3.3		
						67	69	20.33	2.4		
2.7	1380	499	0.90			16	205	84.00	0.80		4P
3.1	1210	438	1.05	WS77	WR37	19	179	71.75	0.95		
3.5	1070	389	1.15	WSF77	WR37	20	169	67.20	1.00		
4.2	910	327	1.35	WSA77	WR37	25	165	54.59	0.95		
4.7	820	289	1.50	WSAF77	WR37	29	144	47.32	1.10		
5.4	710	250	1.75			31	135	44.22	1.15	WS47	
						36	118	38.23	1.30	WSF47	
						42	101	32.48	1.55	WSA47	
						47	91	29.00	1.70	WSAF47	
						55	78	24.77	2.0		
						59	74	23.20	2.1		
						67	69	20.33	1.30		
						77	60	17.62	1.85		
						83	56	16.47	1.95		
						96	49	14.24	2.2		
						112	42	12.10	2.6		
						126	37	10.80	2.9		
						147	32	9.23	3.4		
						44	94	30.68	0.80		4P
						47	89	28.76	0.85		
						54	79	25.38	0.95		
						60	70	22.50	1.05		
						71	60	19.13	1.20	WS37	
						88	53	15.53	0.95	WSF37	
						102	46	13.39	1.10	WSA37	
						109	43	12.48	1.15	WSAF37	
						125	37	10.91	1.30		2P
						133	35	10.23	1.35		
						151	31	9.02	1.50		
						170	28	8.00	1.60		
						200	24	6.80	1.80		
						94	46	28.76	1.40		
						106	41	25.38	1.50		
						120	37	22.50	1.55		
						136	34	19.89	1.30		
						148	32	18.24	1.40	WS37	
						174	27	15.53	1.55	WSF37	
						202	24	13.39	1.75	WSA37	
						216	22	12.48	1.85	WSAF37	
						248	19	10.91	2.0		

输出转速 Output speed (r/min)	输出转矩 Output torque (N.M)	传动比 Ratio (i)	使用系数 Service factor (f _B)	机型号 Type	电机级数 Motor pole	输出转速 Output speed (r/min)	输出转矩 Output torque (N.M)	传动比 Ratio (i)	使用系数 Service factor (f _B)	机型号 Type	电机级数 Motor pole		
0.55KW						0.75KW							
264	18	10.23	2.1	WS37	2P	10	460	134.40	1.15	WS67 WSF67 WSA67 WSAF67	4P		
299	16	9.02	2.2	WSF37		11	420	121.33	1.25				
338	14	8.00	2.5	WSA37		13	375	106.75	1.40				
397	12	6.80	2.4	WSAF37		14	355	100.80	1.40				
						16	305	85.83	1.70				
0.75KW						18	310	75.06	1.55			WS67 WSF67 WSA67 WSAF67	4P
1.1	4840	1223	0.85	WS97 WSF97 WSA97 WSAF97	WR57 WR57 WR57 WR57	21	275	65.63	1.75				
1.3	4240	1070	1.00			22	260	62.35	1.85				
1.5	3650	928	1.15			25	230	54.70	2.1				
1.7	3230	824	1.30			30	198	46.40	2.4				
1.9	2300	714	1.85								6P		
2.2	2450	626	1.70			13	365	71.75	0.80	WS57 WSF57 WSA57 WSAF57			
2.6	2110	538	2.0			13	345	67.20	0.85				
2.8	1900	484	2.2			16	295	56.61	1.00				
				19	295	47.32	0.90						
				20	275	44.22	1.00						
1.3	3030	1032	0.85	WS87 WSF87 WSA87 WSAF87	WR57 WR57 WR57 WR57	12	365	110.73	0.80	WS57 WSF57 WSA57 WSAF57	4P		
1.5	2780	930	0.90			15	315	94.08	0.95				
1.7	2510	831	1.00			16	285	84.00	1.05				
1.9	2190	719	1.15			19	250	71.75	1.15				
2.2	1920	624	1.30			21	235	67.20	1.20				
2.5	1730	558	1.45			25	225	54.59	1.10				
3.2	1390	435	1.75			29	197	47.32	1.20				
4.3	1060	323	2.3			31	185	44.22	1.35				
4.2	1240	327	1.00	WS77 WSF77 WSA77 WSAF77	WR37 WR37 WR37 WR37	36	167	38.23	1.50				
4.8	1110	289	1.10			42	138	32.48	1.80				
5.5	960	250	1.30			48	124	29.00	2.0				
6.3	850	219	1.45			56	107	24.77	2.3				
2.4	2040	286.40	2.1	WS97 WSF97 WSA97 WSAF97	8P	59	100	23.20	2.5	WS47 WSF47 WSA47 WSAF47	4P		
2.6	1890	262.22	2.2			68	93	20.33	1.80				
3.0	1690	231.67	2.5			78	81	17.62	2.1				
3.1	1540	288.00	1.60	WS87 WSF87 WSA87 WSAF87	6P	84	76	16.47	2.2				
3.5	1400	258.18	1.75			97	66	14.24	2.6				
4.1	1220	222.40	1.95			29	194	47.32	0.80				
4.4	1120	202.96	2.1			31	182	44.22	0.85				
4.8	1050	288.00	2.2	WS87 WSF87 WSA87 WSAF87	4P	36	159	38.23	1.00				
5.3	950	258.18	2.4			42	136	32.48	1.15				
6.2	830	222.40	2.8			48	122	29.00	1.25				
6.8	765	202.96	3.0			56	106	24.77	1.45				
						59	99	23.20	1.55			WS47 WSF47 WSA47 WSAF47	4P
4.0	1160	225.26	1.10	WS77 WSF77 WSA77 WSAF77	6P	68	93	20.33	1.20				
4.2	1110	214.00	1.15			78	81	17.62	1.35				
4.8	990	189.09	1.30			84	76	16.47	1.45				
5.6	860	161.60	1.45			97	66	14.24	1.65				
						114	56	12.10	1.95				
5.4	890	256.47	1.45	WS77 WSF77 WSA77 WSAF77	4P	128	50	10.80	2.2				
6.1	790	225.26	1.60			150	43	9.23	2.5				
6.4	755	214.00	1.70			160	41	8.64	2.7				
7.3	675	189.09	1.90			190	34	7.28	3.0				
8.5	585	161.60	2.2			72	81	19.13	0.85	WS37 WSF37 WSA37 WSAF37	4P		
9.3	545	148.15	2.3			111	57	12.48	0.85				
11	480	130.00	2.5			127	50	10.91	0.95				
11	460	123.20	2.6			135	47	10.23	1.00				
13	405	107.83	2.9			153	42	9.02	1.10				
5.4	890	256.47	1.45	WS77 WSF77 WSA77 WSAF77	4P	173	37	8.00	1.20	WS37 WSF37 WSA37 WSAF37	2P		
6.1	790	225.26	1.60			203	32	6.80	1.35				
6.4	755	214.00	1.70			141	43	19.13	1.05				
7.3	675	189.09	1.90			174	37	15.53	1.15				
8.5	585	161.60	2.2			202	32	13.39	1.30				
9.3	545	148.15	2.3			216	30	12.48	1.35				
11	480	130.00	2.5			248	26	10.91	1.50				
11	460	123.20	2.6			264	25	10.23	1.55				
13	405	107.83	2.9			299	22	9.02	1.65				
7.3	625	190.11	0.85	WS67 WSF67 WSA67 WSAF67	4P	338	19	8.00	1.80				
7.6	595	180.60	0.85			397	17	6.80	1.75				
8.7	530	158.45	1.00										

输出转速 Output speed (r/min)	输出转矩 Output torque (N.M)	传动比 Ratio (i)	使用系数 Service factor (f _B)	机型号 Type	电机级数 Motor pole	输出转速 Output speed (r/min)	输出转矩 Output torque (N.M)	传动比 Ratio (i)	使用系数 Service factor (f _B)	机型号 Type	电机级数 Motor pole	
1.1KW						1.1KW						
1.7	4720	824	0.90	WS97 WSF97 WSA97 WSAF97	WR57 WR57 WR57 WR57	4P	20	360	71.75	0.80	WS57 WSF57 WSA57 WSAF57	4P
2.0	3370	714	1.25			21	340	67.20	0.85			
2.2	3590	626	1.15			25	290	56.61	0.90			
2.6	3090	538	1.35			30	285	47.32	0.85			
2.9	2790	484	1.50			32	265	44.22	0.90			
3.3	2430	420	1.75			37	235	38.23	1.05			
2.2	2820	624	0.90	WS87 WSF87 WSA87 WSAF87	WR57 WR57 WR57 WR57	4P	43	200	32.48	1.25		
2.5	2550	558	1.00			48	179	29.00	1.35			
2.9	2240	485	1.10			57	154	24.77	1.60			
3.2	2040	435	1.20			60	145	23.20	1.70			
3.7	1790	378	1.35			72	123	19.45	1.75			
4.3	1560	323	1.55			79	117	17.62	1.45			
5.0	1370	281	1.75			85	110	16.47	1.55			
5.5	1460	255	1.35			98	95	14.24	1.75			
6.3	1280	222	1.55			116	82	12.10	2.1			
6.8	1200	205	1.65			130	73	10.80	2.3			
6.4	1240	219	1.00	WS77 WSF77 WSA77 WSAF77	WR37 WR37 WR37 WR37	4P	152	63	9.23	2.7		
2.4	3030	286.40	1.40	WS97 WSF97 WSA97 WSAF97	WR57 WR57 WR57 WR57	8P	48	177	29.00	0.90	WS47 WSF47 WSA47 WSAF47	4P
2.6	2800	262.22	1.50			57	153	24.77	1.00			
2.9	2500	231.67	1.70			60	143	23.20	1.05			
3.5	2160	196.52	1.95			72	122	19.54	1.20			
3.2	2310	286.40	1.80	WS97 WSF97 WSA97 WSAF97	WR57 WR57 WR57 WR57	6P	79	117	17.62	0.95		
3.5	2130	262.22	1.95			85	109	16.47	1.00			
4.0	1900	231.67	2.2			98	95	14.24	1.15			
						116	81	12.10	1.35			
3.2	2220	288.00	1.10	WS87 WSF87 WSA87 WSAF87	WR57 WR57 WR57 WR57	6P	130	73	10.80	1.50		
3.6	2010	258.18	1.20			152	63	9.23	1.75			
4.1	1760	222.40	1.35			162	59	8.64	1.85			
4.5	1620	202.96	1.45			192	50	7.28	2.1			
4.9	1520	288.00	1.50	WS87 WSF87 WSA87 WSAF87	WR57 WR57 WR57 WR57	4P	175	54	8.00	0.85	WS37 WSF37 WSA37 WSAF37	4P
5.4	1370	258.18	1.65			206	46	6.80	0.95			
6.3	1200	222.40	1.90			WS37 WSF37 WSA37 WSAF37	WR57 WR57 WR57 WR57	2P	202	47	13.39	0.85
6.9	1100	202.96	2.0					216	44	12.48	0.90	
7.8	990	180.00	2.2					248	39	10.91	1.00	
9.2	840	151.30	2.5					264	36	10.23	1.05	
6.2	1150	225.26	1.10	299	32			9.02	1.10			
6.5	1100	214.00	1.15	338	28			8.00	1.25			
7.4	980	189.09	1.30	397	24			6.80	1.20			
8.7	850	161.60	1.50	1.5KW								
9.4	785	148.15	1.60	WS97 WSF97 WSA97 WSAF97	WR57 WR57 WR57 WR57	4P	2.0	4590	714	0.90		
11	695	130.00	1.75			2.2	4890	626	0.85			
11	665	123.20	1.80			2.6	4220	538	1.00			
13	585	107.83	2.0			2.9	3810	484	1.10			
14	535	97.14	2.1			3.4	3310	420	1.25			
16	470	85.22	2.3			3.8	2990	376	1.40			
						4.3	2630	327	1.60			
12	605	121.33	0.85	WS67 WSF67 WSA7 WSAF67	WR57 WR57 WR57 WR57	4P	2.9	3060	485	0.80	WS87 WSF87 WSA87 WSAF87	WR57 WR57 WR57 WR57
13	540	106.75	0.95			3.2	2780	435	0.90			
14	515	100.80	1.00			3.7	2450	378	1.00			
16	445	85.83	1.15			4.4	2130	323	1.15			
18	405	78.00	1.30			5.0	1870	281	1.30			
21	400	65.63	1.20			5.5	2000	255	1.00			
22	380	62.35	1.25			6.3	1750	222	1.15			
26	335	54.70	1.45			6.9	1630	205	1.20			
30	285	46.40	1.65									
33	260	41.89	1.85			2.4	4030	286.40	1.05	WS97 WSF97 WSA97 WSAF97	8P	
38	230	36.85	2.1			2.7	3720	262.22	1.15			
40	220	34.80	2.2			3.0	3330	231.67	1.25			
47	187	29.63	2.6			3.6	2870	196.52	1.45			

WS

输出转速 Output speed (r/min)	输出转矩 Output torque (N.M)	传动比 Ratio (i)	使用系数 Service factor (f _B)	机型号 Type	电机级数 Motor pole	输出转速 Output speed (r/min)	输出转矩 Output torque (N.M)	传动比 Ratio (i)	使用系数 Service factor (f _B)	机型号 Type	电机级数 Motor pole		
1.5KW						1.5KW							
3.2	3150	286.40	1.35	WS97	6P	99	129	14.24	1.30	WS57	4P		
3.5	2910	262.22	1.45	WSF97		117	110	12.10	1.55	WSF57			
4.0	2600	231.67	1.60	WSA97		131	99	10.80	1.70	WSA57			
4.7	2230	196.52	1.90	WSAF97		153	85	9.23	2.0	WSAF57			
4.9	2130	286.40	1.90	WS97	4P	99	129	14.24	0.85	WS47	4P		
5.4	1970	262.22	2.0	WSF97		117	110	12.10	1.00			WSF47	
6.1	1760	231.67	2.3	WSA97		131	99	10.80	1.10			WSA47	
7.2	1510	196.52	2.7	WSAF97		153	85	9.23	1.30			WSAF47	
3.6	2740	258.18	0.90	WS87	6P	163	79	8.64	1.35	WS37	2P		
4.1	2390	222.40	1.00	WSF87		194	67	7.28	1.55			WSF37	
4.5	2200	202.96	1.10	WSA87		299	44	9.02	0.85			WSA37	
5.1	1980	180.00	1.20	WSAF87		338	39	8.00	0.90			WSAF37	
4.9	2060	288.00	1.10	WS87	4P	397	33	6.80	0.90	WS97 WSF97 WSA97 WSAF97	4P		
5.5	1860	258.18	1.20			2.2KW							
6.3	1630	222.40	1.40			3.4	4900	420	0.85			WS97 WSF97 WSA97 WSAF97	WR57 WR57 WR57 WR57
6.9	1500	202.96	1.50			3.8	4410	376	0.95				
7.8	1340	180.00	1.65			4.3	3870	327	1.10				
9.3	1140	151.30	1.90			4.9	3420	287	1.25				
10	1060	139.05	2.0			5.6	3000	252	1.40				
11	950	123.48	2.2			3.3	4530	286.40	0.95			WS97 WSF97 WSA97 WSAF97	6P
13	850	110.40	2.3	3.6	4180					262.22	1.00		
14	770	99.26	2.5	4.1	3730					231.67	1.15		
7.5 8.7 9.5 11 11 13 15 17 19 20 21 22 25 26 29 33	1330	189.09	0.95	4.8	3210					196.52	1.30		
	1150	161.60	1.10	4.9 5.4 6.1 7.2 7.8 8.7 9.7 11 12 13 16	3130 2890 2570 2210 2050 1840 1670 1520 1360 1240 1060					286.40 262.22 231.67 196.52 180.95 161.74 145.60 131.85 116.92 105.71 89.60	1.30 1.40 1.55 1.80 1.90 2.1 2.2 2.4 2.6 2.8 3.1		
	1060	148.15	1.15			5.5	2730	258.18	0.85				
	940	130.00	1.30			6.3	2380	222.40	0.95				
	900	123.20	1.35			6.9	2190	202.96	1.05				
	795	107.83	1.45			7.8	1970	180.00	1.10				
	725	97.14	1.60			9.3	1680	151.30	1.30				
	640	85.22	1.70			10	1550	139.05	1.35				
	650	75.09	1.70			11	1390	123.48	1.50				
	620	71.33	1.80			13	1250	110.40	1.60				
	510	66.67	2.0			14	1130	99.26	1.75				
550	63.03	2.0	16			990	86.15	1.90					
440	56.92	2.3	17	1030	81.76	1.50							
470	53.87	2.3	18	890	77.14	2.0							
435	49.38	2.5	20	920	70.43	1.75							
385	43.33	2.9	22	840	64.27	1.90							
16 18 21 23 26 30 34 38 41 48 52 58 61 69 82 90 103	600	85.83	0.85	25	750	57.00	2.1	WS87 WSF87 WSA87 WSAF87	4P				
	550	78.00	0.95	11	1390	130.00	0.85						
	540	65.63	0.90	11	1320	123.20	0.90						
	515	62.35	0.95	13	1170	107.83	1.00						
	455	54.70	1.05	15	1060	97.14	1.10						
	46.40	1.25	17	940	85.22	1.15							
	41.89	1.36	19	840	75.20	1.30							
	36.85	1.55	21	745	66.67	1.40							
	34.80	160	WSA67	22	810	63.03	1.35						
	29.63	1.90	WSAF67	25	645	56.92	1.55						
	230	26.93	2.1	26	695	53.87	1.60						
220	24.44	1.55	29	635	49.38	1.75							
210	23.22	1.60	33	560	43.33	1.95							
186	20.37	1.85	34	535	41.07	2.1							
159	17.28	2.1	WS77 WSF77 WSA77 WSAF77	4P									
144	15.60	2.4											
127	13.73	2.7											
270	32.48	0.90											
245	29.00	1.00											
210	24.77	1.15											
196	23.20	1.25	WS57 WSF57 WSA57 WSAF57	4P									
167	19.54	1.30											
159	17.62	1.05											
149	16.47	1.15											

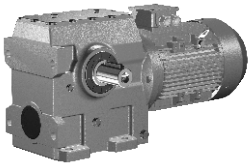
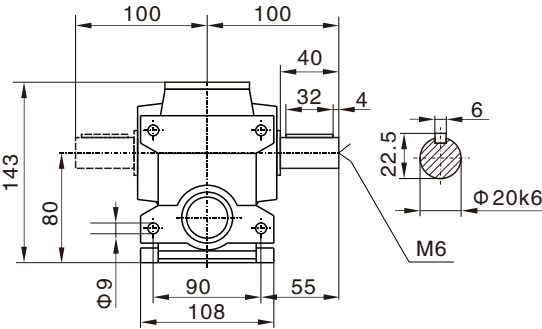
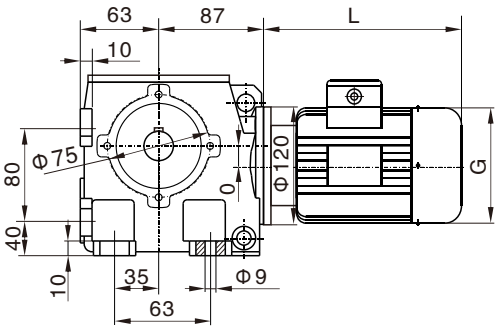
输出转速 Output speed (r/min)	输出转矩 Output torque (N.M)	传动比 Ratio (i)	使用系数 Service factor (f _B)	机型号 Type	电机级数 Motor pole	输出转速 Output speed (r/min)	输出转矩 Output torque (N.M)	传动比 Ratio (i)	使用系数 Service factor (f _B)	机型号 Type	电机级数 Motor pole	
2.2KW						3.0KW						
39	470	35.94	2.3	WS77 WSF77 WSA77 WSAF77	4P	16	1290	85.22	0.85	WS77 WSF77 WSA77 WSAF77	4P	
44	425	32.38	2.6			19	1150	75.20	0.95			
50	375	28.41	2.8			21	1020	66.67	1.00			
56	330	25.07	3.1			22	1110	63.03	1.00			
62	310	22.89	2.3			25	880	56.92	1.10			
67	285	20.99	2.5			26	950	53.87	1.15			
30	570	46.40	0.85	WS67 WSF67 WSA67 WSAF67	4P	28	880	49.39	1.25			
34	515	41.89	0.95			32	770	43.33	1.40			
38	460	36.85	1.05			34	735	41.07	1.50			
41	435	34.80	1.10			39	645	35.94	1.70			
48	370	29.63	1.30			43	585	32.38	1.85			
52	340	26.93	1.40			49	515	28.41	2.0			
60	295	23.33	1.60			56	455	25.07	2.2			
69	275	20.37	1.25			61	430	22.89	1.65			
82	235	17.28	1.45			67	395	20.99	1.80			
90	210	15.60	1.60			76	345	18.42	2.0			
103	186	13.73	1.85			80	330	17.45	2.2			
109	176	12.96	1.95			92	290	15.28	2.5			
128	151	11.03	2.3			102	260	13.73	2.7			
141	137	10.03	2.5			116	230	12.07	3.1			
162	119	8.69	2.8			131	205	10.65	3.5			
99	190	14.24	0.90	WS57 WSF57 WSA57 WSAF57	4P	40	595	34.80	0.80	WS67 WSF67 WSA67 WSAF67	4P	
117	162	12.10	1.05			47	510	29.63	0.95			
131	145	10.80	1.15			52	465	26.93	1.05			
153	124	9.23	1.35			60	405	23.33	1.20			
163	117	8.64	1.40			69	375	20.37	0.90			
194	99	7.28	1.50			81	320	17.28	1.05			
3.0KW						90	290	15.60	1.15			
4.9	4710	287	0.90	WS97	WR57	102	255	13.73	1.35			
5.6	4140	252	1.00	WSF97	WR57	108	240	12.96	1.40			
6.4	3620	219	1.15	WSA97	WR57	127	205	11.03	1.65			
6.8	3400	205	1.25	WSAF97	WR57	140	188	10.03	1.80			
4.9	4290	286.40	0.95	WS97 WSF97 WSA97 WSAF97	4P	161	164	8.69	2.0			
5.3	3960	262.22	1.00			185	143	7.56	2.1			
6.0	3530	231.67	1.15			130	199	10.80	0.85	WS57 WSF57 WSA57 WSAF57	4P	
7.1	3040	196.52	1.30			152	171	9.23	1.00			
7.7	2810	180.95	1.40			162	160	8.64	1.05			
8.7	2530	161.74	1.50			192	136	7.28	1.10			
9.6	2300	145.60	1.65			4.0KW						
11	2090	131.85	1.75			6.5	4780	219	0.90	WS97	WR57	
12	1870	116.92	1.90			6.9	4490	205	0.95	WSF97	WR57	
13	1700	105.71	2.0			WS97 WSF97 WSA97 WSAF97	4P	4P	WSA97 WR57 WSAF97	4P		
16	1450	89.60	2.2			6.1	4650	231.67	0.85			
17	1470	80.85	2.2			7.2	3990	196.52	1.00			
4.0KW						7.8	3700	180.95	1.05			
7.8	2700	180.00	0.80	WS87 WSF87 WSA87 WSAF87	4P	8.8	3330	161.74	1.15			
9.2	2300	151.30	0.95			9.8	3020	145.60	1.25			
10	2130	139.05	1.00			11	2750	131.85	1.35			
11	1900	123.48	1.10			12	2460	116.92	1.45			
13	1720	110.40	1.15			13	2230	105.71	1.55			
14	1550	99.26	1.25			16	1910	89.60	1.70			
16	1360	86.15	1.40			18	1940	80.85	1.65			
17	1460	81.76	1.10			20	1720	71.43	1.90			
18	1230	77.14	1.50			23	1470	60.59	2.2			
20	1260	70.43	1.25			25	1350	55.79	2.4			
22	1160	64.27	1.40			WS87 WSF87 WSA87 WSAF87	4P	4P	WSA87 WSAF87	4P		
25	1030	57.00	1.55			12	2510	123.48	0.80			
29	870	47.91	1.85			13	2260	110.40	0.90			
32	800	44.03	2.0			14	2040	99.26	0.95			
36	715	39.10	2.2			16	1790	86.15	1.05			
40	640	34.96	2.5			18	1610	77.14	1.15			
4.0KW						20	1660	70.43	0.95			
4P	4P	4P	4P	4P	4P	22	1520	64.27	1.05			
						25	1350	57.00	1.20			
						30	1150	47.91	1.40			

WS

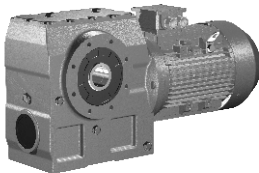
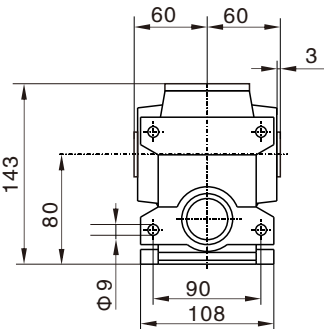
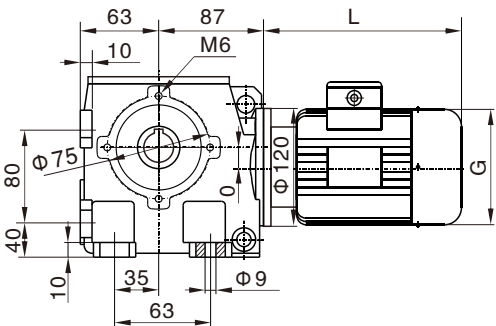
输出转速 Output speed (r/min)	输出转矩 Output torque (N.M)	传动比 Ratio (i)	使用系数 Service factor (f _B)	机型号 Type	电机级数 Motor pole	输出转速 Output speed (r/min)	输出转矩 Output torque (N.M)	传动比 Ratio (i)	使用系数 Service factor (f _B)	机型号 Type	电机级数 Motor pole		
4.0KW						5.5KW							
32	1060	44.03	1.50	WS87 WSF87 WSA87 WSAF87	4P	35	1320	41.07	0.85	WS77 WSF77 WSA77 WSAF77	4P		
36	940	39.10	1.70			40	1160	35.94	0.95				
41	840	34.96	1.90			44	1050	32.38	1.05				
45	760	31.43	2.1			50	920	28.41	1.15				
52	665	27.28	2.4			57	820	25.07	1.25				
56	635	25.50	1.95			64	725	22.22	1.35				
25	1160	56.92	0.85	WS77 WSF77 WSA77 WSAF77	4P	78	625	18.41	1.15				
26	1250	53.87	0.90			82	590	17.45	1.20				
29	1150	49.38	0.95			94	520	15.28	1.35				
33	1020	43.33	1.10			104	470	13.76	1.50				
35	960	41.07	1.15			118	410	12.07	1.75				
40	850	35.94	1.30			134	365	10.65	2.0				
44	765	32.38	1.40			151	325	9.44	2.2				
50	675	28.41	1.55			177	275	8.06	2.5				
57	600	25.07	1.70			130	370	11.03	0.90				
62	565	22.89	1.25			143	340	10.03	1.00				
68	520	20.99	1.35			165	295	8.69	1.15				
77	455	18.42	1.55			189	255	7.56	1.15				
81	435	17.45	1.65			7.5KW							
93	380	15.28	1.85			14	4160	105.71	0.85	WS97 WSF97 WSA97 WSAF97	4P		
103	345	13.76	2.1			16	3560	89.60	0.90				
118	300	12.07	2.4			18	3130	78.26	1.00				
133	265	10.65	2.7			20	3200	71.43	1.05				
150	235	9.44	3.1			22	2630	65.45	1.10				
176	205	8.06	3.3			24	2730	60.59	1.20				
82	420	17.28	0.80	26	2520	55.79	1.30						
91	380	15.60	0.90	29	2260	49.87	1.45						
103	335	13.73	1.00	32	2040	44.89	1.60						
110	320	12.96	1.05	35	1850	40.65	1.80						
129	270	11.03	1.25	40	1650	36.05	2.0						
142	245	10.03	1.35	44	1490	32.60	2.2						
163	215	8.69	1.55	54	1240	26.39	2.1						
188	188	7.56	1.55	61	1110	23.59	2.3						
5.5KW						67	1000	21.23	2.6				
8.8	4550	161.74	0.85	WS97 WSF97 WSA97 WSAF97	4P	74	910	19.23	2.9				
9.8	4130	145.60	0.90			32	1970	44.03	0.80				
11	3760	131.85	0.95			37	1750	39.10	0..90				
12	3360	116.92	1.05			41	1570	34.96	1.00				
14	3050	105.71	1.15			45	1420	31.43	1.15				
16	2610	89.60	1.25			52	1230	27.28	1.30				
18	2290	78.26	1.35			56	1180	25.50	1.05	WS87 WSF87 WSA87 WSAF87	4P		
20	2350	71.43	1.40			67	1000	21.43	1.25				
22	1930	65.45	1.50			73	920	19.70	1.35				
24	2000	60.59	1.65			82	82	17.49	1.50				
26	1850	55.79	1.80			91	730	15.64	1.70				
29	1660	49.87	2.0			102	660	14.06	1.90				
32	1500	44.89	2.2			117	676	12.21	2.2				
35	1360	40.65	2.4			131	616	10.93	2.4				
19	2200	77.14	0.85	158	430	9.07	2.7						
22	1850	64.00	0.90	181	375	7.88	2.7						
25	1850	57.00	0.85	50	1260	28.41	0.85	WS77 WSF77 WSA77 WSAF77	4P				
30	1560	47.91	1.00	57	1110	25.07	0.90						
32	1440	44.03	1.10	64	990	22.22	1.00						
37	1280	39.10	1.25	78	850	18.42	0.85						
41	1150	34.96	1.40	82	810	17.45	0.90						
45	1040	31.43	1.55	94	705	15.28	1.00						
52	910	27.28	1.75	104	640	13.76	1.10						
56	870	25.50	1.45	118	650	12.07	1.30						
67	730	21.43	1.70	134	495	10.65	1.45						
73	675	19.70	1.85	151	440	9.44	1.65						
82	600	17.49	2.1	177	380	8.06	1.80						
91	535	15.64	2.3										
102	485	14.06	2.6										
117	420	12.21	3.0										
131	375	10.93	3.3										

输出转速 Output speed (r/min)	输出转矩 Output torque (N.M)	传动比 Ratio (i)	使用系数 Service factor (f _B)	机型号 Type	电机级数 Motor pole	输出转速 Output speed (r/min)	输出转矩 Output torque (N.M)	传动比 Ratio (i)	使用系数 Service factor (f _B)	机型号 Type	电机级数 Motor pole
11.0KW						22KW					
26	3670	55.79	0.90			53	3630	27.63	0.85		
29	3290	49.87	1.00			61	3180	24.13	0.90		
32	2970	44.89	1.10			69	2870	21.23	0.90		
35	2700	40.65	1.20			76	2600	19.23	1.00	WS97	
40	2400	36.05	1.40			86	2310	17.05	1.10	WSF97	
44	2170	32.60	1.45	WS97		95	2090	15.42	1.20	WSA97	
55	1810	26.39	1.45	WSF97		112	1780	13.07	1.30	WSAF97	
61	1620	23.59	1.60	WSA97	4P	128	1560	11.41	1.40		4P
68	1460	21.23	1.80	WSAF97		153	1300	9.55	1.55		
75	1320	19.23	1.95			177	1130	8.26	1.55		
84	1180	17.05	2.2								
93	1070	15.42	2.3								
110	900	13.07	2.6								
126	790	11.41	2.8								
53	1800	27.28	0.90								
59	1610	24.43	1.00								
71	1340	20.27	1.20								
73	1340	19.70	0.95	WS87							
82	1190	17.49	1.05	WSF87							
92	1070	15.64	1.15	WSA87	4P						
102	960	14.06	1.30	WSAF87							
118	840	12.21	1.50								
132	750	10.93	1.65								
159	625	9.07	1.85								
183	545	7.88	1.85								
15.0KW											
33	4000	44.89	0.85								
36	3630	40.65	0.90								
41	3230	36.05	1.00								
45	2920	32.60	1.10								
55	2430	26.39	1.05	WS97							
62	2180	23.59	1.20	WSF97							
59	1970	21.23	1.30	WSA97	4P						
76	1780	19.23	1.45	WSAF97							
86	1580	17.05	1.60								
95	1430	15.42	1.70								
112	1220	13.07	1.90								
128	1060	11.41	2.1								
153	890	9.55	2.3								
177	775	8.26	2.3								
93	1430	15.64	0.85								
104	1290	14.06	0.95	WS87							
120	1120	12.21	1.10	WSF87							
134	1010	10.93	1.25	WSA87	4P						
161	840	9.07	1.35	WSAF87							
185	730	7.88	1.40								
18.5KW											
41	3970	36.05	0.85								
45	3590	32.60	0.90								
53	3060	27.63	1.00								
61	2680	24.13	1.05								
69	2420	21.23	1.10	WS97							
76	2190	19.23	1.20	WSF97							
86	1950	17.05	1.30	WSA97	4P						
95	1760	15.42	1.40	WSAF97							
112	1500	13.07	1.55								
128	1310	11.41	1.70								
153	1100	9.55	1.85								
177	950	8.26	1.85								

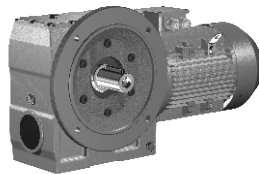
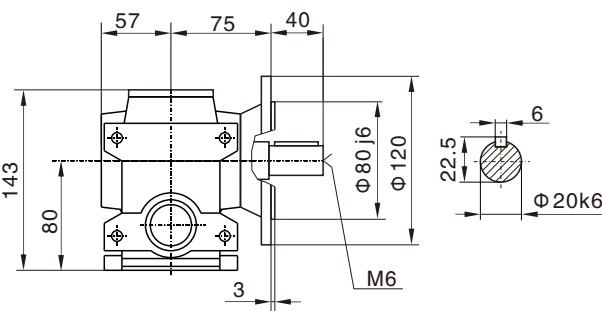
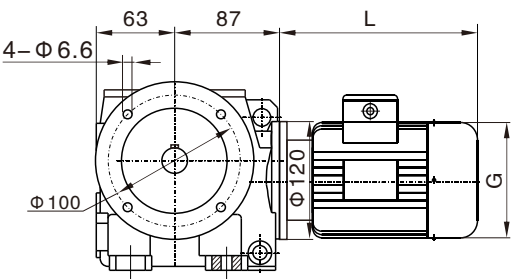
WS37



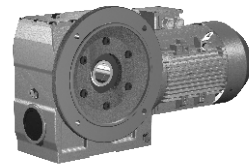
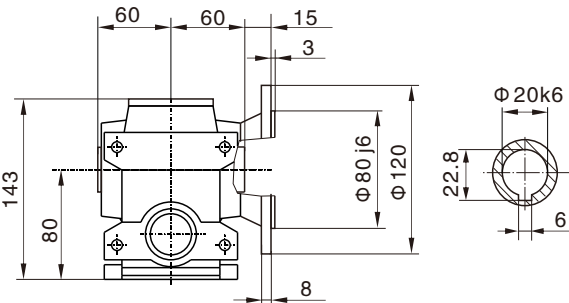
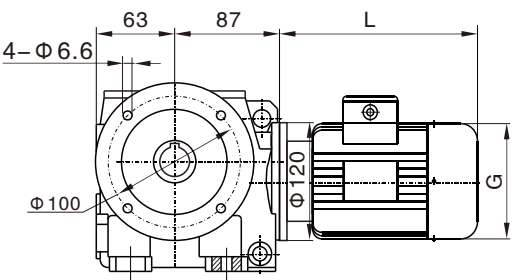
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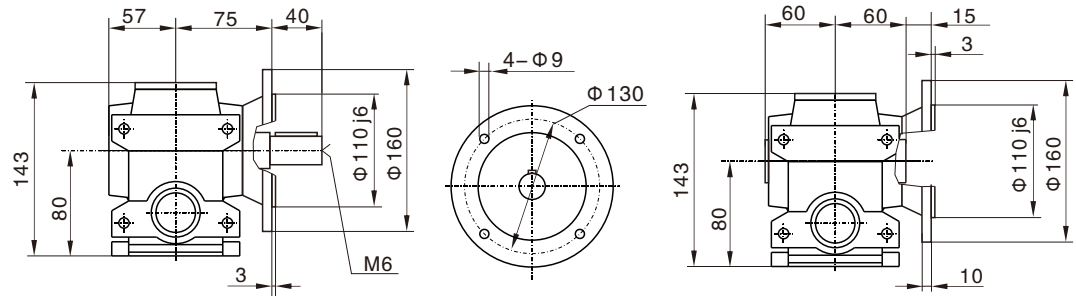
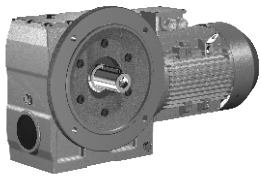
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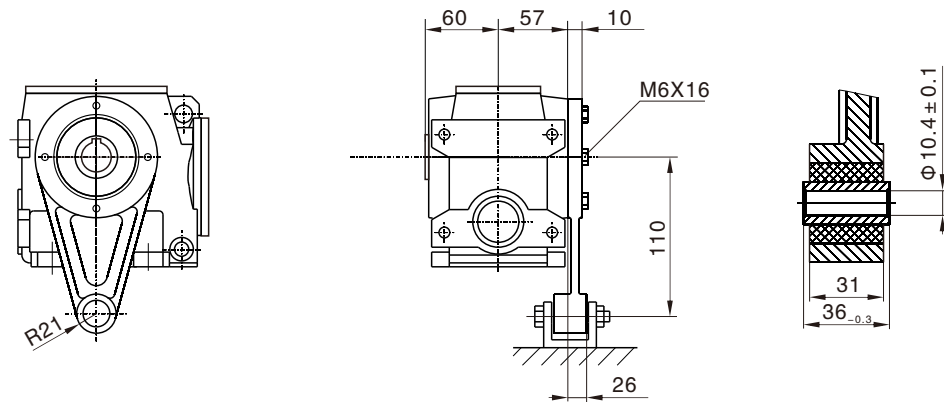
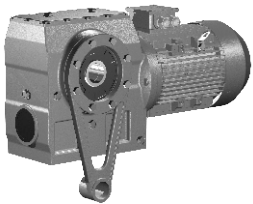
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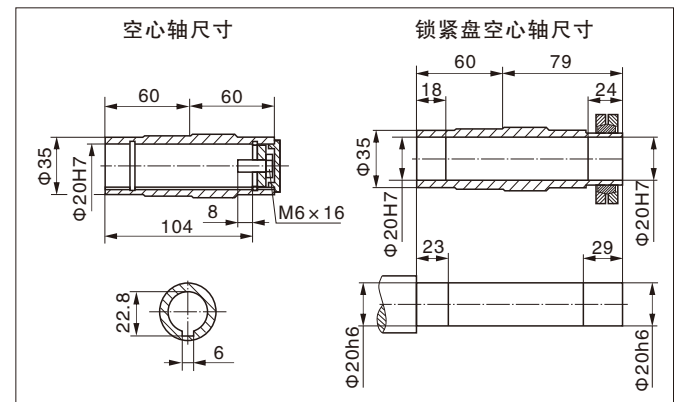
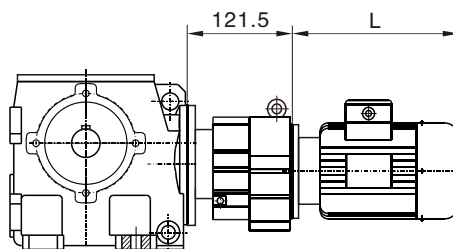
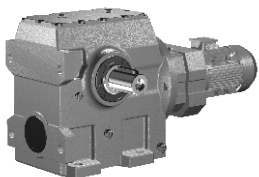
WSAF37($\Phi 160$)
WSF37($\Phi 160$)



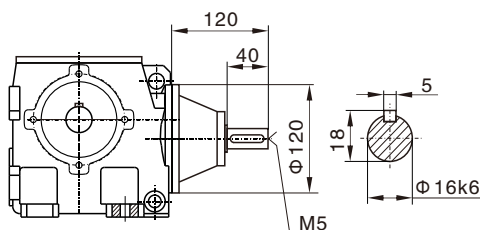
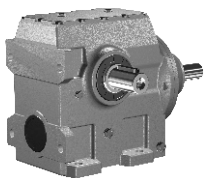
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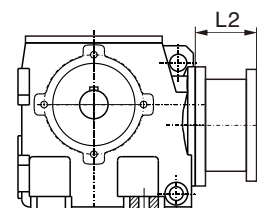
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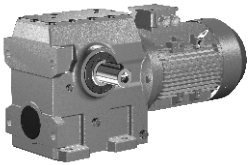
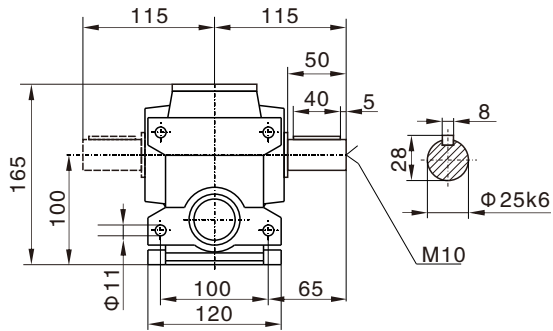
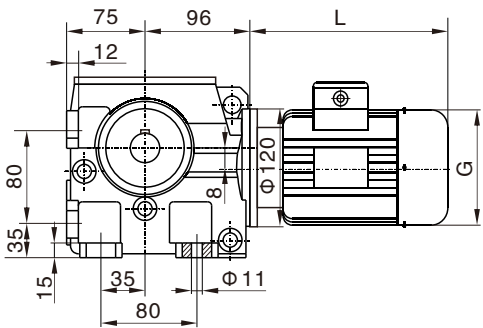
WS..S37



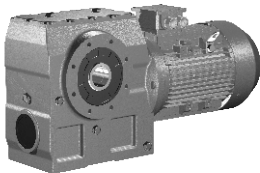
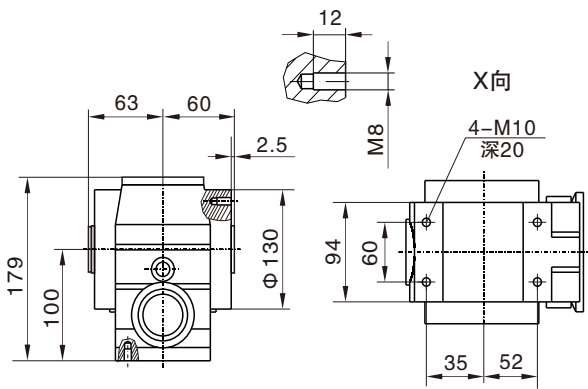
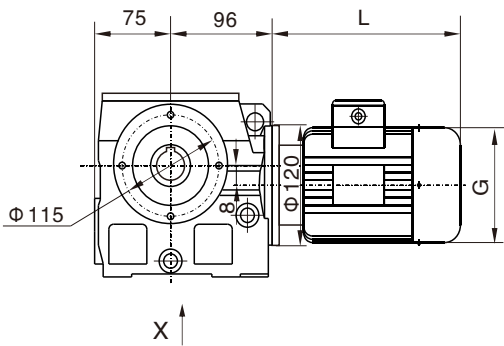
电机需方配或配特殊电机
时需加联接法兰(见第162页)



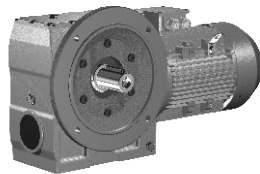
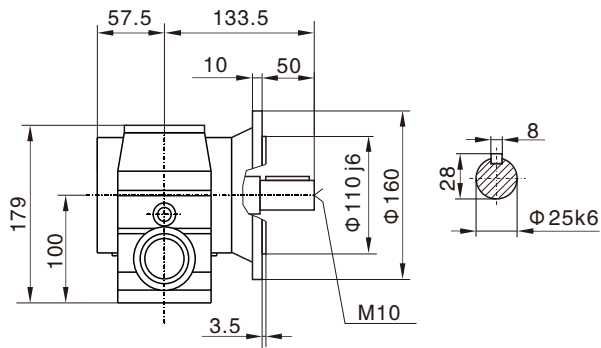
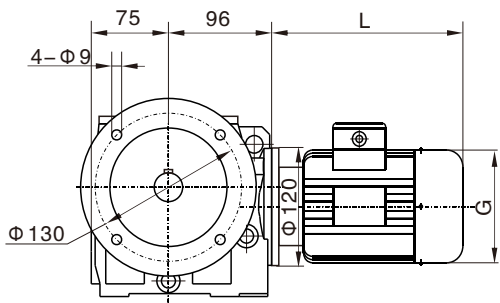
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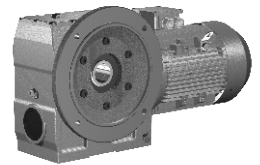
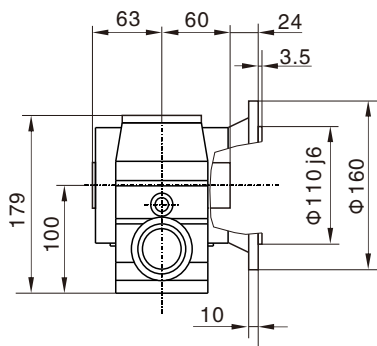
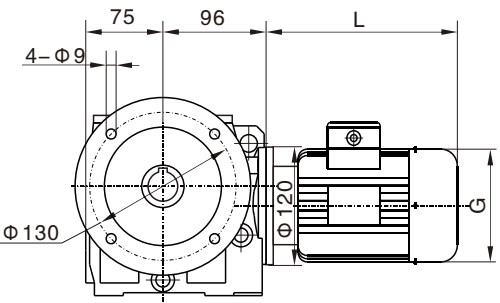
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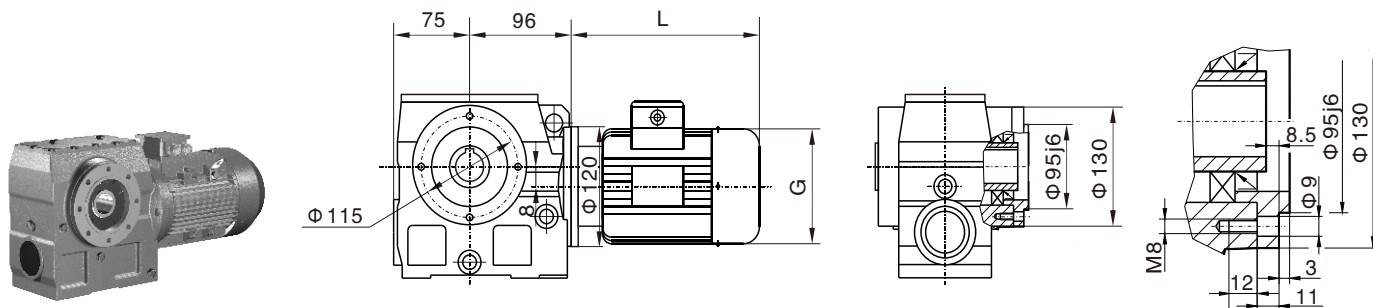
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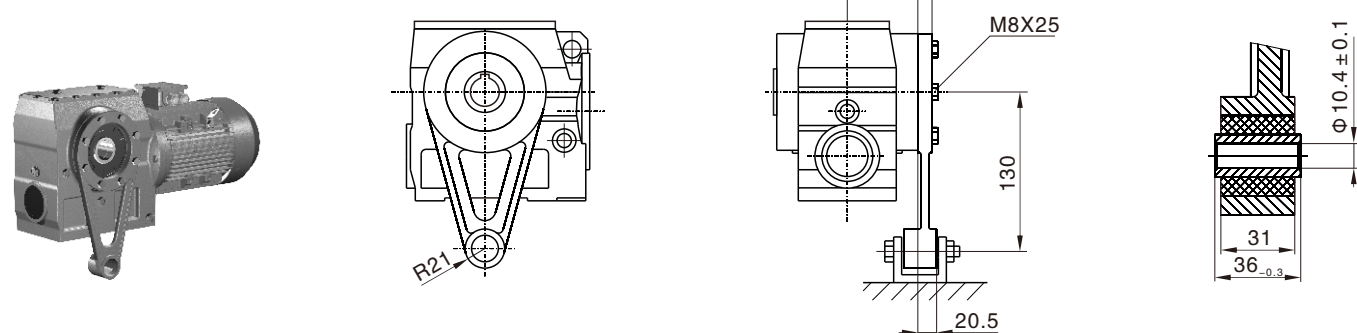
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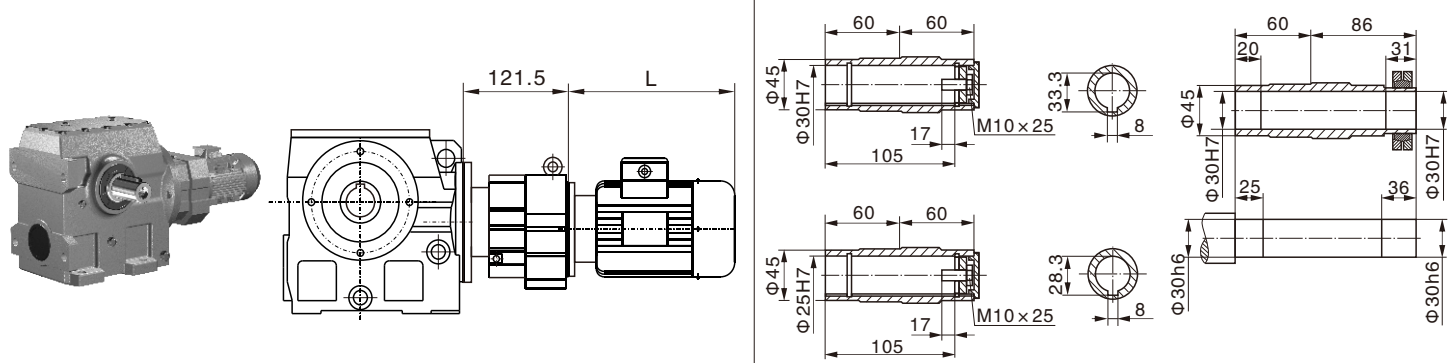
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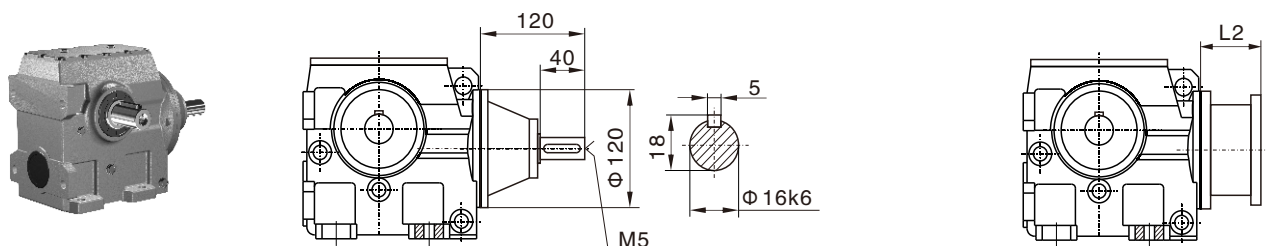
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WS..47WR17

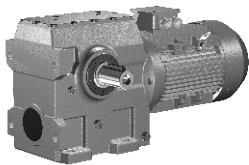
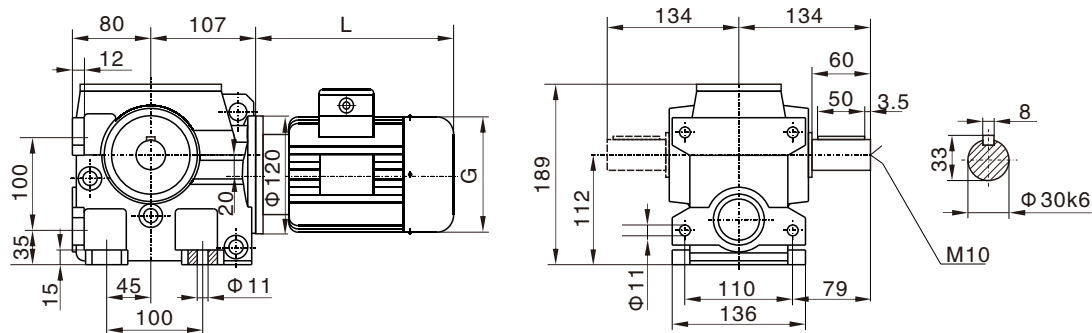


WS..S47



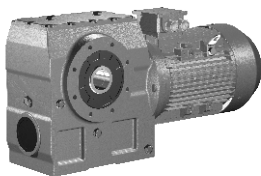
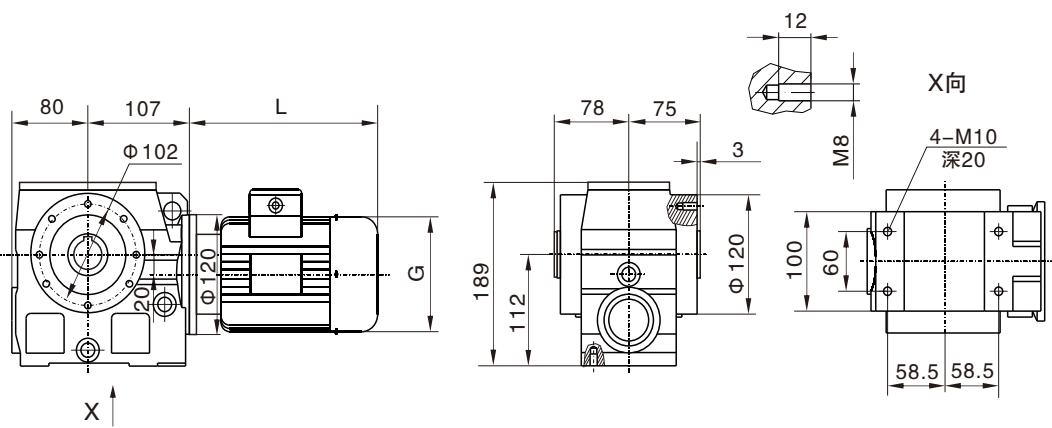
电机需方配或配特殊电机
时需加联接法兰(见第162页)

WS57

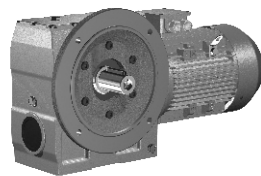
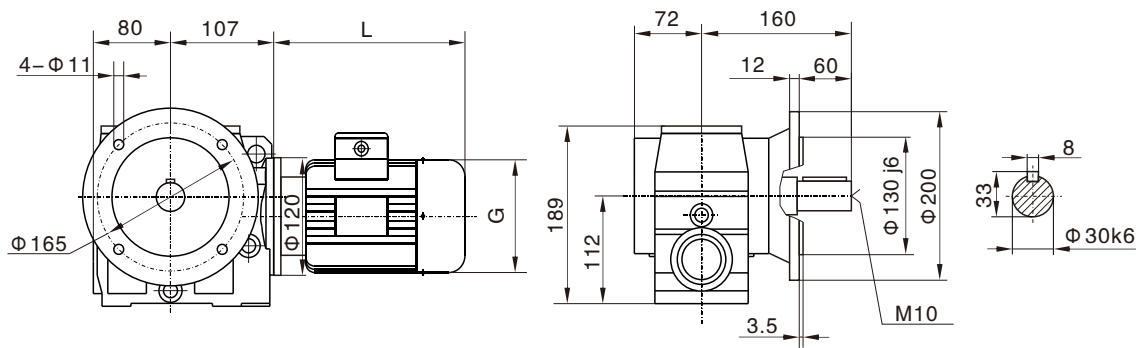


WSA57

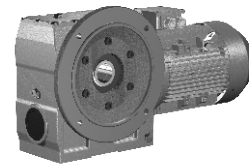
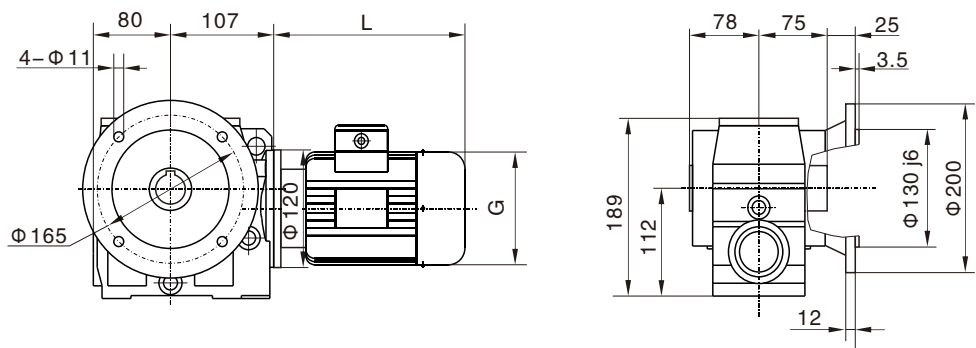
WS



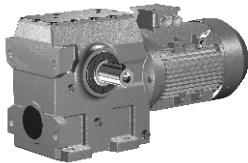
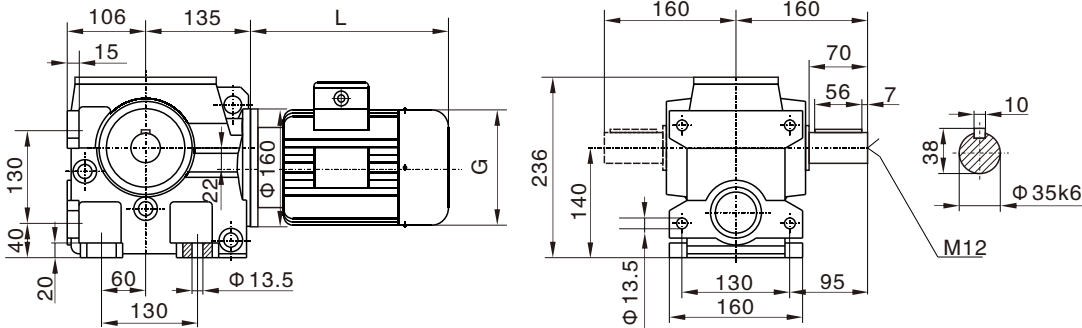
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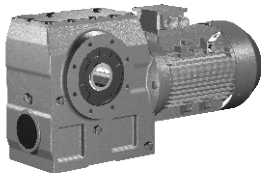
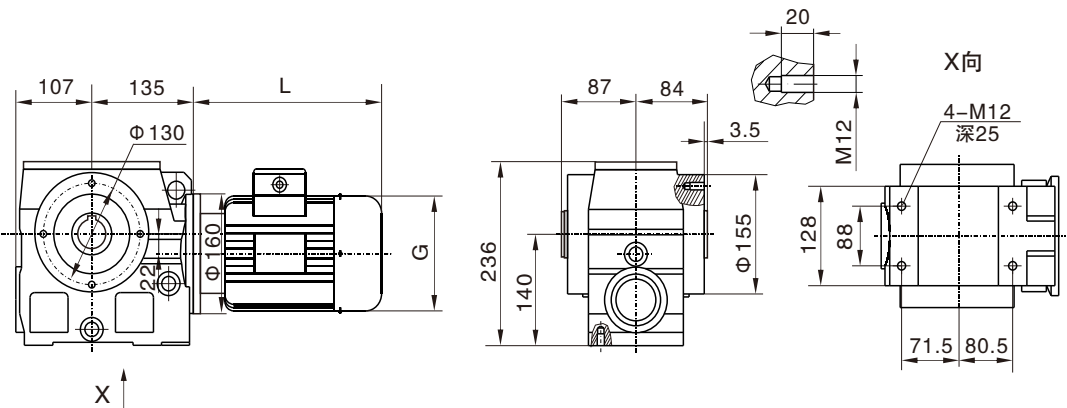
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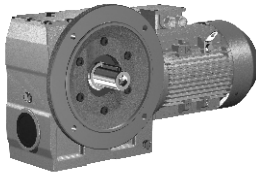
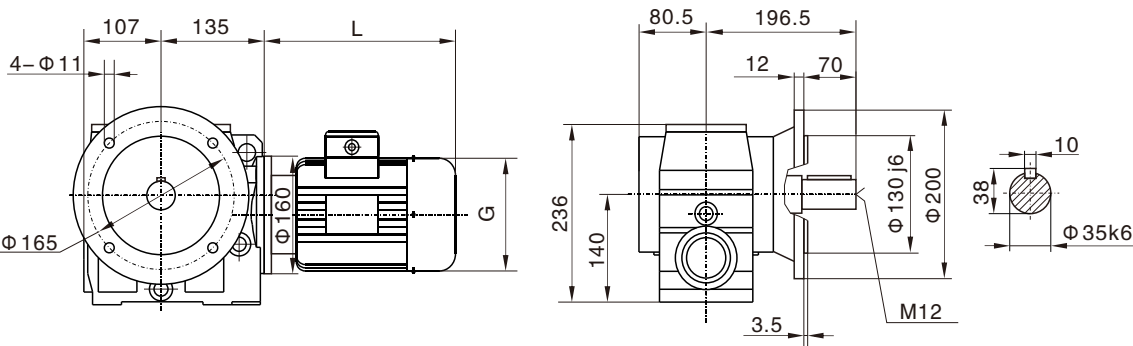
WS67



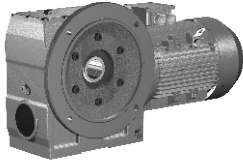
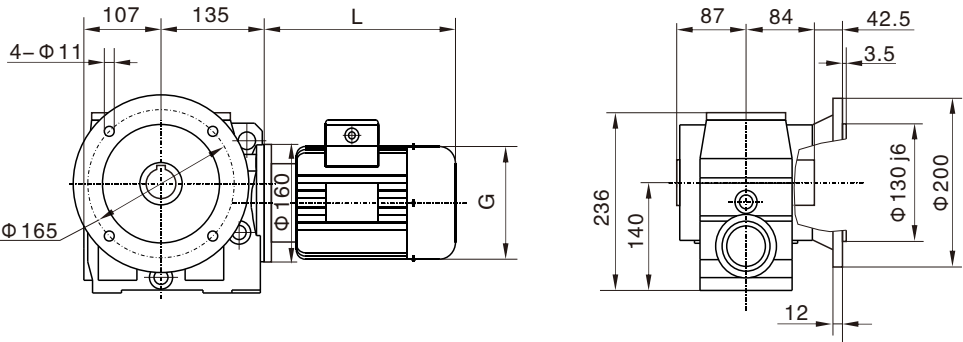
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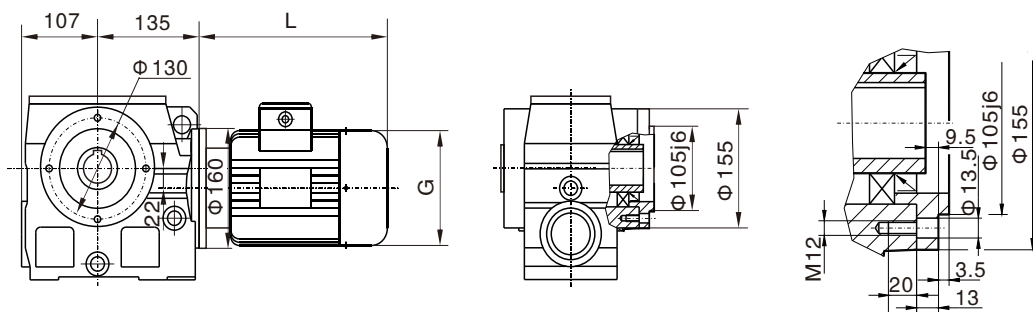
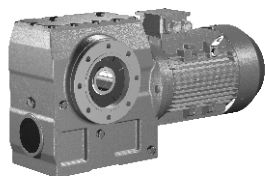
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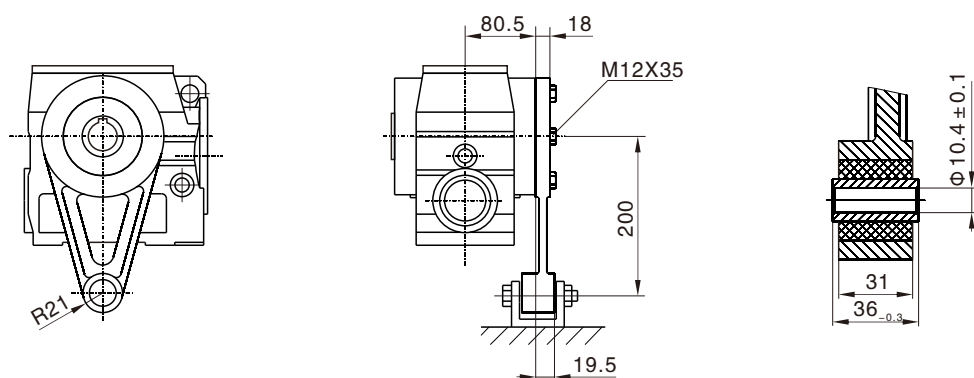
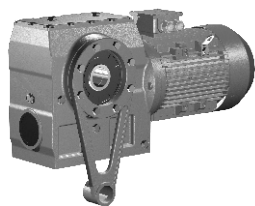
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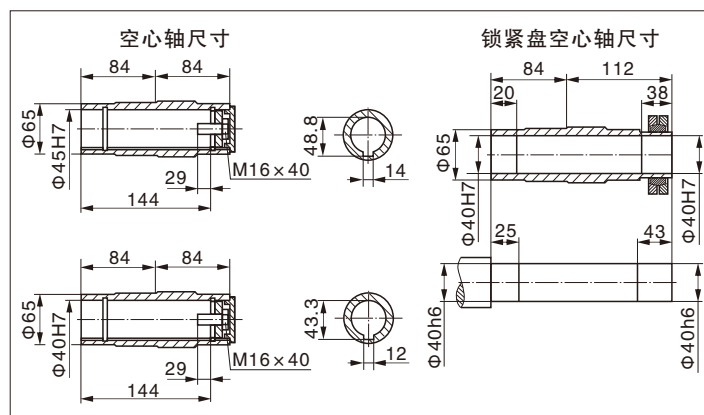
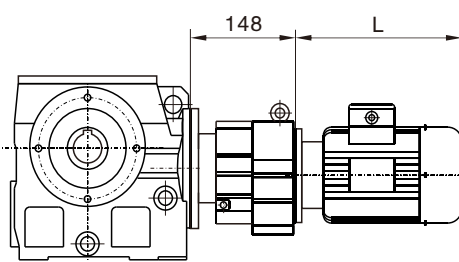
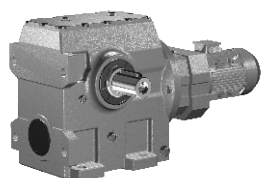
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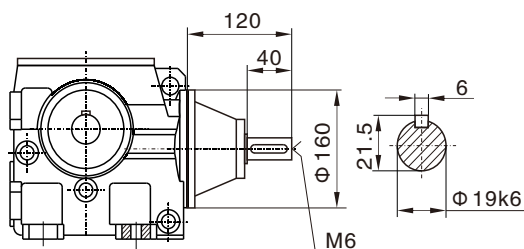
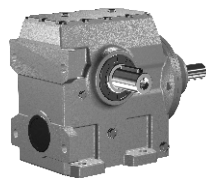
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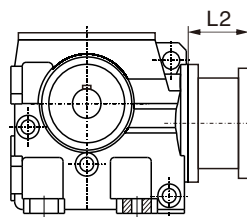
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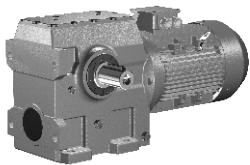
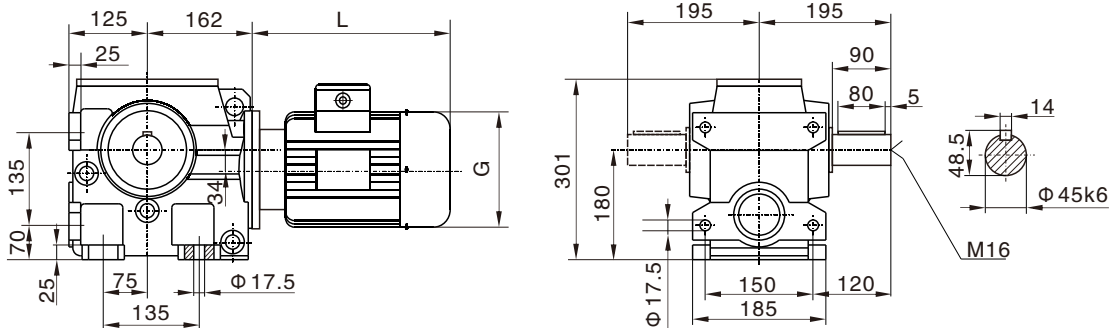
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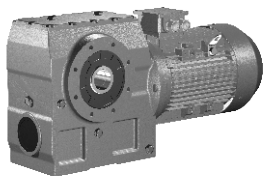
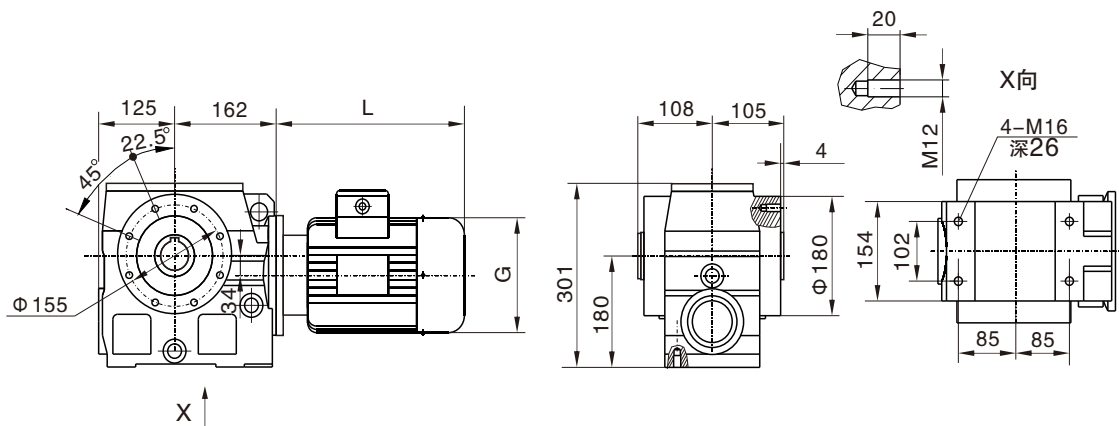
电机需方配或配特殊电机
时需加联接法兰(见第162页)



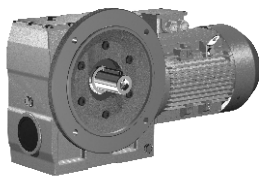
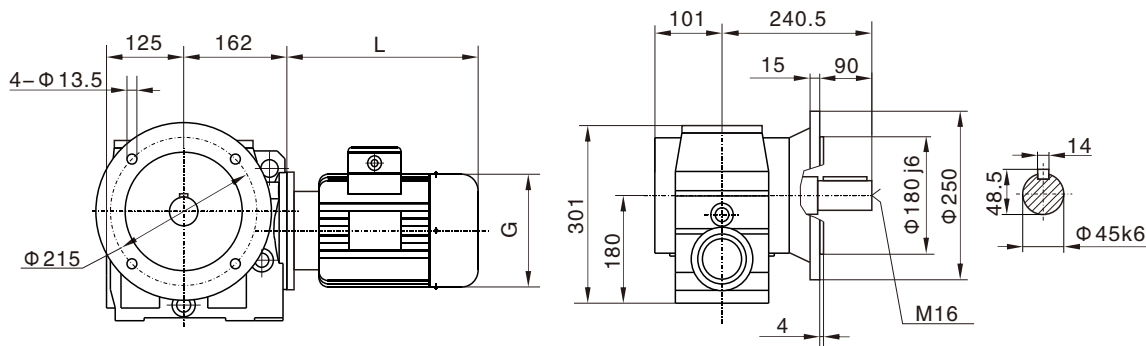
WS77



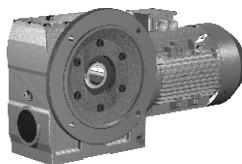
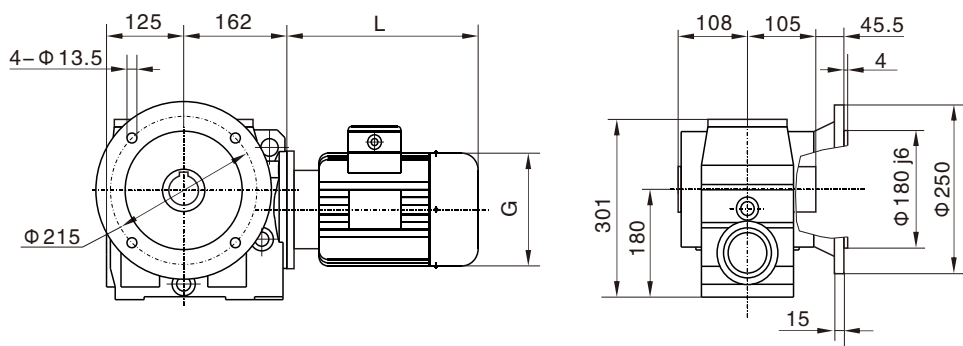
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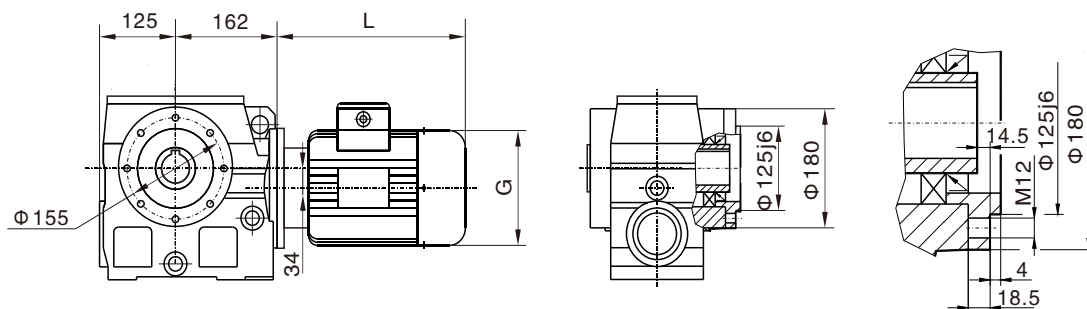
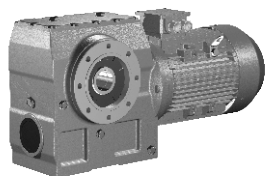
WSF77



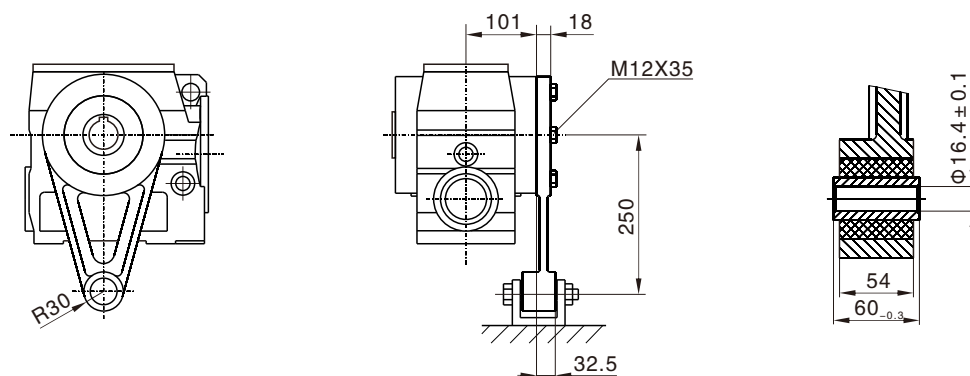
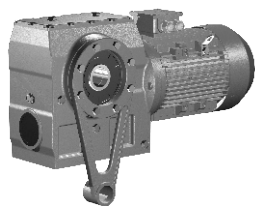
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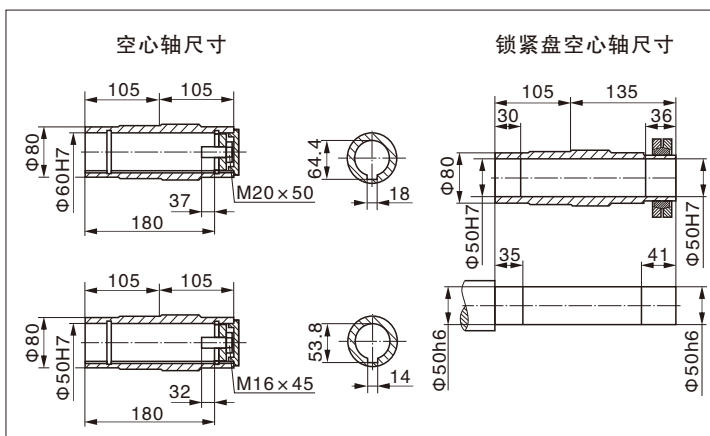
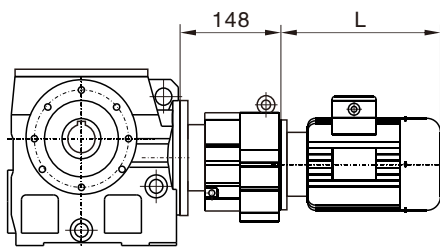
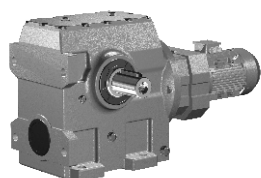
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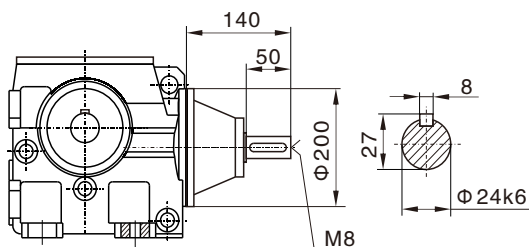
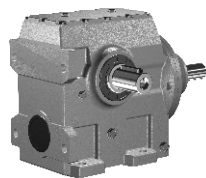
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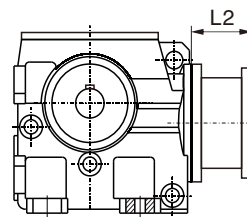
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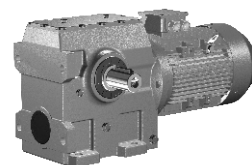
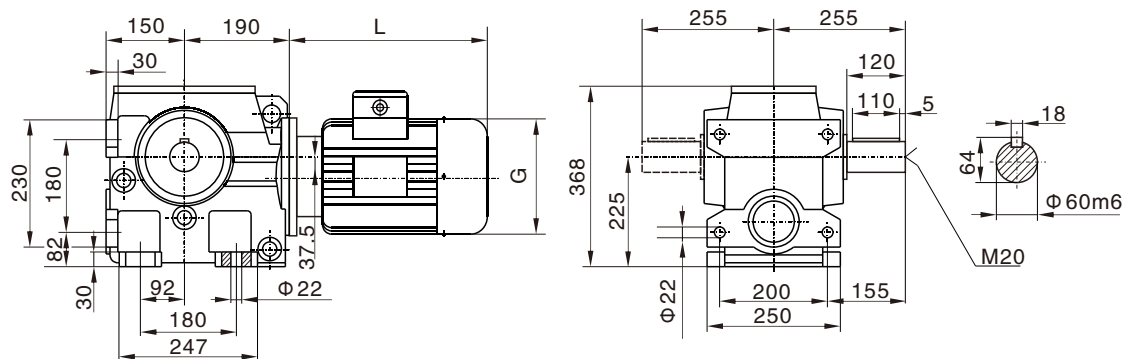
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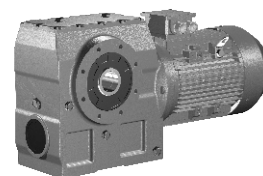
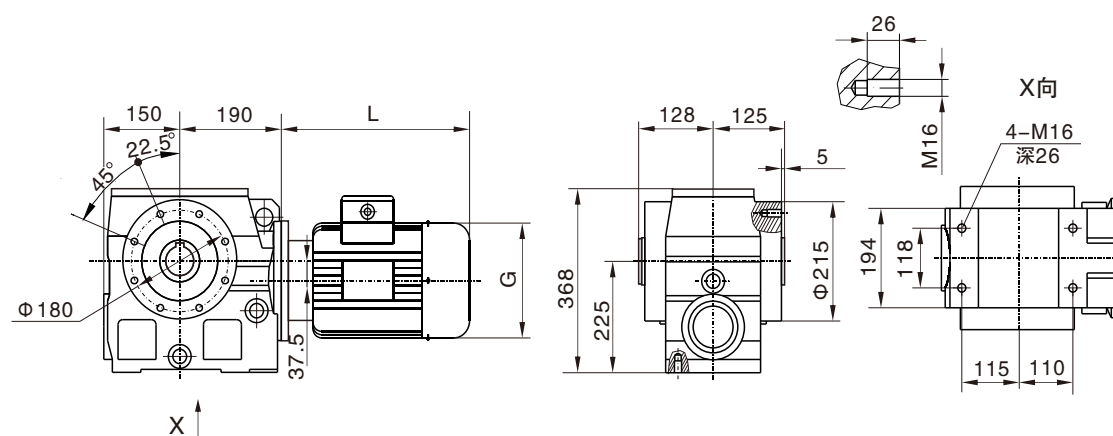
电机需方配或配特殊电机
时需加联接法兰(见第162页)



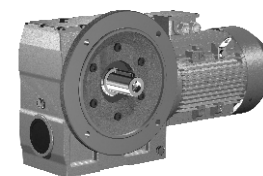
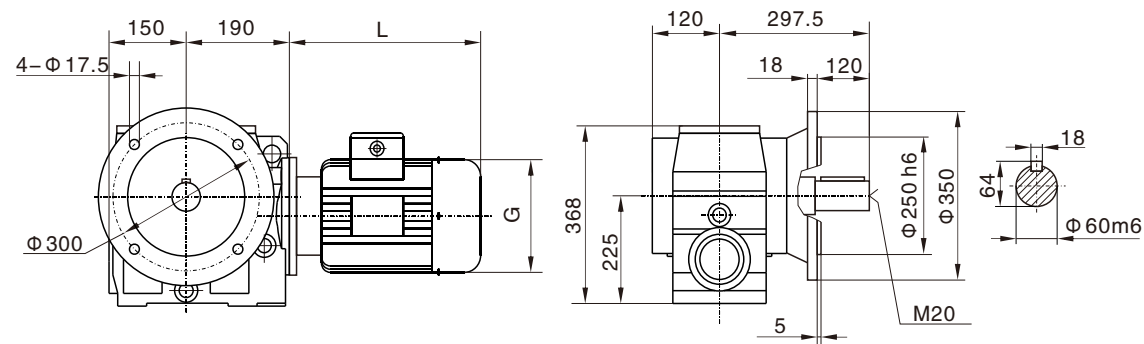
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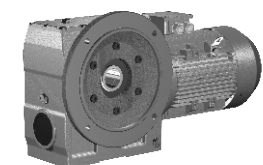
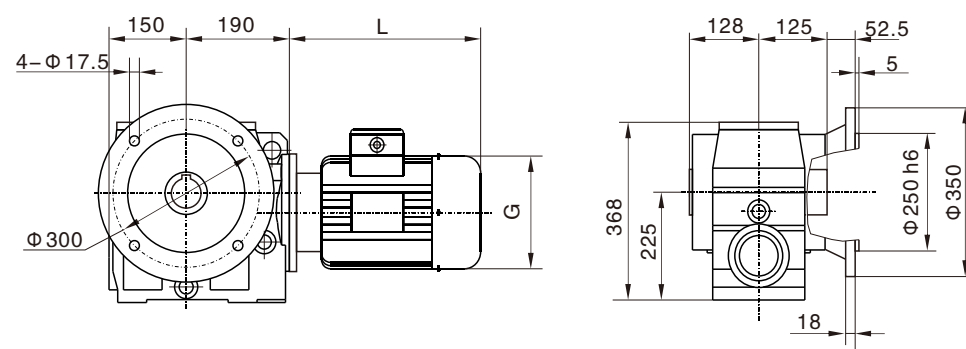
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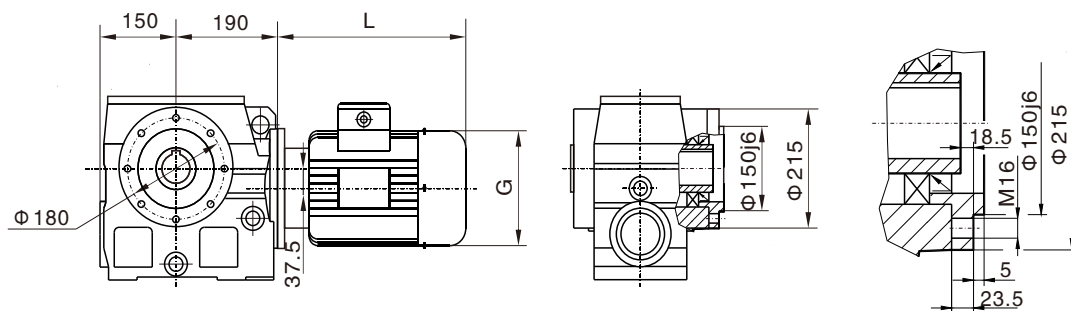
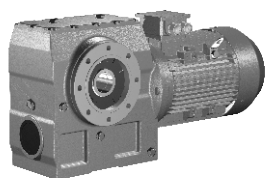
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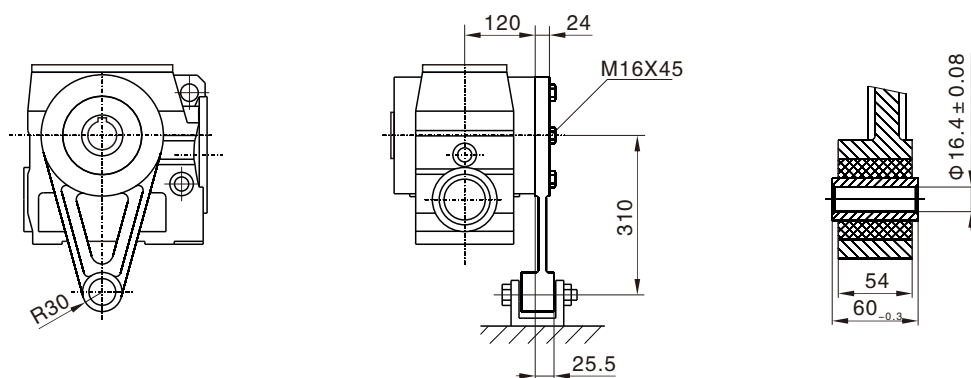
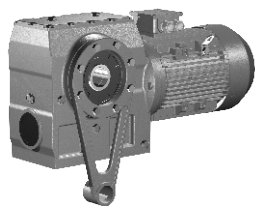
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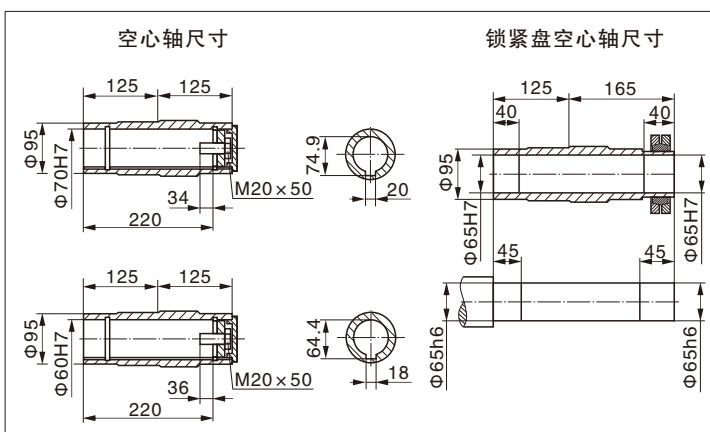
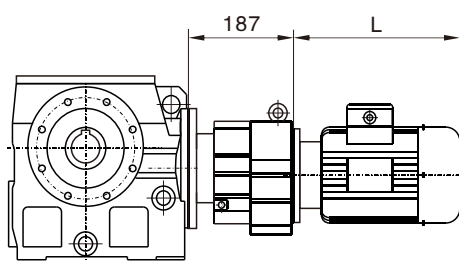
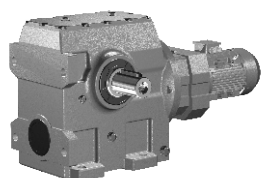
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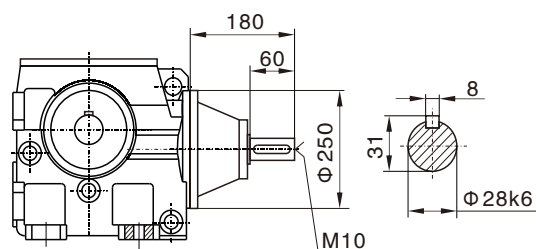
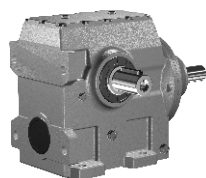
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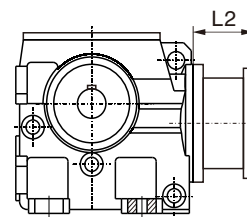
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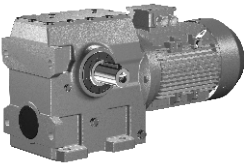
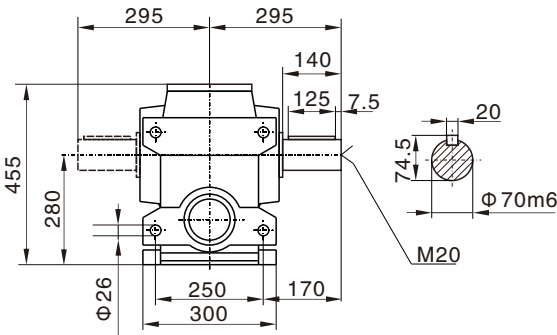
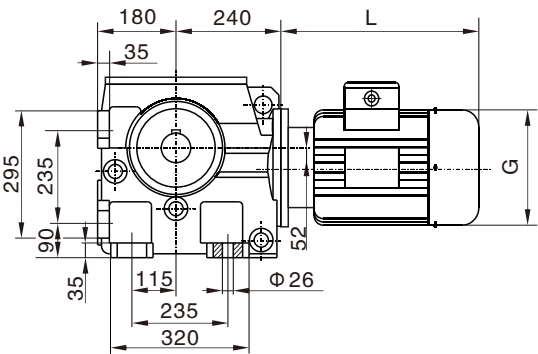
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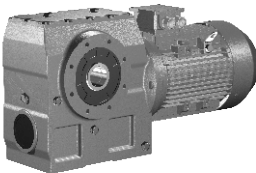
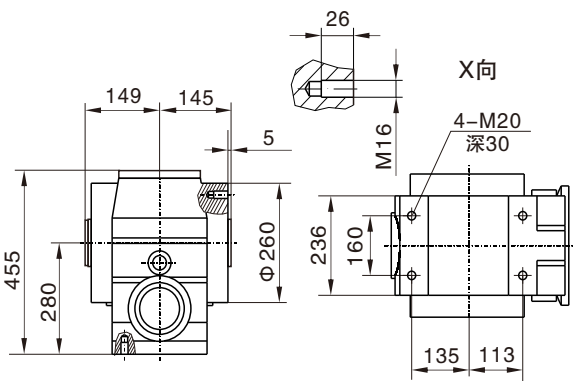
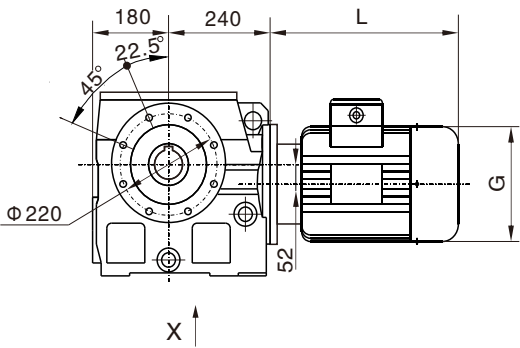
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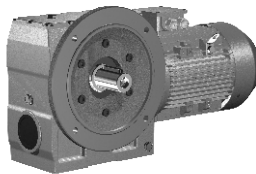
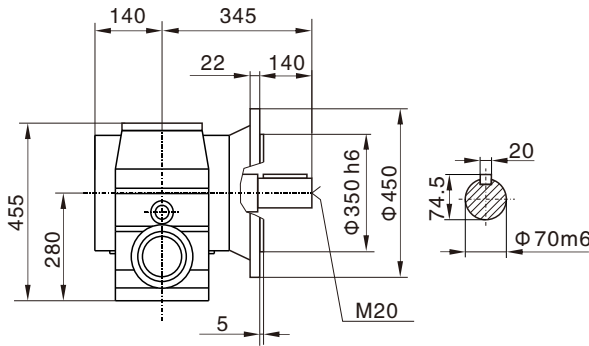
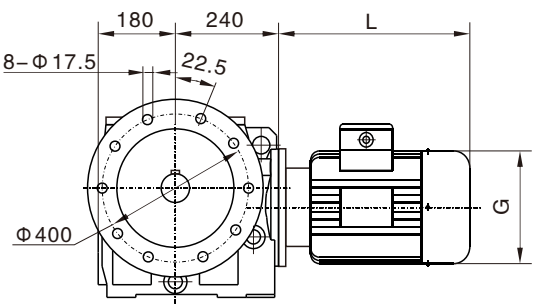
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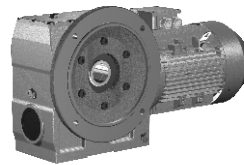
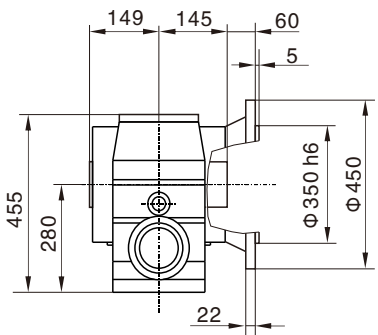
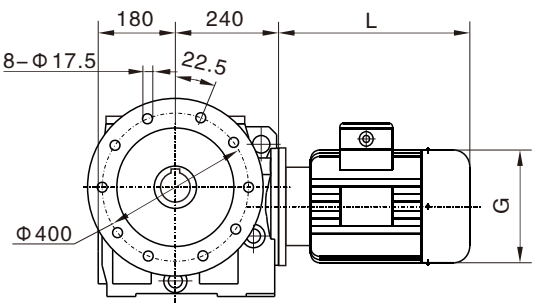
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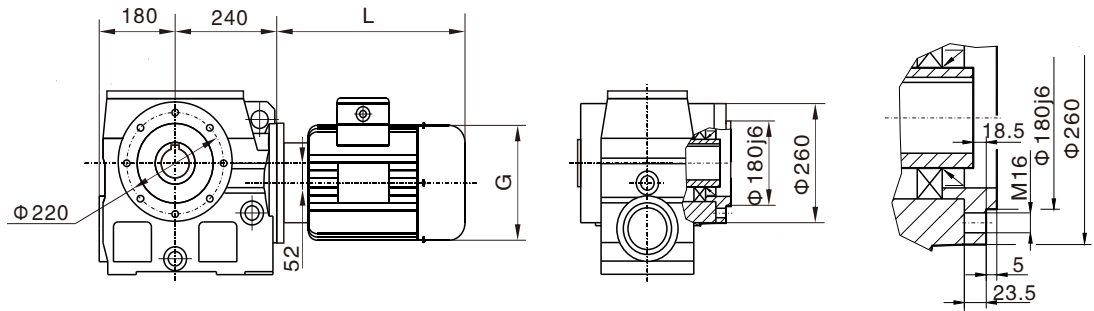
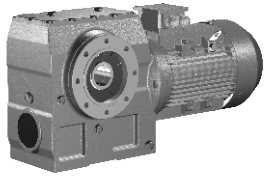
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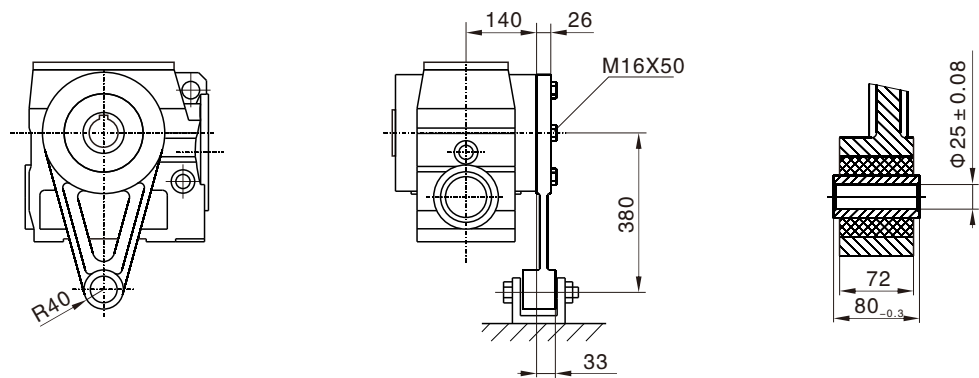
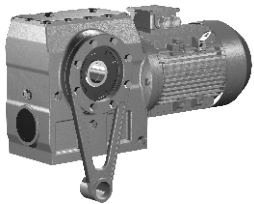
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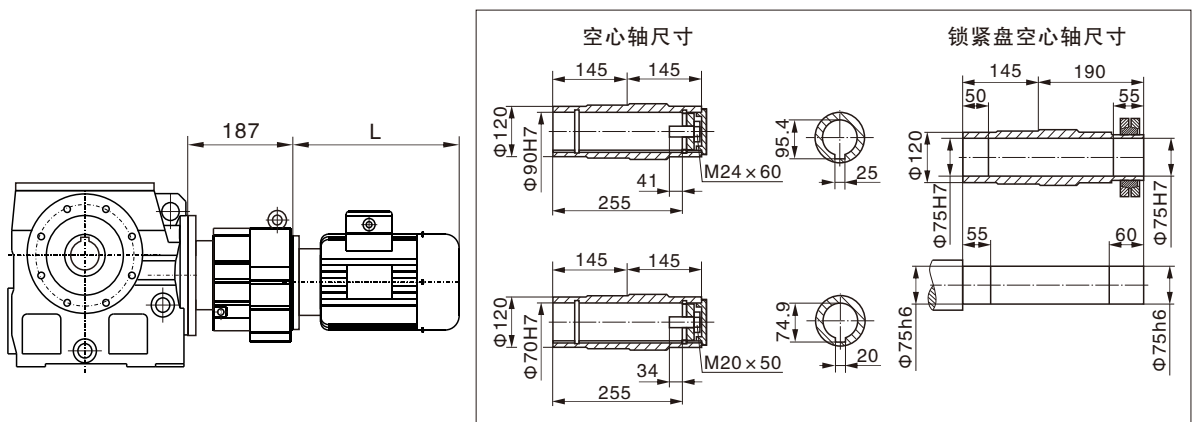
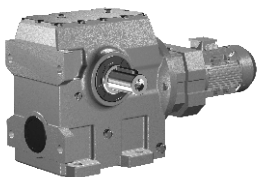
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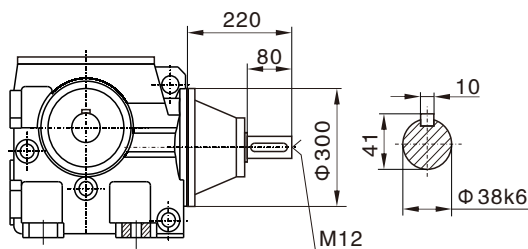
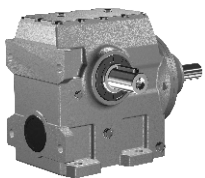
WSAT97



WS..97WR57



WS..S97



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